

CATALOG NO. 949

# LAFAYETTE

## CONCORD

### RADIO & TELEVISION

We guarantee you the immediate benefit of any lower prices prevailing after the catalog is printed. We'll return any over payment to the penny.

**29<sup>th</sup>**  
ANNIVERSARY

1950  
INDEX ON PAGE 158

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World Radio History

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RADIO TUBES



TEST EQUIPMENT



COMPONENTS



HAM EQUIPMENT





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You can live in Saskatchewan, Teaneck, N. J. or Trincomali - it doesn't matter how far you are from the radio center of the world - you're right on the inside, now that you own this catalog... you can get any item you want by mail and fast. Our remarkable mail service has been famous now for 29 years. It's been famous for its speed, the down-to-earth prices (which make most people shake their heads and say, "Don't understand how Lafayette-Concord can work on such a tiny markup!") and our unshakable reputation for reliability. Every printed word in this catalog is backed by guarantees. Anything you see on these pages can be yours just by dropping a card or letter to us. Send a trial order and see what we mean by LAFAYETTE-SERVICE.

# 30 day Free Trial

## Guarantee

We guarantee Lafayette - the bonded Radio - to be satisfactory in every detail and to reach you in perfect condition - that it will give you the service you have a right to expect - that it represents full value for the price you pay.

Every buyer of a Lafayette radio set is entitled to a 30 day Free Trial Offer. If at the end of the period, you are not absolutely satisfied with your receiver, return it to us on or before the 30th day and your money will be refunded in full, less transportation charges.



## BIGGER STOCKS—LOWER PRICES

With 7 stores to keep supplied, and all our purchasing done through one central office, you can imagine the huge quantities of parts and components we buy each year. Naturally, with such complete stocks and rapid turnover, we can afford to work on slim mark-ups... and we do just that. Almost every item in our catalog is priced lower than you would find it elsewhere.

## FAST SPEED-SERVICE

Speed is our middle name! Our mailrooms and switchboards are constantly busy with orders pouring in from every corner of the globe. We usually ship merchandise within 24 hours of receipt of your order. If the branch to which you send your order is temporarily out of stock, there is no delay. Our inter-branch teletype system makes it possible to relay orders and make immediate shipments from another warehouse or branch store.

## FRIENDLY COUNSEL

The men who serve you in Lafayette Radio centers are essentially engineers, not salesmen. If you visit one of our showrooms or write for advice, it will be given freely by our engineers without obligation on your part. Write, call or visit these departments in NEW YORK or CHICAGO: AMATEUR, BROADCASTING, EXPERIMENTAL, INDUSTRIAL, INSTITUTIONS, SCHOOLS, SOUND, SPECIAL LABORATORIES, TELEVISION.

## TIME PAYMENT PLAN

Now you can own a radio, sound system or any electronic equipment that you want, when you want it. All Lafayette centers have an easy time payment plan on radio, television, phonographs, sound and similar equipment. Time payments can be arranged through the mail... please write for details of plan and application blanks.

## LAFAYETTE BUREAU OF STANDARDS

Trained technicians in Lafayette's testing laboratories examine and test every piece of equipment down to the smallest part. Every item sold, either through this catalog or over the counter in one of our seven stores, has been tested and approved by Lafayette's Bureau of Standards.

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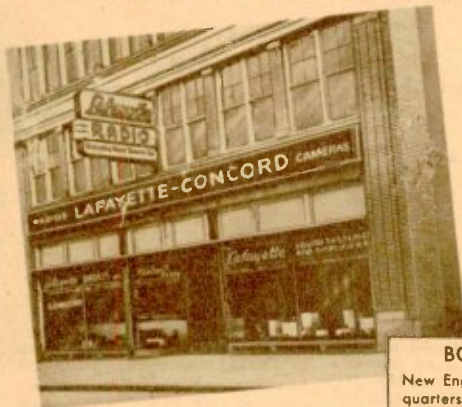
# Lafayette will not knowingly be undersold

World Radio History



# ...for Radios, Parts, and Television!!

1950



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Phone: HU 2-7850

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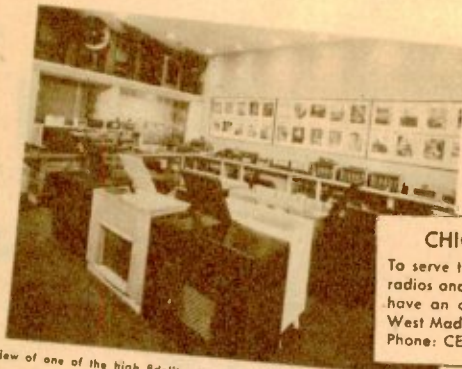
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**29<sup>th</sup>  
ANNIVERSARY**



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radios and cameras we  
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View of one of the high fidelity rooms in the Madison St. store, Chicago



**NEWARK**  
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shopping center is at  
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## LAFAYETTE SELLS OVERSEAS

All orders outside of the continental United States are handled by our main office in New York, and should be marked to the attention of export department. All prices on such orders are net, F.O.B., New York warehouse, subject to change without notice. The merchandise is payable by either confirmed, irrevocable credit, or by a remittance in United States Dollars on a New York bank, and should include enough to cover insurance and consular expenses. All orders are to have a minimum merchandise value of \$10. Goods are packed in cardboard cartons. For wooden export packing, there is a slight additional charge. Please send all correspondence by air for best service.

CABLE ADDRESS: WHOLRAD, NEW YORK, N. Y., U.S.A.



## LAFAYETTE SERVES INDUSTRY

Purchasing Agents for industrial organizations, schools, laboratories, government agencies, etc. etc. have come to depend on Lafayette for unusual parts as well as for routine electronic requirements. When an engineer puts through a hard-to-fill order, marked "RUSH", he knows and his P.A. knows that Lafayette's Industrial Division will speed it all the way. Lafayette delivers...and at the right price.

**For the Best Values...Shop Lafayette First!!**





BANISH NOISE, INCREASE FIDELITY, WITH FM!

LAFAYETTE'S FM-AM TABLE SET

- FM for Noise-Free Reception
- AM for Distance and Variety

FM is sweeping the country! Close behind comes Lafayette, with this beautiful table-model radio, designed to take full advantage of all the improvements inherent in FM reception. And that occasional AM program not yet duplicated on FM, or originating out of FM range, can still be brought in on the AM section of this versatile receiver. You can switch in an instant from static-free, high fidelity programs on the 88-108 mc FM band to top performance on the 540-1700 kc broadcast band. Both FM and AM scales are clearly delineated on the easy-to-read, sloping illuminated "slide-rule" dial.

Circuits have been carefully designed for sensitive, efficient operation. Separate i-f coils are used for FM and AM. FM circuits include an r-f stage, mixer-oscillator, two i-f stages, ratio detector, and beam-power audio output. Frequency drift has been reduced to a negligible minimum. Other features include tone control, quality 5" PM speaker, built-in AM and FM antennas, and connection for external antennas, where desired. Tubes include latest types: (2) 6BJ6, 12AT7, 6BH6, 12AL5, 12AT6, 35L6, and 35Z5 (rectifier). Operates on a-c, or 105-125 volts, 50-60 cycles. Cabinet size: 12"x8"x7" Weight: 8 1/2 lbs.  
 1N819—including tubes.....Shpg. Wt: 13 lbs.....**39.50**  
 Lots of 3.....37.50



CONSOLE PERFORMANCE IN A TABLE MODEL

This Deluxe superheterodyne incorporates most of the features you'd expect to find only in a console radio. A push-pull output stage delivers 3 watts of undistorted signal to the powerful Alnico V 6" PM speaker. Negative feedback across the entire audio circuit greatly reduces hum level and insures excellent tone quality. A continuously-variable tone control lets you pick the exact point of pleasing tonal response. The clearly-lettered "slide-rule" dial slopes just enough so that it may be read from above or in front of the set. And you'll be proud to display the smartly-styled Walnut plastic cabinet, with its unique grill design. A built-in loop eliminates the need for an outside antenna, but a connection is provided for those locations where one might be desirable. The tube complement includes one 6SA7, one 6SF7, one 6SL7-GT, two 25L6-GT, and two 25Z6-GT (rectifiers). Separate power supplies are provided for the output stage and for the rest of the set. Operates on 105-125 volts, a-c and d-c. Cabinet size: 12 1/4"x9"x8 1/4". Shpg. Wt: 12 lbs.

1N708—Each, in lots of 3.....**20.95**  
 Each, singly..... 22.45

MODERN STYLING IN 5-TUBE SUPERHET

You'll be proud to display this 5-tube superheterodyne in its beautifully molded cabinet in walnut plastic, with its unique grill design. The efficient and sensitive circuits use multi-purpose tubes to give the effect of 7-tube performance. The sloping, easy-to-read "slide rule" dial can be read from above or in front of the set. A continuously variable tone control lets you adjust the tone to match the room acoustics. Excellent tone quality and good volume is assured by the 5" Alnico V permanent-magnet dynamic speaker. Hi-Q, dual-tuned i-f transformers typify the high-quality components used internally. There's a built-in antenna, of course. And Lafayette brings you all this at a price lower than even we thought possible only a few short months ago.

The tube complement includes a 12SA7 oscillator and first detector; 12SK7 i-f amplifier; 12SQ7 detector, audio, and AVC; 50L6-GT beam-power audio output stage; and 35Z5-GT rectifier. The cabinet measures 12"x8 1/4"x7 1/4". Weight: 9 lbs.

Radio in walnut plastic. Shipping Weight 12 lbs.  
 1N540..... Each.....**14.95**  
 Lots of three..... Each.....13.95



*Going Somewhere?*



Take your entertainment



wherever you go



with these economical



Lafayette portables



**LUGGAGE-TYPE PORTABLE**

Three-way portable in luggage-type case of striking appearance. Sturdy plywood cabinet is covered with attractive tan leatherette, contrasting with shiny plastic carrying handle and control knobs. Front panel is perforated brushed brass, with dial and markings stamped in red. Radio operates on a-c and d-c (110 volts), or on its own extra-long-life, self contained batteries. Improved superheterodyne circuit uses 4 efficient miniature tubes plus selenium rectifier. Set also has built-in loop and Alnico V PM speaker. Uses one 1R5, one 1L4, one 1U5, and one 2S4 tubes. Cabinet dimensions: 9 1/4" x 7 1/4" x 4 1/4". Weight, less batteries: 7 pounds.

1N425—Less Batteries....Shpg. Wt: 10 lbs....**16.95**

Battery kit for above; one 67 1/2 volt, four 1 1/2 volt batt. 20N19857—Shipping Weight: 2 1/2 lbs. .... 1.65

**PLASTIC CASE PORTABLE**

A three-way portable of smart, modern design in beautiful maroon and ivory plastic cabinet. Flexible plastic strap makes carrying easy, and lies flat when not in use. Tuning dial ranges from 540 to 1650 kilocycles in large, easily-read numbers. Radio operates anywhere on 110 volts a-c, 110 volts d-c, or its own light-weight batteries. The sensitive superheterodyne circuit utilizes one 1R5, one 1T4, one 1S5, one 2S4. A highly-efficient selenium rectifier is used instead of an extra tube. Beam power output plus a powerful Alnico V PM speaker assures plenty of volume and excellent tone. Cabinet measures: 4 1/4" x 7" x 1 1/2". Weight, less batteries, only 6 lbs.

1N421—Less Batteries....Shpg. Wt: 9 lbs. ..**23.95**

Same as 1N421, but adds short-wave band (5.8 to 18.3 mc) less batteries.

1N422—Shipping Weight: 9 lbs. ....29.95

Batt. kit for either model; one 67 1/2 volt, one 4 1/2 volt battery.

20N19881—Shipping Weight: 1 1/2 lbs..... 1.90



**ECONOMY MODEL 5-TUBE SUPERHET**

Here's a 5-tube radio packed with plenty of power and value at Lafayette's low price! The attractive plastic cabinet is designed to harmonize with modern furnishings. You can order it in a Walnut color to match dark furniture, or a gleaming ivory to match light furniture. An Alnico V PM speaker assures sufficient volume and clear tone. All the sensitivity and selectivity inherent in superheterodyne receivers are incorporated in the efficient circuits of this little set. The clock-type tuning dial with prominent numbers, coupled with vernier tuning, makes finding stations easy. The set operates almost anywhere...on a-c or d-c...with its built-in loop antenna, or an outdoor antenna if you prefer one. Included in the tube complement are: one 12BE6 pentagrid converter, one 12BA6 r-f amplifier pentode, one 12AT6 detector-audio-avc, one 50B5 beam-power output, and one 35W5 rectifier. Cabinet measures only 7" x 5" x 5 1/4". Shpg. Wt: 9 lbs.

1N542—Radio in Walnut Plastic Cabinet.....**12.95**

1N543—Radio in Ivory Plastic Cabinet.....13.95



**FULL-SIZE RADIO FOR LESS THAN \$10**

For that second or third radio...for the children's room or the guest room...here is an inexpensive table-model radio at an unusually low price. A 4-tube TRF set, with many of the features of more expensive sets, it can be tuned in on the Kid-dies Hour, the local disc jockey, the ball game, while the "family set" is receiving Mother or Dad's favorite program.

Sturdy cabinet neatly designed in walnut plastic. Large, easy-to-grip knobs operate the volume control and clock-type tuning dial. Power supply for the radio may be 110 volts a-c or d-c. Efficient circuits utilize one 12BA6 r-f pentode, one 12AT6 diode-triode, one 50B5 beam power pentode, and one 35W4 rectifier. The dynamic speaker gives clear tone at good volume. Cabinet dimensions: 9 1/4" x 6" x 5 1/4".

1N426—Shipping Weight: 7 lbs. ....Each.....**9.95**

Lots of 3.....Each.....8.95



# Hit the Road with the HIT OF THE ROAD



## POPULAR 5-TUBE AUTO SET

This popular compact auto radio works well in any car. Designed to fit under the dash, it mounts with only three bolts to dashboard and bulkhead. Using dual-purpose tubes in a 5-tube superhet circuit, it gives the equivalent of 7-tube performance. Dial scale numbers are beautifully illuminated on dark green background. PM dynamic speaker with Alnico V magnet plus beam power output give ample volume with good tone quality. Operates from 6-volt battery at very low current drain. Tube complement includes one 6BE6, one 6BA6, one 6AT6, one 6AS5, one 6X4 (rectifier). Uses long-life nonsynchronous vibrator. Cabinet dimensions: 10½x6¼x4½".

1N541—Shipping Weight: 11 lbs. .... **29.95**  
Lots of three, each.....27.45



## DELUXE 6-TUBE AUTO RADIO

Hold that station as you travel out into the country with this compact easy-to-install 6-tube superheterodyne auto radio. The r-f stage "up front" gives high sensitivity; an i-f wave-trap helps eliminate interference, insuring the tops in auto radio performance. Single unit construction, with three-point mounting makes it simple to locate this set out of the way, up under the dashboard, with only the control panel and speaker grill projecting. The powerful PM dynamic speaker gives excellent tone quality at good volume. Large numbers are clearly visible on the illuminated dial, making it easy to locate stations. The set works efficiently with any type of aerial; an antenna compensator being included for proper matching. Noise-suppression equipment for the average car is included. The metal cabinet has a brown Hammerloid finish with brown plastic knobs, and a maroon-and-white dial. Tubes used are 6BA6 (two), 6BE6, 6AT6, 6AS5, 6X4, (rectifier). Size: 5½x4¾x12¾".

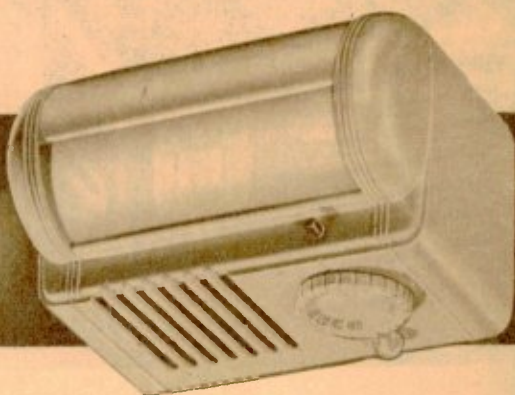
1N623—For 6-V. battery...Shpg. Wt: 9¼ lbs. **34.95**  
Lots of three, each..... 31.95



## BIKE RADIO FOR YOUR DAYS

Make this fine portable bicycle radio your constant traveling companion. Listen to your favorite program wherever you ride. Then when you leave your bike, detach it from the handle-bars and carry it with you as a personal radio. A special "theft-proof" feature prevents anyone else but you from removing the set from the handle-bars. Housed in a beautiful maroon crinkle-finish case, the set mount: a four-section telescoping whip antenna and has a plastic carrying handle on its top. Large, easily-read numbers appear on the tuning dial. A full-size Alnico V PM speaker assures ample volume with good tone. Uses one 1R5, one 1T4 or 1U4, one 1S5, one 3S4 tubes. Operates on two 1½-volt flashlight cells and one standard 67½-volt "B" battery. Cabinet dimensions: 7¼"x4¼"x3¼". Shipping Wt: 3 pounds.

1N420—With Tubes, Less Batt..... **19.95**  
20N19878—Batt. Kit. Shpg. Wt. 1 lb. ....1.52



## BEDLAMP RADIO FOR YOUR NIGHTS

"Soft light and sweet music" is the soothing combination you can have from this cleverly-designed bedlamp radio. Spend pleasant evenings reading in bed to the strains of your favorite melodies. Flip off the light and relax to the radio alone.

Padded, adjustable brackets let you mount the radio on any type of bed rail or headboard. The radio is a full-size, 5-tube superheterodyne, with built-in antenna and dynamic speaker. The bedlamp section contains a standard, tubular lamp, behind a curved, plastic diffusing shield, which unclips from the front of the radio to replace the lamp. The unit operates on 110 volts, a-c or d-c. Radio uses: 12SA7, 12SK7, 12SQ7, 50L6-GT, and 35Z5-GT (rectifier). Dimensions: 9¼" x 5½" x 7". Shipping Weight: 8 lbs.

1N533—Bedlamp radio in walnut plastic.... **21.75**  
1N534—Bedlamp radio in ivory plastic.....21.75  
Lots of three (either color), each.....20.75



# Lafayette

## RECORD PLAYERS



### SPEED RADIO-PHONOGRAPH

One compact, handsome portable case contains a highly sensitive 5-tube superhet radio plus an amplified phonograph for playing 33-1/3, 45 and 78 RPM records. This outstanding entertainment package features the new reversible cartridge pickup with dual needles for standard and microgroove records. Speed regulator on motor board permits instant change-over to each speed. Special disc is provided for adapting turntable to 1 1/2" center hole on 45 RPM records. Plays all records with the lid closed. A full 5" Alnico V PM speaker gives excellent reproduction of high and low notes from records and radio. Tubes: 12SK7, 12SA7, 12SQ7, 50L6GT and 35Z5GT. Attractive two-tone maroon and tan leatherette case measures 14 1/2 x 8 1/2 x 14". Shipping Weight: 20 lbs. For 105-125 V. 50/60 cycles AC.

1N544—Complete with Tubes..... **37.50**

Lots of 3.....Each..... 34.95

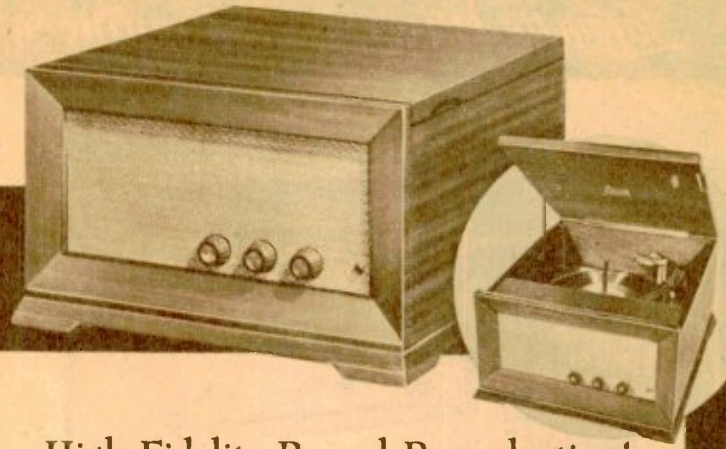


### AUTOMATIC PHONOGRAPH

An inexpensive automatic phonograph of exceptional quality to give you years of record entertainment. Compact, luggage-type case is finished in attractive two-tone brown and tan leatherette. Sturdy, precision-made record changer with ever-running 78 RPM motor plays twelve 10" or ten 12" records with the lid closed. A high fidelity crystal cartridge in lightweight pickup arm assures minimum record wear and wide range response. 3-tube high gain amplifier and 5" Alnico V PM speaker give faithful reproduction of your favorite recordings. Volume and tone controls are located on the outside of the case. Dimensions: 17 x 13 x 9". Shpg. Wt. 21 lbs. For 105-125 V., 50/60 cycles AC.

34N22694—Complete with Tubes..... **38.95**

Lots of 3.....Each..... 34.95



## High Fidelity Record Reproduction!

### NEW AUTOMATIC TABLE PHONO

You won't believe it until you hear it! Tone quality such as this belongs to a massive console...to find it in a compact table model phonograph is the most pleasant surprise we can imagine for the music lovers who have neither the room nor the bank account to install the large, high-priced units formerly required for real high fidelity reproduction. Here's 50 to 10,000 cps  $\pm$  1 db from a 4-tube, push-pull beam power amplifier, plus individual bass and treble tone controls. Here's a highly efficient 6" PM speaker, carefully matched electrically to the amplifier, and matched acoustically to the cabinet. Here's cabinet beauty consistent with the tone quality...a rich, hand-rubbed mahogany veneer contrasted with a soft, golden-colored speaker grille — a combination that blends with both modern and period furniture styling. The latest type record changer operates automatically with all three kinds of records: 78, 45 and 33-1/3 RPM. The lightweight phono pickup contains a dual-needle cartridge which is tilted into correct playing position by an easily moved lever on the pickup housing. No weight shifting is necessary. Piano hinged lid has a lid stay, and can be left open or closed while the instrument is in operation. Dimen: 17x18 1/2 x 10-3/8" high. Shpg. Wt: 34 lbs.

34N2265.....Net..... **124.50**



### 3 WAY SHORT WAVE PORTABLE

Enjoy both standard broadcast and 16-51 meter short wave bands...anywhere, anytime with this powerful, 6-tube, 3-way portable receiver. Plays on self-contained batteries or 110/220-volt AC-DC power source. You'll be amazed at the rich, full tone reproduced by the highly sensitive Alnico V PM speaker; also how easily the advanced superhet circuit brings in foreign and standard broadcasts with ample volume and excellent clarity. Features an automatic volume control, a built-in loop for standard broadcasts and a 42" telescoping whip antenna for short wave. Large, easy-to-read airplane type dial is calibrated in meters and megacycles on the short wave band. Tubes: 1R5, (2) 1N5, 1H5, 3Q5, 11724. Handsome luggage-type case is finished in attractive two-tone leatherette. A protective cover for the control panel slides into the cabinet during operation. Dimensions: 13x6x11 1/4". Shipping Weight: 13 lbs.

1N651—2-Band Set with Tubes, Less Batteries..... **39.95**

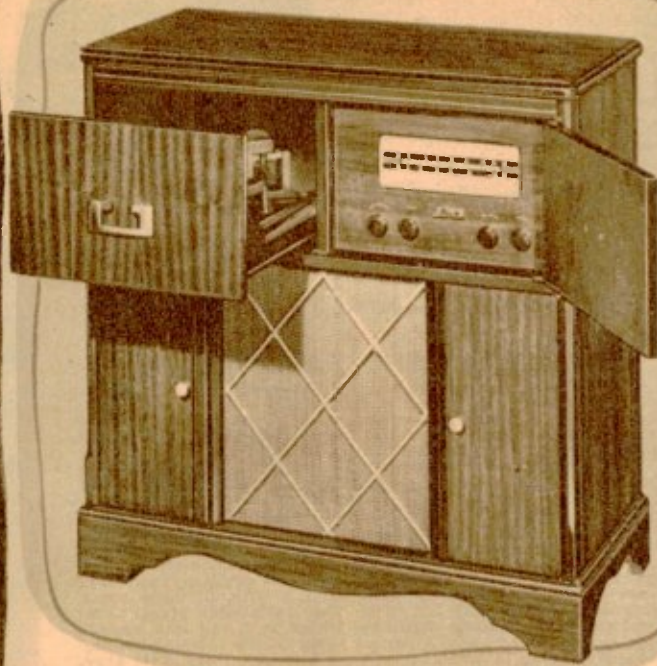
3-Band Set. Adds 50-140 Meter Band with Tubes, Less Batteries. 1N653..... 51.50

Battery Kit for either of above portables.

20N19880—(2) 45-volt and (2) 4 1/2-volt Batteries..... 4.78 5



# Lafayette Offers Two Magnificent Console Combinations



## BEAUTIFUL REGENCY CABINET

This splendid combination is assembled in an attractive Regency-styled mahogany veneer console cabinet that harmonizes with any traditional furniture and interior decoration. Convenient space is provided alongside the speaker enclosure to store your most used albums of record favorites.

## A Featured Value!

**FM-AM Reception Plus  
Automatic Phonograph  
for the Cabinet Price Alone**

### 2-SPEED RECORD CHANGER for LP & 78 RPM RECORDS

Here is a sensational radio-phonograph value that stands out above all competition! A powerful 8-tube radio PLUS staticless FM, combined with a fine automatic phonograph. You'll thrill to the full range reproduction of both records and radio... especially the brilliance of tone and noise-free reception on the FM band. Every feature of this exceptional instrument is the result of modern engineering design and finest workmanship. An advanced superheterodyne circuit covers the entire standard broadcast (540-1600 KC) and FM (88-108 MC) bands. Each band is equipped with its own built-in antenna for maximum signal: a loop antenna for AM and a dipole for FM. The full size speaker has plenty of reserve power and range to faithfully reproduce all the instruments of a symphony orchestra. For your record enjoyment, you can play a complete symphony or several hours of dance music with but a single record change. The quiet, gentle record mechanism plays ten 12-inch or twelve 10-inch records—automatically... either 78 or 33 1/3 RPM. A special reversible cartridge in the pickup arm assures proper balance and tracking on both types of records. Tubes: 12AT7, 6BE6, (2) 6BA6, 6AL5, 6AT6, 6AQ5 and 5Y3 rectifier. For 105-120 volts, 60 cycles AC. Dimensions: 33x34 1/2x16 1/2". Shpg. Wt. 90 lbs.

**IN813—Complete with Tubes.....149.50**

Same combination as above, except with single speed 78 RPM record changer.

**IN814—Shipping Weight 88 lbs..... 139.50**



## Lafayette FM-AM Chassis-Speaker and Record Changer for your Custom Installation...

A powerful FM-AM chassis and automatic record changer built to the most exacting standards of performance. Ideal for custom installation. Install it in your own furniture or select a cabinet from this catalog. This custom package includes a complete FM-AM 12-tube radio and 3-speed record changer mounted side by side on a sturdy baseboard (a smoothly sanded wood radio panel with framed dial cut-out is also mounted on the baseboard), a 12-inch Alnico V PM speaker, a loop antenna for the standard broadcast band (540-1700 KC) and a separate built-in dipole for the high fidelity FM band (88-108 MC). Important other features include a FULL RANGE TONE CONTROL PUSH-PULL AUDIO OUTPUT, AUTOMATIC FREQUENCY CONTROL and AUTOMATIC VOLUME CONTROL. The 3-speed record changer is supplied in a wood base mounted on a "slide-out" device for easy accessibility. It plays ten 12-inch, twelve 10-inch and twelve 7-inch records automatically... either 33 1/3, 45 and 78 RPM. Tubes: 6BA6, 7F8, 7Q7, 6C4, 7AH7, 6SG5, 6SQ7, 7A6, 7F7, (2) 7C5 and 5Y3GT rectifier. Size: 30" wide, 9 1/2" high, 15 3/4" deep.

**IN1212—Shipping Weight 75 lbs. 129.50**

**IN1208—Chassis and Speaker.....77.50**



For Greater Listening Pleasure and Lower Cost to You!

# Lafayette 12-Tube FM-AM Combination

Superb High Fidelity Reception  
Concert Hall Realism from  
Your Symphonic Recordings

- Automatic Frequency Control For Top FM Performance
- New 3 Speed Record Changer For 33½—45—78 RPM Records
- Push-Pull Audio Output
- DeLuxe 12" Concert Speaker
- Latest FM-AM Circuit

Now... you can have true luxury in a radio-phonograph combination at a moderate price. Everything you could possibly desire for complete listening entertainment, has been packed into this fine musical instrument: High fidelity FM reception on the 88-108 MC band; remarkable sensitivity and selectivity on all standard broadcast stations from 540-1700 KC; an automatic phonograph with the latest type record changer that plays ALL speed records; a handsome console cabinet of exquisite hand-rubbed mahogany veneers for added beauty and richness in your home.

No detail has been overlooked to make this radio-phonograph one of Lafayette's truly remarkable values. The smooth, fast operating precision record changer plays all makes and sizes of records... 7, 10, 12-inch, conventional or long-playing type. You can stack a group of 10 and 12-inch long playing discs on the instrument and enjoy up to 4½ hours of your favorite music without interruption.

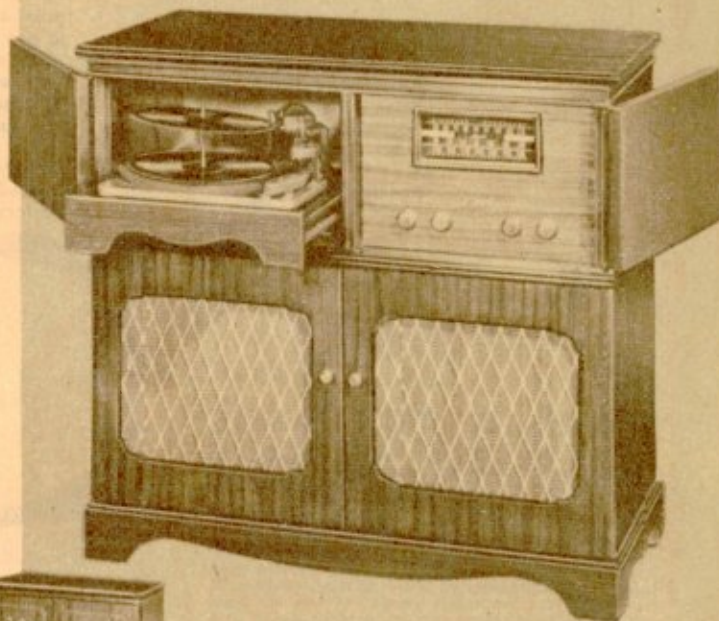
Modern engineering has worked wonders to give you the newest in circuit design including the advantages of an automatic frequency control for the FM band. This advanced development solves the problem of stability and increased accuracy in FM tuning. The powerful, efficient circuit also includes push-pull beam power audio output, an automatic volume control and 12 tubes (including rectifier) for "in person" performance on both FM and AM. A loop and separate dipole antenna built into the cabinet, make outdoor installations unnecessary in most locations. High fidelity reproduction of records and radio is provided through the deluxe 12-inch Alnico V PM speaker and push-pull amplifier. Wattage is high enough to take care of peak output without distortion, yet capable of bringing out the softest passage of an orchestral selection. Tubes: 6BA6, 7F8, 6C4, 7AH7, 6SH5, 6SQ7, 7A6, 7F7, (2) 7C5 and 5Y3GT rectifier. Operates on 105-120 volts, 60 cycles AC only. Cabinet dimensions: 33½ x 35 x 17". Shipping Weight 100 lbs.

**1N1209—Complete With Tubes...179.50**

Same radio-phonograph as above except with a single speed record changer for standard 78 RPM records.

**1N1207—Shipping Weight 98 lbs.... 169.50**

**CABINET ONLY—Shipping Wt. 45 lbs.. 72.50**



If You Like The **MODERN** Touch



## Lafayette FM-AM Combination

Here is the same chassis, speaker and phonograph unit described above except housed in a cabinet for the modern home. Consider this fine console of striking design and functional beauty... molded of selected hardwoods, bleached and hand-rubbed to a lustrous finish. The beveled molding and offset legs add a richness to the distinctive styling. Record changer compartment slides out for easy accessibility without disturbing decorative pieces on the cabinet top. Radio chassis and tuning controls are mounted in the adjacent space; a hinged, "slide-away" door tucks into the space provided above the control panel. The lower section is covered with attractive woven grille cloth concealing the baffle and 12-inch high-fidelity speaker. Dimensions: 35" high x 36½" wide x 17½" deep. Ship. Wt. 100 lbs.

**1N1211—Bleached Oak..... 189.50**

\*Same FM-AM radio-phonograph except with single speed record changer for standard 78 RPM records.

**1N1210—Shipping Weight 98 lbs..... 179.50**

**CABINET ONLY—Shipping Weight 45 lbs..... 82.50**



# Lafayette Large Screen

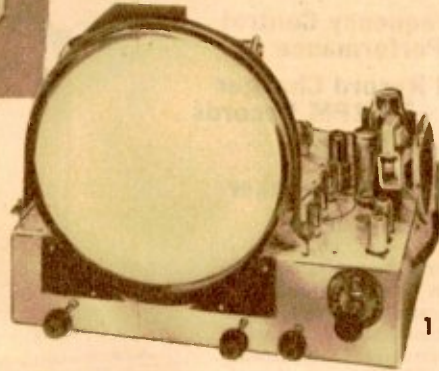
For 1950, Lafayette brings you perfected and performance-proved television in the larger size screens at prices you want to pay. CONSOLES . . . TABLE MODELS . . . CHASSIS for custom installation—a model to fit every requirement of space and price. Lafayette television is "Eye-Fidelity" television . . . another way of expressing high fidelity reproduction in terms of visual enjoyment. Pictures come in clear and bright, and the sound is better too, because it's staticless FM. You will marvel at the life-like realism of the pictures. These fine quality units are ruggedly built with the best parts to give years of superb performance.

TV Cabinets on Page 10  
TV Antennas Pages 108-109

## GIANT 16" TV CHASSIS

Here's exciting new big screen television in a precision-built chassis for your custom installation. A huge 145-square inch picture that can be viewed from any part of your living room in comfort and without eye-strain. Brilliant, life-like pictures of all TV programs brought into your home for full enjoyment. See and hear thrilling sports events, amusing comedy, dramatic presentations, movies and talent shows reproduced with amazing realism. A new automatic frequency control system for horizontal synchronization assures greater detail and locks the picture in against normal noise bursts. Another development is the new high voltage power supply with improved regulation which provides far better contrast and brilliance. The large, extra bright picture permits day or night viewing without discomfort. All 13 channels are covered with highest sensitivity. Tuning is easy and precise. Top quality FM sound system reproduces music and speech with exceptional clarity and resonance. Dimensions: 23½"H. x 18½"W. x 20"D. Shpg. Wt. 85 lbs. Tubes and speaker included.

IN137—With 16" Picture Tube.....**209.00**



## 12 1/2" DIRECT VIEW TV CHASSIS FOR CUSTOM INSTALLATION

Use an existing cabinet, or adapt one of your own choosing to this TV chassis with a big 95-square inch picture. Completely wired and assembled, ready for immediate installation. Here is truly outstanding video reception at low cost. Clear, sharp, steady image with plenty of contrast. Advanced circuit features include automatic frequency control and high voltage power supply to assure top performance on all 13 channels. Exceptional sensitivity gives amazing reception in fringe or weak signal areas where the average TV receiver shows poor results. Now, you can enjoy all the wonderful TV programs with fine clarity and viewing brilliance. Easy to manipulate controls permit pin-point focusing and contrast. No special skill is necessary to bring in your favorite programs. With tubes and speaker. Dimensions: 15½"H. x 18½"W. x 20" D. Shpg. Wt. 80 lbs.

IN136—With 12½" Picture Tube.....**169.00**

## RADIO CRAFTSMEN 16" TV TUNER

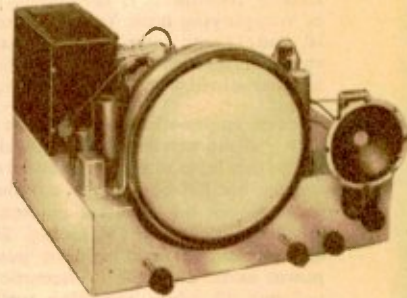
HI-FI Amplifiers  
on Pages 18-19



Literally a serviceman's dream! A deluxe, precision engineered video tuner of extreme sensitivity, designed especially for use with a 16" kinescope or any cathode-ray tube that operates at 12 kilovolts. High sweep voltage is more than sufficient for "giant circle" type operation. Here is the ideal chassis for a fine custom installation. The tuner is finished in gleaming polished CHROMIUM, neatly arranged and wired for maximum efficiency and attractive appearance. An advanced circuit features an exclusive, fast-acting automatic gain control with an extremely flat characteristic, that eliminates most external disturbances in line voltages. 12 snap-in, replaceable channel, turret tuner is included. Four IF stages, a separate sound channel and four individually tuned RF circuits for each channel provide excellent sensitivity in fringe and weak signal

areas. An automatic frequency control of horizontal synchronizing assures sharp images and freedom from picture "tearing." Two video amplifiers give full 4 MC bandwidth with negligible phase distortion. No audio amplifier is included, but cathode follower audio output (500 ohms) permits connection to any audio amplifier and preserves full benefits of FM sound with response of 20-20,000 cps. at less than 1% distortion. Input impedance 300 ohms; separate matched input transformer for each channel. Supplied with 22 tubes plus three selenium rectifiers, shatterproof glass escutcheon, flexible tube mount and poly-ethylene hi-voltage insulator, and all necessary hardware. Chassis dimensions: 16 x 16 x 15" high; (with picture tube mounted: 16 x 22 x 20"). Shpg. Wt. less tube: 70 lbs.

31N24445—Less Picture Tube.....**230.00**



## DOLLAR SAVING 10" TV CHASSIS

Lafayette brings you another value-packed TV receiver for custom installation. A full 65-square inch picture combined with outstanding TV reception, priced well below the market. This chassis incorporates all the fine features you want for maximum performance on all channels. It brings to life the whole world of sports, drama, news and entertainment with remarkable realism and delivers these fascinating pictures right into your home for the entire family to enjoy. A specially designed high voltage power supply makes possible far greater contrast and brilliance. Also featured is an automatic frequency control system that keeps the picture steady and minimizes station-to-station tuning. Dimensions: 13"H. x 18½"W. x 20"D. Shpg. Wt. 75 lbs. With tubes and speaker.

IN135—With 10" Picture Tube.....**149.00**



# Television for 1950

Thousands of satisfied customers have purchased Lafayette television by mail since the first station went on the air. If you are within the reach of TV stations, you want a receiver that can give you full enjoyment of all the wonderful programs now available. Our engineers are ready to advise you on how to obtain good reception in your area. Let us know exactly where you live and whether your home is on a hill or in a valley. We'll be able to be specific with practical suggestions. There is no obligation for this service. Remember though, Lafayette won't sell you a TV set unless they are sure you will get good reception!

TV Accessories on Page 111

## Custom Deluxe 16" TABLE MODEL



## Custom Deluxe

## 16" CONSOLE

Beautiful, deluxe model cabinets of striking design; sturdy veneer construction, firmly reinforced throughout. Graceful console has hinged, drop-leaf panel to conceal the controls when not in use. Table model dimensions: 24"W.x23½"D.x23¾"H. Shpg. Wt. 110 lbs. Console dimensions: 41"H.x26"W.x24" deep. Shpg. Wt. 200 lbs.

Now, you can have giant-screen television in a choice of cabinets to meet your living room space requirements. A full 145-square inches of picture area filled with thrilling sports events, drama programs, news, comedy shows and other fascinating presentations for the entire family. Here is the famous RCA 630-TS precision-engineered circuit, especially designed for the 16" picture tube, and recognized as "tops" in the TV field. You get the best developed circuit plus components that are built for lasting service. This means sharp, clear, steady pictures of unusual brilliance on all channels . . . during daylight as well as night time viewing. There's no need to crowd around the set to see with comfort because this is a huge 16" picture visible from any corner of the room. The powerful 30-tube chassis (5 rectifiers) includes the RCA front end and a voltage doubler, and features the famous "Synchro-Lock" which holds the picture steady at all times.

Tuning is simple with the four easy-to-manipulate controls providing pin-point focusing and fast station selection. The picture is accurately and automatically synchronized with the latest type FM audio circuit. Both music and speech are reproduced with brilliant clarity and resonance. A top quality 10" speaker is supplied with the console receiver. The four-stage picture IF amplifier and two-stage video amplifier provide exceptionally high sensitivity with plenty of reserve power for weak signals and fringe area reception. Maximum video response and sharper contrast provided with 4 megacycle bandwidth.

- |  |               |
|--|---------------|
| IN146—Mahogany Console with Picture Tube .....     | <b>339.00</b> |
| IN147—As above except Blonde Maple Finish .....    | <b>349.00</b> |
| IN144—Mahogany Table Model with Picture Tube ..... | <b>329.00</b> |
| IN145—As above except Blonde Maple Finish .....    | <b>334.00</b> |

## BIG, BRILLIANT 12½" PICTURE POWERFUL 30-TUBE RECEPTION

Here's high quality, big-screen television at a real budget price! The dependable RCA 630TS circuit combined with an exquisitely finished deluxe cabinet of the finest woods, will add to the pleasure and beauty of your home. With this set, you can relax anywhere in the room and enjoy exciting sports events, thrilling drama programs, on-the-spot news broadcasts, movies, talent shows, comedians and musical presentations. Its 95-square inch picture is big and bright enough to permit comfortable viewing by the entire family and friends. This is tested and perfected television, engineered for the finest performance and sold direct to you for the best in dollar value. Clear, bright, steady pictures on all channels are assured with the high powered two-stage video amplifier, four-stage picture IF amplifier, RF amplifier and "synchro-lock" feature. The excellent FM sound system reproduces music and speech with brilliant clarity. Smartly-styled, beautiful veneer cabinet is simply designed to harmonize with the finest interior decoration. Dimensions: 18¼" high x 25" wide x 20¼" deep. Shpg. Wt. 110 lbs.

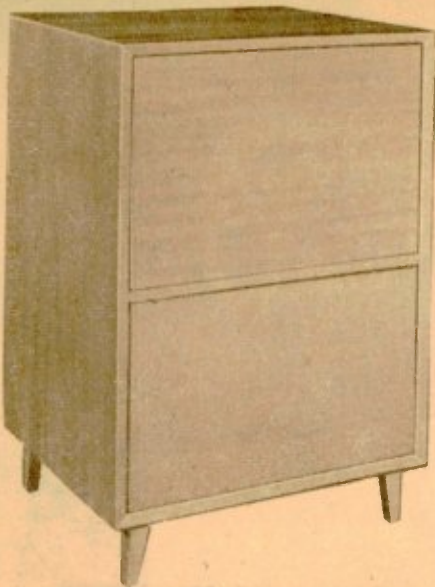
- |  |               |
|--|---------------|
| IN142—With 12½" Picture Tube—Mahogany Finish | <b>269.50</b> |
| IN143—As above except in Blonde Maple Finish | <b>279.50</b> |





# Modernize WITH

Lafayette is proud to offer these distinctively styled cabinets of select woods to complete your custom television installation. Handsome table models...and distinguished consoles in a choice of finishes to blend with your interior decoration. All cabinets are designed to fit the TV kits and chassis shown on pages 8 and 127.



**MODERN CONSOLE TV CABINETS**  
for 10" or 12" Tubes

Constructed of fine quality plywood with selected outside veneer, hand-rubbed to rich furniture finish. Removable legs are set at an angle, giving the cabinet a distinctive appearance. Front panels removable; chassis shelves are cut out to accommodate Hallicrafters or RCA type chassis. Dimensions: 39-9/16" H., 24 1/4" W., 21" D. Shipping Wt: 95 pounds.

40N24343—Mahogany..... **49.50**  
40N24342—Blonde..... 49.50

For 15" or 16" Tubes

Dimensions: 42 1/4" H., 25 1/4" W., 25" D. Wt: 101 pounds.

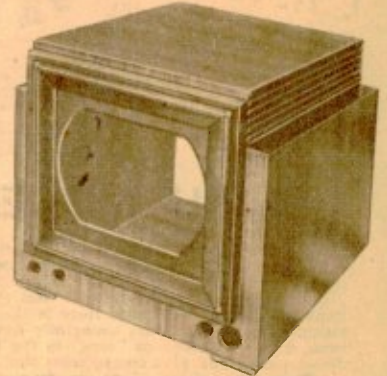
40N24341—Mahogany..... **60.00**  
40N24340—Blonde..... 60.00



**16" TV PERIOD CONSOLE**

Gracefully styled to blend with the conventional living room. Truly an impressive piece of furniture, solidly built of selected mahogany veneer woods, hand polished to a smooth satin finish. Attractive grille cloth covers the speaker baffle which accommodates speakers up to 12" in diameter. The receiver controls are cleverly concealed by a hinged panel that closes flush with the cabinet when the set is not in use. Dimensions: 41" H., 26" W., 24" D. Shipping Weight: 110 lbs.

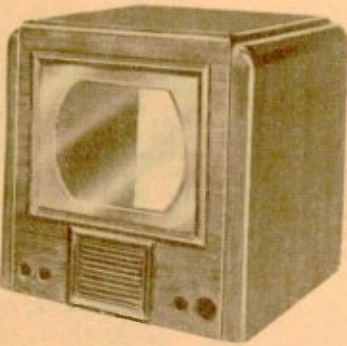
3N108—Mahogany Finish. **78.50**  
3N109—Blonde Finish..... 88.50



**FOR 15" OR 16" TUBES**

This beautiful table model cabinet is solidly constructed of fine woods, hand-rubbed to an exquisite satin finish. Here is distinguished design in a deluxe model you'll be proud to own! Thoroughly reinforced throughout. Built-in, crystal clear lucite mask is attractively framed in matching paneling. Dimensions of 15" size: 24" W., 23 1/4" D., 23 1/2" H. Shpg. Wt: 50 lbs. 16" size same dimensions except 1/2" higher.

40N24347—15" Mahogany. **72.50**  
40N24330—15" Blonde..... 77.50  
40N24346—16" Mahogany..... 72.50  
40N24329—16" Blonde..... 77.50



**FOR 15" OR 16" TUBES**

Fine mahogany veneer cabinets especially designed for the Tech-Master chassis shown on page 127. Neat, attractive modern style blends with any surroundings. Completely drilled for all controls; has built-in safety glass over tube opening. Dimensions: 26 1/4" W., 25" H., 23 1/2" D. Shipping Weight: 68 pounds.

40N24344—Universal 15"—16". **54.50**



**FOR 12" TABLE MODEL CHASSIS**

A distinctive table model cabinet, created for the average living room. Smart-looking, seasoned mahogany veneer woods are superbly finished to blend with the finest furniture. The modern step design creates an unusually striking effect that is rich and impressive. The cabinet fits the RCA type 630 television chassis exactly; no cutting or trimming is necessary. Outside dimensions: 18 1/4" H., 25" W., 20 1/4" D. Shpg. Wt: 45 lbs.

40N24348—Mahogany Finish. **47.50**  
40N24931—Blonde Finish..... 52.50



**FOR 10" TABLE MODEL CHASSIS**

Here's a handsome styled cabinet of fine walnut veneer, beautifully finished and polished. You'll be pleased with this solidly constructed model, drilled to fit the RCA 630 Type television receivers exactly. The picture tube is framed by a built-in lucite mask that gives protection to the tube and adds a professional touch to the overall appearance of the cabinet. Will fit all 10 inch kits and chassis shown on page 127. Dimensions: 14 1/4" H., 24 1/4" W., 21 1/4" D.

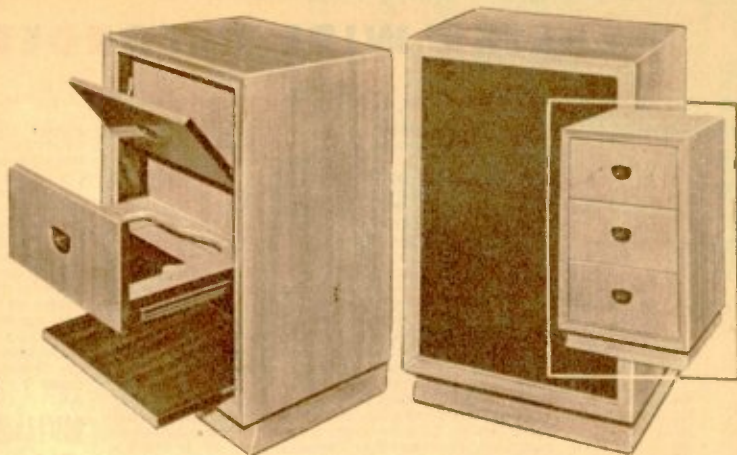
40N24349—Shipping Weight: 25 lbs..... **35.00**

These table model cabinets, except No. 40N24344, can be supplied with blank panels (except for picture tube cutout) when specified.



# Lafayette

Lafayette leads again with outstanding cabinet values for the finest homes. See these exquisite, custom designed console units for deluxe radio-phonograph and television installations. Here is flawless cabinetry with the charm of fine furniture... functional beauty that is simple and in good taste.



## MODERN RADIO-PHONO & SPEAKER CABINETS

Magnificent combination cabinets, constructed of the highest quality seasoned woods, perfectly matched and superbly designed for your custom installation of radio, phonograph and speaker. Three-section unit provided with tuner and amplifier compartments and slide record changer or drawer with Webster model 356, 3-speed changer cut-out (can supply blank, if desired). Removeable  $\frac{1}{4}$ " finished wood panels for top and bottom compartments have solid brass friction lid supports. Tuner and amplifier shelves are removable. Overall dimensions of equipment and speaker cabinets: 33 $\frac{1}{2}$ " H., 21 $\frac{1}{4}$ " W., 18 $\frac{1}{2}$ " D. Inside amplifier and tuner compartments: 20" W. x 9" H. Equipped with full length protective screen back. Mahogany finished cabinet has green lacquered finish on back of drop lids and drawer pull-outs. Lined oak cabinet supplied with wine color lacquer instead of green. Matching speaker cabinet is available in mahogany with attractive green-grille cloth or lined oak with harmonizing wine-grille cloth (cream or brown also available). Cabinets are acoustically constructed and tuned for 12" or 15" speakers. Cabinet for 15" speaker has inner lip at port to lower resonant frequency to match that of a 15" speaker cone. Has a removeable front panel; entire inside lined with insulating material.

- 40N24336—Mahogany Radio-Phono Console Cabinet..... **128.50**
  - 40N24335—Lined Oak Radio-Phono Console Cabinet..... 128.50
  - 40N24334—Mahogany Speaker Cabinet for 12" Speaker..... 79.50
  - 40N24333—Lined Oak Speaker Cabinet for 12" Speaker..... 79.50
  - 40N24327—Mahogany Speaker Cabinet for 15" Speaker..... 79.50
  - 40N24328—Lined Oak Speaker Cabinet for 15" Speaker..... 79.50
- COMBINATION PRICE: Radio-Phono and Speaker Cabinets..... 201.00**

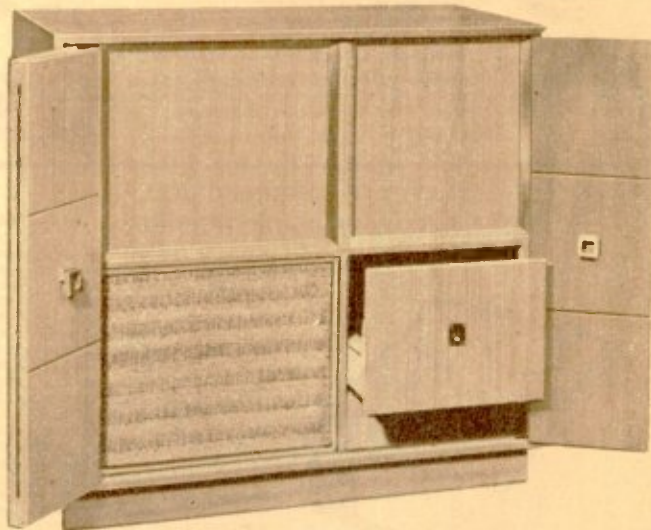
## Custom Designed CABINETS FOR RADIO and TV



### DELUXE PERIOD DESIGN CONSOLE

Here is an unusually fine credenza style console of classic simplicity. Solidly constructed of choice mahogany hardwood, hand-rubbed to a smooth satin finish that matches the elegance of truly exquisite furniture. Each section of the cleverly designed doors folds in two when opened, and swings back flush with cabinet sides, permitting easy access to controls. Record changer mechanism is housed in a smooth-sliding drawer. Attractive matching grille cloth covers the acoustically constructed speaker compartment. TV panel accommodates picture tubes up to 12 $\frac{1}{2}$ ". Dimensions: 44x40x43".

3N112—Shipping Weight: 250 lbs..... **349.50**



### TELEVISION TABLES

Solidly constructed swivel top TV tables. Rotate your receiver for most convenient viewing angle. Shpg. Wt: 26 pounds. 20 $\frac{1}{2}$ x20 $\frac{1}{2}$ x26" H.

40N24339... **14.25**

21 $\frac{1}{2}$ x26 $\frac{1}{2}$ x26" H.

40N24338..... 15.75

Plain table, no swivel. 20 $\frac{1}{2}$ x20 $\frac{1}{2}$ x26" H.

40N25723..... 12.75

21 $\frac{1}{2}$ x26 $\frac{1}{2}$ x26" H.

40N25726..... 14.25



### BLONDE MODERN TV & RADIO-PHONO CABINET

This striking console is an outstanding example of distinctive modern styling. Full length folding doors are piano hinged and give easy access to radio, phonograph and TV controls. Attractive brass handles. Ample space for record changer, radio and TV chassis and picture tube. The TV panel is supplied uncut. Size: 44x40x43". Wt. 150 lbs.

3N110—For up to 12 $\frac{1}{2}$ " Picture Tube..... **349.50**

3N111—For 15" Tube..... 304.00

### TV SET TURNTABLE

Place on TV table and put receiver on turntable. Permits rotation of TV set to best viewing angle. Alum.; 16x16"

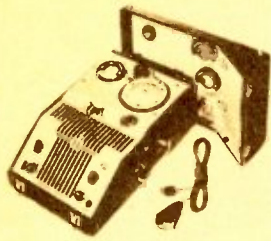
31N24337..... **2.55**





# WEBSTER WIRE RECORDERS & ACCESSORIES

## WEBSTER PORTABLE WIRE RECORDER

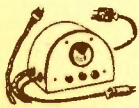


Model 180-1. Make instantaneous true-to-life wire recordings of your favorite radio programs, phonograph records, speeches, parties, meetings, and play them back immediately through the self-contained 6" speaker, or through an external amplifier or radio. Here's an inexpensive unit as easy to use as a radio. No technical knowledge required to operate. If desired, automatic erase device removes old recording while new one is being made. High impedance crystal microphone and 8-ft cord may be held in hand, suspended, or

set on table while recording. Other features include an elapsed time indicator, a removable take-up drum, automatic stops and lock-fast operating lever. Lightweight portable case finished in attractive burgundy leatherette. Dimensions: 17 3/8 x 11 3/8 x 7 1/4". Supplied with 3 spools of recording wire, tubes, microphone and cable.

- 35N22602—Shipping Weight 32 lbs..... **149.50**
- 35N16319—Input Cord to connect radio or phono.....2.50
- 35N16304—Output Cord for external speaker or amplifier..1.75
- 35N16322—TD422. Take-up drum for above recorder.....1.59

## CONTROL BOX AND RECORDING INDICATOR



Type 183. A desirable aid for the above recorder. Attaches easily and provides push-button control for recording direct from radio or microphone; playback can be made through recorder speaker or radio. Recording level meter assures correct volume. Shpg. Wt. 3 lbs.

- 35N16317..... **29.50**

## RECORDING WIRE SPOOL ALBUM

Contains 10 spool-size boxes in sturdy burgundy finished cardboard. Titles can be written on boxes.

- 35N16307—Shpg. Wt. 1 lb..... **1.22**

## NYLON THREAD LEADERS

For use in editing recorded wire or replacement of original wire leader. 600 feet, good for 100 spools using 3-ft leaders.

- 35N16327—Holds wire in place..... **1.11**

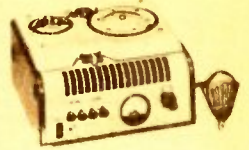
## SLIDE-DRAWER HARDWARE KIT

Provides neat and attractive installation of Model 178 in radio console. All hardware included. Also for record changers.

- 35N16328..... **95c**

## WIRE RECORDER MECHANISM

Model 178. Connect this complete recorder circuit and pre-amplifier to radio or amplifier for finest quality wire recording and playback. Mount in record compartment of console or place on table. Push-button controls and easy-to-read recording level meter simplifies operation and permits accurate setting of recording volume. Other outstanding features include automatic stops to prevent wire from running off spool, elapsed time indicator showing total time consumed for any section of a recording, lock-fast operating lever for secure settings at "Run", "Stop", or "Rewind" positions, and removable take-up drum. Metal case 11 x 11 3/8 x 5 5/8". For 105-125 Volts, 50/60 cycles AC.



- 35N22519—Shipping Weight 23 lbs..... **107.50**
- 35N16321—Extra take up drum.....1.59

## RECORDING WIRE AND ACCESSORIES

- 35N16300—15-Minute Spool..... **1.96**
- Lots of 10, Each.....1.27
- 35N16301—30-Minute Spool.....2.94
- Lots of 10, Each.....1.91
- 35N16302—60-Minute Spool.....4.90
- Lots of 10, Each.....3.18
- 35N16305—Empty Metal Spool......73
- Lots of 10, Each......47
- 35N16306—Empty Plastic Spool......39
- Lots of 10, Each......25

## MICROPHONE STAND

Type MS111. Streamlined, sturdy cast metal matching base that snaps onto mike quickly and easily. Designed for mike used with Model 180-1 recorder. Use it for any stationary placement of mike, recording long programs.

- 35N16323..... **1.11**



## RECORDING HEAD

For replacement of head now in use on any Webster recorder models. Gives better response and erase than heads on original models.

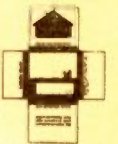
- 35N16324..... **4.78**



## MAILING BOX

Provides handy and easy method for mailing recording wire. Fast and low cost means of sending messages between office and field.

- 35N16326—Pkg. of 10..... **34c**



## LAFAYETTE COMBINATION

### WIRE RECORDER-RADIO-PHONO



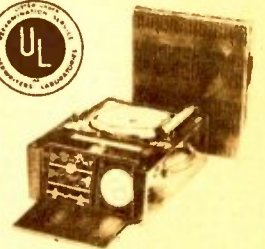
Here it is—all in one compact portable case! A wire recorder...a radio...and a phonograph priced low to make this item an outstanding value. One hour of continuous recording of family gatherings, business conferences, interviews, speeches, radio programs and disc recordings from the built-in radio and self-contained phonograph. Automatically erases old material as it records. Shuts off automatically at the end of the spool when recording and rewinding. Equipped with a neon volume indicator and variable tone control. Visual indicator

provides a means for calculating the amount of feet recorded. Latest type superhet radio covers the entire broadcast band. Heavy duty, single speed 78 RPM motor drives a heavily weighted turntable. Lightweight crystal pickup. The high quality amplifier and full size PM speaker delivers 5 watts undistorted and faithfully reproduces music and voice. Supplied complete with Electro-Voice microphone and cable, tubes and 2 spools of wire (15 and 30 minutes). Modern, portable case covered in beautiful two-tone brown alligator grained leatherette. Top cover can be detached easily while instrument is being used. Dimensions when closed: 14 1/2" wide x 19" deep x 9 1/2" high. Operates on 105-125 V. 50/60 cycles. **149.50**

- 35N22611—Shipping Weight 45 lbs..... **149.50**

## NEW MASCO 2-SPEED DISC RECORDER

Model RK5L. Complete self-contained 2-speed disc recorder and play-back with built-in amplifier and 6" Alnico speaker. Excellent for use in educational programs, for orchestras, vocalists, actors, language students and in the rumpled room. Features: Instant recording at standard 78 and 33 1/3-RPM; volume level indicator; adjustable crystal cutting head; 2 playback arms, one for standard 78 RPM & 33 1/3 transcription type & one for the new micro-groove LP records; heavy duty recording motor and table. Separate input jacks for direct recording from any microphone; direct recording electronically from a phonograph; direct recording from radio to record. Recording from a microphone or radio may be independent or simultaneous. Master gain and tone controls allow for any desired volume or tone setting. A three-way switch provides independent selection of recording, play-back and PA without interaction. Tubes: (2) 6SL7GT, 6V6GT, 6U5, 6X5GT, rectifier. Brown alligator fabricoid covered case, 16 x 19 1/4 x 8 1/4". 117-V. 60-cy. AC. **100.48**



## RECORDING WIRE

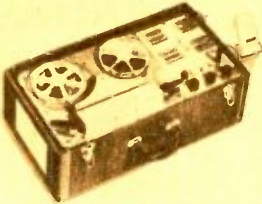
For use with all wire recorders. Tested, uniform quality assures good tone reproduction and long life.

- 35N16311—15 min. spool wire..... **1.17**
- 35N16312—30 min. spool wire.....1.76
- 35N16313—60 min. spool wire.....2.93
- Plastic Leader for units on this page.
- 35N16318.....Pair, .14



# TAPE AND DISC RECORDERS

## LAFAYETTE TAPE RECORDER



Record your favorite AM, or FM programs, recordings, special events, meetings, etc. Recordings can be edited, spliced with scotch tape, erased, used over and over, and stored for long periods without deterioration. Up to one hour of recording on a 1200 ft. reel of twin

track tape, 30 minutes in each direction. Frequency response 50 to 7000 cps.  $\pm 3$  db. 6-watt power output. Heavy duty 5" PM speaker. High frequency erase. Revolves at 78 RPM; space provided for mounting a phono arm to make a combination tape recorder and phonograph. Special switch cuts out speaker when recording with a mike. Neon volume level indicator. Positive capstan drive gives constant speed, eliminates wow, and may be used to mount a conventional turntable. Housed in a rich brown pebbled leatherette carrying case, with white trim. Complete with crystal microphone, one thirty minute reel of twin-track tape and an additional empty reel. For 105-125 volt, 60-cycle AC. Dimensions: 21 $\frac{1}{2}$  x 11 $\frac{1}{2}$  x 10". Shipping Weight 38 lbs.

35N22612.....**127.50**  
35N16320—1200 ft. Roll tape for above.....3.10

## MASCO COMBINATION TAPE RECORDER AND AM RADIO



Model R3. Combination magnetic tape recorder, radio and PA system. Records continuously for one hour. Frequency response from 100 to 7000 cps  $\pm 3$  db. 5 watts output. Recordings can be played back at least 5000 times without deterioration. Equipped with a permanent magnet type erase, 6 x 9" PM oval speaker. Capstan drive eliminates possibility of "wow" and "flutter". Heavy duty motor and bearings require no oiling. Microphone and radio-phonograph input channels. Three outputs: to internal speaker, external speaker jack and jack for monitoring. Volume and tone controls. Treble attenuator (continuously variable). Tubes used: 6SJ7, 6SC7, (2) 6V6GT, 6SA7, 6SF7, 5Y3GT rect. Two-piece portable case covered in brown alligator fabricoid, measures 19 $\frac{1}{2}$  x 16 $\frac{7}{8}$  x 10 $\frac{1}{2}$ " high. Complete with built-in AM superheterodyne radio tuner, Electro-Voice 915 crystal mike with 7 $\frac{1}{2}$  ft. of cable and plug and 1200 ft. reel of plastic recording tape. For 117 V., 60-cycle AC. operation. U.L. approved. Uses type A tape.

35N22615—Shipping Weight 47 lbs.....**142.76**  
Model 375. Same as above, less radio. Tubes used: 6SJ7, 6SC7, (2) 6V6GT, 5Y3GT rectifier.  
35N22616.....123.80

## MASCO TAPE HANDLING MECHANISM



Model M-60. Same basic mechanism used in models R-3 and 375 shown above. Heavy-duty mechanical construction. Powerful shock mounted motor requires no oiling. One function switch to play, erase, rewind, stop and fast forward. Two

heads, one erase and one record playback. Separate erase head control and position indicating light. Recording bias frequency 40 KC. Dimensions: 15 $\frac{1}{2}$  x 11 x 6".  
35N22617—Shipping Weight 17 lbs.....58.74

## MASCO PRE-AMPLIFIER



Model P-4. Designed for use with the M-60, Tape Handling Mechanism above. Three inputs for tape, microphone and radio-phonograph. Input sensitivity; .003 volts for microphone input and .4 volts for radio-phonograph. Output to PA 1.5 volts. Frequency response 100 to 7000 cps  $\pm 3$  db. Bias oscillator 40 KC. Neon recording level indicator.

Volume control; record playback switch; input selector switch and power On-Off switch. Tubes used: 6SN7GT, 6SC7, 6V6GT and 6X5GT rectifier. Gray hammettone finished chassis measures 12 x 6 $\frac{1}{2}$  x 2 $\frac{1}{2}$ ". For 117-volt, 60-cycle AC.  
35N22618—Shipping Weight 8 lbs.....**48.22**

## MEISSNER RECORDER-PHONO-RADIO AND AMPLIFIER SYSTEM



A high fidelity crystal cutting head assures faithful recording of program material and an excellent crystal microphone is furnished for natural, lifelike recording. Normal and overload indicators simplify control of input levels and permit anyone to cut perfect discs. Easy-to-follow directions are given in the instruction manual. Radio broadcasts recorded by simply switching radio to one of the recording channels. Separate volume controls for microphone and radio input channels

to the recorder allow programs to be mixed and blended with recording studio technique. Two turntable speeds, 78 and 33-1/3 RPM; up to 10-inch disc recording and 12-inch playback is provided with full control of tone and volume. Superheterodyne receiver designed for reception over the entire broadcast band with excellent sensitivity and selectivity. Amplifier serves as announcer or public address system. Provision made for connecting extra speaker where greater volume is required. Everything you need is furnished with Radio-Phono-Recorder. Built-in radio and amplifier are equipped with full set of seven tubes; crystal "hand or stand" microphone and its cable are in storage compartment ready for connection and immediate use. Complete unit, with cover, is only 19 $\frac{1}{2}$ " square by 9 $\frac{1}{2}$ " high. Sturdy wooden case, attractively covered in durable airplane style fabricoid. Storage compartment for records in removable lid. For 115-volt, 60-cycle AC. Shpg. Wt. 52 lbs. See page 50 for recording discs.  
35N22580.....**111.28**

## INDUCTION TELEPHONE PICK-UP



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

35N22523—Shpg. Wt. 3 lbs.....**5.88**  
35N22524—Induction Coil only.....4.70

## "SCOTCH" PLASTIC RECORDING TAPE

A new high quality magnetic recording tape. Offers better frequency response at slow speeds due to extremely thin magnetic coating. Low noise level because of uniform dispersion of particles and mirror like surface. Higher coercive force insures higher frequency response and greater signal strength. Flat surface and large area provide positive contact with the recording head which gives greater dynamic range. Non-magnetic tape backing between the layers of magnetic coating in the reel minimizes "cross talk". Easy to handle. No snarls, backlashes or kinks. Freedom from breakage. Tensile strength 6 lbs. Easily edited and spliced with scotch splicing tape. Erases clean with low power—no special erase head is required. Can be marked on back to indicate start and stop of different sound sequences in the same reel. Code A—magnetic coating wound facing in. Code B—magnetic coating wound facing out.

Stock No.	Size	Code	1 Reel	6/Ea.	36/Ea.
35N16410	1/4" x 1200'	A	5.50	4.95	4.40
35N16411	1/4" x 1200'	B	5.50	4.95	4.40
35N16412	1/4" x 600'	A	3.50	3.15	2.80
35N16413	1/4" x 600'	B	3.50	3.15	2.80
35N16414	1/4" x 150'	A	1.00	.90	.80
35N16415	1/4" x 150'	B	1.00	.90	.80

## TAPE RECORDING ACCESSORIES

"SCOTCH" SPLICING TAPE. 100" x 1/4". On metal utility dispenser.

35N16416.....Each.....**29c**  
Lots of 12.....Each......27

## "SCOTCH" EMPTY PLASTIC REELS

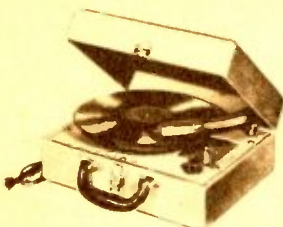
Stock No.	Size	Holds	Each	6/Ea.	36/Ea.
35N16417	7" dia.	1/4" x 1200'	.60	.54	.48
35N16418	5" dia.	1/4" x 600'	.50	.45	.40
35N16419	3" dia.	1/4" x 150'	.15	.14	.12

"SCOTCH" LEADER STOCK. For ease in editing breaks. Spaced with 3 $\frac{1}{2}$ " markings for accurate timing. 150 ft. x 1/4".  
35N16420—Lots/6 Ea. .45...Lots/36 Ea. .40...Ea. Singly .50



# RECORD PLAYING EQUIPMENT

## LAFAYETTE 78RPM LOW-COST RECORD PLAYER



Airplane-type luggage carrying case finished in durable leatherette. Bright contrasting metal fittings and heavy duty plastic handle. Large PM speaker and modern amplifier for full range tone quality. Pickup arm has crystal cartridge for replaceable or semi-permanent type needles. For 110V., 60-cycles. AC. Weight: 10 lbs.  
34N22672..... **16.95**

## PORTABLE RECORD PLAYER



78RPM Constant-speed, turntable and motor mounted in a modern sturdy portable carrying case, covered in durable, two-tone Brown and Tan simulated alligator leatherette. Built-in two tube amplifier. Crystal pickup, volume and tone controls. Plays up to 12" records with lid closed. Enclosed Alnico V speaker reproduces all tones with excellent fidelity. 14x7x12½". 110 V., 60 cy. AC. Weight: 13 lbs.  
34N22696..... **22.85**

## 78RPM WIRELESS AUTOMATIC RECORD CHANGER



Plays through any Broadcast radio set without direct connections by means of two-tone distortion-free oscillator built into base. Automatic record changer gives complete enjoyment of records without having to jump up to change them. Plays twelve 10-inch or ten 12-inch records at one loading. New "Crystal-Dynamic" velvet touch pickup brings out the

full richness of tone on your records. Self-starting, constant speed motor for smooth, even performance. Single button for all controls. Streamlined wood case, walnut finished to blend with any surroundings. Case measures: 13½x13½x8". For 105-115 volt, 60 cycle AC only.  
34N22662—Shipping Weight: 16 lbs..... **29.50**

## 78RPM WIRELESS RECORD PLAYER

Merely plug in and play through your present radio set. No wiring or special installation necessary. Has built-in oscillator tuned to broadcast frequency. Brings out the richness and fullness of tone in the finest recordings. Plays all sizes of recordings from smallest to 12-inch. Equipped with "Crystal-Dynamic" pickup for extra quality. Self-starting, constant speed motor. Cabinet is of modern tear-drop design, made of shimmering, jewel-like polystyrene. Case measures 12½" long x 8½" wide x 3½" high. Operates on 105-115 volts, 60 cycles AC only.  
34N22663—Shipping Weight 5½ lbs..... **15.75**



## LAFAYETTE 45 RPM AUTOMATIC PHONO



Here's an excellently designed automatic portable phonograph that plays the new 7" 45 RPM records with plenty of power and rich tone quality. A stack of ten 7" records at one loading provides 50 minutes of uninterrupted music—or a full hour and 40 minutes with one change. The simple "drop" mechanism built into the spindle eliminates posts and clamps to hold the records. Fast...quiet...smooth change cycle takes only a few seconds. Last record respects. Equipped with tone and volume controls and full range PM speaker. The handsome case is attractively covered in two-tone brown and tan. Measures: 12½x8½x8½". For 110-volt, 60-cycle AC operation. Shpg. Wt: 14 lbs.  
34N22700..... **36.25**

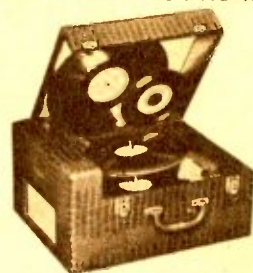
## 3-SPEED AMPLIFIED PORTABLE PHONO

Play any size record up to 12" with this new, extremely compact portable. A simple slide switch instantly regulates the speed of the motor for 33 1/3, 45 or 78 RPM. Precision-built motor runs at even speed on all 3 positions. All wood case houses a full-size Alnico V speaker and carefully designed 3-tube amplifier that gives excellent tone reproduction of voice and music. Equipped with tone, volume control and switch. Single tone arm with reversible cartridge equipped with two needles. Case is attractively covered in two-tone leatherette and measures 13 x 10½ x 5 7/8". Ornamental hardware lends a contrasting note of smartness.  
34N22701—Shipping Weight 12 lbs..... **26.95**



## 3-SPEED PORTABLE AUTOMATIC PHONO

A deluxe model phonograph that plays 33 1/3, 45 and 78 RPM records automatically. Powerful 3-tube amplifier and high quality 5" speaker give amazing tone quality. Oversize case permits playing of 12" records with the lid closed to minimize needle chatter and surface noises. Switch to any speed with convenient regulator on the motorboard. Has tone and volume control. Featherweight pickup features a dual reversible cartridge—each with its own long-life needle; provides instant change-over to play standard or slow speed records. Quiet, smooth-operating changer and motor. Rugged case covered in durable leatherette with contrasting bead.  
34N22702—Shipping Weight 23 lbs..... **48.50**



## 3-SPEED TRANSCRIPTION PLAYER

Ideal for professional use, schools, sales meetings or home. 3-speed—78, 45 and 33-1/3 RPM—plays all size records, including 16" transcription type. Powerful 4-tube, push-pull amplifier delivers full 4 watts output. Excellent quality 8" Alnico V PM speaker mounted in detachable top. Has microphone jack. Deluxe portable case measures 17 x 13 x 8½".  
34N22703—Shipping Weight 17 lbs..... **42.50**



## 45 RPM AMPLIFIED RECORD PLAYER



This compact, open case phonograph is specifically designed for the new 45 RPM 7" records. A complete, powerful phono with built-in amplifier and speaker that gives you all the advantages of these slow-speed records: Brilliant tone, negligible needle scratch and unbreakable vinylite. Each record plays 5-1/3 minutes, or the equivalent of a standard 12" record. New lightweight crystal pickup equipped with long life needle. Sturdy wood case covered in brown leatherette. For 110V., 60 cycles AC. Shipping Weight: 9 lbs.  
34N22697..... **17.95**

## 45 RPM RECORD PLAYER ATTACHMENT

Similar to above except has no amplifier. An easy, single connection converts your present equipment to play the new 45 RPM records.  
34N22698—Shipping Weight: 5 lbs..... **12.15**

## 45 RPM WIRELESS RECORD PLAYER

Includes distortion-free oscillator for playing through standard broadcast radio. No wiring necessary. Same case and pickup as above.  
34N22699—Shipping Weight: 7 lbs. .... **15.95**



# LAFAYETTE HIGH FIDELITY COMPONENTS

## SELECTING THE COMPONENTS

All Lafayette High Fidelity Centers (addresses on page 1) feature the newly developed "Selector Rack" which enables you to select your components "by ear." Here's how it works: all the famous components are wired for selection on a master control panel. You point out any possible combination to the Lafayette engineer. (There are thousands of variations.) Then you sit back and hear how your selection of a high fidelity system actually sounds. You can't go wrong in your choice because you make your own on-the-spot comparisons!

## ASSEMBLING THE SYSTEM

Lafayette engineers will do all the necessary wiring and soldering to adapt your components. In many systems this is included without charge. No further electrical work is required. Aside from installing the components in the housing you select, it is only necessary to plug the components together.

TWO TYPICAL LAFAYETTE CUSTOM RADIO ASSEMBLIES

## WHAT IS HIGH FIDELITY?

High Fidelity is reproduction of the studio or concert-hall program in your own home with such brilliance and clarity that vocalists and instruments—whatever their range of pitch—preserve their individual identities. This achieves the rare quality known as "room presence:" the artists and their instruments are in the same room with you!

## IS IT EXPENSIVE?

Definitely not. You can spend as little as \$150 on a custom assembly and get performance better than ready-made sets costing up to \$500. Your entire investment goes into functional audio-equipment rather than the "trimmings." You can install the components into a piece of existing furniture. A little ingenuity saves you hundreds of dollars. Note, too, that it isn't necessary to buy all the components at once. You can add one section at a time—as rapidly as you feel you can afford it. A television unit can be incorporated inexpensively, at any time, as part of your high fidelity system. By using your high quality sound system for television, you will be in a position to enjoy superb audio reception along with your video.

## THE COMPONENTS



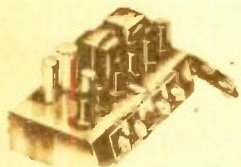
RECORD CHANGER



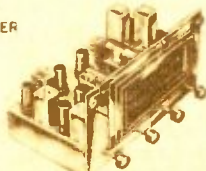
NOISE SUPPRESSOR  
(optional)



LOUD SPEAKER



AUDIO AMPLIFIER



THE TUNER

*Components  
can be plugged  
together...  
easy as pie*



## CABINET INSTALLATION

For your convenience, Lafayette maintains a service for installing high fidelity components into your existing furniture at a moderate cost. Bring in or send your cabinet to us. We'll do the rest. If you prefer new custom furniture we can show you a complete line of modern and period cabinets. Our service is unique in that it combines expert woodworking craftsmanship with professional audio engineering.

## HOW TO ORDER BY MAIL

Thousands of music lovers who live too far from a Lafayette High Fidelity Center to shop in person have ordered by mail the high fidelity systems or separate units shown in this book with complete assurance and satisfaction. The personal advice and service of our engineers is as close to you as your mail box.

*When you write please be as complete as possible. Tell us:*

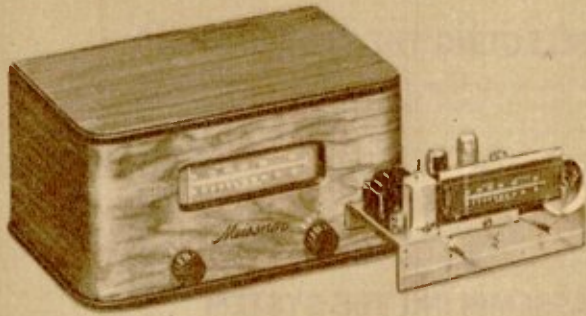
1. Which components are you interested in—AM, FM, Television, Record Player; Tape, Wire or Disc Recorder.
2. Which components you now own that you feel can be utilized.
3. What your system is going to be placed in (rough sketch, but complete inside and outside dimensions of the furniture to be used).
  - A. In an existing piece of furniture?
  - B. In a storage wall?
  - C. In a new cabinet?
4. How much would you like to spend.

Write to the High-Fidelity Division of the Lafayette Mail Order Center in New York or Chicago (whichever is nearer). Remember there is no charge or obligation for using this service.

★ Install in your present furniture ★ Install in custom cabinetry

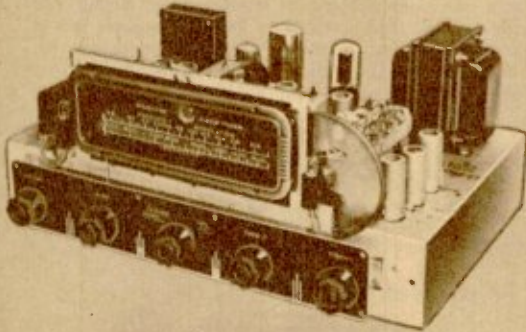


# MEISSNER & RADIO CRAFTSMEN TUNERS



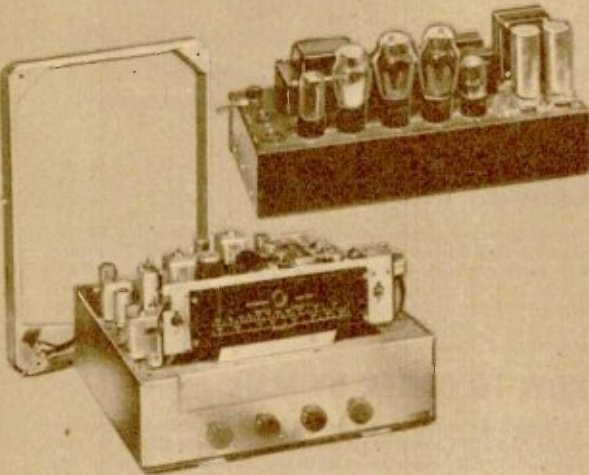
## MEISSNER MODEL 8C FM TUNER

Add static-free reception to any AM receiver, instantly converting it for thrilling FM-AM use. Provides the ultimate in listening pleasure without outside disturbances. Can be used with any high quality power amplifier having a high impedance input. Standard 300-ohm antenna input. Sensitivity 40 microvolts. Output flat within 2 db from 50 to 15,000 cps. Large  $5\frac{1}{2}$ " slide rule dial calibrated in MC and channel numbers for easier tuning. Unit is also equipped with a tuning control and a combination volume control and power switch. Built-in power supply for 105-125 volts, 50/60 cycles AC only. Attractively styled walnut cabinet measures  $12\frac{1}{2} \times 6\frac{1}{2} \times 8$ ". Supplied complete with seven tubes and rectifier. Shipping Weight 13 lbs.  
 30N22496—List Price \$57.50.....Net **38.33**  
 Same as above, except less cabinet; Shpg. Wt. 10 lbs.  
 30N22480—With Tubes.....List Price \$51.50.....Net **34.33**



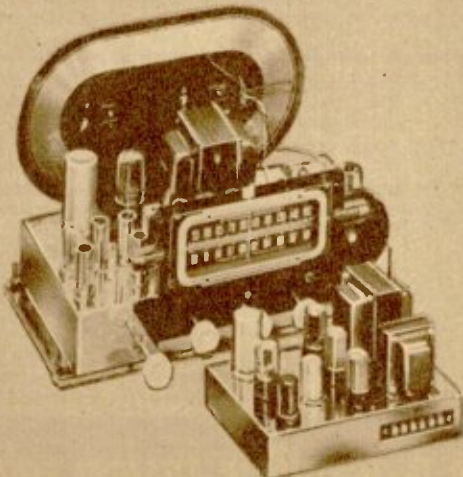
## MEISSNER AM-FM TUNER

Model 9-1091-C. Here is a top quality unit for use wherever the very highest fidelity reception is desired. Covers the AM broadcast band from 527-1620 KC and the FM band from 88-108 MC. Response: 30 to 15,000 cps.  $\pm 2$  db. Separate bass and treble controls. Input jack provided for crystal or high level magnetic type phonograph pickup. Sensitivity: 10 microvolts. Selectivity for AM-signals may be "Broad" or "Sharp." Output 11 volts at high impedance terminals and 2 volts at balanced 500-ohm terminals. Hum level 60 db below full output. Phonograph input terminals are provided for record player use. FM antenna connections for 300-ohm transmission line. FM antenna and transmission line act as efficient AM antenna. Tubes: AM section: 6BA6 RF amplifier, 6BE6 converter, (2) 6BA6 IF amplifiers, 6AL5 detector; FM section: 6BA6 RF amplifier, 6C4 oscillator, 6BE6 1st detector or mixer, (3) 6AG5 IF amplifiers, (2) 6AU6 limiters, 6AL5 detector, (2) 6J5 audio amplifiers, 6U5/6G5 tuning indicator and 5Y3GT rectifier. Chassis size:  $16\frac{1}{2} \times 10\frac{1}{4}$ ". Overall height 9". Needs  $1\frac{1}{4}$ " between chassis and panel. Slide rule dial for  $2 \times 7\frac{1}{2}$ " opening. With tubes and dial escutcheon plate. For 105-125 V., 50/60 cycles AC. Shpg. Wt. 19 lbs.  
 30N22499—List Price \$245.00.....Net **147.00**



## MEISSNER AM-FM TUNER & AMPLIFIER

Model 9-1093. Undoubtedly one of the finest high quality AM-FM tuners and amplifiers on the market today. Frequency range 535-1620 KC on the AM band and 88-108 MC on the FM band. Audio fidelity is flat from 50 to 15,000 cps  $\pm 2$  db. Hum level 65 db below full output. Designed for use with either crystal or magnetic pickup; has built-in pre-amp for GE reluctance and magnetic pickups (requires 6SC7 tube not supplied). Sensitivity is less than 20 microvolts. Tuner has a two-position AM selectivity control for distant or local reception. Phono input jack controlled by panel switch. A combination tone control provides bass boost up to 11 db at 40 cps, and treble attenuation up to 13 db at 10,000 cps. Output designed for 8 to 16-ohm speaker. Two indoor antennas are supplied: One indoor folded dipole, 300-ohm, for FM, and one  $12 \times 16$ " noise reducing loop for AM. Provision is made for connecting external AM and FM antennas. Tubes: (3) 6SK7, 6SA7, 6H6, (5) 6AG5, 6C4, (2) 9001, 6AL5, (2) 6J5, 6SN7GT, (2) 6L6, 5Y3G and 5V4G rectifiers and 6U5/6G5 tuning indicator. Chassis mounting space: Tuner:  $14\frac{1}{2} \times 12\frac{1}{2} \times 8\frac{3}{4}$ "; Amplifier:  $7\frac{1}{2} \times 16\frac{1}{4} \times 7$ ". For 105-125 volts, 50/60 cycles AC. Complete with tubes, two antennas and hardware. Shpg. Wt. 50 lbs.  
 30N22478—List Price \$310.00.....Net **186.00**



## Radio Craftsmen Hi-Fidelity FM-AM Tuner

Model RC8. Designed with such big set features as automatic frequency control to eliminate FM receiver drift, electronic correction to "lock in" receiver to FM signal and tuned RF stage on FM and AM. Frequency ranges: FM, 88-108 MC; AM, 540-1600 KC. Has two AC outlets for supplying power to amplifier and phono motor. Rear socket for 6.3 V. AC and filtered 100 V. DC for pre-amps such as GE. The following controls are included: Bass, ON-OFF Volume, AM-FM Phono-TV, Tuning and Treble. Slide rule, edge-lighted dial for fast, easy tuning. Uses nine fully shielded miniature tubes plus rectifier. Has loop antenna for indoor AM, high impedance antenna coil for connection to outdoor AM antenna, and a flexible dipole for FM reception. Attractive chrome plated chassis measures  $9 \times 14 \times 10$ " overall. For 105-125 V., 60 cycles AC only. Shpg. Wt. 19 lbs.  
 30N22487—List Price \$183.30.....Net **110.00**

## Radio Craftsmen Hi-Fidelity Amplifier

Model RC2. Companion unit to tuner above. Output over 12 watts at 1% distortion. 4, 6, 8, 15 and 500-ohm output taps for one or more speakers, transmission lines, recorder. Overall gain 70 db. Hum level 70 db below rated output. Frequency response within 1 db from 20 to 20,000 cycles at 8 watts output. High impedance input. Includes four tubes and rectifier. For 105-125-volt, 60-cycle AC. Chrome plated. Size:  $7 \times 10 \times 6$ ". Shpg. Wt. 12 lbs.  
 30N22488—List Price \$65.00.....Net **39.00**



# LAFAYETTE, ESPEY & BROWNING TUNERS

## LAFAYETTE AM TUNER

A budget priced AM tuner for high fidelity coverage of the entire broadcast band from 535 to 1720 KC. Particularly designed for public address and Hi-Fi custom installations. Has phono-radio changeover switch. Sensitivity 30 microvolts; high impedance output. Features include a large, easy-to-read slide rule dial and automatic volume control. Low hum level. Uses the following tubes: 6BE6, 6BA6, 6AT6, 6X4 rectifier. For 115 or 220 volts AC only. Dimensions: 10½x6½x6". Shipping Weight 10 lbs.  
**30N22482—With Tubes. . . . . List price \$54.35. . . . . Net 31.95**

## LAFAYETTE FM-AM CHASSIS with Automatic Frequency Control

Build your own new FM-AM radio, or modernize an old radio console with this fine quality chassis. Covers the entire standard broadcast band and the 88-108 MC FM band. Features automatic frequency control on FM for tuning stability, a full range tone control and automatic volume control. Chassis is wired for phonograph operation. Push-pull beam power output provided with 11 latest model tubes plus rectifier. Output matches 3.2 ohm voice coil. Indirectly illuminated slide rule dial simplifies accurate tuning. Two indoor antennas are supplied: one loop for AM and a folded dipole for FM. Loop Antenna measures 8½x13½x1¼". Chassis dimensions: 13x9x9½". For operation on 105-125 volts, 60 cycles AC only. Supplied complete with tubes, dial escutcheon and two antennas. Shipping Weight 25 lbs.  
**1N1206—List Price \$120.85. . . . . Net 72.50**

## ESPEY FM-AM TUNER & AMPLIFIER

A deluxe high fidelity combination unit, matched and precision built for the discriminating listener who wants to build his own FM-AM console. The tuner has two frequency ranges: 88-108 MC for FM reception and 540-1620 KC for standard broadcast use, an improved automatic volume control, and full range bass and treble tone controls. Featured also are separate tuned RF stages on both FM and AM for extreme sensitivity and low noise level between stations. Power supply and audio amplifier are included in the amplifier chassis. Uses the following tubes: (2) 6BA6, (2) 6BE6, 6C4, 6SG7, 6SH7, 6J5, 6SQ7, 6AL5 and 6U5 tuning indicator.

**AMPLIFIER POWER SUPPLY CHASSIS** is especially designed to match the tuner described above. It uses (2) 6J5s in a balanced phase inverter, push-pull circuit driving (4) 6V6 triodes in a parallel push-pull output circuit. Includes (2) 5Y3GT/G rectifiers. High fidelity amplifier performance is assured through the use of an inverse feedback circuit. Tuner chassis dimensions: 13½x8½x9"; amplifier chassis dimensions: 13½x7½x8". Complete with escutcheon plate, dial, two antennas and tubes. For 105-125 V., 50/60 cycles AC. Shipping Weight 40 lbs.

**30N22477—List Price \$195.35. . . . . Net 114.86**

## BROWNING FM TUNER & POWER SUPPLY

**RV-10.** An excellent way to add high fidelity FM reception to existing radio and amplifier systems. Small size permits easy mounting in cabinet, shelves, bookcases and drawers. Sensitive Armstrong circuit covers 88-108 MC band. Features tuned RF stage, two-stage cascade limiter, high impedance output, Phono-FM switch and self-contained power supply. Attractive edge-lighted dial calibrated in megacycles and channel numbers. Tubes: (3) 6AU6, 7F8, (2) 6SJ7, 6H6, 6U5 tuning eye and 80 rectifier. For 115-volt, 60-cycle AC. Dimensions: 6½x11x8¾". Supplied complete with tubes, dial escutcheon, two audio shielded plugs and 8-ft. wire.  
**30N22495—Shipping Weight 14 lbs. . . . . 82.22**

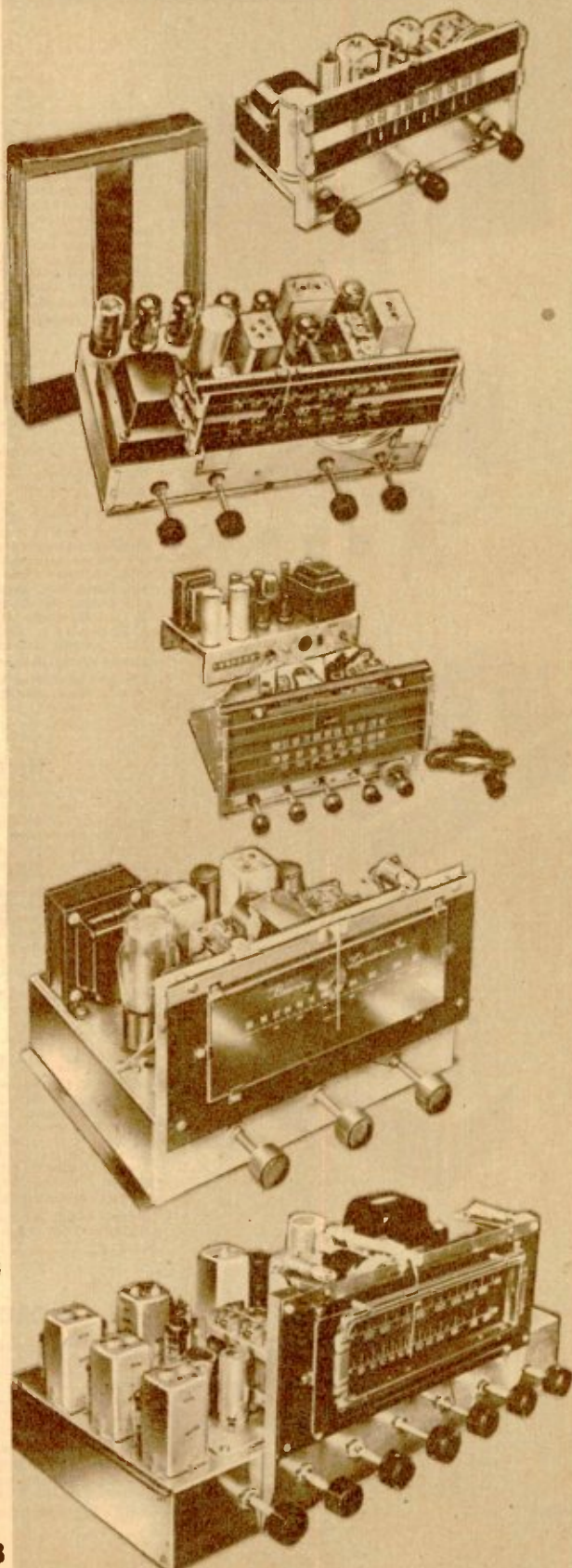
## BROWNING FM-AM TUNER

**Model RJ-12A.** Precision engineered for high fidelity reception on the 88-108 MC FM band and 530-1650 KC standard broadcast band. Famous Armstrong FM circuit features 2-stage cascade limiting, RF stage on both bands and high impedance output; drift compensated, FM audio response flat from 20 to 15,000 cps ±1¼ db. Separate RF and IF systems on both bands assures maximum performance and eliminates coil switching. FM antenna input 300 ohms. No separate antennas required; FM antenna also serves AM. Tubes: (3) 6AU6, 7F8, 6SK7, 6SG7, (2) 6SJ7, 6H6, 6SA7, 6U5 tuning eye and 1N34 crystal detector. Dimensions: 7½x13½x9". For 115 volts, 60-cycle AC. With tubes, dial escutcheon and plastic window. Appearance like RJ20 below.  
**30N22486—Shipping Weight 16 lbs. . . . . 113.78**

**Model PF12.** Power supply for above tuner. 6x3½x8".  
**30N22513—Shipping Weight 9 lbs. . . . . 18.78**

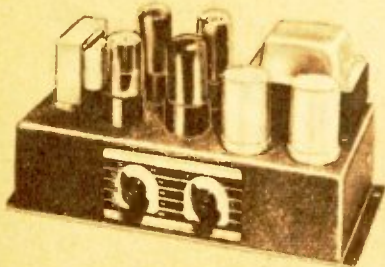
## BROWNING FM-AM TUNER AND POWER SUPPLY

**Model RJ-20.** For the discriminating listener who wants the ultimate in full range reproduction. Especially designed tuner and self-contained power supply for custom installations and high fidelity receiving applications in the broadcast and 88-108 MC FM bands. Response: 15 to 15,000 cps ±3 db. Separate RF and IF systems for AM and FM provide top performance and sensitivity. FM utilizes dual cascade limiting in a genuine Armstrong circuit. Uses two stages of audio amplification with treble and bass controls giving a 20 db boost in either tone range. Output impedance 20,000 ohms; 300 or 72-ohm input provided for FM antenna. Tubes: (5) 6AU6, 7F8, (2) 6AL5, 12AU7, 6SK7, 6SA7, 6SG7, 6AL7 tuning eye and 5Y3 rectifier. Dimensions: 7½x17x9". Dial escutcheon and plastic window included.  
**30N22481—With tubes. Shpg. Wt. 24 lbs. . . . . 155.43**





# HIGH FIDELITY AMPLIFIERS



## BOGEN PH-10 AMPLIFIER

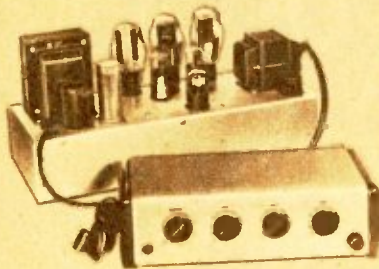
Low-Cost High Fidelity for the Home

This well-built 10-watt amplifier is recommended by authoritative sources for Hi-Fi radio and phonograph systems. Expensive auxiliary circuits and accessories have been omitted to provide a low-cost unit suitable for direct installation into many systems. Any radio tuner or crystal pickup may be connected directly to the input. The 4-position tone control provides laboratory-selected responses: deep bass, mellow bass, with broadened hi-frequency range; "flat" response, well up into the high range; and extended response for FM and other Hi-Fi inputs. Hum is down 80 db from rated output. Push-pull output with inverse feed back gives range of 40 to 15,000 cps within  $\pm 1$  db. Tubes are one 6SL7-GT, two 6V6, one 5Y3-GT (rectifier). Power input: 117 v., 60 cycles AC. Dimensions: 5"x11"x8".

2N155—Amplifier, complete with tubes. Shpg. Wt: 11 lbs. . . . .

2N156— Amplifier, with tubes & with controls at end of 4-ft extension cables. \*

\* WRITE FOR PRICES



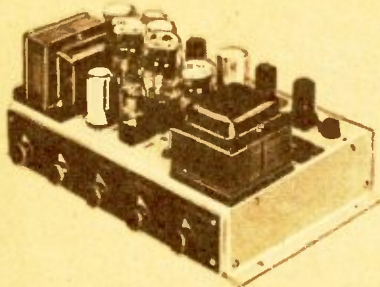
## BROOK MODEL 12A3 AMPLIFIER

All-Triode Circuit with a New Low in Distortion

"There is no manner in which the audio performance of the 12A3 could be improved by additional manufacturing expense" states the manufacturer of this fine unit. Here is a 10-watt, all low- $\mu$  triode amplifier with less than 1.25% total harmonic distortion at full rated output. Even for power peaks (of less than  $\frac{1}{2}$  second duration) rising well over 10 watt, the distortion does not increase because of the reaction-markable "transient peak circuit" included in the amplifier. The pre-amplifier and controls are in a separate unit connected by a 6-foot cable to the amplifier. A considerably longer cable can be used where required. Three inputs — two compensated for magnetic and variable reluctance pickups, and other provided for radio or crystal pickup — are furnished. Output impedances range from 1.5 to 24 ohms, plus 500 ohms from a separate winding. With treble and bass tone controls set for "flat" response, the frequency range is 20 to 20,000 cps within  $\pm \frac{1}{2}$  db. Hum level is 75 db below rated output. Tubes used: four 6SJ7 (triode-connected); one 6SH7, two 6J5, two 2A3, one 5U4-G (rectifier). Consumes 110 watts at 117 v., 50-60 cycles AC. Control unit is 12 $\frac{1}{2}$ "x6 $\frac{1}{2}$ "x3 $\frac{3}{4}$ " amplifier is 17"x6 $\frac{1}{2}$ "x1-1/8".

2N417—Amplifier and control units, including tubes. Shpg. Wt: 28 lbs...**169.50**

2N418—Amplifier Unit only (Fixed gain. Suitable where tuner has phono input, volume, and tone controls.) Shpg. Wt: 23 lbs. ....99.50



## H. H. SCOTT MODEL 210A AMPLIFIER

Hi-Fi Plus the Scott Dynamic Noise Suppressor

Designed by an organization producing mostly laboratory and broadcast equipment, the 20-watt Scott 210A sets a new standard of excellence for amplifiers of its class. Designed especially for use with the new variable reluctance pickups, a preamplifier stage operating entirely on d-c is included. Other features are: a special input for tuners and crystal pickups, a calibrated hi-frequency cut-off control, a "squelch" circuit to eliminate noise during record-changer cycling, and the 4-tube Scott Dynamic Noise Suppressor (described below). With treble and bass tone controls at midpoint and volume on full, the frequency response is down 3 db at 30 and 20,000 cps. Harmonic distortion is less than 2% and hum level is down 80 db at full rated output. Output impedance: 2-500 ohms. Tubes used: 12SL7-GT, 6SL7-GT, 6SQ7, 12SG7, 6SG7 (two), 6SN7-GT, 6L6-GA (two), 5V4-G (rectifier). Power input: 117 v., 60 cycles AC. Dimensions: 12 x 15 x 8 $\frac{1}{2}$ ".

2N419—Amplifier, with tubes. Shpg. Wt. 23 lbs.....**214.62**

## H. H. SCOTT DYNAMIC NOISE SUPPRESSOR

Model 111A. Newest version of the famous Dynamic Noise suppressor. Reduces annoying record scratch and motor "rumble" in any Hi-Fi system with this unit. Chassis mounts near other equipment; single control is at end of extension cable. Operating power for unit obtained through plug which fits octal-base output socket of amplifier. High impedance input and output circuits match most systems. Employs new mutual inductance gate circuit giving flat response 30 to 10,000 cycles. Useful range 20 to 14,000 cycles. Supplied complete with one 6SQ7 tube, two 6SG7 tubes, cables, and accessories. Dimensions: 7x3 $\frac{1}{2}$ x4 $\frac{1}{4}$ ".

2N427—Shipping Weight: 4 $\frac{1}{2}$  lbs.....**28.91**

Model 112A. Similar to above except has preamp for GE reluctance and similar cartridges. Flat response 30 to 17,000 cycles.

2N428.....46.55

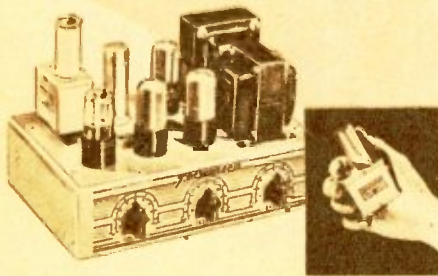
## THORDARSON MODEL T-32W10 AMPLIFIER

This 10-watt amplifier incorporates only those components necessary for a "flat" full-range frequency response from a radio tuner or crystal pickup. You pay for nothing more. For variable reluctance pickups or a high-impedance mike the T-32WOO pre-amplifier (listed below) plugs into a pre-wired socket. Volume, separate bass and treble tone controls. Output: 3-4, 6-8, 15-16 ohms. Hum level down 70 db. Tubes: 6SL7-GT, 6V6-GT (two), 5Y3-GT (rectifier). Power requirements: 115 volts, AC. Dimensions:

2N420 Amplifier, with tubes. Shpg. Wt. 11 lbs.....**32.34**

Thordarson T-32WOO Plug-In Pre-Amplifier, for use with T-32W10 Amplifier. Has correct gain and compensation for use with variable reluctance pickups. Also can be adjusted for "flat" response for use with hi-impedance mike.

2N421 Pre-Amplifier, with tube. Shpg. Wt. 2 lbs.....5.82





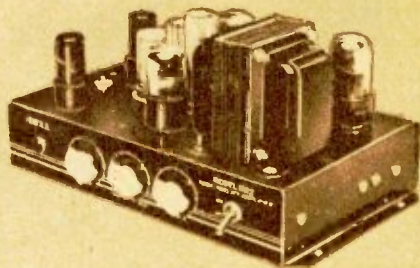
# HIGH FIDELITY AMPLIFIERS

## BELL MODEL 2122 AMPLIFIER

A Consumers Organization Recommendation

The quality of this excellent 10-watt amplifier is typified by the frequency response characteristic:  $\pm \frac{1}{2}$  db from 30 to 15,000 cycles (with tone controls set for "flat" response). Extremely flexible in application, the amplifier is well suited for almost any high-fidelity system. Four inputs are provided: (1) radio — 750,000 ohms input impedance, 76 db overall gain; (2) Crystal phono pickup — 1 megohm input impedance, 74 db gain; (3) magnetic (variable reluctance) pickup — 1 megohm input impedance, 92 db gain; (4) magnetic (variable reluctance) pickup — 22,000 ohms input impedance, 110 db gain. Output impedances are 3.4-4 ohms, 6-8 ohms, 15-18 ohms. Individual pre-amplifiers, each with its own equalization, assure proper response from the various types of magnetic pickups. Separate bass and treble tone controls are included. Bass variation runs from  $\pm 9$  to  $\pm 12$  db at 100 cycles; treble runs from  $\pm 18$  to  $\pm 9$  at 10,000 cycles. Peak power output is 15 watts; normal (at less than 3% distortion) is 10 watts. Hum level is down 65 db from rated output. Power consumption is 76 watts at 117 volts, 60 cycles a-c. A receptacle for radio or phonograph power is mounted on the rear apron of the chassis. Tubes used are: one 6SL7-GT, two 6SC7, two 6V6-GT, one 5Y3-GT (rectifier). Overall dimensions:  $7\frac{1}{2}'' \times 6'' \times 11\frac{1}{2}''$ . Weight: 8 $\frac{1}{2}$  lbs.

- 2N404—Amplifier, with tubes.....Shpg. Wt: 11 lbs. .... **40.87**  
 2N416—Amplifier, with tubes. Controls remotely connected through 4-foot shielded extension cable. ....Shpg. Wt: 12 lbs. .... **51.45**



## SCOTT LABS "MUSICALE" AMPLIFIER

Build or Improve Your High-Fidelity System  
 with this Lafayette "Best Buy"

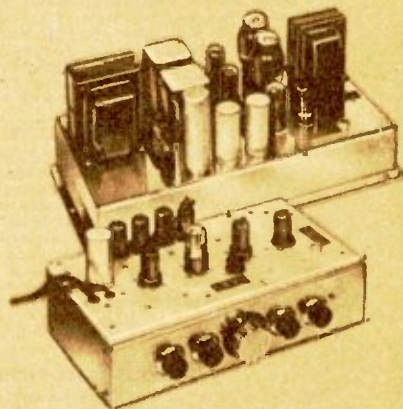
A superb amplifying system with a conservative rating of 20 watts, built by a manufacturer whose name is associated only with the highest quality electronic equipment. The Scott "Musicale" amplifier was designed for those music lovers who want the utmost in high-fidelity reproduction — with no limit on circuits, size, or cost. It was produced originally to be a part of one of the world-famous Scott radio-phonograph combinations, which sell for as much as \$1000. Lafayette made a fortunate purchase of a limited number of these amplifiers, which enables us to offer them at a price usually asked for amplifiers of less perfect response and lower power ratings.

This amplifying system consists of two chassis containing a total of 14 tubes, including 2 rectifiers. The Voltage Amplifier — Control Unit mounts a brushed satin aluminum panel, 15" x 3 $\frac{1}{4}$ ", with chrome-skirted control knobs. The Power Amplifier — Rectifier chassis is finished in the polished chrome that is typical of the craftsmanship of Scott equipment. Four feet of cable afford considerable leeway in the mounting of the two chassis.

The frequency characteristic is flat within  $\pm 1.25$  db from 40 to 20,000 cycles at 20 watts output; uniform from 100 to 16,000 cycles. One input is provided for a crystal phonograph pickup; another to the 1st amplifier stage which can be compensated for variable reluctance pickups. The famous Scott Dynamic Noise Suppressor circuits are incorporated as part of the Control Unit. Controls provided are: Volume, Bass Tone, Treble Tone, Music (Noise Suppressor) Control, and Phono-Mike (Low and High Gain Input). Output stage uses push-pull 6L6s; output impedance 8/16 ohms. Control Unit size: 9" x 15" x 7 $\frac{1}{4}$ "; Amplifier: 8 $\frac{1}{2}$ " x 18 $\frac{1}{2}$ " x 8". Power requirements: 110-125 volts, 60-cycles a-c.

**IMPORTANT** — Do not restrict the capabilities of this amplifying system with an inadequate speaker. Select (from pages 42-44) a coaxial speaker or a "woofer-tweeter" combination rated at not less than 20 watts and extending well into the high-frequency range.

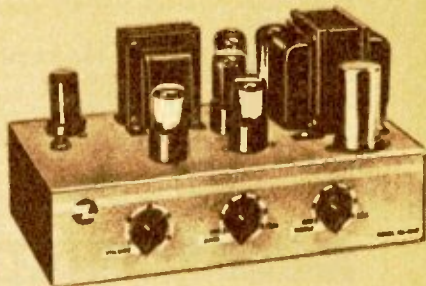
- 2N406—Amplifier, with tubes.....Shipping Weight: 50 lbs..... **169.50**



## MASCO MODEL 10-HF AMPLIFIER

This is a 10-watt, 4-input high-fidelity amplifier, with built-in compensation and sufficient gain for variable reluctance pickups. Two of the amplifier inputs are equalized for current types of variable reluctance pickups; the third is equalized for crystal pickups; and the fourth is unequalized, for radio input. Separate treble and bass tone controls are provided permitting up to 12.5 db boost or attenuation at 50 cycles and  $\pm 15$  to  $\pm 14$  db variation at 15,000 cycles. Frequency characteristic is  $\pm 1$  db from 40 to 20,000 cycles when the tone controls are set for "flat" response. Two hum-balancing adjustments bring the hum level down 70 db from rated output. Rated output is 10 watts (with less than 5% distortion); peak output is 14 watts. Output impedances available are 2-4-8-16 and 500 ohms. Power requirements: 74 watts at 117 volts, 60 cycles a-c. A power receptacle on the chassis permits plugging in a radio or phonograph. Chassis is finished in gray hammer-tone. Dimensions: 12" x 7" x 8 $\frac{1}{4}$ ". Tube complement: two 6SL7-GT, one 6SC7, two 6V6-GT, one 5Y3-GT (rectifier). Weight: 11 $\frac{1}{2}$  lbs.

- 2N422—Amplifier, with tubes.....Shipping Weight: 20 lbs. .... **40.50**  
 2N424—Three 6" extension shafts for controls..... 1.47



## MASCO MODEL 10-EX AMPLIFIER WITH VOLUME EXPANSION

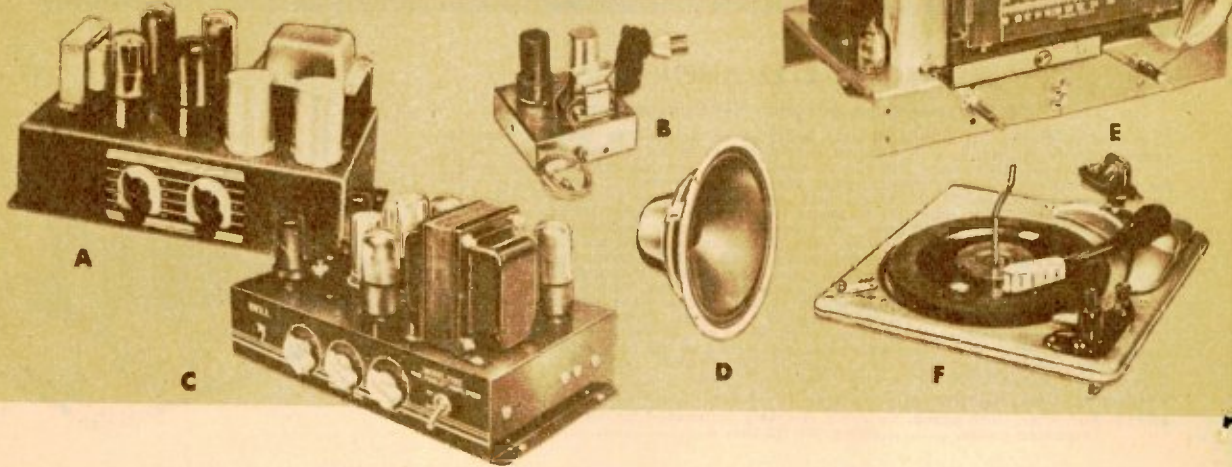
This is basically the same as the Model 10-HF amplifier described above, with volume expander circuits added to give up to 10 db expansion. A 4-position tone switch, giving selected response characteristics, replaces the separate tone controls of the 10-HF. Tube complement is three 6SL7-GT, one 6SC7, two 6V6-GT, one 5Y3-GT (rectifier). Weight: 12 lbs.

- 2N423—Amplifier, with tubes.....Shipping Weight: 20 lbs. .... **49.95**  
 2N425—Three 6" extension shafts for controls..... 1.47





# HIGH FIDELITY PACKAGES



## SELECT YOUR HI-FI COMBINATION FROM THESE FINE GROUPS

Now you can choose your own high fidelity radio-phonograph package from the precision-tested units listed below. For your complete listening pleasure, Lafayette offers a choice of two superb amplifiers (either the Bell Model 2122 or Bogen PH10), two top quality Webster record changers, the full range GE Model S1201D speaker and phonograph pre-amplifier and the popular Meissner 8C FM tuner. In addition to the customary manufacturer's tests given the individual units, Lafayette engineers will also

### BELL MODEL 2122 AMPLIFIER

Fig. C. Recommended by a famous research organization for a high fidelity custom installations. Frequency response 30-15,000 cycles  $\pm 3$ db. Inputs for radio, magnetic, reluctance or crystal cartridges. Individual bass and treble tone controls. Output impedances of 3.4 to 18 ohms to match any high fidelity speaker. Has low hum level. This amplifier is ideal for microgroove record applications using the new type magnetic pickups. Output is 10 watts with a peak of 15. Dimensions:  $7\frac{1}{2}'' \times 6'' \times 11\frac{1}{2}''$ . Shipping Weight 15 lbs. Supplied complete with tubes. (See pages 18 and 19 for additional amplifier specifications.)

2122R—Same as above plus 4-ft. extension controls for remote control use.

### BOGEN MODEL PH10 AMPLIFIER

Fig. A. Designed to give high fidelity amplification with minimum hum. Remarkable "Multi-Range Tone Control" provides four separate laboratory selected response curves to give the best in performance. There's no guesswork for the user when selecting the proper tone balance for varying program material. Output 10 watts with a gain of 72 db  $\pm 1$  db from 40-15,000 cps. (Additional specifications on pages 18 and 19.)

PH10C—Same as above plus 4-ft. extension controls for remote control use.

### WEBSTER 156-27 CHANGER

Fig. F. Plays twelve 10" and ten 12" 78 RPM records at one loading. Automatically shuts off after the last record. Lightweight GE variable reluctance magnetic pickup included for minimum wear on valuable records. Only one control button is required for all operations of changer. Heavy duty, 4-pole single speed motor operates on 105-120 V., 60 cycles AC.

wire all the plugs, cables and connectors for a nominal price of \$7.00 and then test the group together as a HI-FI system. Every item required for the installation, including all inter-connections, is included in the single price (except cabinet and speaker enclosure). For a choice of either modern or period design cabinets to house the package, turn to pages 10, 11, 22, 42 and 43 of this catalog . . . or use furniture of your own.

### MEISSNER 8C FM TUNER

Fig. E. Brings in FM programs free of static and station interference—gives realistic high fidelity reception without distortion. The audio fidelity is flat from 50-15,000 cps. A modern, slide rule dial is calibrated in MC and channel numbers for fast, easy tuning of your favorite station. Precision-built, advanced circuit uses 6AL5, (2) 6BA6, (2) 6AG5, (2) 5C4 and 6XSGT/G rectifier. Chassis dimensions:  $7\frac{1}{2}'' \times 11'' \times 5''$ . Shipping Weight 7 lbs. Same chassis as above is available in polished cabinet. (See page 16 for additional specifications and information.)

### GE PRE-AMPLIFIER AND SPEAKER

Fig. B. The model MSC pre-amplifier is designed for use with high fidelity reluctance cartridges. It uses a shock mounted 6SC7 tube in an equalizing circuit. Covers full audio range of 20-20,000 cps.

Fig. D. Model S1201D speaker is excellently constructed 12-inch Alnico V PM type. Molded one-piece cone assures brilliant frequency response. Power handling capacity: 25 watts.

### WEBSTER 356-27 CHANGER

Fig. F. Three speeds . . . plays all makes, all sizes and all speeds of records—automatically. Single switch makes speed changeover from 78, 45 and 33 1/3 RPM, fast and effortless. Equipped with a lightweight arm that plays standard and LP records without weight adjustment. Pickup returns to rest after last record except 7" size. Shock mounted motor assembly assures smooth, quiet operation at any speed. Supplied with 10 spiders for 45 RPM records and two plug-in GE reluctance cartridges. Mounting:  $5\frac{5}{8}''$  above plate;  $2\frac{3}{4}''$  below plate. Dimensions of motorboard:  $14\frac{1}{4}'' \times 14''$ .

NOTE: Below systems can be supplied with the Meissner 8C Tuner in wood cabinet if desired, at \$3.68 additional. Charge for wiring plugs, cables and connectors, and testing any group (see text at top of page) . . . \$7.00

## HI-FI COMBINATIONS USING BELL AMPLIFIERS

Stock No.	Amplifier	Tuner	Speaker	Changer	Pre-Amp	Accessories	Price
30N21399	Bell 2122	Meissner 8C Chassis	GE S1201D	Webster 156-27	None Required		118.80
30N21398	Bell 2122R	Meissner 8C Chassis	GE S1201D	Webster 156-27	None Required	All Necessary Inter-Connecting Cables, Plugs, Jacks, Switches	123.39
30N21397	Bell 2122	Meissner 8C Chassis	GE S1201D	Webster 356-27	None Required		125.08
30N21396	Bell 2122R	Meissner 8C Chassis	GE S1201D	Webster 356-27	None Required		134.83

## HI-FI COMBINATIONS USING BOGEN AMPLIFIERS

Stock No.	Amplifier	Tuner	Speaker	Changer	Pre-Amp	Accessories	Price
30N21395	Bogen PH10	Meissner 8C Chassis	GE S1201D	Webster 156-27	GE MSC		111.05
30N21394	Bogen PH10C	Meissner 8C Chassis	GE S1201D	Webster 156-27	GE MSC	All Necessary Inter-Connecting Cables, Plugs, Jacks, Switches	113.76
30N21393	Bogen PH10	Meissner 8C Chassis	GE S1201D	Webster 356-27	GE MSC		122.49
30N21392	Bogen PH10C	Meissner 8C Chassis	GE S1201D	Webster 356-27	GE MSC		125.21

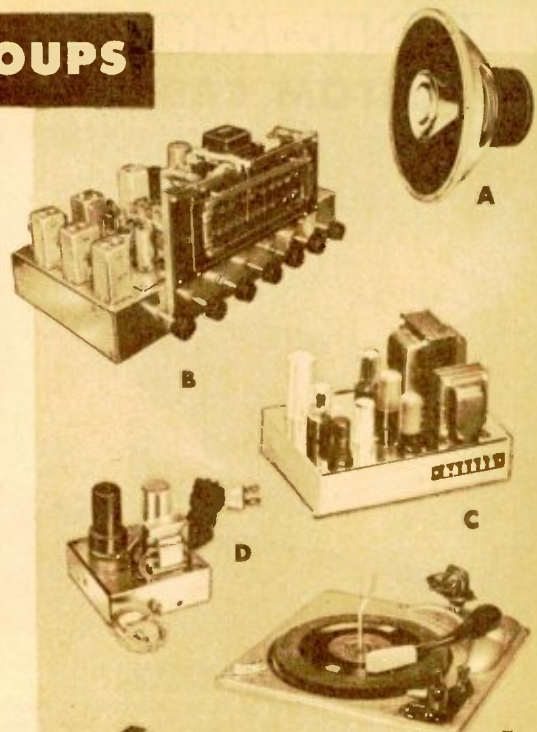


# SELECTED HIGH FIDELITY GROUPS

## HI-FI PACKAGE NO. 1

Here is a superb custom package for the discriminating radio and record listener who demands the finest in high fidelity reproduction. Complete standard broadcast AM and FM coverage for all your favorite radio programs and a top-notch record playing system that handles all speeds, types and sizes of records. This high fidelity equipment gives you the entire range of sound, from extremely low notes of the tuba to the highest notes of the oboe. Every unit in the package has been tested individually and in combination to assure maximum efficiency and perfect matching of all components. To achieve these excellent results, Lafayette technicians selected the following outstanding equipment: (B) The famous high fidelity Browning Model RJ-20 FM-AM Tuner; (C) a fine 12-watt Radio Craftsmen RC2 amplifier with a range of 20 to 20,000 cps to match the tuner; (E) the latest Webster Model 356-27 3-speed record changer with two GE reluctance cartridges; (A) Stephens Tru-Sonic Model 102FR 15" speaker—a high fidelity cospiral unit capable of handling 20 watts undistorted output; (D) the GE self-powered pre-amplifier for use with variable reluctance cartridges. The components are supplied with all interconnecting cables, plugs and jacks to permit immediate installation. Operates on 105-125 volts, 50/60 cycles AC. For additional information on the above components, see pages 16-19, 43 and 46.

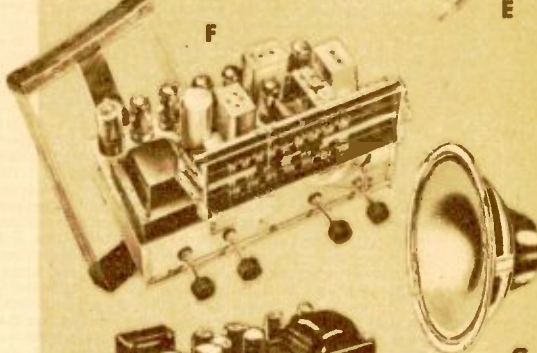
COMPLETE PACKAGE NO. 1 (A-B-C-D-E)  
30N21400—Ready To Install..... **295.74**



## HI-FI PACKAGE NO. 2

It's easy to enjoy a high fidelity radio and phonograph installation in your home with these fine components... economically priced for the modest budget. A compact, three-unit package that can be readily adapted to the smaller furniture piece or console cabinet. Model IN1206 12-tube FM-AM single unit chassis (F) covers the standard broadcast and 88-109 MC FM bands. Features include automatic frequency control, push-pull output, a loop antenna for AM broadcasts and a folded dipole for FM. Full range reproduction of your finest classical records is assured with the (G) GE model S1201D 12" speaker and (E) Webster Model 356-1 3-speed record changer. Tested and matched components give top performance from records and radio. All interconnecting cables, plugs and jacks are supplied with the package. For 105-125 volts, 50/60 cycles AC. For additional information see pages 17, 42 and 46.

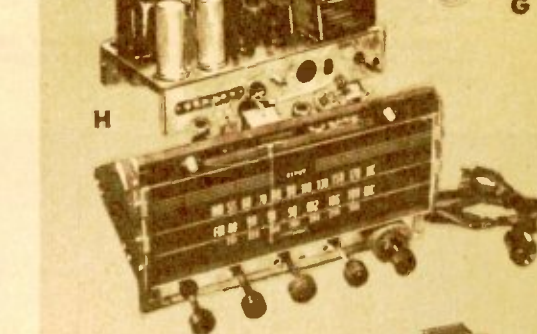
COMPLETE PACKAGE NO. 2 (E-F-G)  
30N21401—Ready To Install..... **122.75**



## HI-FI PACKAGE NO. 3

Here's a precision built, 5-unit package for the discriminating listener who wants a high fidelity installation of unusually fine quality. The popular (H) FM-AM Espey Tuner (No. 30N22477) has separate bass and treble controls and individual RF stages on both FM and AM. A specially designed separate chassis incorporating the audio amplifier and power supply is carefully matched to the tuner for maximum efficiency. Parallel push-pull output in an inverse feedback circuit assures plenty of reserve power with utmost fidelity. Other components are the (E) Webster Model 356-27 3-speed record changer with 2 GE reluctance cartridges, (G) GE Model S1201D speaker and (D) self-powered pre-amplifier. The complete package is thoroughly tested before shipment and includes all necessary inter-connecting cables, plugs and jacks for immediate installation. Operates on 105-125 volts, 50/60 cycles AC. For additional information see pages 17, 42, 46 and 48.

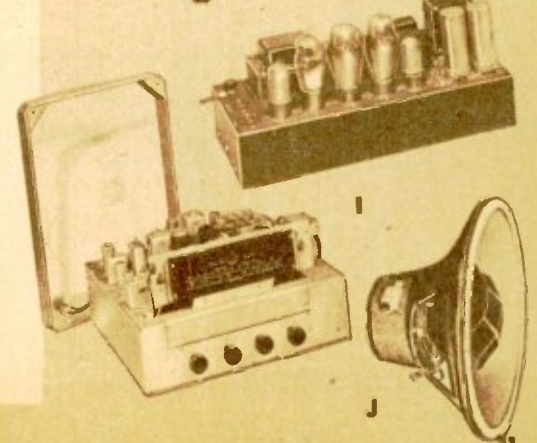
COMPLETE PACKAGE NO. 3 (D-E-G-H)  
30N21402—Ready To Install..... **180.60**



## HI-FI PACKAGE NO. 4

Everything you need for an excellent high fidelity radio and record installation is contained in this outstanding custom package. In order to assure flawless AM and FM radio reception and superb tone reproduction of the finest symphonic recordings, we selected the "hard-to-beat" Meissner Model 9-1093 tuner and amplifier (I), the Altec Lansing Model 603B 15" Hi-F1 speaker with special multicellular horn (J), and the popular Webster Chicago Model 356-27 three-speed record changer (E) for all size and type records, with two GE reluctance plug-in cartridges. All units have been pre-tested and matched to assure perfect operating efficiency. The chassis is equipped with a built-in pre-amplifier for GE reluctance and magnetic pickups. Extremely sensitive and selective tuner, plus the powerful 18-watt push-pull amplifier brings in staticless FM reception and strong, clear standard broadcast programs with utmost fidelity over the audible range between 50 and 15,000 cps. Components are supplied with all inter-connecting cables, plugs, tubes, cartridges and needles. For operation on 105-125 volts, 50/60 cycles AC. For additional information and specifications on the above components, see pages 16, 42 and 46.

COMPLETE PACKAGE NO. 4 (I-J-E)  
30N21403—Ready To Install..... **289.13**





# UNI-MODIE CUSTOM CABINETS



## FOR RADIO — PHONOGRAPH — TV & RECORD STORAGE

The Uni-Modie idea is a group of basic units in almost every required size with separate tops and bases. These units are open at the top, for easy accessibility and nest together vertically. Only one top and one base are required for each vertical group. These groups match together side by side so that thousands of possible combinations can be created, changed or added to as desired. Uni-Modies are constructed of heavy mahogany face lumber core plywood. The tops and bottoms are 1" thick and the sides and doors 13/16". All exposed front and side edges are banded with quarter striped mahogany. Beautiful hand rubbed lacquer finish exteriors, in Pinard Bisque (Blonde) with Tarragon green interiors, or deep lustrous Cordovan Mahogany with Afgan Red interiors. These luxurious sectionals represent sound basic furniture construction combined with functional beauty. Uni-Modies are the complete answer to custom installations requiring many different applications. They are ideal for housing radio, television, record components, speakers, record changers, amplifiers, tape and wire recorders, either singly or in groups of various sizes to harmonize with your room layout. With Uni-Modies you create an entertainment center that can be re-arranged or expanded as you desire.

**A reminder; all Uni-Modie units are supplied less top section. Be certain to order one top for each vertical group.**



The units illustrated above, show one of the many combinations possible with Uni-Modie Cabinets. No matter how you group these exquisite sectional pieces, it is easy to achieve perfect balance and harmony.



**Fig. A.** Mahogany cabinet, balanced construction, 35 1/2" W. x 18" D. x 15" high. With doors.  
40N25806—Shpg. Wt. 45 lbs. 37.80  
40N25809—As above, Blonde 37.60  
Mahogany basic cabinet, 35 1/2" W. x 18" D. x 15" high. Same as above, less doors.  
40N25804—Shpg. Wt. 32 lbs. 25.60  
40N25805—As above, Blonde 25.60

**Fig. B.** Mahogany cabinet, 18" W. x 18" D. x 30" high. With shelf and right hinged door.  
40N25790—Shpg. Wt. 50 lbs. 46.25  
40N25792—As above, Blonde 46.25  
Mahogany cabinet, as above, but with left hinged door.  
40N25791..... 46.25  
40N25793—As above, Blonde 46.25

**Fig. C.** Mahogany "tuned port" speaker cabinet, 24" W. x 18" D. x 30" high. Acoustically designed to enhance the qualities of the finest high fidelity speakers. Heavy vibrationless construction. Metal grille with polished brass finish. Beautiful Lumite plastic grille cloth, sag and strain resistant. Scientifically designed port opening to provide bass reinforcement. Supplied with 3/4" uncut plywood baffle for any size speaker.  
40N25794—Shpg. Wt. 75 lbs. 53.40  
40N25795—As above, Blonde 53.40  
Mahogany "tuned port" cabinet. Same as above except 35 1/2" W. x 18" D. x 30" high.  
40N25812—Shpg. Wt. 85 lbs. 64.25  
40N25813—As above, Blonde 64.25

**Fig. D.** Mahogany basic cabinet, 24" W. x 18" D. x 15" high.  
40N25802—Shpg. Wt. 24 lbs. 21.85  
40N25803—As above, Blonde 21.85

**Fig. E.** Mahogany cabinet, 35 1/2" W. x 18" D. x 30" high. With shelf, four record dividers and doors.  
40N25810—Shpg. Wt. 100 lbs 71.20  
40N25811—As above, Blonde 71.20

**Fig. F.** Mahogany cabinet, with doors. 35 1/2" W. x 18" D. x 12" high. One compartment for record changer has ball bearing slide drawer 2 1/2" high. Other side for radio or tuner has blank panel recessed for clearance of controls. Panel easily removable.  
40N25808—Shpg. Wt. 50 lbs. 48.95  
40N25807—As above, Blonde 48.95

**Fig. G.** Mahogany top section, 18" W. x 18" D. x 1" thick.  
40N25814—Shpg. Wt. 7 lbs. .... 8.00  
40N25815—As above, Blonde 8.00  
Mahogany top section. 24" W. x 18" D. x 1" thick.  
40N25816—Shpg. Wt. 10 lbs. .... 9.60  
40N25817—As above, Blonde 9.60  
Mahogany top section, 35 1/2" W. x 18" D. x 1" thick.  
40N25818—Shpg. Wt. 15 lbs. 12.00  
40N25819—As above, Blonde 12.00

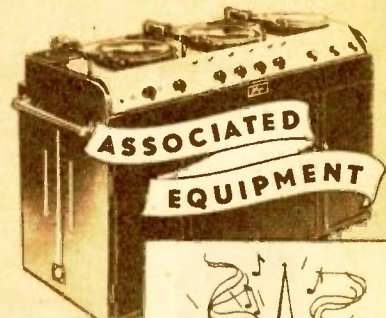
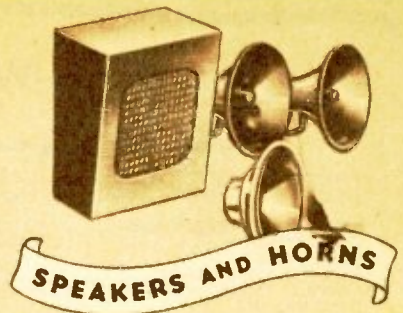
**Fig. H.** Mahogany cabinet, 24" W. x 18" D. x 15" high. With frame and 3/8" front panel. Ideal for T.V. sets.  
40N25798—Shpg. Wt. 31 lbs. 33.20  
40N25799—As above, Blonde 33.20  
Mahogany cabinet as above except 24" W. x 18" D. x 24" high.  
40N25800—Shpg. Wt. 45 lbs. 44.20  
40N25801—As above, Blonde 44.20

**Fig. I.** Mahogany speaker cabinet, with grille and baffle. 24" W. x 18" D. x 15" high.  
40N25796—Shpg. Wt. 35 lbs. 34.40  
40N25797—As above, Blonde 34.40

**Fig. J.** Island base section. Black enamel finish. Filler strip included with each base for dust proofing by closing gap between bases when Uni-Modies are assembled side by side. 17" W. x 17" D. x 2 1/2" high.  
40N25820—Shpg. Wt. 5 lbs. .... 4.80  
As above, 23" W. x 17" D. x 2 1/2" high.  
40N25821—Shpg. Wt. 8 lbs. .... 5.60  
As above, 34 1/2" W. x 17" D. x 2 1/2" high.  
40N25822—Shpg. Wt. 12 lbs. .... 6.00

**Locking:** Although Uni-Modies nest securely, screws are furnished for permanent locking if desired.  
**Backs:** Uni-Modies for radio use are equipped with screw fastened removable backs. Backs on models with panels or frames are furnished with ventilation openings.





# Lafayette

**Guarantee**  
*all Lafayette Sound Systems  
 are fully guaranteed for  
 one year*

**SUPREME IN STYLING  
 YEARS AHEAD IN ENGINEERING  
 TOPS IN STERLING PERFORMANCE**

## the greatest values in sound

**Your savings** on Lafayette sound systems do not begin or end with our lower prices. Most of your saving is in the counsel and help you get before and after you buy. Lafayette engineers consider your problem, whether you buy in person or by mail, with thoughts like these: "What are your basic requirements?" (not "How much sound system can we sell?") ... "Can you still use part of your present system?" ... "Can we design a system flexible enough to expand later, if it becomes necessary?" They are out to prove to you: **WHEN YOU BUY FROM LAFAYETTE YOUR DIVIDEND IS OUR SERVICE!**

System carries the 1 year guarantee shown on this page. And with Lafayette, you are sure of getting the performance listed in the specifications.



**Accessories** The choice of microphones, speakers, and other accessories is determined partly by the requirements of the system, partly by what you desire to spend. Crystal mikes are least expensive and are satisfactory for most general applications; the new Ceramic mikes, although somewhat more expensive, are more suitable where there are wide changes in temperature or high humidity. Dynamic mikes are more rugged, and are a good investment in the higher-priced field. Microphone fidelity should be consistent with the amplifier frequency range. Lafayette's skilled sound engineers will be glad to advise you and help you whether you choose one unit—or a complete system—without charge. Do not hesitate to call or write.

**Lafayette Systems** range in size from 8 to 75 watts, and include portable and mobile units. Lafayette Systems are designed to give highest value per dollar, yet are rated conservatively to allow a good safety factor. Every Lafayette

*Choose an amplifier with enough wattage for your purpose. Determine seating capacity or room volume in cubic feet for indoor systems, or area in square feet for outdoor systems. Then refer to the chart below for recommended wattage.*

**Have enough power  
 to do the job**

THE "QUIET" COLUMN in the chart gives you the required wattage for installation with low noise levels, such as funeral homes, hospitals, quiet offices and warehouses.

THE "NORMAL" COLUMN covers installation where normal room noise is encountered, as in small restaurants, large offices, light or medium manufacturing and residential areas.

THE "NOISY" COLUMN gives required wattage for locations with very high noise levels, such as heavy manufacturing (including boiler factories, pneumatic riveters, steel mills), large stadiums, outdoor street advertising and announcing.

Seating Capacity	Area Coverage		Required Watts		
	Indoors	Outdoors	Quiet	Normal	Noisy
750	280,000 cu. ft.	15,000 sq. ft.	7.5	11.25	15
1500	600,000 cu. ft.	30,000 sq. ft.	15	22.5	30
3000	1,200,000 cu. ft.	60,000 sq. ft.	30	45	60
4500	1,800,000 cu. ft.	90,000 sq. ft.	45	67.5	90
6000	2,400,000 cu. ft.	120,000 sq. ft.	60	90	120
7500	3,000,000 cu. ft.	150,000 sq. ft.	75	112.5	150
9000	3,600,000 cu. ft.	180,000 sq. ft.	90	135	180

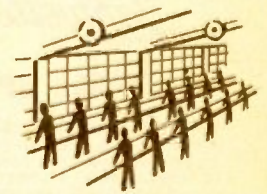
*Speakers should be selected so that their total wattage rating is always slightly more than the rated output of the amplifier. It is better to use several speakers of lower wattage to distribute the sound than to blast it at high volume from one high-power speaker.*



Church Carillon Systems from \$275



School Systems from \$200



Factory Call Systems from \$100



Portable Systems from \$40



Intercoms from \$13



# Lafayette 8-WATT QUALITY SOUND AMPLIFIER

## 8-Watt Amplifier Specifications

**POWER OUTPUT** . . . . . 8 watts at 5% distortion—12 watts peak  
**GAIN AND INPUTS** . . . . . Microphone 105 db, 2 meg  
 Phono 75 db,  $\frac{1}{2}$  meg  
**FREQUENCY RESPONSE** . . . . . 50,10,000 cps  $\pm$  2db  
**CONTROLS** . . . . . (3) Microphone, Phono, Tone  
**TUBES USED** . . . . . 6L6G, 6SC7, 5Y3  
**OUTPUT IMPEDANCE** . . . . . 4 and 8 ohms  
**POWER CONSUMPTION** . . . . . 70 watts at 117 volts 60 cycle AC  
**DIMENSIONS** . . . . . 7"x10 $\frac{1}{2}$ "x5 $\frac{1}{4}$ "

8 watts normal and a full 12 watts peak output! (5% distortion is scarcely audible at the 8 watt level). Designed especially for users requiring a high-quality, small audience coverage amplifier. Frequency response is flat ( $\pm$  2 db) from 50 to 10,000 cps. Tone control for adjustment of response to any acoustical condition. Separate controls for microphone and phonograph allow smooth fading and blending of musical background and voice announcements. Circuit includes inverse feedback for improved quality and reduction of hum and distortion. Illuminated control panel permits easy control adjustment in the darkest room.

2N187—With tubes and plugs—Shpg wt. 12 lbs. . . . . **22.95**



## Lafayette 8-WATT SINGLE & DUAL SOUND SYSTEMS

### DUAL SPEAKER PORTABLE

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

Here are matched units—complete with everything you need to operate a quality public address system. The simple plug arrangement makes installation and operation, fast and easy. Lafayette's 8-watt amplifier is guaranteed for one full year and covers replacement or repair of any defects in materials and workmanship. Separate microphone and phonograph inputs and controls permit use of recorded music as a background for announcements. This feature adds a professional smoothness to your presentations. All components are mounted in a single portable carrying case measuring 13x10 $\frac{1}{2}$ x17", and covered in handsome simulated rawhide in tan finish. Each of the two 8-inch PM speakers is mounted in a section of the two-piece case. Included also is a Shure Model 710A crystal microphone on a 6-inch desk stand with 7 feet of cable and plug. The amplifier fits into case for carrying. 70 feet of cable (35 feet for each unit) is attached to the speakers and is ready to plug into the amplifier. Complete 8-Watt Dual Portable System with amplifier, tubes, speakers, microphone, stand, cables and case.

2N184—Shipping Weight 30 lbs. . . . . **44.95**

### SINGLE SPEAKER PORTABLE

Similar to above system but with single speaker and 35-ft. cable mounted in case.

2N186—Shipping Weight 27 lbs. . . . . **39.95**

### DUAL SPEAKER INDOOR SYSTEM

Engineered for use in small areas such as clubs, restaurants, small halls, churches, schools, offices, call systems, sales meetings and similar applications. Also practical for use in voice, diction, music and public speaking classes to familiarize students with microphone technique. Can be used with any record changer or player for a combination paging and music system in stores and talking commercial displays. Built-in tone control of the amplifier has extremely broad variation to meet your preference and the acoustics of different speaker locations. This is a complete sound system—ready to operate! Consists of an 8-watt amplifier (see specifications above), two 8-inch PM speakers mounted in two fabric-koid wall baffles, 35-ft. cable and plug attached to each speaker. A Shure 710A crystal microphone on 6-inch desk stand with 7-ft. mike cable and attached plug, all tubes and instructions. For 105–125 volts, 50/60 cycles AC.

2N185—Shipping Weight 40 lbs. . . . . **44.95**

### SINGLE SPEAKER INDOOR SYSTEM

Save money! Buy this smaller, economy system if your audiences total less than 400 persons. Similar to dual system described above, but with a single 8-inch speaker mounted in one wall baffle, and 35-ft cable attached.

2N187—Shipping Weight 34 lbs. . . . . **34.98**

Above systems available for 220V. AC with step down transformer.

**MICROPHONE FLOOR STAND.** Top quality adjustable stand with positive grip friction clutch that firmly locks telescoping unit. Adjusts from 35" to 68". Chrome plated uprights on 10" diameter black wrinkle finish base.  $\frac{1}{4}$ "-27 male threads for attaching to microphone. . . . . **4.69**  
 14N22047—Shipping Weight 19 lbs. . . . .



# Lafayette 15-WATT SOUND SYSTEMS

## PORTABLE MODEL

Here's a complete portable P.A. or music system packed with the most modern features and priced to please the modest budget. Sets up in a few minutes—ready to operate. No technical knowledge necessary. The system is ideal for lectures, sales meetings, auctions, for travelling dance bands and many other applications. The high quality push-pull amplifier has three input channels—Two for crystal, dynamic or other high impedance microphones, and another for record player or radio tuner. The inverse feedback feature eliminates hum and distortion. Separate bass and treble controls permit variation of tone to individual taste, and also reduce undesirable feedback due to adverse "on location" conditions. Amplifier is fused for complete protection against breakdown.

All components are carefully matched to assure excellent performance and trouble-free operation. The complete system includes two 12-inch high fidelity GE PM speakers, the popular Astatic JT-30 crystal microphone with a response of 30-10,000 cycles, and a sturdy telescopic floor stand. Each speaker is mounted in one section of the strong, compact fibroid covered case. 70 feet of speaker cable (35 feet for each unit) and 20 feet of microphone cable with attached plug are also included. Dimensions of the case while closed: 14 1/2 x 18 x 23". Operates on 105-125 volts, 60 cycles AC. Complete 15-Watt Portable System with Tubes, Amplifier, Dual Speakers, Microphone, Floor Stand, Cables, Case and Instructions.

2N188—Shpg. Wt. 80 lbs. . . . . **74.95**

Same system as above but with the Shure Model 55 moving coil dynamic mike for better pickup and less feedback.

2N194 . . . . . **104.95**

Amplifier Available for 220V. AC operation by means of step down transformer.

## 15-WATT PERMANENT INDOOR SYSTEM

It's easy to set up a Lafayette P.A. system in small dance halls, school auditoriums, churches, gymnasiums, etc. This economy indoor system gives you excellent coverage where the area is no greater than 20,000 square feet. Everything is included for immediate installation and operation—even cables and plugs are already attached to speakers and microphone for fast, simple assembly. You receive a high quality 15-watt amplifier (see specifications below), two GE high fidelity 12-inch PM speakers mounted in two handsome walnut speaker baffles, 70 feet of speaker cable (35 feet for each unit), an Astatic JT30 microphone with 20 feet of cable and an adjustable microphone stand. For 105-125 volts, 50/60 cycles AC.

Complete 15-Watt Permanent Indoor System as described above including tubes.

2N195—Shipping Weight 75 lbs. . . . . **77.45**

Same system as 2N195, but with Shure Model 55 moving coil dynamic microphone.

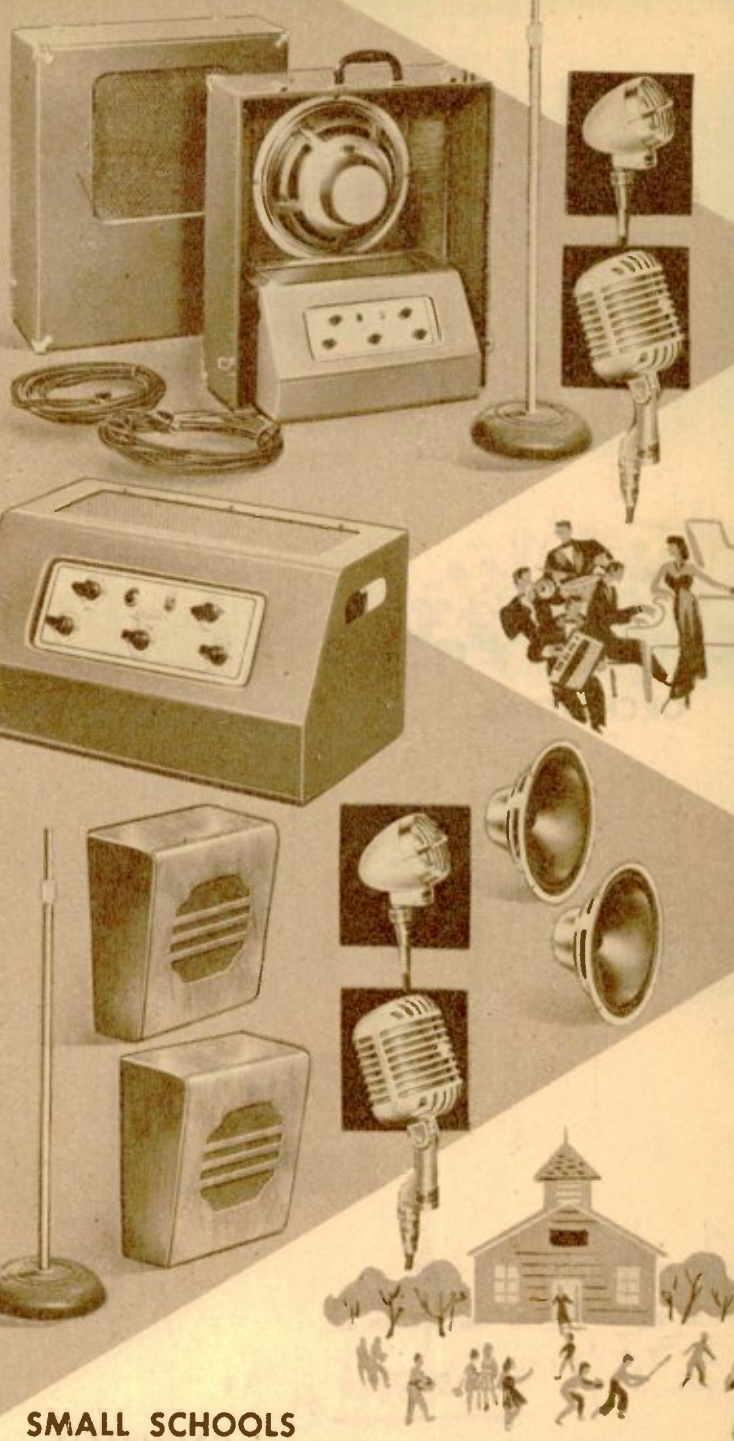
2N196 . . . . . **103.25**

## PHONOGRAPH ACCESSORY TOP

The top panel of the Lafayette 15-Watt Amplifier can be removed and replaced by another panel housing a 3-speed phono motor, turntable and crystal pickup for playing standard 78 and the new 45 and 33 1/2 RPM records. A long life needle gives true reproduction of classical and popular music. All connections are made at the rear of the cabinet for protection.

Operates on 110 volts, 60 cycles AC.

2N193—Shipping Weight 9 lbs. . . . . **15.75**



## SMALL SCHOOLS

### 15-Watt Amplifier Specifications

OUTPUT . . . . .	15 watts @ 5% or less distortion, 25 watts Peak
CHANNELS . . . . .	2 Mikes and 1 Phono or 1 Mike and 2 Phono
GAIN . . . . .	Microphone inputs 120 db, Medium gain inputs 70 db
BASS TONE CONTROL . . . . .	@ Maximum gives flat response or @ Minimum gives 10 db attenuation @ 70 cps
TREBLE TONE CONTROL . . . . .	@ Maximum gives flat response or @ Min. gives 15 db attenuation @ 10,000 cps
HUM AND NOISE . . . . .	Tone controls in Max. position; Mike channels 55 db below 15 watts, Medium gain channels 65 db below 15 watts
FREQUENCY RANGE . . . . .	30 to 15,000 cps ± 2 db
OUTPUT LOAD IMPEDANCES . . . . .	4, 8, 15, 125, 250, 500 ohms
TUBES USED . . . . .	2—6SJ7, 1—6SC7, 2—6L6G, and 1—5Y3GT
LINE DRAIN . . . . .	85 watts at 117 volts, with phono top 105 watts
DIMENSIONS . . . . .	14"x8 1/2"x9 1/2"; with phono top 11 1/2" high

2N189—Amplifier only with tubes. Wt. 27 lb. . . . . **36.95**





# Lafayette 30-WATT SOUND SYSTEMS

## POWERFUL PORTABLE MODEL

Lafayette's latest 30-watt portable system meets the major portion of all sound applications. It is the ideal rental system for the public address user, as well as a most versatile combination for theatres, auditoriums, school gyms and dance halls where exceptional tone quality and moderately high usable power are required. This modern, streamlined system is complete in every detail and surpasses anything offered to date.

The amplifier has three input channels with individual gain controls for noiseless mixing and fading; two high impedance microphone inputs and one high impedance phonograph input. The separate bass and treble compensators insure complete control of tone for individual preference and varying acoustical conditions. A pair of 6L6 tubes in a feedback regulated push pull circuit deliver 30 watts undistorted power. All connecting leads and cables between amplifier, microphone and floor stand, have been simplified to permit fast and easy installation and removal.

Included with this complete system are two heavy duty, 25-watt GE 12-inch PM speakers which assure full range reproduction of voice or music without distortion, a Shure Model 707A-20 high impedance crystal microphone on an adjustable floor stand with 20 feet of cable and attached plug, an attractive, two-section fabricoid carrying case measuring 18x14 $\frac{1}{2}$ x23" (with speakers and amplifier mounted in position), 70 feet of speaker cable and attached plugs (35 feet for each unit) already connected. Unit fused against burnout. Complete 30-Watt Portable Sound System with amplifier, tubes, microphone and floor stand, two speakers, cables, case and instructions. Nothing else to buy—ready to operate!

2N197—Shipping Weight 80 lbs. . . . . **97.50**

Similar to above except with Shure Model 55 moving coil dynamic microphone.

2N251 . . . . . **124.75**

30-watt Amplifier and Tubes only.

2N250—Shipping Weight 27 lbs. . . . . **84.50**

## 30-WATT INDOOR SYSTEM

This is the permanent sound system especially designed for large halls, churches, school gymnasiums, night clubs, auditoriums plus a wide variety of installations requiring medium power. The heavy duty push pull amplifier and Shure Model 707A-20 crystal microphone give exceptional performance, free from hum and distortion. Two handsome walnut finished wood wall baffles provide correct acoustics for the two 25-watt GE PM speakers. 35 feet of cable and attached plugs are supplied with each speaker unit. A telescopic microphone floor stand adjustable from 35" to 68" completes the equipment included with this outstanding sound system.

Complete 30-Watt Indoor System with amplifier, tubes, two speakers, microphone and floor stand, wall baffles, cables and instructions . . . ready to install and operate.

2N252—Shipping weight 78 lbs. . . . . **97.50**

Similar to above except with Shure Model 85 moving coil dynamic microphone.

2N253 . . . . . **122.80**

Above systems available for 220V. AC operation with step down transformer.

## ACCESSORY PHONOGRAPH TOP

The top panel of the 30-watt amplifier can be removed and replaced by a substitute panel housing a 3-speed phonograph motor, turntable and crystal pickup for playing the standard 78 RPM and new 45 and 33 $\frac{1}{3}$  RPM long playing records. This optional equipment, for either the portable or indoor system described on this page, provides faithful reproduction of recorded music for all occasions. The panel is perforated beneath the turntable to give maximum ventilation. All connections are located at the rear of the cabinet for protection. For 110V., 60-cycle AC.

2N183—Shipping Weight 9 lbs. . . . . **15.75**

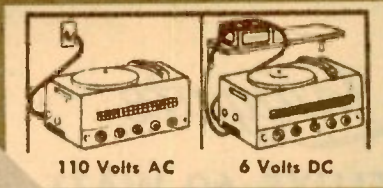
### 30-Watt Amplifier Specifications

OUTPUT . . . . .	30 watts @ 5% or less distortion, 40 watts Peak
CHANNELS . . . . .	2 Mikes and 1 Phono or 1 Mike and 2 Phonos
GAIN . . . . .	Microphone inputs 120 db, Medium gain inputs 70 db
BASS TONE CONTROL . . . . .	@ Maximum gives flat response or @ Minimum gives 10 db attenuation @ 70 cps
TREBLE TONE CONTROL . . . . .	@ Maximum gives flat response or @ Min. gives 15 db attenuation @ 10,000 cps
HUM AND NOISE . . . . .	Tone controls at max. pos.; mike channels down to 60 db
FREQUENCY RANGE . . . . .	30 to 15,000 cps $\pm$ 2 db
TUBES USED . . . . .	2—6SJ7, 1—6SF5, 1—6SC7, 2—6L6G, 1—5V4G
OUTPUT LOAD IMPEDANCES . . . . .	2, 4, 8, 15, 500 ohms
DIMENSIONS . . . . .	14" x 8 $\frac{1}{2}$ " x 9 $\frac{1}{2}$ "; with phono top 11 $\frac{1}{2}$ " high
30-watt Amplifier and Tubes only.	
2N250—Shipping Weight 27 lbs. . . . .	<b>54.50</b>

ORCHESTRAS

CARNIVALS





*Lafayette*  
**25-WATT MOBILE  
 SOUND SYSTEMS**  
 For Sound Truck & Indoor Use  
 6 Volts DC or 110 Volts AC

Really two sound systems for the price of one! Plenty of power for any job—either mobile or indoor. Operates from any 6-volt storage battery or regular 110-volt, 60-cycle AC line at full 25 watts from either supply. Switching from one voltage to the other is automatic—merely change the plugs at the rear of the amplifier; nothing to get out of order and cause a burn out. Indoors and out, in any weather, this deluxe mobile system is perfect for rallies, fairs, parades and regular P.A. work. Equipped with rugged, all-weather hermetically sealed projectors and driver units.

OUTPUT.....	25 watts
RESPONSE.....	50-10,000cps. $\pm$ 2db.
GAIN.....	Microphone 125 db., Phono 78 db.
OUTPUT IMPEDANCE.....	2, 4, 8, 500 ohms
CONTROLS.....	Two Microphones, Phono, Tone (Separate ON-OFF switch)
SWITCHES.....	ON-OFF AC, ON-OFF Phono Motor, Standby Battery Saver Switch
POWER CONSUMPTION.....	AC: 120 watts, 6-volt; DC: 22 amps.
THREE INPUTS.....	2 Microphone, 1 Phono
TUBES.....	(2) 6SF5, (2) 7N7, (2) 6L6G, 5V4G
PHONO.....	Built-in with ON-OFF switch
DIMENSIONS.....	12" wide, 10" high, 11" deep

Universal mountings permit placing projectors on top of sound truck, field tripods, speaker platforms, roofs or towers to carry sound clear and strong to point desired. Speaker lines and microphone cable disconnect readily by means of plugs so that entire system can be carried indoors in a few minutes. Another feature of the heavy duty amplifier is the battery saver switch which allows you to cut off the plate voltage on 6-volt DC operation, thereby saving current during idle periods. The amplifier top is equipped with a built-in phonograph motor, turntable, crystal pickup and ON-OFF switch for playing standard 78 RPM records. Lafayette's one year guarantee on the amplifier is your assurance of satisfactory service. Complete 25-Watt Mobile System includes amplifier with tubes for 6-volt DC and 110-volt AC, two 20-inch high efficiency University Type PH projectors with driver units and 35 feet of cable attached to each horn, Shure 505C hand microphone with push-to-talk switch and cable, plugs and the phonograph unit. The entire system is delivered ready for operation.

2N254—Shipping Weight 98 lbs.....	<b>159.95</b>
Complete Mobile System similar to above except with Shure Model 707A-20 microphone instead of the 505C, plus an adjustable floor stand.	
2N255—Shipping Weight 98 lbs.....	159.95
25-Watt Amplifier only with 78 RPM Phono Top.	
2N348—Shipping Weight 45 lbs.....	88.79
22N20028—Car Top Horn Carrier—Shpg. Wt. 8 lbs.....	4.63

**YOUR SOUND PROBLEM SOLVED**

Lafayette Sound System Engineers will design or recommend sound systems in sizes other than those shown here. Send us your detailed requirements... for help in making the proper selection of mobile sound equipment.

**Guarantee**  
 ALL LAFAYETTE MOBILE SOUND  
 SYSTEMS ARE FULLY GUARAN-  
 TEED FOR ONE YEAR

**10-WATT MOBILE  
 SOUND SYSTEM**

A compact 10-watt mobile amplifier unit designed to operate from car, truck or bus battery and give small audience coverage. This is an ideal system for bus announcing during sight-seeing tours, police safety campaigns, or any situation requiring announcements from a moving vehicle. The amplifier takes only 36 square inches of instrument panel space in buses or autos and can be mounted in any position—vertical, horizontal or lateral. It operates from a regular 6-volt auto battery or 117 volts AC for portable use. The highly efficient weatherproof speaker mounts easily under the hood or on the roof of any vehicle. Complete 10-watt Mobile System includes amplifier, tubes, University 1B8 speaker and 25-ft. cable, Shure 505C hand microphone and cable plugs. Delivered ready for installation and operation—nothing else to buy.

2N256—Shipping Weight 33 lbs.....	<b>75.21</b>
10-Watt Amplifier and Tubes only.	
2N346—Shipping Weight 25 lbs.....	<b>42.83</b>

**10-WATT AMPLIFIER SPECIFICATIONS**

POWER OUTPUT: 10 watts, Class A (14 watts peak). RESPONSE:  $\pm$  2 db 100-8000 cps. GAIN 110 db for crystal microphone; 75 db for phono. OUTPUT IMPEDANCE: 3.8, 8, 15 ohms. CONTROLS: Microphone, phono, ON-OFF standby (battery saver switch). TUBES: 6SF5, 6SL7GT, (2) 6V6GT, 7Z4. VOLTAGE: 105-125 volts, 60 cycles or 6 volts DC (storage battery). POWER CONSUMPTION: AC: 60 watts at 117 volts; DC: 8 amps at 6 volts (battery). DIMENSIONS: 6" wide, 6" high, 7 1/2" deep.

**REMOTE CONTROL FOR  
 10-WATT MOBILE AMPLIFIER**

This is a compact unit which clamps to steering post of car permitting easy operation of the amplifier controls while driving. Individual control of microphone and phono channel provided. Supplied with 6-ft. cable, connector and clamp for attachment to steering post.

2N347.....	<b>8.82</b>
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# Lafayette

## DELUXE 60-WATT OUTDOOR SOUND SYSTEM

Lafayette has gone all out to give you a high powered sound system with outstanding fine quality features to take care of every type of outdoor application: in ball parks, skating rinks, large auditoriums, stadiums, carnivals and armories. Especially engineered to deliver tremendous power without distortion or loss of tone clarity. This result is achieved through the use of two 807 high power output tubes in place of the conventional 6L6s. In addition, four 20-inch University type PH reentrant reflex projectors, and 25-watt driver units step up the efficiency of this system to such an extent as to make it equivalent to 90 watts in other systems. With these non-resonant storm-proof loudspeakers you can direct sound over long distances in the open air to cover exactly the areas you desire. The horns are supplied with 140 feet of speaker cable (35 feet for each unit) and universal brackets to permit mounting on roofs, light towers, walls or under eaves of buildings. The high gain, heavy duty amplifier has three inputs: 2 microphone channels and 1 phonograph channel. Its advanced circuit design features the newest developments for outstanding performance at maximum efficiency backed by Lafayette's one year guarantee. The attractive steel case is finished in neutral green with silver control panel. For 110-115 volts, 60-cycle AC. Complete 60-Watt Sound System includes amplifier with tubes, four 20-inch weather-proof projectors, four 25-watt driver units, Astatic JT-30 crystal mike with cable, adjustable floor stand, plus all necessary connectors and plugs. Entire system shipped ready to set up and operate.

2N257—Shipping Weight **229.25**  
150 lbs.

Complete 60-Watt System similar to above except with Shure Model 55 mike.  
2N258—Shpg. Wt. 150 lbs. 257.50  
60-Watt Amplifier and Tubes only.  
2N182—Shpg. Wt. 60 lbs. 79.38  
Available for 220 V. AC operation with step down transformer.



STADIUMS

### Specifications—60 Watt Hi-Power Amplifier

OUTPUT ..... 60 watts normal output, 75 watts peak power  
GAIN & INPUTS ..... 2 Mike Channels 120 db, Phono Channel 85 db  
FREQUENCY RANGE .....  $\pm 2$  db 30—12,000 cps  
OUTPUT IMPEDANCE ..... 4, 8, 15, 83 and 333 ohms—70 and 140 volts  
TONE CONTROL ..... "Selectone" Frequency Range Selector  
TUBES USED ..... 2—6SF5, 1—6SL7GT, 2—807, 1—6V6GT plus  
1—5Y3GT and 1—5R4GY rectifiers  
HUM AND NOISE LEVEL ..... .62 db below 60 watts  
LINE DRAIN ..... 220 watts at 117 volts, 60 cycle AC  
DIMENSIONS ..... 17" wide, 11 $\frac{1}{4}$ " deep, 9 $\frac{1}{4}$ " high  
60-Watt Amplifier and Tubes only.  
2N182—Shpg. Wt. 60 lbs. **79.38**

# Lafayette 30-WATT DELUXE OUTDOOR SYSTEM

Here's an all-purpose, low power outdoor system to take care of your P.A. installations in small ball parks, picnic grounds or school gymnasiums. Ready to install... easy to operate! It uses a heavy duty 30-watt amplifier with two individually controlled high impedance mike inputs and one phonograph input. Separate bass and treble controls provide wide variation of tone and adjustment for different acoustical conditions. Also featured are push pull 6L6s in an inverse feedback circuit to eliminate hum and distortion.

Complete 30-Watt Outdoor System includes amplifier with tubes, two 20" projectors (University Type PH reflex) with 35 feet of cable and plug attached to each, two 25-watt driver units, Shure 707A-20 crystal microphone on an adjustable floor stand with 20-ft cable and plug.  
2N259—Shipping Weight 88 lbs. **134.50**  
Complete System similar to above except with Shure Model 55 mike.  
2N260—Shpg. Wt. 88 lbs. 164.45  
Accessory Phonograph Top, optional equipment for above amplifiers. 3-speed motor, turntable and crystal pickup. Plays 33 $\frac{1}{3}$ , 45 and 78 RPM records.  
2N183—Shipping Weight 9 lbs. **15.75**

SCHOOL GYMS



### 30-Watt Amplifier Specifications

OUTPUT ..... 30 watts @ 5% or less distortion, 40 watt Peak  
CHANNELS ..... 2 Mikes and 1 Phono or 1 Mike and 2 Phono  
INPUT IMPEDANCES ..... All channels are high impedance  
GAIN ..... Microphone inputs 120 db, @ 3 megohms  
Medium gain inputs 70 db, @ 5 megohms  
BASS TONE CONTROL ..... @ Maximum gives flat response or  
@ Minimum gives 10 db attenuation @ 70 cps.  
TREBLE TONE CONTROL ..... @ Maximum gives flat response or  
@ Minimum gives 15 db attenuation @ 70 cps.  
HUM AND NOISE ..... Tone controls in maximum position;  
Microphone channels 60 db below 30 watts  
FREQUENCY RANGE ..... 30 to 15,000 cps  $\pm 2$  db  
OUTPUT LOAD IMPEDANCES ..... 2, 4, 8, 15, 500 ohms  
TUBES USED ..... 2-6SJ7, 1-6SF5, 1-6SC7, 2-6L6G, 1-5V4G  
LINE DRAIN ..... 130 watts at 117 volts, with phono top 150 watts  
DIMENSIONS ..... 14" x 8 $\frac{1}{2}$ " x 9 $\frac{1}{4}$ "; with phono top 11 $\frac{1}{4}$ " high  
30-watt Amplifier and Tubes only.  
2N260—Shipping Weight 27 lbs. **54.50**



# MASCO MUSICAL INSTRUMENT PORTABLE AMPLIFIER SYSTEMS

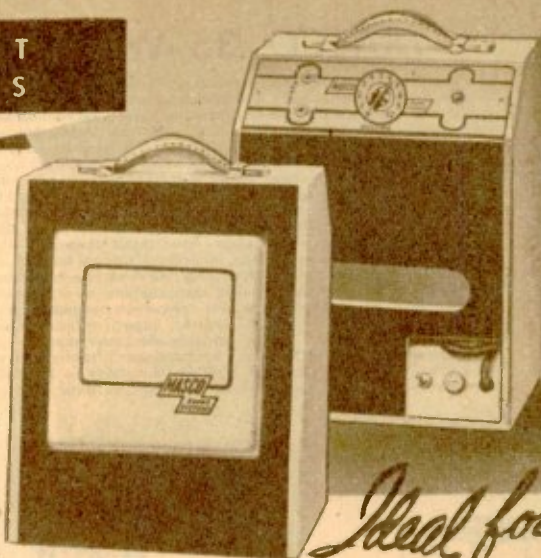
## MASCO 5-WATT ECONOMY MODEL

A complete musical instrument amplifier system in one lightweight portable case. Ideally suited for musicians, singers, lecturers, circus barkers and other entertainment applications. High quality amplifier and large heavy duty 8" PM speaker insures bell-clear musical reproduction. Full 5 watts audio output at less than 5% harmonic distortion for powerful room filling volume. Extremely low hum level assures quiet operation. Dual channel inputs accommodate any standard electronic instrument pickup or microphone; single volume control for simplified operation. Circuits are fused in compliance with Underwriters Laboratories specifications. Hardwood carrying case is sturdily constructed and attractively covered in two-tone blue and gray fabrikoid. Complete with tubes. Shpg. Wt. 15 lbs.

2N338—33.00 less 2% cash discount.....Net **32.34**

### 5-Watt Amplifier Specifications

**POWER OUTPUT**..... 5 watts at less than 5% harmonic distortion  
**INPUTS**..... Two—suitable for mike or instrument pickup  
**FREQUENCY RESPONSE**.....  $\pm 2$  db 100 to 8000 CPS  
**POWER GAIN**..... 105 db  
**TUBES**..... 6SL7GT, 6V6GT, 6X5GT (Rectifier)  
**HUM LEVEL**..... 60 db below output level of 5 watts  
**POWER CONSUMPTION**..... 30 watts at 117 volts, 60 CPS  
**DIMENSIONS**.....  $11\frac{1}{4} \times 8\frac{3}{4} \times 13$ " high



*Ideal for*

## MASCO 18-WATT DELUXE MODEL

Designed for the discriminating musician, this new 18-watt music amplifier offers all the latest features for the finest musical instrument reproduction. Individual bass and treble controls vary the overtones from crisp, clear "highs" to rich mellow "lows." Amplifier's exclusive circuit design provides 18 watts of audio output at less than 5% harmonic distortion. Heavy duty 12" speaker mounted in acoustically designed case gives lifelike reproduction and eliminates false harmonics. Frequency response  $\pm 2$  db from 50 to 12,000 cps. Three instruments or microphones, or any combination may be used separately or simultaneously by means of three separate volume controls. Voice and music may be combined with individual volume control of each. Sturdy hardwood case, covered in two-tone blue and gray fabrikoid. Complete with tubes. Shpg. Wt. 26 lbs.

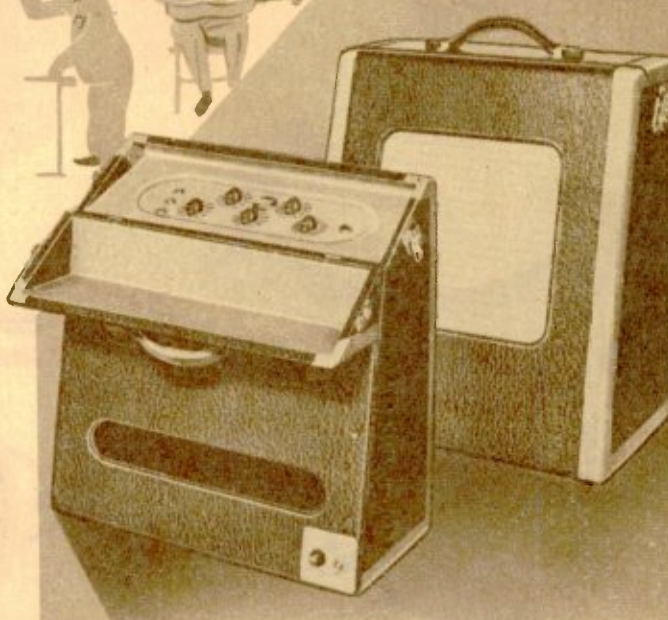
2N339—97.50 less 2% cash discount.....Net **95.55**

### 18-Watt Amplifier Specifications

**POWER OUTPUT**..... 18 watts at less than 5% distortion  
**PEAK POWER**..... 27 watts  
**INPUTS**..... Three: instrument or microphone  
**FREQUENCY RESPONSE**.....  $\pm 2$  db 50 to 12,000 CPS  
**POWER GAIN**..... 110 db  
**TUBES**..... 6J7, (3) 6SL7GT, (2) 6L6G, 5V4G (Rectifier)  
**HUM LEVEL**..... 62 db below output level of 18 watts  
**POWER CONSUMPTION**..... 40 watts at 117 volts  
**VOLTAGE**..... 105-125 volts, 60 cycles AC  
**DIMENSIONS**.....  $15\frac{1}{4} \times 9\frac{3}{4} \times 18\frac{3}{4}$ " high



**SINGERS  
 MUSICIANS  
 LECTURERS  
 BARKERS**



## MUSICAL CONTACT MICROPHONES

Hi-impedance pickup designed for use with any musical instrument. Easily installed without special strings or changes. The brilliant rounded tone resulting from the use of these pickups far exceed the power of the musical instrument alone. Easy to install; will not mar surfaces. 8-foot cable.

N13746—(A) Less volume control. Shpg. wt. 4 lbs..... **4.65**

N13745—(B) With volume control. Shpg. wt. 4 lbs..... **5.95**



## MASCO 12-WATT MUSICAL INSTRUMENT AMPLIFIER

A new streamlined design case incorporates the latest sound engineering techniques to give you this unusually fine musical instrument amplifier. Perfect for use by soloists, orchestras, masters of ceremony, etc. 12 watts undistorted output delivered through a 10-inch heavy duty matched speaker, assures excellent reproduction of tones at all volume levels. Hum-free, safety-fused circuit with two inputs, permits individual or simultaneous use of two instruments or two microphones. Fingertip control while playing is conveniently provided on top of the attractive blue and gray case—volume, tone and indicating pilot light are always handy. With Tubes—Shpg. Wt. 22 lbs.

2N343—49.50 less 2% cash discount.....Net **48.51**

### 12-Watt Amplifier Specifications

**POWER OUTPUT**..... 12 watts with less than 5% harmonic distortion  
**INPUTS**..... Two—suitable for microphone or musical instrument pickup  
**FREQUENCY RESPONSE**.....  $\pm 2$  db 50 to 10,000 CPS  
**POWER GAIN**..... 110 db  
**TUBES**..... (2) 6SL7GT, (2) 6V6GT, 5Y3GT (Rectifier)  
**HUM LEVEL**..... 62 db below an output level of 12 watts  
**POWER CONSUMPTION**..... 60 watts at 117 volts, 60 CPS  
**DIMENSIONS**.....  $13 \times 8 \times 16\frac{1}{4}$ " high





## MASCO 35-WATT PORTABLE SOUND SYSTEM

The powerful Masco 35-watt complete portable system is designed to give maximum efficiency and performance in a wide range of applications. It is ideally suited for use in chapels, recreation halls, side shows, campaigns, night clubs, carnivals, orchestras and various announcing uses. The entire system is easy to carry and set up—amplifier, speakers, microphone and cables are all housed in one compact portable case. Many important features and refinements are built into the excellently designed high fidelity amplifier. Separate bass and treble equalizer controls make it possible to attenuate or accentuate the high or low frequencies without affecting the opposite frequency range. Four input channels—three mikes and one phono, each with individual volume control, provide extreme versatility. The output is tapped at various impedances to match any speaker or speaker combination; selector switch permits easy adjustment. Excellent frequency response is flat within  $\pm 2$  db from 50 to 15,000 cps for superb reproduction of voice and music. Other "extras" include electronic mixing, hum-free operation, negative feedback and a slanted front panel with convenient "Dial-glo" indirect lighting. Amplifier is housed in attractively styled all-metal cabinet finished in blue and gray

Complete Masco 35-Watt Portable System includes amplifier with tubes, two heavy duty, 25-watt Jensen 12-inch PM speakers (or equal), each with 25-ft. cable and attached plug, Astatic JT-30 semi-directional crystal mike with 12-ft. cable and connectors and a fine two-section case of solid, non-resonant construction, finished in water-repellent blue bakeloid. Amplifier mounted on "slide-way" board. Shipped ready for installation and operation. Shpg. Wt. 63 lbs.

2N300—158.07 less 2% cash discount. . . . . Net **154.91**  
 Masco Model MA-35N Amplifier only, with Tubes.  
 2N303—93.00 less 2% . . . Shpg. Wt. 32 lbs. . . . . 81.14  
 2N304—Set of Mike and Speaker plugs for above. . . . . 2.13

Masco Model MA-35RCN Amplifier—Uses the same chassis described above for the MA-35N amplifier but has a built-in automatic record changer top. With tubes. Will not fit in portable case. Shpg. Wt. 52 lbs.  
 2N301—126.00 less 2% cash discount. . . . . Net 123.48  
 2N302—Set of Mike and Speaker plugs for above. . . . . 1.80



## MASCO 25-WATT MOBILE SOUND SYSTEM

### MASCO 25 watt Amplifier Specifications

**POWER OUTPUT.** .25 watts, less than 5% distortion, 40 watts Peak  
**INPUTS** . . . . . Four: 3 microphone, 1 phono  
**FREQUENCY RESPONSE.** . . . . .  $\pm 2$  db 50 to 15,000 CPS  
**POWER GAIN.** . . . . . Microphone, 133.5 db; Phono, 79 db  
**CONTROLS.** . . . . . Six: 3 microphone, Phono, Bass, Treble  
 Separate Motor Switch and Battery-saver Switch  
**TUBES.** 4—6J7, 1—6SL7GT, 1—6SC7, 2—6L6G, 2—7Z4 (rectifiers)  
**OUTPUT IMPEDANCES.** . . . . . 4, 8, 15, 125, 250, 500 ohms  
**HUM LEVEL.** . . . . . AC: 64 db below output of 25 watts  
**POWER CONSUMPTION.** AC: 145 watts @ 117 V (includes phono motor). DC: 23 Amps @ 6 V (battery) (includes phono motor)  
**VOLTAGE.** . . . . . 105-125 V, 60 cps AC or 6 V DC (storage battery)

It's portable . . . it's mobile . . . it operates on either 117-volt, 60-cycle AC or 6-volt DC storage battery. A rugged and powerful system especially designed for sound truck and other outdoor applications. Meets all possible needs for P.A. installations at open-air theatres, election campaigns, police and fire department rescue work, traveling

road shows, bathing beaches and other locations where AC power is unavailable.

The heart of this complete system is the new high quality amplifier with phonograph top. It operates with equal efficiency on AC or battery. DC operation is ripple-free, assuring undistorted sound. Battery-saver switch shuts off vibrator during intermissions; reduces battery drain to a minimum. Extra heavy duty dual vibrator maintains steady voltage and frequency. Four input channels for three mikes and one phono are provided, each with a separate volume control.

Complete 25-Watt Mobile System includes phono top amplifier with tubes, two University Type SMH reflex projectors, each with 35-ft cable and attached plug, two 25-watt driver units, and Shure Model 505C microphone and cable

2N344—Shipping Weight 118 lbs. . . . . **179.69**  
**MASCO MODEL MC-25PN.** 25-Watt Mobile Amplifier with phono top. Shipping Weight 44 lbs. With tubes.  
 2N332—108.00 less 2% cash discount. . . . . Net 105.84  
**MASCO MODEL MC-25RC.** 25-Watt Mobile Amplifier with tubes and record changer top. Shpg. Wt. 52 lbs.  
 2N333—155.00 less 2% cash discount. . . . . Net 151.90 . . .  
 2N341—Connector Kit for MC-25PN & MC-25RC Amplifiers . . . 1.50



**Power** stadia  
factories  
carnivals  
race tracks  
for the **BIG JOB**



**MASCO  
DRIVER  
PRE-AMP**

**Model DR-5.** Designed for use with 50 and 75-watt boosters shown on this page, but also suitable for mixing and adding extra microphone input channels to low gain and booster amplifiers. Can be used in vertical rack or operating console. Four high-gain microphone inputs permit mixing four hi-impedance microphones. Separate bass and treble controls adjust to acoustics of installation. Front panel includes ON-OFF switch with pilot light. Fused for protection. Finished in blue and gray hammertone. Complete with tubes and instructions. Shpg. Wt. 20 lbs.  
**2N317—61.50 less 2% cash discount..... Net 60-27**  
**2N340—Set of plugs for above..... 2.28**

**Specifications, MASCO Driver Pre-Amplifier**

**OUTPUT:** 1.9 volts at 500 ohms, less than 5% distortion. **INPUTS:** 4 microphones, 2 phono or radio. **TONE CONTROLS:** 9 db bass boost, 10 db attenuation at 50 cps. 10 db treble boost, 12 db attenuation at 10,000 cps. **FREQUENCY RESPONSE:** ± 2 db 50 to 15,000 cps. **POWER GAIN:** Microphone, 97 db; phono, 65 db. **TUBES:** 6SL7GT, (5) 6I7, 6SN7GT, 6X5GT rectifier. **OUTPUT IMPEDANCE:** 500 ohms balanced or unbalanced line. **HUM LEVEL:** 35 db below zero level of .006 watts. **POWER CONSUMPTION:** 40 watts at 117 volts. **VOLTAGE:** 105-125 volts, 60 cycles. **DIMENSIONS:** 15 x 8½ x 8¾" high.

**MASCO  
50 and 75-WATT AMPLIFIERS**

**Specifications, MASCO 50-Watt Amplifier**

**POWER OUTPUT** 50 Watts, Class AB-1—less than 5% distortion  
**PEAK POWER** 70 watts  
**FIVE INPUTS** 4—microphone, 1—phono  
**FREQUENCY RESPONSE** ± 2 DB 50 to 15,000 CPS  
**POWER GAIN** 136.5 DB: Phono, Bass, Treble,  
**SEVEN CONTROLS** 4—Microphone, Phono, Bass, Treble,  
 Separate Power On-Off Switch  
**TUBES** 1—6S17, 4—6I7, 2—6SC7, 4—6L6G, 2—5V4G (rectifiers)  
**OUTPUT IMPEDANCES** 4, 8, 15, 125, 250, 500 Ohms  
**HUM LEVEL** 67 DB below output level of 50 watts  
**POWER CONSUMPTION** 190 watts at 117 volts  
**VOLTAGE** 105-125 volts, 60 CPS  
**DIMENSIONS** 16" wide x 11" deep x 8¾" high

**Specifications, MASCO 75-Watt Amplifier**

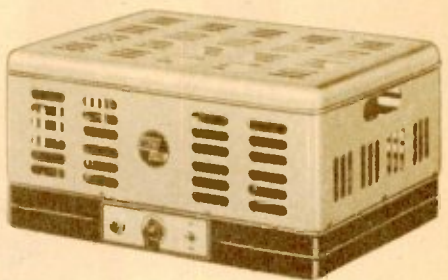
**POWER OUTPUT** 75 Watts, Class AB-2—less than 5% distortion  
**PEAK POWER** 125 watts  
**FIVE INPUTS** 4—microphone, 1—phono  
**FREQUENCY RESPONSE** ± 2 DB 50 to 15,000 CPS  
**POWER GAIN** 138 DB: Phono, Bass, Treble,  
**SEVEN CONTROLS** 4—Microphone, Phono, Bass, Treble,  
 Power On-Off Switch  
**TUBES** 4—6I7, 2—6SC7, 2—6V6GT, 4—6L6G, 1—5Y3GT,  
 2—5V4G (rectifiers)  
**OUTPUT IMPEDANCES** 8, 15, 60, 125, 250 ohms  
**HUM LEVEL** 68 DB below output level of 75 watts  
**POWER CONSUMPTION** 260 watts at 117 volts  
**VOLTAGE** 105-125 volts, 60 CPS  
**DIMENSIONS** 17" wide x 12" deep x 8¾" high



These two powerful high fidelity amplifiers answer the need for top quality performance in large commercial and industrial P.A. installations. They are suitable for heavy duty service covering large outdoor and indoor areas such as football fields, large auditoriums, rinks, etc. wherever numerous speakers are required. Other fixed system applications such as paging and announcing in steel mills, drydocks and heavy construction jobs make these superb instruments excellent for special custom jobs requiring tremendous power and good clarity. Both units feature four mike inputs and one phono input with separate controls for each, individual bass and treble equalizers and full electronic mixing of all channels. If remote control operation is desired, we recommend the model MA50NR 50 watt amplifier. When used in conjunction with the Model RCB Remote Control Box, this amplifier provides independent or simultaneous operation of two mike channels up to 2,000 feet.

- MASCO MODEL MA-50N.** 50-Watt Amp. and Tubes. Wt. 41 lbs.  
**2N308—111.00 less 2%..... Net 108.78**  
**MASCO MODEL MA-50NR.** 50-W. Amp. & Tubes. Wt. 41 lbs.  
**2N310—114.00 less 2%..... For remote use. Net 111.72**  
**MODEL RCB.** Remote Control Box for MA-50NR.  
**2N313—Shipping Weight 3 lbs..... 9.00**  
**MASCO MODEL MA-75N.** 75 W. Amp. & Tubes. Wt. 63 lbs.  
**2N311—135.00 less 2%..... 132.30**  
**100-Ft. Cable & Plugs for Remote Control Box.**  
**2N314—Shipping Weight 2 lbs..... 7.05**  
**2N312—Connectors for above amplifiers..... 2.88**

**MASCO  
50 and  
75-WATT  
BOOSTERS**



**Specifications, MASCO 50-Watt Booster Amplifier**

**OUTPUT:** 50 watts, Class AB-1, less than 5% distortion. **PEAK POWER:** 70 watts. **INPUTS:** 500 ohms balanced or unbalanced line. **FREQUENCY RESPONSE:** ± 2 db 50 to 15,000 cps. **POWER GAIN:** 46 db. **CONTROLS:** (2) master gain and separate ON-OFF switch. **TUBES:** (2) 6SN7GT, (4) 6L6G, (2) 5V4G rectifiers. **OUTPUT IMPEDANCES:** 4, 8, 15, 125, 250, 500 ohms. **HUM LEVEL:** 60 db below output level of 50 watts. **POWER CONSUMPTION:** 185 watts at 117 volts. **VOLTAGE:** 105-125 volts, 60 cycles. **DIMENSIONS:** 17" wide, 12" deep, 8¾" high.  
**2N318—81.00 less 2%..... Shpg. Wt. 41 lbs..... Net 79-38**

**Specifications, MASCO 75-Watt Booster Amplifier**

**OUTPUT:** 75 watts, Class AB-2, less than 5% distortion. **INPUTS:** 500 ohms balanced or unbalanced line. **FREQUENCY RESPONSE:** ± 2 db 50 to 15,000 cps. **POWER GAIN:** 47.5 db. **CONTROLS:** Master gain and separate ON-OFF switch. **TUBES:** 6SN7GT, (2) 6V6GT, (4) 6L6G, 5Y3GT, (2) 5V4G rectifiers. **OUTPUT IMPEDANCES:** 8, 15, 60, 125, 250 ohms. **HUM LEVEL:** 68 db below output level of 75 watts. **POWER CONSUMPTION:** 250 watts at 117 volts. **VOLTAGE:** 105-125 volts, 60 cycles. **CABINET:** Steel, gray hammertone finish; 17x12x8¾" high.  
**2N319—109.20 less 2%..... Shpg. Wt. 57 lbs..... Net 107.02**  
**2N320—Set of plugs for 50 & 75-Watt Amplifiers..... .81**





Complete  
control  
up to 36  
rooms



Paging  
radio  
programs  
phonograph  
music  
lectures

## MASCO 28-WATT SCHOOL SYSTEM AMPLIFIER

### Easy To Install... Modest in Price

Educational institutions, hospitals, clubs and hotels find this excellent sound system amplifier a valuable addition to their equipment when used in conjunction with an external microphone, phonograph or radio.\* Especially designed to provide efficient control and distribution of radio programs, phonograph music, lectures and paging to any number of rooms up to 36, singly, in groups, or all at the same time. Calls may originate from any room to the master unit when proper interconnecting cable is used. Other features include an indicator for correct volume level, separate volume controls that permit adjustment of calls, and two-way conversation to simplify communication. Shpg. Wt. 37 lbs. With tubes.

2N324—6-room Model 110.70—less 2%.....	Net	<b>108.49</b>
2N325—12-room Model 113.70—less 2%.....	Net	111.43
2N326—18-room Model 116.70—less 2%.....	Net	114.37
2N327—24-room Model 119.70—less 2%.....	Net	117.31
2N345—36-room Model 137.70—less 2%.....	Net	134.95

\* We can supply radio, phonograph and microphone attachments to fit your requirements with the School System Amplifier.

#### Specifications for School System Amplifier

POWER OUTPUT.....	28 watts, class AB-1 at less than 5% distortion
PEAK POWER.....	40 watts
INPUTS.....	External Microphone, phono and radio provision built-in intercommunication speaker
FREQUENCY RESPONSE.....	± 2 db 50 to 15,000 CPS
POWER GAIN.....	Microphone 130 db; phono 85 db
CONTROLS.....	Separate in and out volume controls; Function selector, "Talk-listen," Master Call, Station selector, On-off switches, Volume level indicator control
TUBES.....	6SC7, 6SL7GT, 6SN7GT, 2—6L6G, 6U5, 5V4G (rectifier)
OUTPUT IMPEDANCES.....	.80 ohm balanced line, constant voltage
HUM LEVEL.....	.64 db below output level of 28 watts
POWER CONSUMPTION.....	145 watts at 117 volts
VOLTAGE.....	105-125 volts, 60 CPS
CABINETS (Metal).....	Brown Hammetone, 16"x9 1/4"x13" high



#### MASCO DUAL-SPEED 16" TRANSCRIPTION PLAYER

Model TLS-16. This new deluxe model transcription player features a dual speed motor and two pickup arms each with the GE variable reluctance cartridge and long playing needle. The player is also equipped with a built-in pre-amplifier unit. Ideal for reproduction of 16" transcriptions as well as the new microgroove records used by broadcasting studios, advertising agencies, lecturers and theatrical offices. An external speed regulator adjusts the heavy-duty motor to play 78 or 33 1/3 and 12" records. A wide range frequency response 5-watt amplifier includes individual bass and treble equalizers that permit accurate tone settings. Separate microphone and phono inputs are provided. The powerful, fine quality 10" PM speaker is mounted in the removable cover of the case which serves as an excellent baffle. Sloped-front control panel with drop-leaf protecting piece, makes adjustments easier and faster. Handsome, brown alligator fabrikoid portable case measures 17 1/4"x22x10 1/4" closed. For 105-125 V., 60 cycles AC. With Tubes. Shpg. Wt. 48 lbs.

35N22691—121.57 less 2%.....	Net	<b>119.14</b>
Model TP16AL. Same as above but with crystal cartridges in the dual pickups. Shpg. Wt. 43 lbs.		
39N22670—108.80 less 2%.....	Net	106.62

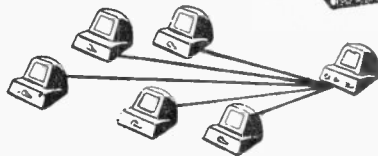
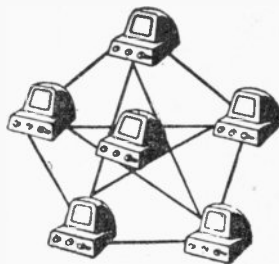
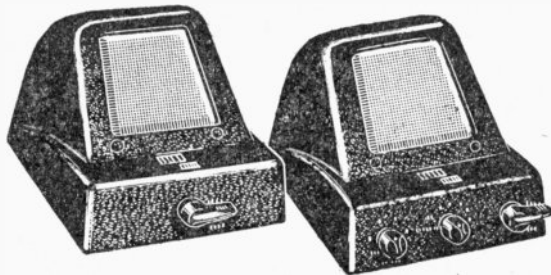
#### UNIVERSITY "POWERMIKE" SOUND SYSTEM

Here is a new, complete voice-amplified sound system that has no vacuum tube amplifier. It operates on any 6-volt battery (standard dry cells or storage) and delivers 1 1/2 watts of undistorted audio power. The Powermike is an extremely rugged carbon microphone, designed to give trouble-free performance over years of use. This compact, portable sound system covers small crowds or projects sound up to 100 feet. It can be used any place . . . instantly. Merely press the button switch and talk. Gives excellent voice reproduction in such applications as electioneering, dispatching, announcing and paging, building construction, fire fighting, railroad platforms, etc. A cigarette lighter adaptor may be plugged into the dashboard of an automobile for immediate 6-volt availability. Polarity can be disregarded since the outer container of the Powermike is isolated from the wiring. Frequency response: 100-5000 cycles. Output impedance 24 ohms. In addition to the microphone, the system includes a waterproof, uni-driven reflex speaker mounted on the battery housing, and a 6-ft. cord.

2N426—Shipping Weight 8 lbs.....	<b>35.28</b>
20N20710—Hot Shot Battery for above. Wt. 10 1/2 lb.....	2.50



# NEW MASCO "Con-fer-phone" INTERCOM SYSTEMS



## MASCO ALL-MASTER INTERCOM SYSTEM

- No Cross Talk
- Instant Selection of One or All Master Stations
- Press-To-Talk Switch
- Unbreakable Cast Aluminum Housing

## MASTER TO REMOTE 5-STATION SYSTEM

- ON-OFF Switch and Volume Control on Master Station
- Two-Way Conversation Possible With Remote
- Separate Press-To-Talk Switch on Remote and Master Units
- Remote Calls to Master ... Privacy Assured

Here's a popular type intercom system with a single master station that has provision for five remote stations. Especially adaptable for industrial and commercial use - in plants, schools, offices and wherever there is need for private inter-office conversation between a chief executive and a maximum of five subordinates. The master station includes a press-to-talk switch, station selector, volume control and ON-OFF switch for instant contact between it and the five stations...either all at once or any selected one. Press-To-talk feature on remote stations permits it to originate calls to the master and at the same time assures privacy of conversation. Clear, natural voice reproduction. Both units are enclosed in matching unbreakable cast aluminum housings finished in attractive walnut hammertone. Dimensions: 6 5/8 x 7 1/8 x 5 1/4". Shpg. Wt of master, 6 lbs; the remote, 3 1/4 lbs. For 110 volts AC or DC.

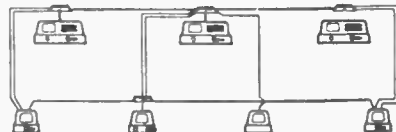
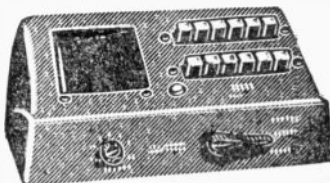
Type JM5—Master Station, Complete with Tubes. 2N391—22.50 less 2% cash discount.....Net... **22.05**

Type JR—Remote Station. 2N392—7.65 less 2% cash discount.....Net.....7.50  
3-Conductor Cable for above Intercom System. 19N16148—Per 100 ft...1.26.....Net, Per ft..... 1 1/2¢

For less leg work and fast action, here's a flexible, modern system that features a total of six master stations. Provides instant communication between a master and five other masters. Each unit can converse two-way with any or all masters in the system. They all have a press-to-talk switch, station selector and volume control with ON-OFF switch. The specially designed 3-tube amplifiers and matching Alnico V PM speakers give sharp, clear reproduction of voice with ample sensitivity. Dimensions: 6 5/8 x 7 1/8 x 5 1/4". For 110 volts, 60 cycles AC. U/L approved. Shipping Weight 6 lbs.

Type 1M5. Complete Master Station With Tubes. 2N393—22.50 less 2% cash discount...Net, Each... **22.05**  
7-Conductor Cable for use with as many as six master stations. 19N16093—Per 100 ft...7.20.....Net, Per ft..... .08

5-Conductor Cable for use with as many as four master stations. 19N16091—Per 100 ft...5.40.....Net, Per ft..... .06



## INTERMIX SYSTEMS

## 6 OR 12-STATION PUSH-BUTTON SYSTEM

A deluxe intercom system that can be installed as a Master-To-Master-To-Remote Intermix System, a Master-To-Master or Master-To-Remote installation. Master and remote units can be intermixed. Remotes can originate calls. Individual or group conversation is possible. Units have press-to-talk switch and volume controls; press-to-talk and "dictate" position on master stations. Walnut hammertone enamel case. 110 volts, AC or DC operation. Shpg. Wt. 8 lbs.

12-Station Master Unit 2N395—40.77 less 2% cash discount.....Net..... **39.95**

6-Station Master Unit 2N394—34.77 less 2% cash discount... Net.....34.07

Type JS-6 Remote Station. With 6-position master selector and call switch. Shpg. Wt. 3 1/4 lbs. 2N398—11.97 less 2% cash discount.....Net.....11.73

Type JS Remote Station with Call Switch 2N397—8.40 less 2% cash discount.....Net.....8.23

Type JL Remote Station less call switch & selector 2N396—7.65 less 2% cash discount.....Net.....7.50

19N16134—Master-to-JL-Remote cable..... .02/ft

19N20867—Master-to-JS or JS6-Remote shielded cable .04/ft

Note: To connect Master to Master use one pair of twisted for each master in the system.

3—Pair for 2 or 3 Masters. 19N16138—Per ft. .05.....100 ft.....4.12

6—Pair for up to 6 Masters. 19N16140—Per ft. .07.....100 ft.....5.14

13—Pair for up to 12 Masters. 19N16180—Per ft. .20.....100 ft.....18.00

2N399—Junction Box for Masters.....4.27

## MASCO MODEL JMR 2-WAY SYSTEM

- Easy To Install and Operate
- Complete - Nothing Else To Buy

A complete two-station intercom system with one master and one remote. Ideal as baby, "nurse" or for communication between any two points. Includes 50 feet of 3-conductor cable and complete instructions for easy installation. Plug into light socket, connect the two stations with the cable and it's ready to operate. The master has its own volume control, ON-OFF switch and press-to-talk switch. Remote station also has a press-to-talk switch for originating its own call and to provide privacy if desired. Units are suitable for use as a two-way paging system. Unbreakable cast aluminum housings finished in walnut hammertone. Size: 6 5/8 x 7 1/8 x 5 1/4". For 110 volts, AC or DC. U/L approved. Complete system with tubes and cable. Shpg. Wt. 10 lbs.

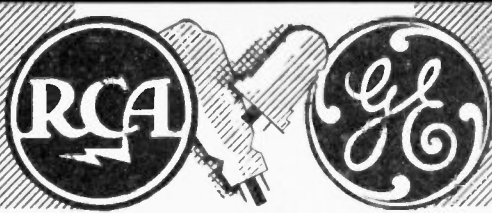
2N389—25.50 less 2% cash discount.....Net... **24.99**

Type JMRW—Same as above except units finished in white. 2N390—27.00 less 2% cash discount.....Net.....26.46

Additional cable for the above systems. 19N16134—Per 100 ft...1.76.....Net, Per ft..... .02

## COMPLETE INDEX PAGES 158-159





# RECEIVING TUBES

We stock both of the leading national brands. Your guarantee of fine quality is backed by two of the most famous names in the field of electronics, RCA and GE. All tubes are guaranteed for six months except against burnouts and breakage.

Tubes may be assorted to get quantity prices. You will be given the benefit of any price reductions becoming effective after the publication of this catalog.

There is a 5% additional discount on lots of 50 or more assorted RCA or GE tubes.

Tube Type	List Price	NET EACH	
		Lots 1 9	Lots 10
OA2	3.20	1.79	1.69
OA3 VR75	2.65	1.48	1.40
OA4G	2.65	1.48	1.40
OC3 VR105	2.65	1.48	1.40
OD3 VR150	2.65	1.48	1.40
OY4	4.80	2.68	2.54
OZ4	1.65	.92	.87
OZ4G	1.65	.92	.87
1A3	2.20	1.23	1.16
1A4P	3.90	2.18	2.06
1A5GT	1.80	1.01	.95
1A6	3.20	1.79	1.69
1A7GT	2.00	1.12	1.06
1B3GT/8016	2.65	1.48	1.40
1B4P	3.90	2.18	2.06
1B5 25S	3.20	1.79	1.69
1C5GT	2.20	1.23	1.16
1C6	3.20	1.79	1.69
1C7G	3.20	1.79	1.69
1D5GP	3.90	2.18	2.06
1D7G	3.20	1.79	1.69
1D8GT	3.90	2.18	2.06
1E5GP	3.90	2.18	2.06
1F4	2.65	1.48	1.40
1F5G	2.65	1.48	1.40
1F6	3.90	2.18	2.06
1F7G	3.90	2.18	2.06
1G4GT	2.65	1.48	1.40
1G5G	2.65	1.48	1.40
1G6GT	2.65	1.48	1.40
1H4G	2.20	1.23	1.16
1H5GT	1.65	.92	.87
1H6G	3.20	1.79	1.69
1J6GT	3.20	1.79	1.69
1L4	2.00	1.12	1.06
1LA4	2.65	1.48	1.40
1LA6	2.65	1.48	1.40
1LB4	2.65	1.48	1.40
1LC5	2.65	1.48	1.40
1LC6	2.65	1.48	1.40
1LD5	2.65	1.48	1.40
1LE3	2.65	1.48	1.40
1LH4	2.65	1.48	1.40
1LN5	2.65	1.48	1.40
1N5GT	2.00	1.12	1.06
1P5GT	2.65	1.48	1.40
1Q5GT	2.65	1.48	1.40
1R4	2.65	1.48	1.40
1R5	2.00	1.12	1.06
1S4	2.40	1.34	1.27
1S5	1.80	1.01	.95
1T4	2.00	1.12	1.06
1T5GT	2.65	1.48	1.40
1U4	2.00	1.12	1.06
1U5	1.80	1.01	.95
1V	2.20	1.23	1.16
2A3	3.20	1.79	1.69
2A5	2.20	1.23	1.16
2A6	2.65	1.48	1.40
2B7	2.65	1.48	1.40
2E5	2.65	1.48	1.40
2V3G	5.25	2.93	2.93
2X2A	4.35	2.43	2.30
3LF4	2.65	1.48	1.40
3Q4	2.20	1.23	1.16
3Q5GT	2.40	1.34	1.27
3S4	2.00	1.12	1.06
3V4	2.00	1.12	1.06
5T4	3.90	2.18	2.06
5U4G	1.50	.84	.79
5V4G	2.40	1.34	1.27
5W4	2.65	1.48	1.40
5W4GT	1.65	.92	.87
5X4G	1.80	1.01	.95
5Y3GT	1.05	.59	.56

Type Tube	List Price	NET EACH	
		Lots 1 9	Lots 10
5Y4G	1.50	.84	.79
5Z3	1.80	1.01	.95
5Z4	2.65	1.48	1.40
6A3	3.20	1.79	1.69
6A4/LA	3.20	1.79	1.69
6A6	2.65	1.48	1.40
6A7	2.00	1.12	1.06
6A8	2.00	1.12	1.06
6A8G	2.00	1.12	1.06
6A8GT	2.00	1.12	1.06
6AB5/6N5	2.65	1.48	1.40
6AB7/1853	3.20	1.79	1.69
6AC5GT	2.90	1.62	1.54
6AC7/1852	2.90	1.62	1.54
6AD7G	3.20	1.79	1.69
6AF6G	2.65	1.48	1.40
6AG5	2.65	1.48	1.40
6AG7	3.20	1.79	1.69
6AH6	3.90	2.18	2.06
6AK5	3.90	2.18	2.06
6AK6	2.40	1.34	1.27
6AL5	2.00	1.12	1.06
6AL7GT	2.65	1.48	1.40
6AQ5	2.00	1.12	1.06
6AQ6	1.80	1.01	.95
6AQ7GT	2.20	1.23	1.16
6AS7G	6.75	4.53	4.53
6AT6	1.50	.84	.79
6AU6	2.00	1.12	1.06
6AV6	1.50	.84	.79
6B4G	3.20	1.79	1.69
6B5	3.20	1.79	1.69
6B6G	2.20	1.23	1.16
6B7	3.20	1.79	1.69
6B8	3.20	1.79	1.69
6B8G	3.20	1.79	1.69
6BA6	1.80	1.01	.95
6BE6	1.80	1.01	.95
6BF6	1.65	.92	.87
6BG6G	4.80	2.68	2.54
6BH6	2.00	1.12	1.06
6BJ6	2.00	1.12	1.06
6C4	1.65	.92	.87
6C5	1.65	.92	.87
6C5GT	1.65	.92	.87
6C6	2.00	1.12	1.06
6C8G	3.20	1.79	1.69
6D6	1.65	.92	.87
6D8G	3.20	1.79	1.69
6E5	2.20	1.23	1.16
6F5	1.65	.92	.87
6F5GT	1.65	.92	.87
6F6	2.00	1.12	1.06
6F6G	1.65	.92	.87
6F6GT	1.65	.92	.87
6F7	3.20	1.79	1.69
6F8G	3.20	1.79	1.69
6G6G	2.65	1.48	1.40
6H6	1.65	.92	.87
6H6GT	1.65	.92	.87
6J5	1.50	.84	.79
6J5GT	1.50	.84	.79
6J6	2.90	1.62	1.54
6J7	2.00	1.12	1.06
6J7G	2.00	1.12	1.06
6J7GT	2.00	1.12	1.06
6K6GT	1.50	.84	.79
6K7	1.65	.92	.87
6K7G	1.65	.92	.87
6K7GT	1.65	.92	.87
6K8	2.40	1.34	1.27
6K8G	2.90	1.62	1.54
6K8GT	2.40	1.34	1.27
6L5G	2.65	1.48	1.40
6L6	3.55	1.98	1.88

Tube Type	List Price	NET EACH	
		Lots 1 9	Lots 10
6L6G	2.90	1.62	1.54
6L7	2.40	1.34	1.27
6L7G	2.90	1.62	1.54
6N7	2.40	1.34	1.27
6N7GT	2.40	1.34	1.27
6Q7	2.00	1.12	1.06
6Q7G	1.80	1.01	.95
6Q7GT	1.80	1.01	.95
6R7	2.65	1.48	1.40
6R7GT	2.65	1.48	1.40
6S7	2.65	1.48	1.40
6S7G	3.20	1.79	1.69
6S8GT	2.65	1.48	1.40
6SA7	1.65	.92	.87
6SA7GT	1.65	.92	.87
6SB7Y	2.40	1.34	1.27
6SC7	2.00	1.12	1.06
6SC5	1.65	.92	.87
6SF5GT	1.80	1.01	.95
6SF7	2.00	1.12	1.06
6SG7	2.00	1.12	1.06
6SH7	2.20	1.23	1.16
6SJ7	1.65	.92	.87
6SJ7GT	1.65	.92	.87
6SK7	1.65	.92	.87
6SK7GT	1.65	.92	.87
6SL7GT	2.40	1.34	1.27
6SN7GT	2.20	1.23	1.16
6SQ7	1.50	.84	.79
6SQ7GT	1.50	.84	.79
6SR7	1.80	1.01	.95
6SS7	1.80	1.01	.95
6ST7	2.65	1.48	1.40
6SZ7	2.20	1.23	1.16
6T7G	3.20	1.79	1.69
6T8	2.90	1.62	1.54
6U5 6G5	2.00	1.12	1.06
6U7/G	1.80	1.01	.95
6V6	3.20	1.79	1.69
6V6GT	2.00	1.12	1.06
6W4GT	1.80	1.01	.95
6W7G	2.65	1.48	1.40
6X4	1.50	.84	.79
6X5	2.65	1.48	1.40
6X5GT	1.50	.84	.79
6Y6G	2.40	1.34	1.27
6Z7G	3.90	2.18	2.06
6ZY5G	2.20	1.23	1.16
7A4/XXL	1.80	1.01	.95
7A5	1.80	1.01	.95
7A6	1.80	1.01	.95
7A7	1.80	1.01	.95
7A8	1.80	1.01	.95
7AG7	2.20	1.23	1.16
7B4	1.80	1.01	.95
7B5	1.80	1.01	.95
7B6	1.80	1.01	.95
7B7	1.80	1.01	.95
7B8	1.80	1.01	.95
7C5	1.80	1.01	.95
7C6	1.80	1.01	.95
7C7	1.80	1.01	.95
7E6	1.80	1.01	.95
7E7	2.20	1.23	1.16
7F7	2.20	1.23	1.16
7F8	2.65	1.48	1.40
7G7/1232	2.65	1.48	1.40
7H7	2.00	1.12	1.06
7J7	2.65	1.48	1.40
7L7	2.20	1.23	1.16
7N7	2.20	1.23	1.16
7Q7	1.80	1.01	.95
7R7	2.20	1.23	1.16
7S7	2.65	1.48	1.40
7V7	2.65	1.48	1.40



# RCA and GE RECEIVING TUBES

Tube Type	List Price	NET EACH	
		Lots 1-9	Lots 10
7W7	2.65	1.48	1.40
7X7/XXFM	2.65	1.48	1.40
7Y4	1.80	1.01	.95
7Z4	1.80	1.01	.95
10	3.90	2.18	2.06
12A7	3.20	1.79	1.69
12A8GT	2.00	1.12	1.06
12AH7GT	2.65	1.48	1.40
12AL5	2.00	1.12	1.06
12AT6	1.50	.84	.79
12AT7	2.90	1.62	1.54
12AU6	2.00	1.12	1.06
12AU7	2.40	1.34	1.27
12AV6	1.50	.84	.79
12AW6	2.65	1.48	1.40
12AX7	2.40	1.34	1.27
12BA6	1.80	1.01	.95
12BD6	2.00	1.12	1.06
12BE6	1.80	1.01	.95
12C8	3.20	1.79	1.69
12F5GT	1.80	1.01	.95
12H6	1.80	1.01	.95
12J5GT	1.50	.84	.79
12J7GT	2.00	1.12	1.06
12K7GT	1.65	.92	.87
12K8	2.40	1.34	1.27
12Q7GT	1.80	1.01	.95
12SA7	1.65	.92	.87
12SA7GT	1.65	.92	.87
12SC7	2.20	1.23	1.16
12SF5	1.80	1.01	.95
12SF7	2.00	1.12	1.06
12SG7	2.00	1.12	1.06
12SH7	2.20	1.23	1.16
12SJ7	1.65	.92	.87
12SJ7GT	1.65	.92	.87
12SK7	1.65	.92	.87
12SK7GT	1.65	.92	.87
12SL7GT	2.40	1.34	1.27
12SN7GT	2.20	1.23	1.16
12SQ7	1.50	.84	.79
12SQ7GT	1.50	.84	.79

Tube Type	List Price	NET EACH		
		Lots 1-9	Lots 10	Lots 10
12SR7	2.20	1.23	1.16	
12Z3	2.65	1.48	1.40	
14A4	2.65	1.48	1.40	
14A5	3.90	2.18	2.06	
14A7	2.20	1.23	1.16	
14AF7/XXD	2.20	1.23	1.16	
14B6	2.20	1.23	1.16	
14B8	2.20	1.23	1.16	
14C7	2.20	1.23	1.16	
14E6	1.80	1.01	.95	
14F7	2.20	1.23	1.16	
14F8	2.65	1.48	1.40	
14H7	2.20	1.23	1.16	
14J7	2.65	1.48	1.40	
14N7	2.65	1.48	1.40	
14Q7	2.20	1.23	1.16	
14R7	2.20	1.23	1.16	
19	3.20	1.79	1.69	
19T8	2.90	1.62	1.54	
24A	2.20	1.23	1.16	
25A6	3.20	1.79	1.69	
25L6	3.20	1.79	1.69	
25L6GT	1.65	.92	.87	
25Z5	1.50	.84	.79	
25Z6	2.20	1.23	1.16	
25Z6GT	1.45	.75	.71	
26	1.80	1.01	.95	
27	1.50	.84	.79	
30	2.00	1.12	1.06	
31	2.65	1.48	1.40	
32	3.55	1.98	1.88	
33	3.20	1.79	1.69	
34	3.20	1.79	1.69	
35	2.00	1.12	1.06	
35A5	1.80	1.01	.95	
35B5	2.00	1.12	1.06	
35L6GT	1.65	.92	.87	
35W4	1.25	.70	.66	
35Y4	1.80	1.01	.95	
35Z3	1.80	1.01	.95	
35Z4GT	1.50	.84	.79	
35Z5GT	1.25	.70	.66	
36	2.65	1.48	1.40	

Tube Type	List Price	NET EACH		
		Lots 1-9	Lots 10	Lots 10
37	1.80	1.01	.95	
38	2.20	1.23	1.16	
39/44	2.65	1.48	1.40	
41	1.65	.92	.87	
42	1.65	.92	.87	
43	1.65	.92	.87	
45	1.65	.92	.87	
45Z3	1.80	1.01	.95	
45Z5GT	1.80	1.01	.95	
46	2.65	1.48	1.40	
47	2.40	1.34	1.27	
50	3.90	2.18	2.06	
50A5	2.20	1.23	1.16	
50B5	2.00	1.12	1.06	
50L6GT	1.65	.92	.87	
50Y6GT	1.80	1.01	.95	
53	2.65	1.48	1.40	
55	2.20	1.23	1.16	
56	1.80	1.01	.95	
57	2.00	1.12	1.06	
58	2.00	1.12	1.06	
59	3.55	1.98	1.88	
70L7GT	3.90	2.18	2.06	
71A	2.00	1.12	1.06	
75	1.65	.92	.87	
76	1.65	.92	.87	
77	1.65	.92	.87	
78	1.65	.92	.87	
79	2.65	1.48	1.40	
80	1.15	.64	.61	
81	3.90	2.18	2.06	
82	2.65	1.48	1.40	
83	2.65	1.48	1.40	
83V	3.20	1.79	1.69	
84/6Z4	1.80	1.01	.95	
85	2.20	1.23	1.16	
89	2.20	1.23	1.16	
117L7 M7GT	3.90	2.18	2.06	
117N7GT	3.90	2.18	2.06	
117P7GT	3.90	2.18	2.06	
117Z3	1.50	.84	.79	
117Z6GT	2.40	1.34	1.27	

## Federal Miniature Selenium Rect.



Designed to last the life of the set. Instant starting and low operating temp. 2 soldering terminals. Rectifiers may be connected as a doubler to supply 250 V. from 117 V. AC source. Models 404D3450A and 438D3428A designed for television.

Stock No.	Type No.	MA	List Price	Each	Lots/6 Each
37N10558	402D3452A	65	1.10	.65	.58
37N10559	402D3150A	75	1.30	.76	.68
37N10561	103D2625A	100	1.60	.94	.84
37N10562	403D2787A	150	1.95	1.15	1.03
37N10563	104D2795A	200	2.25	1.32	1.19
37N10564	104D3450A	250	2.50	1.47	1.32
37N10557	438D3428A	500	3.80	2.23	2.01



## Raytheon Sub-Miniature Tubes

Extremely compact, flat tubes. Lower voltage batteries can be used because of the low filament drain. Tubes can be either soldered or plugged into socket. Types with (\*) use 5-prong socket; (†) 6-prong; and (‡) 7-prong.

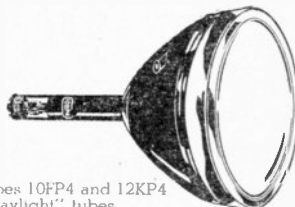
### Receiving Tubes

Stock No.	Type No.	Each
37N24961	2E32*	1.56
37N24963	2E36*	1.88
37N24965	2E42†	1.56
37N24967	2G22‡	1.56

### Hearing Aid Tubes

Stock No.	Type No.	Each
37N24968	CK502AX*	1.88
37N24969	CK503AX*	1.88
37N24970	CK505AX*	1.88
37N24972	CK507AX*	1.88
37N24973	CK510AX‡	3.15
37N24974	CK512AX*	1.88
37N24976	CK522AX*	1.88

## RCA AND GE TV PICTURE TUBES



GE types 10FP4 and 12KP4 are "daylight" tubes.

RCA No.	GE No.	Type	Each
36N24911	36N24912	5BP4	22.50
36N24912	36N24912	5TP4	59.40
36N24915	36N24915	7DP4	23.80
36N24922	36N24922	7JP4	16.88
36N24922	36N24922	8AP4	16.50
36N24917	36N24917	9AP4	57.60
36N24918	36N24918	10BP4	27.50
36N24919	36N24919	10FP4	33.25
36N24919	36N24919	12AP4	66.00
36N24923	36N24923	12KP4	36.45
36N24923	36N24923	12LP4	34.40
36N24924	36N24924	16AP4	55.88

## Sylvania IN34 Diode Detector



Efficient HF operation to 100 MC. Use in TV receivers as second detector or DC resistor, in FM circuits as frequency discriminator.  $\frac{9}{32}$ " dia. x  $\frac{3}{8}$ "  $1\frac{1}{2}$ " tinned copper leads. 29N13858—Single Diode IN34..... **85¢**  
29N13859—Dual Diode IN35..... 2.05

## Cinch Sockets For Sub-Miniature Tubes

For hearing aids, radio controlled model airplanes, etc. Molded form, mica-filled, low-loss bakelite with silver plated beryllium copper contacts. 5-prong sockets fit 4-prong tubes.

Stock No.	Type No.	Contacts	Each
13N13116	2H5	5	.22
13N13117	2H6	6	.23
13N13118	2H7	7	.24

## LAFAYETTE SPECIAL

Fully Guaranteed High Quality TV Picture Tubes at Real Rock Bottom Prices

Stock No.	Type No.	Each
36N24980	10BP4	23.95
36N24981	12LP4	29.95
36N24983	15AP4	43.50
36N24984	16FP4	44.70

## DUMONT

Stock No.	Type	Each
36N24954	12OP4	34.75
36N24955	12RP4	34.00
36N24956	15DP4	53.50
36N24953	20BP4	222.75

## RCA SALES PROMOTIONAL AIDS

Free promotional aids when ordered with tube quantities shown.

Stock No.	RCA No.	Description	Each	No. Tubes
23N19963	RC-15	RCA Tube Manual.	.35	10
23N19986	PG-101	Power and Gas Tube Manual.	.10	5
23N19984	1275-D	Tube Char. Booklet.	.10	5
23N18801	2F366	Triple PindeX	.75	20
23N18800	1F9940	RCA Resistor Code Pencil.	1.49	50
23N18807	.....	RCA Dummy Cartons.	Free	.....
23N18806	2F420	Service Decal.	Free	.....



# INDUSTRIAL-TRANSMITTING-SPECIAL PURPOSE TUBES



RCA and GE tubes are manufactured with the most modern, high-precision equipment, and are pretested to insure long trouble free service. They are fully guaranteed by the world's two largest manufacturers.

As one of the largest distributors of RCA and GE tubes, we carry a complete stock of industrial, transmitting, and special purpose tubes. If the particular type that you want is not listed please write for a quotation.



RCA			GE		
No.	Each	Type	No.	Each	Type
.....	.....	OB3/VR90	36N24568	1.20	.....
36N24803	2.25	1C21	.....	.....	.....
36N24804	29.00	2C40	36N24572	29.00	.....
36N24805	29.00	2C43	36N24573	29.00	.....
36N24806	2.00	2D21	36N24574	2.00	.....
36N24807	5.10	2E24	36N24575	5.10	.....
36N24808	3.85	2E26	36N24576	3.85	.....
36N24811	5.80	3B25	.....	.....	.....
36N24812	12.50	3C23	36N24580	12.50	.....
36N24813	15.00	3D22	.....	.....	.....
36N24943	24.50	4E27	.....	.....	.....
36N24944	37.50	4-250A/5D22	.....	.....	.....
36N24945	48.00	4X150A	.....	.....	.....
36N24946	110.00	4X500A	.....	.....	.....
36N24814	27.50	4-125A/4D21	36N24582	27.50	.....
36N24815	1.50	5R4GY	36N24583	1.50	.....
36N24816	1.75	6AG7Y	.....	.....	.....
36N24818	8.05	6I4	.....	.....	.....
36N24886	159.50	7C24	.....	.....	.....
36N24819	1.95	10Y	.....	.....	.....
36N24820	13.75	203A	36N24588	13.75	.....
36N24885	115.00	204A	.....	.....	.....
36N24821	13.75	211	36N24589	13.75	.....
36N24822	4.30	801A	36N24590	4.30	.....
36N24823	4.75	802	36N24591	4.75	.....
36N24947	24.25	803	.....	.....	.....

## RCA PHOTO TUBES

Noted for their high quality and long operating life. High vacuum and gas filled type. No grid.

Stock No.	RCA Type	Each
36N24925	1P21	50.00
36N24926	1P22	14.75
36N24927	1P28	15.50
36N24928	1P29	2.95
36N24929	1P37	2.85
36N24930	1P39	1.85
36N24931	1P40	1.85
36N24932	1P41	2.80
36N24933	1P42	5.70
36N24843	868	2.50
36N24848	917	3.50
36N24849	918	3.10
36N24850	919	3.50
36N24851	920	4.15
36N24852	921	2.05
36N24853	922	1.95
36N24854	923	2.05
36N24855	925	2.40
36N24856	926	2.90
36N24857	927	2.50
36N24858	929	1.50
36N24859	930	1.65
36N24860	931A	9.75

## RCA CATHODE RAY TUBES

Incorporate all the recent improvements in material and design.

RCA		
No.	Each	Type
36N24905	10.55	2AP1A
36N24906	9.60	2BP1
36N24907	14.25	3AP1A
36N24908	14.50	3KP1
36N24909	22.50	5BP1A
36N24910	23.25	5CP1A
36N24913	17.75	5UP1
36N24914	30.75	7CP1
36N24895	32.25	7CP4
36N24920	15.50	9I3
36N24921	47.50	5527
36N24934	85.00	1816P4

We can supply all GE, RCA types not listed here due to space limitations; also Eimac, Taylor, Hytron & Heintz Kaufman.

RCA			GE		
No.	Each	Type	No.	Each	Type
36N24948	17.50	804	.....	.....	.....
36N24824	13.50	805	36N24592	13.50	.....
36N24949	34.25	806	.....	.....	.....
36N24825	2.50	807	36N24593	2.50	.....
36N24826	10.75	808	.....	.....	.....
36N24827	4.00	809	36N24595	4.00	.....
36N24828	14.50	810	36N24596	14.50	.....
36N24829	3.30	811	36N24597	3.30	.....
36N24830	4.05	812A	36N24598	4.05	.....
36N24831	16.00	813	36N24599	16.00	.....
36N24832	14.25	814	36N24600	14.25	.....
36N24833	6.90	815	36N24601	6.90	.....
36N24834	1.65	816	36N24602	1.30	.....
36N24835	12.50	826	36N24603	12.50	.....
36N24836	13.75	828	36N24604	13.75	.....
36N24837	16.25	829B	36N24605	16.25	.....
36N24838	12.90	832A	36N24606	11.75	.....
36N24887	49.50	833A	.....	.....	.....
36N24896	9.00	836	.....	.....	.....
36N24839	5.80	837	36N24607	4.75	.....
36N24840	4.35	841	.....	.....	.....
36N24888	2.00	843	.....	.....	.....
36N24841	13.75	845	36N24609	13.75	.....
36N24889	138.00	849	.....	.....	.....
36N24890	209.00	857B	.....	.....	.....
36N24891	11.50	865	.....	.....	.....
36N24842	1.95	866A	36N24610	1.95	.....
36N24844	8.20	872A	36N24612	8.20	.....
36N24845	12.75	878	.....	.....	.....
36N24846	1.85	884	36N24614	1.85	.....

## RCA TELEVISION CAMERA TUBES

High-quality camera tubes designed and built to meet the rigid requirements of Television broadcasting.

Stock No.	Type No.	Description	Each
36N24935	2P23	Image Orthicon	1200.00
36N24936	5655	Image Orthicon	1300.00
36N24937	5769	Image Orthicon	1200.00
36N24900	5820	Image Orthicon	1200.00
36N24938	1848	Iconoscope	500.00
36N24939	1850-A	Iconoscope	540.00
36N24921	5527	Iconoscope	47.50
36N24940	2F21	Monoscope	105.00
36N24941	5FP4-A	View Finder Kinescope	41.75

## TV TRANSMITTER AMPLIFIER TUBE

Designed and engineered to meet exacting specifications. Please specify desired channel when ordering.

36N24942	Model RCA 8D21	1300.00
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## SYLVANIA SPECIAL PURPOSE TUBES



Sylvania special purpose strobrotor tubes are used in the measurement of speed of revolving machinery and studying them while in motion. No filament voltage is required.

The electroflash tube, when used with suitable equipment, provides a brilliant flash of daylight intensity with a duration of only 1/5000 seconds. Permits sharp clear shots of all day or night. Good for 10,000 flashes. Trigger tubes are used to control high voltage required for photoflash tubes, welders, etc.

No.	Type	Each
36N24990	... 1D21/SN4 Strobrotor	\$ 4.70
36N24992	... R-4350 Strobrotor	12.00
36N24993	... R-4330 Electroflash	15.80
36N24994	... R-4340 Electroflash	45.00
36N24995	... OAS Trigger Tube	4.40
36N24996	... X-6090 Ionization Tube	2.00

## THEATRE EXCITER LAMPS

For Sound-on-Film. 3 1/8" long, 1" dia. Single-contact bayonet base.

No.	Type	Volts	Amp.	Ea.
10N12240	T-8	10	.5	59c
10N12241	T-8	10	.75	59c
10N12242	T-8	8.5	.4	59c
10N12243	T-5	15	.1	73c



RCA			GE		
No.	Each	Type	No.	Each	Type
36N24847	2.00	885	36N24615	2.00	.....
36N24861	5.65	954	36N24629	5.65	.....
36N24862	3.60	955	36N24630	3.60	.....
36N24863	6.30	956	36N24631	6.30	.....
36N24864	3.75	957	36N24632	3.75	.....
36N24865	6.25	958A	.....	.....	.....
36N24866	7.40	1603	36N24634	7.40	.....
36N24867	3.00	1612	36N24635	3.00	.....
36N24892	2.05	1614	.....	.....	.....
36N24868	6.60	1620	36N24636	6.60	.....
36N24893	2.15	1621	.....	.....	.....
36N24899	2.30	1622	36N24637	2.30	.....
36N24870	4.05	1623	36N24638	4.05	.....
36N24871	4.00	1624	36N24639	4.00	.....
36N24872	2.85	1625	36N24640	2.85	.....
36N24873	1.85	1626	.....	.....	.....
36N24874	1.40	1629	36N24642	1.40	.....
36N24875	3.10	1851	36N24643	2.90	.....
36N24876	1.85	2050	36N24644	1.85	.....
36N24878	7.40	8005	36N24646	7.40	.....
36N24894	8.20	8008	.....	.....	.....
36N24879	15.50	8012A	36N24647	15.50	.....
36N24880	10.30	8013A	36N24648	10.30	.....
36N24897	22.00	8020	.....	.....	.....
36N24898	10.00	8025A	.....	.....	.....
36N24881	3.10	9001	36N24649	3.10	.....
36N24882	2.50	9002	36N24650	2.50	.....
36N24883	3.10	9003	36N24651	3.10	.....
36N24884	1.60	9006	36N24652	1.60	.....

## RCA SPECIAL RED TUBES

Specially designed for critical industrial applications, 10,000 hour life. Sturdy construction, uniformity and stability. Specifications similar to 6SL7GT, 6SN7GT and 6SJ7 respectively. Send for free RCA Red Tube Bulletin, RCA 5KB-1002.

23N19926 ..... FREE

Stock No.	RCA Type	Each
36N24904	5691	7.75
36N24903	5692	7.75
36N24902	5693	6.40

## GE INDUSTRIAL TUBES IGNITRONS

High peak current gas-filled tubes with mercury pool cathode. Supply heavy current for use in spot or seam welding. Use in place of rotating machinery for changing AC to DC.

No.	G-E Type	Each
36N24776	GL-415	44.00
36N24777	FG-271	73.50
36N24778	FG-235A	110.00
36N24779	FG-258A	241.00

## GE THYRATRONS

Grid-controlled gaseous discharge rectifier tubes with one or more grids to control the starting of the plate current. Run D-C motors directly from AC lines and hold desired motor speed constant.

Stock No.	G-E Type	Each
36N24784	FG-97	22.00
36N24785	FG-17	7.00
36N24786	FG-27A	21.00
36N24787	FG-33	21.00
36N24788	FG-57	19.50
36N24789	FG-95	23.00
36N24790	FG-105	48.00
36N24911	FG-172	65.00

## GE PHOTOTUBES

Gas-filled and high-vacuum type. No grid.

No.	G-E Type	Each
36N24780	P-J22	2.20
36N24781	P-J23	2.50
36N24782	1P29/FJ401	2.95
36N24783	GL-441	4.50

Television Pictures Tubes Are on Page 35



# PILOT LAMPS AND SOCKETS

## FULL-VIEW NEON PILOT LIGHT



Plastic head, built-in resistor for 110 volts. Uses NE51 neon bulb. Head unscrews to replace bulb from front panel. 1-7/32" long, extends 7/16" in front of panel. With mtg. nut and washer, threaded 11/16"-27.

10N14181—Red Hd. 10N14182—Amber Hd. 10N14183—Opal Hd.

Any color above, Each. . . . . **88¢**

## 1" ENCLOSED PILOT LIGHT

Single unit socket assembly unaffected by heat. Porcelain and brass. For standard S6 lamp, removable from front of panel. Single 1" mtg. Faceted jewels. U.L. listed.



10N14140—Red Jewel. 10N14141—Green Jewel. Either type **94¢**

## MINIATURE PANEL LIGHT



For panel mtg. S.C. Min. Bay. Base. Mts. in 3/8" hole. With 12" lead, nut and washer.

10N6436—Each. . . . . **38¢**

## RELIANCE POLISHED CHROME BULL'S-EYES

Takes candelabra base bulbs type S-6. For panels up to 3/8" thick, 1" diameter glass jewel with set of 4 color discs—red, green, amber and white. Jewel bezel.



10N14174—Each. . . . . **76¢**  
10N14175—As above, with Red or Green faceted 1" jewel  
10N14176—Same as above, but with Miniature Base. . . . .

## 1/2" AND 3/4" JEWEL PILOT BRACKETS

For amplifiers, transmitters, etc. All have faceted jewels, highly polished nickel plated steel brackets. Standard and jewelled brackets have 1/2" jewel requiring a 7/16" mounting hole. Jumbo brackets have a 3/4" jewel, requiring a 11/16" hole. Available with Candelabra 110V. Miniature Bayonet and Screw base sockets.

Base Type	Green	Ea.	Red	Ea.	Amber	Ea.
Assembly with 1/2" Jewel. Min. Screw Brackets.	10N6433	19¢	10N6432	19¢	10N6434	19¢
	10N6456	19¢	10N6454	19¢	10N6458	19¢
	10N6427	21¢	10N6426	21¢	10N6428	21¢
Assembly with 3/4" Jewel	10N6330	35¢	10N6331	35¢	10N6332	35¢
	10N6333	35¢	10N6334	35¢	10N6335	35¢

## RUBBER DIAL LIGHT INSTALLER

For miniature and candelabra in hard-to-reach places.



10N14137—Each. . . . . **24¢**

## PORCELAIN RECEPTACLES FOR NEON GLOW LAMPS

Mounting hole spacing all types is 1 1/8" except 10N13327, which is 2". 10N13387 requires 11/16" socket hole in addition to mtg. hole.  
10N13331—Candelabra (B) } ea. **9¢**  
10N13330—Miniature (B) }  
10N13327—Edison (B). . . . . 13¢  
10N13387—Candelabra (A). . . . . 33¢

## 2-CONTACT CAND. BAY. METAL SHELL SOCKETS

(A) Base Mtg. Type: Bakelite base, screw terminals. 1-7/16x1-5/16".



10N13332—Base. . . . . **48¢**  
(B) Flush Mtg.: requires 11/16" hole plus mtg. holes 1 1/4" apart.



10N13389—Flush. . . . . **29¢**

## PILOT LIGHT SOCKETS MINIATURE, CANDELABRA, BAYONET BASE

Type	Min. Screw	Min. Bay.	Cand. Base
A	10N6510	10N6488	10N6539
B	10N6511	10N6489	10N6557
C	10N6512	10N6490	10N6540
D	10N6513	10N6514	10N6564

OUR PRICE: Each . . . . . 5¢, 10 for . . . . . 48¢, 100 for . . . . . 4.32¢  
Each . . . . . 7¢, 10 for . . . . . 64¢, 100 for . . . . . 6.76¢  
Each . . . . . 10¢, 10 for . . . . . 90¢, 100 for . . . . . 8.10¢

## GIANT 1" JEWEL BRACKETS

1" diameter faceted jewels. Candelabra takes 3 or 6 watt 110 volt bulb.

Color	Candelabra Base	Miniature Base	Bayonet Base	Each
Red	10N6403	10N6404	10N6405	<b>59¢</b>
Opal	10N6321	10N6324	10N6327	
Green	10N6322	10N6325	10N6328	
Amber	10N6323	10N6326	10N6329	

## GE NEON GLOW LAMPS



For use in test instruments. On DC, only negative electrode glows. All except 1/2-watt types operate on 105-125 volts AC or DC and require minimum starting voltages (approx.) 65 on AC, 90 on DC. 1/2-watt minimum starting voltage 105—recommended for AC only. Clear glass except 10N12263 which is orange. Tax included.

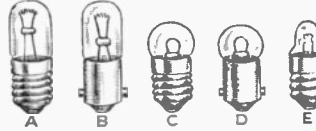


Stock No.	Watts	NE No.	Bulb	Base	Start		Each	10 For
					AC	DC		
10N12266	1	NE30	G10	A	60	85	40¢	3.60
10N12267	2	NE34	S14	A	60	85	50¢	4.50
10N12263	2	NE34	S14	A	60	85	50¢	4.50
10N12276	3	NE40	S14	A	60	85	60¢	5.40
10N12264	1 1/2	NE45	T4 1/2	B	65	90	40¢	3.60
10N12215*	1 1/25	NE51	T3 1/2	C	65	90	10¢	.90
10N12216*	1 1/25	NE2	T2	D	65	90	8¢	.72
10N12268*	1 1/2	NE48	T4 1/2	E	65	90	35¢	3.15
10N12269*	1 1/2	NE29	G10	E	105	...	45¢	4.05
10N12270*	1	NE32	G10	E	60	85	45¢	4.05
10N12271*	2	NE26	S14	E	60	85	55¢	4.95
10N12209*	1 1/2	NE7	T4 1/2	F	...	70	31¢	2.79

\* Resistorless Type.

Bases: A: Standard Edison. B: Candelabra screw. C: S.C. Min. Bay. D: Wire terminals. E: 2-Cont. Bay. F: Sk. D.C. Bay. Cand.

## GENUINE GE-MAZADA PILOT LIGHT BULBS



Both pilot and flashlight type bulbs are listed below. 6-8 volt bulbs are for 6.3 volt receivers. Bead colors aid in identifying bulb types. G-E Mazda bulbs are standard in most makes of radios.

### Prices Below Include Federal Excise Tax Tubular Bulb, Miniature Screw Base (A)

Stock No.	Type	Bead Color	Volts	Amps.	Each	10 For	100 For
10N12274	48	Pink	2.0	.06	15¢	99¢	8.91
10N12250	41	White	2.5	.50	10¢	67¢	5.94
10N12254	40	Brown	6-8	.15	10¢	67¢	5.94
10N12252	46	Blue	6-8	.25	10¢	67¢	5.94

### Tubular Bulb, Miniature Bayonet Base (B)

Stock No.	Type	Bead Color	Volts	Amps.	Each	10 For	100 For
10N12260	43	White	2.5	.50	9¢	60¢	5.40
10N12259	49	Pink	2.0	.06	15¢	99¢	8.91
10N12217	1490	White	3.2	.16	11¢	73¢	6.57
10N12249	44	Blue	6-8	.25	10¢	67¢	5.94
10N12284	47	Brown	6-8	.15	10¢	67¢	5.94
10N12218	313	No Bead	28	.17	28¢	1.98	17.82

### Round Bulb, Miniature Screw Base (C)

10N12273 50 White 6-8 .20 10¢ 66¢ 5.94

### Round Bulb, Miniature Bayonet Base (D)

Stock No.	Type	Bead Color	Volts	Amps.	Each	10 For	100 For
10N12261	51	White	6-8	.20	8¢	49¢	4.41
10N12285	55	White	6-8	.40	8¢	49¢	4.41

## FLASHLIGHT AND MISCELLANEOUS BULBS

G-3 1/2 (C) is small round. G-4 1/2 is lge. round. TL-3 (E) is lens bulb. P-3 1/2 (not illustrated) is pre-glucose miniature flange type bulb.

Stock No.	Type	Bulb	Bead Color	Volts	Amps.	Each	10 For	100 For
10N12200	13	G-3 1/2	Green	3.8	.30	10¢	67¢	5.94
10N12201	14	G-3 1/2	Blue	2.5	.30	10¢	67¢	5.94
10N12202	605	G-4 1/2	Brown	6.0	.50	11¢	73¢	6.59
10N12203	222	TL-3	White	2.2	.25	10¢	67¢	5.94
10N12204	112	TL-3	Pink	1.1	.22	10¢	67¢	5.94
10N12205	233	G-3 1/2	Purple	2.3	.27	10¢	67¢	5.94
10N12206	PR2	P-3 1/2	Blue	2.4	.50	14¢	93¢	8.37
10N12207	PR3	P-3 1/2	Green	3.6	.50	14¢	93¢	8.37
10N12208	263X	G-3 1/2	Blue	2.6	.30	10¢	66¢	5.94
10N12219	1446	G-3 1/2	No Bead	1.2	.20	15¢	99¢	8.91

## 120-VOLT PILOT LAMPS

110-120 V. pilot lights for replacements.

Stock No.	Type	Description	Watts	Each
10N12257	S-6	Candelabra base	6	16¢
10N12210	S-6	DC Bay. base	6	26¢
10N12211	S-6	Candelabra base	3	25¢
10N12212	S-6	DC Bay. base	3	35¢
10N12213	T-6 1/2	Candelabra base	10	16¢
10N12275	C-7	Cone-shape frost. Candelabra base	7	11¢
10N12280	C-7	Cone-shape clear Candelabra base	7	11¢
10N12272	.....	Tubular Candel. base	4	39¢

## FRONT REMOVABLE JEWEL BRACKET

Mounts in 1 1/8" hole. 1/2" jewel removable; bulb can be replaced from front.

Min. Screw Base	Min. Bayonet Base	Color	Each
10N6416	10N6408	Red	<b>29¢</b>
10N6418	10N6410	Amber	
10N6417	10N6409	Green	
10N6425	10N6411	Opal	



# SHURE MICROPHONES AND ACCESSORIES



## MODEL 55 - "UNIDYNE"

Super-Cardioid, uni-directional moving coil dynamic, with new "Shure Uniphase" principle. For public address and recording. Flat response from 40 to 10,000 cps. Impedance selector switch at rear of case to allow selection of Low, Medium or High impedance. Output is -56.1 db. into 35 to 50 ohms, -56.8 db. into 150-250 ohms, and -57.5 db. into 35,000 ohms. Tilting head adjustment. Complete with 25 ft. of cable and connector plug. Shpg. Wt: 4 1/2 lbs.

14N13689—List Price \$67.50...Net **39.69**

## MODEL 556 "BROADCAST"



Super-Cardioid type uni-directional moving coil dynamic microphone. Uni-directional characteristic obtained by "Shure Uniphase" principle. Especially designed and tested to meet the requirements of the broadcast studio. Random noise pickup reduced 73%. Spring suspended in case to reduce mechanical vibration pickup. Frequency response from 40 to 10,000 cps. Switch at rear of case for selection of Low, Medium, or High impedance. Output -56.1 db. at 35-50 ohms, -56.8 db. at 150-250 ohms and -57.5 db. at 35,000 ohms. Tilting head adjustment. With 7 ft. cable and connector. Shipping Weight: 4 1/2 pounds.

14N13562—List Price \$92.50...Net **54.39**

## MODEL 51 "SONODYNE"



High output, semi-directional pressure dynamic microphone. For general purpose use with public address systems, amateur transmitters, general communications, recording and paging systems. Operates on the principle of moving coil element in a magnetic field. Peak-free frequency response from 60-10,000 cps. Selector switch at front of case for choice of outputs, -53 db. at 35-50 ohms, -52.5 db. at 150-250 ohms or -52.0 db. at high-impedance. Rich pearl Gray finished case, designed to provide improved acoustical performance and modern appearance. Complete with 20 ft. of cable and one cable connector. Shpg. Wt: 5 lbs.

14N13432—List Price \$39.75...Net **23.37**

## MODEL 710A - "REX"



Semi-directional. Low-cost, dependable, hand-held, crystal mike. Ideal for Hams, P.A. systems and as replacement for home recording units. Excellent voice reproduction. Frequency response 60 to 6000 cps. Output -50 db. Burgundy red metallic finish. With stand adapter and 7-ft cable. Shpg. Wt. 1 1/2 lbs.

14N13627—List Price \$10.00...Net...**5.88**

14N13628—As above, but with "ON-OFF" switch...7.06

## MODEL 707A CRYSTAL MIKE



Semi-directional. High-impedance, mechanically isolated, moisture proofed Bimorph crystal. Suitable for amateur phone transmitters, P.A. equipment and call systems. Good response for general voice and music reproduction. Output -51 db. Pearl gray finish and chrome grille. With 7-ft. cable. Shipping Weight 1 1/4 lbs.

14N13630—List Price \$14.50...Net...**8.53**

As above, but with 20-ft. cable. Output -54.5 db. Shipping Weight: 2 lbs.

14N13430—List Price \$16.00...Net...9.41

## MODEL 737A "MONOPLEX"



Uni-directional. Super Cardioid wide-range crystal, diaphragm type, allows highly satisfactory operation under adverse conditions of background noise and reverberation where conventional mikes would be useless. High impedance. Excellent for high quality P.A., communications, recording, etc. Response 60 to 10,000 cps. over wide range angle at front. Output -54 db. With 20-ft. cable and connector swivel head. Satin-chrome finish. Shipping Weight: 4 lbs.

14N13431—List Price \$39.75...Net **23.37**

## MODEL 76B LAPEL MICROPHONE



Designed for public address, lecturing, portable transmitters and all general uses for intelligible reproduction of speech. Heavy lapel clip at rear of case permits user to move freely and have both hands free for demonstrations. Frequency response 40 to 6,000 cps. High-impedance.

High frequencies accentuated for maximum clarity. Pressure actuated diaphragm type crystal mike. High capacity, moisture sealed Graphoil Bimorph crystal. Output -57 db. Dia. 1-7/8". With lapel clip, 25 ft. cable. Shpg. Wt: 1 lb.

14N13638—List Price \$27.00...Net...**15.88**

## NEW CONTROLLED RELUCTANCE PRINCIPLE

In the controlled reluctance microphone, the output voltage is induced in a coil of wire by causing a sound wave to modulate the reluctance of the magnetic circuit. An important feature of this type of unit is the ruggedness and stability that make it practically unaffected by heat and humidity, especially in tropical countries and all coastal areas.

## MODEL 520 - "GREEN BULLET"

Controlled Reluctance Mike. Stability insured by unique control of the reluctance of specially designed magnetic system. High output, good response and high impedance without the need of a transformer. Practically immune to high temperatures and humidity. Frequency response 100 to 7000 cps. Output -52.5 db. Metallic green finish with plated grille. Supplied with 15-ft. cable. Shpg. Wt: 1 1/4 lbs.



14N13632—List Price \$16.50...Net...**9.70**

## MODEL 510C - "HERCULES"

Controlled Reluctance Mike. Hand, desk or stand operated high output unit. Rugged - use either indoors or outdoors; ideal for tropical countries and coastal areas. Stability insured by unique control of reluctance of the magnetic system. High sensitivity and good fidelity are achieved because of balanced armature transducer. Frequency response 100 to 7000 cps. Output level -52.5 db. Metallic green finish. With stand adapter and 7-ft. cable. Shipping Weight: 1 1/4 lbs.



14N13636—List Price \$12.95...Net...**7.61**

14N13637—As above but with "ON-OFF" switch...8.79

## MODEL 505C - "RANGER"

Controlled Reluctance. A tough hand microphone recommended for those applications where long lines are needed. Designed for crisp, natural voice response of high intelligibility. Fits snugly into palm of hand. Heavy-duty single-throw, double pole leaf type switch for push-talk operation. Frequency response 100 to 9000 cps. Output -50.5 db. High impedance. Supplied with 7-ft. cable. Shipping Weight: 1 1/2 lbs.



14N13640—List Price \$25.00...Net...**14.70**

## Controlled Reluctance Cartridge

Shure Model R5. Ideal for replacement in cases of the Shure 707A design. High impedance, acoustically balanced-armature transducer. Practically unaffected by heat and humidity. Response: 100 to 7000 cps. Output -52.5 db. With rubber mtg. ring 2 1/4" dia. x 3/16" thick; Cartridge 7/8" depth. Shpg. Wt. 4 oz.



14N13641—List Price \$9.00...Net **5.29**

## A88A - "GRIP-TO-TALK" SWITCH

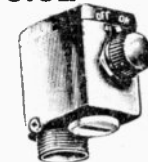
Employs long life, leaf type switch element. Guaranteed to withstand severest field requirements. Spring temper, phosphor bronze switch blades, with pure silver contacts. Large grip bar minimizes hand and finger fatigue; assures positive contact. Slight downward pressure locks switch. No soldering necessary. Element can be rewired for other switching combinations. Satin Chrome finish. Shipping Weight: 1 pound.



14N13625—List Price \$10.75...Net...**6.32**

## A83B - "ON-OFF" MIKE SWITCH

Rotary type. Quickly attached to any cable connector type Shure mike. No soldering necessary. Internal plug establishes connections. Bakelite arrow knob. Shipping Weight: 1 lb.



14N13594—List Price \$6.00...Net...**3.53**

## A86A - INPUT TRANSFORMER

Solves problem of installations requiring long lengths of mike cables without loss of H-F response. Matches 35-50, 150-250 ohm mikes to high impedance amplifier unit. 7-ft. cable. 1-5/8" dia. x 2-7/8" L. Shpg. Wt: 1 1/2 lbs.



14N13673—List Price \$15.25...Net **8.97**



# ASTATIC - ELECTRO-VOICE - TURNER - AMPERITE MICROPHONES

## ASTATIC T-3 CRYSTAL MIKE



Highly practical for studio set-ups, with amateur rigs, intercom systems, P.A. installations and quality recording purposes. Microphone head can be tilted for semi- or non-directional use. Output level -52 db; frequency response substantially uniform from 30-10,000 cycles. Supplied with interchangeable plug and socket connector, and 25-ft cable. Attractive all chrome finish. Shpg. Wt: 3 pounds.

14N13670-List price \$27.35...Net... **16.08**

Model GT-3. As above with Grip-to-Talk Stand. Shpg. Wt: 5 lbs.

14N13525-List Price \$32.85...Net... **19.32**

## ASTATIC "VELVET VOICE" CRYSTAL MIKE



Model 200. Convertible type, high impedance unit providing wide range response. Detachable base makes it easy to use as a desk, hand or floor stand mike to meet practically every need. Output level -52 db; response 30-10,000 cps. Beautiful gold finish case and handle with bright chrome grille. 15-ft shielded cable. Shpg. Wt: 1 1/2 lbs.

14N13364-List Price \$13.95...Net... **8.20**

Model 200-S. As above but with ON-OFF switch. Shpg. Wt: 1 1/2 lbs.

14N13365-List Price \$15.00...Net..... **8.82**

## ASTATIC MULTI-UNIT MIKE



Model WR-40. A specially designed, high quality mike, recommended for studio, P.A. and recording purposes. Due to a special interior design this microphone is practically transparent to sound waves and cannot be acoustically overloaded. Able to handle up to 200-ft. cable with negligible loss of output. Substantially flat frequency response up to 10,000 cycles. Output level -56 db. Bright chrome finish with satin chrome grille. Supplied with 25-ft. cable. Shipping Weight: 4 lbs.

14N13425-List Price \$43.25...Net... **25.43**

## ELECTRO-VOICE CARDAX MIKE



Model 950. Moisture-sealed crystal element. High impedance, cardioid microphone with new Mechanophase principle provides true cardioid uni-directional pickup and relatively high gain. Selector switch varies response for hi-fidelity sound pickup or extra crispness of speech. Output -57 db. on flat curve, -48 db. on rising curve. Compact rugged construction for indoor or outdoor use. Tilting head. Built-in on-off switch. Satin chromium finish. With 20-ft. cable, plug. Shpg. Wt: 4 lbs.

14N13720-List Price \$39.50...Net. **23.23**

## ELECTRO-VOICE "MERCURY" CRYSTAL MIKE



Model 911-20. Adds smartness and utility to economical P.A. and paging systems, recording equipment, ham rigs. Substantially flat response, 50-8000 cps. with an output level of -50 db. Can be used with any standard amplifier using high impedance input. High capacity crystal fully enclosed for greater moisture protection. Tilttable head; ON-OFF switch. With 20-ft. cable and built-in connector. Durable satin chromium finish. Shpg. Wt: 3 1/2 lbs.

14N13447-List Price \$24.00...Net.. **14.11**

## "MERCURY" DYNAMIC MIKE

Model 611-20. Features exclusive "acoustalloy" - withstands high humidity and temperature extremes. Response 50-8000 cps. substantially flat; output -53 db. Matches any input: Hi-Z, 50, 150, 250 or 500 ohms. ON-OFF switch; tilttable head; 20-ft cable and built-in connector. Finished in satin chromium. Shpg. Wt: 4 lbs.

14N13448-List Price \$31.00.....Net..... **18.23**

## LAFAYETTE-CONCORD CONTACT MIKES



High-impedance pickup for use with any musical instrument. Easily installed without special strings or changes. Enclosed with soft, non-marring material. With 8-ft cable. Shpg. Wt: 4 lbs.

14N13746-Less vol. control. List Price \$10.30...Net. **4.65**

14N13745-With vol. control. List Price \$13.75...Net..... **5.95**

## ASTATIC JT-30 CRYSTAL MIKE



Excellent voice performance, especially suited for amateur, home recording and P.A. systems. Output level -52 db, providing ample reserve for use with high gain amplifiers. Supplied complete with concentric cable connector, wood handle, interlocking metal base and 15-ft cable. Wood handle can be removed and mike used on floor stand. Substantially flat response. Opalescent gray finish with bright chrome grille. Shipping Weight 4 lbs.

14N13427-List Price \$16.95....Net..... **9.97**

## ASTATIC CERAMIC MIKE



Model JT-30-C. Fine general purpose, high fidelity mike for hams, communications work and P.A. systems. Tough piezoelectric ceramic element cuts danger of accidental shocks, stresses and the effects of heat and humidity. Frequency response 30 to 10,000 cps. Output level -62 db. Adaptable to all existing hook-ups without change. Heavy interlocking base. Opalescent gray finish with chrome grille. Complete with 15-ft cable and concentric cable connector. Shpg. Wt: 4 lbs.

14N13428-List Price \$16.15....Net..... **9.50**

## ASTATIC CRYSTAL MIKE



Model K-2-S. Small size, dual diaphragm type crystal mike with switch. Twice the usual capacitance permits correspondingly longer cable. Cannot be overloaded. Smooth undistorted reproduction; excellent for conference recording on tape or wire, P.A. installations and general applications where quality performance is required. Output level -62 db. Bright chrome finish. Equipment includes plug and socket connector, and 25-ft cable. Shipping Weight: 2 1/2 pounds.

14N13423-List Price \$32.85...Net... **19.32**

## TURNER PROFESSIONAL DYNAMIC MIKE



Model U9S. Saddle tilts 90° for semi or non-directional use. Response 40-9000 cps. Output -52 db. Gun metal finish. With 20-ft. cable and connector. Switch gives choice of 50, 200, 500 ohms or high impedance. Shipping Weight: 5 lbs.

14N13754-List Price \$40.00...Net. **23.52**

## TURNER DYNAMIC MIKE



Model 22D. High impedance. For amateurs, call and paging systems. 90° tilting head permits semi- or non-directional operation. Quality Alnico magnet. Response 70-9000 cps. Output -54 db. Chrome finish. 7-ft cable and connector. Shipping Weight: 2 1/2 pounds.

14N13751-List Price \$25.50...Net. **14.99**

## TURNER SHOCKPROOF CRYSTAL MIKE

Model 22X. Mechanically shockproof mounting; high quality, humidity protected crystal. Has automatic barometric compensator. Same design and characteristics as Model 22D except output of -52 db. Shpg. Wt: 2 1/2 lbs.

14N13750-List Price \$20.00.....Net..... **11.76**

## AMPERITE KONTAK MIKES



Faithfully reproduce the vibrations of any musical instrument. Moisture-proof rubber case. Response 40-6000 cps. Without volume control -40 db. 1"x3"x1". 15 ft. cable. Ship-Weight: 2 lbs.

14N13675-High-Impedance. List Price \$12.00...Net.. **7.06**  
With volume control -30 db. 3"x1"x5/8". 25 ft. cable. Shipping Weight 2 lbs.

14N13690-High Impedance. List Price \$18.00...Net..... **10.58**  
14N13687-Strap for flat top guitars..... **5.9¢**

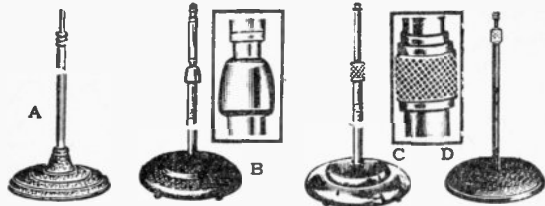
"KF" Foot Volume Control. Provides smooth control of volume by foot action. 15 ft. cable. Shpg. Wt. 4 lbs.

14N13663-High Impedance. List Price \$18.00...Net..... **10.58**

RELIABLE EQUIPMENT AT REASONABLE PRICES



# MICROPHONE STANDS AND ACCESSORIES



## (A) LAFAYETTE FLOOR STAND

Smooth action adjustments from 35" to 64". Positive grip friction clutch firmly locks stand against slipping or sudden dropping. Full chrome uprights on gray shrivel finish base, 10" diameter, 5/8"-27 thread. Shipping weight 9 pounds.

14N22047—List Price 8.25 .....Net..... **4.69**

## (B) NEW ATLAS "SLEEVE ACTION" FLOOR STAND

Model MS12S. Adjust height of stand from 35" to 65" — automatically. Slight downward pressure on "sleeve-action" control permits telescoping section to be lowered. To raise, grasp at any point and merely extend. Cannot creep or change position without actual pressure. Full chrome uprights on gray shrivel base, 10" diameter, 5/8"-27 thread. Shipping Weight 12 lbs.

14N22085—List Price 16.00 .....Net..... **9.41**

## (C) ATLAS ALL CHROME FLOOR STAND

Model MS11C. Deluxe type stand adjusts easily and securely from 35" to 65". Full chrome finish on tubing and base assures lifetime wear; 10" diameter. Shipping weight 12 pounds. 5/8"-27 thread.

14N22084—List Price 11.00 .....Net..... **6.47**

## (D) BANQUET MIKE STAND

Beautiful polished chrome finish uprights on gray wrinkle base. Height adjustable from 13" to 22 1/2". Rubber ring insulation covers entire 8" base to prevent slipping. Shipping Weight 4 lbs.

14N13536—List Price \$6.75.....Net..... **3.97**

## LAFAYETTE-CONCORD FIXED DESK STAND

6" high. Chromium tube. 6" diameter black wrinkle base. 5/8"-27 male threads for attaching to microphone. Shpg. Wt. 2 1/2 lbs.

14N13539.....Net..... **1.25**

## Atlas Adjustable Desk Stand

Newly designed two-section telescopic stand. Easily adjusted from 8" up to 13". Chromium finished heavy duty 5/8" and 7/8" tubing. Gray base, 6" dia. Shpg. Wt. 4 lbs.

14N13537—List Price 4.50 ....Net.... **2.65**

## SPECO "MAX-MIXER"

For adding and mixing two additional microphones than provided for by regular amplifier input. No complicated connections, just plug into mike jack of amplifier. Has three individually controlled high-impedance inputs. With 6 ft. cable connector and phone plug adaptor. Shipping Weight 2 1/2 lbs.

14N13642—List Price 18.95.....Net.... **11.14**

## BABY BOOM ARM

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

14N22060.....Net..... **4.12**

## BRACKET CLAMP

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

14N13371—6" Long.....Net..... **1.76**

## MIKE FLANGES, EXTENSION RODS

Widely used for neat inconspicuous permanent mounting on desk top, pulpit and amateur rigs. Fits all standard 5/8"-27 mikes. Available in male or female types. 3 mounting holes with 7/8" mounting centers. Extension rods male on both ends.

14N13350—Male Fig. **30¢** 14N13351—Female Fig. **30¢**

14N13352—6" Ext. Rod. **44¢** 14N13353—12" Ext. Rod. **59¢**

## MIKE ADAPTERS

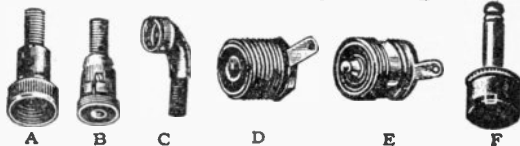
Adapts special fittings to standard stands.

14N13367—5/8"-27 female to 1/4" male thread (RCA)..... **44¢**

14N13368—1/8" female pipe to 5/8"-27 male..... **29¢**

14N13369—3/4" long, 5/8"-27 male running thread..... **15¢**

14N13370—5/8"-27 female to 5/8"-27 female coupling.... **29¢**



## SINGLE CONTACT MIKE CONNECTORS AMPHENOL SERIES 75

Polished chrome plated brass fittings with 5/8"-27 threads.

A. Type 75-MC1F. Female with coupling ring.

13N13359—Each..... **26¢**

B. Type 75-MC1M. Male—fits above connector.

13N13360—Each..... **21¢**

C. Type 75-PC1M. Male, non-shorting, chassis mount. Fits MC1F.

13N13361—Each..... **18¢**

D. Type 75-SP-PC1M. Same as PC1M but with floating center contact.

13N13385—Each..... **26¢**

E. Type 75-CL-PC1M. Like 75-SP-PC1M except closed circuit type.

13N13268—Each..... **26¢**

F. Type 75-MC1F-A. Angle type, female connector coupling ring; use with PC1M, etc.

13N13277—Each..... **59¢**

E. Type 75-MC1F. Adaptor. Connects 75-MC1F to standard phone plug.

13N13388—Each..... **29¢**



## SINGLE AND DOUBLE PIN CONNECTORS AMPHENOL SERIES 80

Metal shells are heavily plated. Bakelite elements; screw type coupling rings. Shells may be utilized for second conductor. For cable up to 1/4" diameter.

### SINGLE CONDUCTOR

80M. Male (B)

13N13286—Each..... **42¢**

80F. Female (A)

13N13287—Each..... **42¢**

Female Chassis connector. Mounts in a single 5/8" hole (C).

13N13288—80C..... **26¢**

### TWO-CONDUCTOR

80—MC2F. Female (A)

13N13289—Each..... **52¢**

80—MC2M. Male (B)

13N13290—Each..... **52¢**

Female chassis connector. Mounts in a single 5/8" hole (C).

13N13292—80—PC2F... **29¢**



## THREE AND FOUR CONTACT CONNECTORS AMPHENOL SERIES 91

Polarized shells. For use on 5/8"-27 stands. With cable clamps. Spring cord protector. Interchangeable bakelite elements. Coupled, 2 3/4 x 7/8". Coupling ring on male.

### 3-CONTACT CONNECTORS

91—MC3M. Male (A)

13N13489—Each..... **65¢**

91—MC3F. Female (B)

13N13490—Each..... **65¢**

Female Chassis (C) 13/16" hole.

13N13396—91—PC3F... **32¢**

### 4-CONTACT CONNECTORS

91—MC4M. Male (A)

13N13488—Each..... **71¢**

91—MC4F. Female (B)

13N13499—Each..... **71¢**

Female Chassis (C) 13/16" hole.

13N13397—91—PC4F... **35¢**

## Microphone Switch

Type 75-MC1S. Attaches between male and female of any of the 75 series connectors. Push to talk or slide switch for permanent connection.

13N13357—Each **82¢**

## Snap-on Mike Attachment

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

14N13356..... **1.47**

## ICA SHIELDED 3-WAY MICROPHONE PLUG

Barrel made of nickel plated brass. Fully insulated bushing.

13N13519—Each..... **85¢**

As above but with bakelite barrel.

13N13521—Each..... **59¢**

## ICA SHIELDED 3 WAY JACK

Phosphor bronze spring jack. Nickel brass shell.

13N13520—Each..... **88¢**

13N13522—Jack, less shell.

Each..... **44¢**

## FLEXIBLE GOOSENECK

Attaches to any microphone stand. Can be used where moderate adjustment is required. 5/8"-27 thr male and female ends. Chrome finish. 13" long.

14N13372—..... **1.47**



# UNIVERSITY PROJECTORS, DRIVERS, SPEAKERS



## UNIVERSITY REFLEX PROJECTORS

High efficiency exponential air column type projectors. Heavy-gauge all metal spun horns. Incorporate design features that insure superior acoustic results. Non-resonant rubber rims with each unit. Will handle 25 watts output. With universal "U" type mounting bracket. Battleship grey finish, waterproofed for outdoor use. Less drivers. Overall lengths listed below are with driver unit installed.

No.	Model	Dia.	Length	Cutoff	Lbs.	Each
22N20049	PH	20"	19"	150 cyc.	12	17.05
22N20047	LH	25.5"	22.5"	120 cyc.	18	26.17
22N20046	SMH	15.5"	16"	200 cyc.	8	14.41
22N21362	GH	30"	29"	85 cyc.	10 1/2	35.28

## UNIVERSITY DRIVER UNITS

Phenolic diaphragm; Alnico magnet. Hermetically sealed. MA-25 recommended for single speaker systems. 4 1/8" Dx 3 3/4" H. SA-HF effective in locations where noise level is high. 4 1/2" Dx 4 3/4" H. PA-30 and PA-30C have built-in line matching transformers 165, 250, 500, 1000, 2000-ohm terminals. Constant voltage taps 30, 20, 10, 5, 2 1/2 W. permit 3 db. changes with each step. PA-30 maintains high varying intensity levels over long periods. PA-30C for broadcasting chime music from church steeples. 6 3/4" Dx 6 3/4" H.



No.	Type	Range	Watts	Ohms	Lbs.	Each
22N21307	MA-25	90-6,000	25	16	4	14.70
22N21308	SA-HF	90-10,000	25	16	6	21.76
22N21363	PA-30	80-10,000	30	16	6	29.40
22N21364	PA-30C	70-6,000	30	16	6	32.34



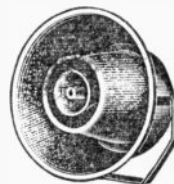
## UNIVERSITY PAGING SPEAKERS

Intercommunicator "booster" speaker has high projecting power. Clear sound output overcomes factory noises. Use as "Talk Back" speakers in intercom systems. High sensitivity permits initiating or answering calls at a distance. With adjustable mtg. bracket.

No.	Type	Watt.	Imp.	Freq.	Lbs.	Each
22N19349	MIL	3	8	400-9,000	5	14.70
22N21322	MIL	3	45	400-9,000	5	15.43
22N19348	IB8	12	8	300-10,000	7	19.11
22N24015	CR	18	16	250-6,000	11	24.70

## UNIVERSITY COAXIAL SPEAKER

Model WLC. Specially designed for outdoor installations with maximum protection against rain and other adverse weather conditions. Consists of 12" treated cone speaker, 25-watt unit driven tweeter and built in crossover network. Speaker enclosed in large volume, infinite baffle providing necessary loading for clear, low frequency reproduction. Corrosion-resistant, all metal construction. Adjustable "U" bracket permits easy horizontal and vertical positioning. Response 50-10,000 cycles. Impedance 8 ohms. Power 25 watts. Crossover 1,000 cycles. Dia. 3 3/2", 20" depth. Attractive baked Gunmetal finish.



22N21370—Shpg. wt. 70 lbs.....117.60

## CAR-TOP HORN CARRIER

For all horn type speakers and baffles used in mobile PA work. Waterproof plywood and angle iron construction. 4 suction cups and gutter hooks with adjustable straps included. Size: 8 x 46 1/2". Easily and quickly attached or removed. Will not mar car finish. 22N20028—Shpg. Wt. 8 lbs.....4.63



## LINE MATCHING TRANSFORMER

Designed for use with University speakers in indoor or outdoor installations. Housed in water tight enclosure with die cast mounting bracket which acts as combined support for both the transformer and speaker. Easily mounted on the "U" bracket of any trumpet with clamp provided, or screwed on any surface.

No.	Type	Pri. Imp.	Sec. Imp.	Watt	Each
22N5899	5402	250-500-1000-1500-2000	4-8-16	25	11.76



## MODEL 2YC CONNECTOR

For connecting two-driver units to any trumpet. 22N21305—Shpg. Wt. 3 lbs.....5.88

## MODEL PMA ADAPTOR

For mounting trumpet on pipe fitting. 22N21306—Shpg. Wt. 3 lbs.....88c

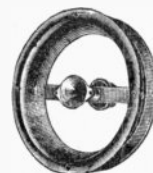


# UNIVERSITY TWEETERS - FILTERS AND ADAPTOR

## UNIVERSITY TWEETER ADAPTOR

Model 4407. Converts any 12-inch conventional type speaker to coaxial type when used with model 4405 high pass filter listed below. Consists of model 4401 single tweeter, aluminum housing, mounting bar and all necessary hardware. Response 2,000 to 15,000 cps. 12" dia., 3" Deep.

22N21329—Shpg. Wt. 6 lbs.....14.70



## TWEETER AND FILTER IN CABINET



Model 4404. Self-contained 12-watt tweeter housed in attractive walnut cabinet. Includes 4402 tweeter and electrical equivalent of 4405 filter. Frequency response 2,000 to 15,000 cps. Ideal for use where limitations prevent

the use of built-in tweeter. 6-8 ohm impedance. Crossover freq. 2,000 cps. Size: 11 1/2" W x 3 3/4" H x 6 1/2" D.

22N21366—Shpg. Wt. 10 lbs.....35.28

## UNIVERSITY SINGLE AND DUAL TWEETERS



Provides efficient and economical method of extending upper register to obtain high fidelity speaker response. Reproduces frequencies between 2000-15000 cps. Recommended for FM

or AM sets, transcription reproduction and broadcast studio monitoring. Easily wired. Requires high pass filter, 440. listed below.

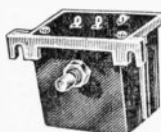
Model 4401, 6-watt single tweeter. Converts the speaker of the average radio or phono amplifier to a high fidelity system. Impedance 12 ohms. Size: 4 1/2" W x 2 3/8" H x 5" D.

22N21323—Model 4401, Single type. Wt. 4 lbs.....11.76

Model 4402, 12-watt, dual tweeter. For home and wired music systems, auditoriums, etc. Impedance 6 to 8 ohms. Size: 9 1/2" x 2 5/8" x 5".

22N21324—Model 4402, Dual type. Wt. 6 lbs.....23.52

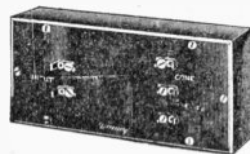
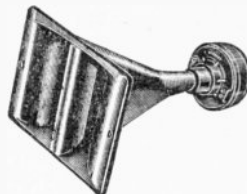
## UNIVERSITY HIGH PASS FILTER



Model 4405. For use with models 4401, 4402 and 4407. Makes possible connection of tweeters to the voice coil terminals of any P.M. or field excited speaker without creating an electrical unbalance. Includes HF volume control. Low frequency cutoff approximately 2,000 cycles.

Size: 3 1/2" x 2 1/4" x 2 1/2". 22N21328—Shpg. Wt. 2 lbs.....5.88

## DUAL TWEETER AND FILTER



Model 4408. Designed for wide range reproduction requiring cut-off as low as 600 cycles. Recommended for two and three-way speaker systems, concert halls, theatres and auditoriums. Features cobra horn of one piece aluminum casting flared to provide maximum vertical and horizontal dispersion; also has bakelite diaphragms, Alnico 5 magnets and aluminum voice coils. Response 600 to 15,000 cps. Impedance 16 ohms. Power 6 watts. Size 5 3/4" H x 7 3/8" W x 1 1/8" D.

22N21367—Shpg. Wt. 8 lbs.....16.17

Model 4409. Similar to above, 25 watt power.

22N21368 ..... 23.52

Model 4410. Crossover network for above. Aluminum housing, insures proper attenuation rate at 600 cycle crossover.

22N21369—Shpg. Wt. 4 lbs.....20.58



# HIGH FIDELITY SPEAKERS & CABINETS

## ALTEC LANSING HI-FI UNITS



### MODEL 605 SPEAKER CABINET

Beautiful, hand-rubbed hardwood speaker enclosures that provide balanced, frequency response. Simple, yet attractive style harmonizes with any fine furniture and adds a note of extra beauty to the room. A truly substantial fine quality cabinet with attractive metal grille and matching cloth. Excellently designed and constructed to house either 12" or 15" speakers. All joints are glued and reinforced with screws to eliminate the danger of vibrations and reverberations. The interior is

lined with moisture resistant, sound absorbing material to prevent side reflections. Overall dimensions: 38" high x 30" wide x 16" deep. Shipping Weight 149 lbs. Model 605A for 15" speaker; Model 605B for 12" speaker.

22N21340.....Model 605A in Walnut  
22N21341.....Model 605A in Mahogany  
22N21342.....Model 605B in Walnut  
22N21343.....Model 605B in Mahogany

ANY TYPE, EACH.....**135.00**

### MULTICELL DIA-CONE SPEAKER

Model 603E. Large 15" cone for true bass reproduction. Metal diaphragm for high frequency coverage. Multicellular horn gives smooth distribution over a wide angle - 60° horizontally, 40° vertically. Dia-cone principle reproduces frequencies over 2000 cycles from an aluminum diaphragm secured directly to a 3" voice coil form. Voice coil impedance 8 ohms. Has large Alnico V permanent magnet. Power rating 25 watts. 7" deep.

22N19395-Shpg. Wt. 21 lbs...**63.00**

## HIGH QUALITY SPEAKERS

### 15" CINAUDAGRAPH CINAXIAL

CIN-15B. Economical and space-saving 15-watt speaker that gives fine reproduction from 55 to 15,000 cps. Designed for FM, television and all uses requiring finest reproduction over the widest frequency range. Easily connected to all home receivers having an 8-ohm amplifier output. Has a 5" high frequency unit. Bridging network is built-in; no controls are required. Alnico V magnets. Shipping Weight: 15 pounds.

22N19381.....**27.93**

CIN-12A. Similar to above but 12" size with 3" high frequency unit. 10 watts. Shpg. Wt. 10 lbs.

22N19364.....16.17

### GE S1201D SPEAKER

A deluxe 12" Alnico V PM unit recommended for use with public address systems and replacement in home radios. Rated at 25 watts undistorted power. The latest speaker design developments have been incorporated into this model to assure brilliant frequency response over an extended range. We have supplied thousands of these fine speakers for custom installations. 8-ohm, aluminum base voice coil; molded cone. Equipped with universal transformer mountings. Plated finish.

22N19352-Shpg. Wt. 9 lbs....**17.35**

### 8" RMC HYPER-MAG

A low cost replacement speaker of unusual quality. Has a center dome parabolic projector for broad high frequency response. Uses a new magnet designed for linear response from 100 to 10,000 cps. Input impedance 4-5 ohms. Undistorted power rating 12-15 watts. Overall dimensions: 8 1/8" diameter x 3 3/8" deep.

22N19399-Shpg. Wt. 3 lbs.....**8.35**

### MODEL 600B DIA-CONE

Economically-priced, high quality 12" speaker using the Dia-tone principle of high frequency reproduction from a metal diaphragm. Highly efficient...light weight...small space requirement. Ideal for home use, sound reinforcement systems and industrial applications. 3" voice coil, with an impedance of 8 ohms, made from edge-wound flat aluminum wire. Power rating 20 watts. Depth 5 1/4".

22N19394-Shpg. Wt. 15 lbs.....**38.00**

### MODEL 400B DIA-CONE

Lower priced 8" speaker of exceptionally high efficiency, especially desirable when used with an amplifier that delivers only 5-6 watts. Small size, lightweight, using the Dia-cone principle of high frequency reproduction from a metal diaphragm. Ideally suited for portable, compact uses requiring high output and top quality. Voice coil impedance 8 ohms; power rating 12 watts. 3 5/8" deep.

22N19393-Shpg. Wt. 7 lbs.....**18.00**

### 15" DUPLEX SPEAKER

Model 604B. This new, improved two-way speaker system is the standard professional unit in the sound industry wherever top quality is demanded. Large 15" low frequency speaker plus incomparable high frequency multicell unit covers from 30 to 16,000 cps, with essentially flat response. Delivers 60° horizontal and 40° vertical smooth distribution. Includes a matching 1000-cycle cross-over network with adjustable high frequency controls for perfect crossover between low and high frequency units. Network impedance 16 ohms; required amplifier output impedance 8-16 ohms. Power rating 30 watts. Speaker depth 11 1/8". Shipping Weight 48 lbs.

22N19392-With Crossover Network...**143.00**

### NEW! UNIVERSITY HI-FI COAXIAL

Model 6201. A leading 12" coaxial speaker capable of the finest life-like performance, with response from 50 to 15,000 cycles. It handles the undistorted output of amplifiers up to 20 watts and is recommended for every high quality application in home radio, phonograph, FM and TV equipment. The unit includes a low frequency section which incorporates a seamless molded cone with a 2" voice coil wound on a duraluminum suspension. The shallow, curved shape of the cone eliminates interference to the tweeter and provides clean, low frequency reproduction. An Alnico V magnet is used on both low and high frequency sections. A dividing network and high frequency tone controls are included in an external housing. Adequate cable length is attached to the high frequency attenuator for panel mounting to permit proper balance of lows and highs. Input impedance 6-10 ohms, Depth 7 3/4".

22N19382-Shpg. Wt. 8 lbs.....**39.98**

### RCA HI-FI 15" COAXIAL

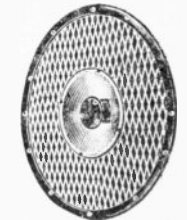
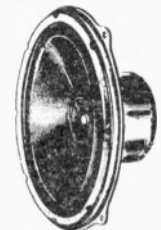
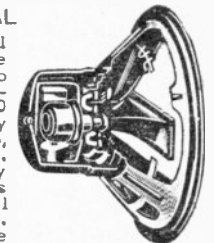
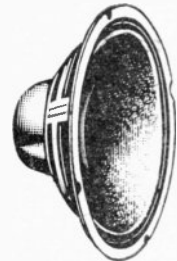
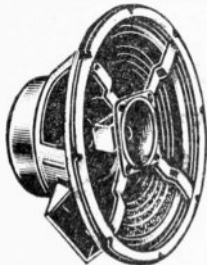
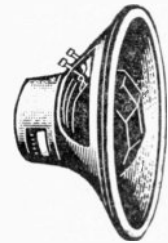
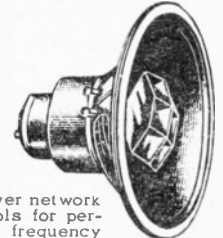
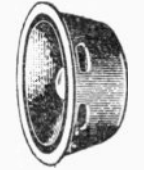
Model 515S1. A heavy duty, highly efficient unit that gives two-speaker performance. Excellent for custom or professional installations requiring high fidelity at moderate cost. Two coaxially mounted units, one for low frequencies and one for high frequencies. Frequency response essentially flat from 40 to 12,000 cps. Power rating 25 watts. Input impedance 16 ohms. Uses 2 lb. Alnico V magnet.

22N19383-Shpg. Wt. 18 lbs...**30.87**

### HIGH FREQUENCY ADAPTOR

Masco Hi-Fi unit provides a simple and economical method of obtaining real high frequency response from your present speaker. No filter network or additional space required. Unit actually becomes part of the cone speaker. Response over 15,000 cycles. Impedance (units in series) 6-8 ohms. Power rating 8 watts. 5 1/4" diameter x 2 5/8" deep. Supplied complete with mounting screen for 12" speaker.

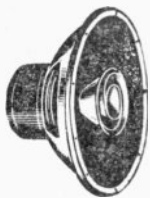
22N19384-Shpg. Wt. 3 lbs.....**14.41**





# TRU-SONIC HI-FI SPEAKERS & ENCLOSURES

## 15" SUPER COSPIRAL SPEAKER



Model 102FR. 20 watts power handling capacity. Seamless, molded curvilinear cone for lowest frequencies, and Silver Spiral differential diffuser give more extended range and greater efficiency than any single voice coil speaker. Reproducing range 30 to 14,000 cycles; flat  $\pm 5$  db from 50 to 9500 cps. Uses 4-lb powerful Alnico V magnet. Suitable for outputs from 8-16 ohms nominal impedance. Depth behind mounting panel,  $8\frac{1}{2}$ ". Shipping Wt. 30 lbs.

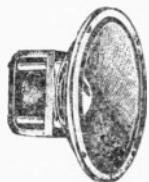
22N21386..... **52.92**

## 12" COSPIRAL SPEAKER

Model P22FR. Similar construction to above but  $2\frac{1}{2}$ -lb magnet and frequency range from 40-14,000 cps; power capacity 15 watts.

22N21313—Shipping Weight 28 lbs..... **41.16**

## 10" HI-FI SPEAKER



Model 100. An economy model high fidelity unit for limited space installations. Full range frequency response from 70 to 8000 cps  $\pm 5$  db; useable range 50 to 11,000 cps. Input impedance 6-12 ohms; power capacity 8 watts. Alnico V magnet weighs  $1\frac{1}{2}$  lbs. Depth behind mounting panel, 6".

22N21388—Shpg. Wt. 14 lbs... **29.40**

## STEPHENS 2-WAY SPEAKER SYSTEM

For those who demand a superb hi-fi speaker installation. Rich, resonant bass notes with crisp, vibrant highs to produce a smooth, extended response from 35 to 14,000 cps  $\pm 5$  db. This is a complete wide range speaker system including an 800-cycle crossover network. Model P52LX low frequency driver with 4.2-lb Alnico V magnet, Model P-15 high frequency unit, and 814H 4 cell H.F. Horn. Input impedance is 10 to 20 ohms; input power 20 watts. 18" wide, 27" high,  $14\frac{1}{2}$ " deep. Can be used for conversion of existing speaker and radio installations, or as a new job with the deluxe cabinets shown elsewhere on this page.

22N21375—Model 409. Shipping Weight 50 lbs..... **117.60**

Model 414. Two-Way Speaker System described above in Model 511 modern mahogany cabinet (See opposite column).

22N21376—Shipping Weight 120 lbs.....194.04

Model 412. As above in bleached mahogany cabinet.

22N21377.....194.04

Model 413. As above but in Model 516 modern low-boy mahogany cabinet (see opposite column).

22N21378—Shipping Weight 130 lbs.....205.80

Model 410. As above but in Model 515 modern low-boy bleached mahogany cabinet.

22N21379.....205.80

22N21380—814-H 4-cell hi F horn. Shpg. Wt. 12 lbs.....18.37

P-15 HF Driver. 20 watts.  $1\frac{1}{4}$  lbs Alnico V magnet. Shipping Weight 15 lbs.

22N21310.....41.16

800X-2 800 cycle Crossover Network. Shpg. Wt. 10 lbs.

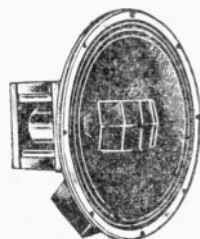
22N21381.....18.37

## 15" LOW FREQUENCY DRIVER

Model P52LX. Built to the most exacting standards of precision engineering, this Low Frequency driver unit is designed for use in separate two-way speaker systems. It employs a top quality 4 pound Alnico V permanent magnet to insure peak efficiency. Cone resonance 55 cycles. Characteristics: 20 watt power capacity, input impedance 16 ohms. Shipping Weight 30 lbs.

22N21312—15 1/8" x 8 1/8"..... **47.04**

## 15" COAXIAL SPEAKER

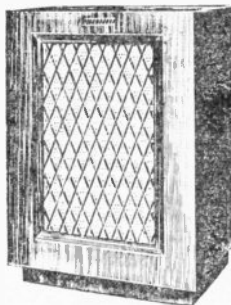


Model 106AX. Designed for highest quality custom installations, monitoring for broadcast stations, and motion picture reproduction. Recognized as the standard of excellence by which other speakers are judged. Combines in a single assembly a new low resonant, low frequency unit of the cone type, and a high frequency reproducer of the multicellular type with a complementary crossover network. Frequency response 35 to 12,000 cps.  $\pm 5$  db; useable range 20 to 15,000 cps. Handles power input of 20 watts; 1200-cycle crossover frequency. Wide angle high frequency dispersion  $400 \times 800$ . Input impedance 16 ohms. The speaker also features

a  $6\frac{1}{2}$ -lb Alnico V magnet, Baffle opening,  $13\frac{1}{2}$ "; depth behind the mounting panel,  $10\frac{1}{2}$ ".

22N21387—Shipping Weight 35 lbs..... **105.84**

## REFLEX CABINETS



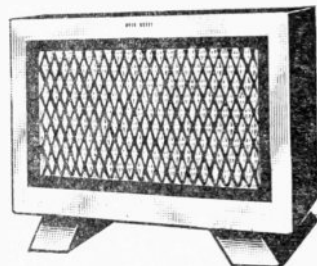
Model 511. Here is a truly fine modern mahogany cabinet constructed of the finest veneers by master craftsmen and hand-rubbed to a smooth, rich finish. Beautiful, simple design blends with the best interior decorations. Acoustically perfect for 15" speakers; uses the bass-phase-inverted reflex method of low end reinforcement. The attractive grille is polished, vibration-proof brass, lacquered for extra protection. Accommodates the two-way speaker system and coaxial speakers described on this page. Dimensions: 24" wide, 32" high, 17" deep. Weight 70 lbs.

22N21383..... **76.44**

Model 510. Same as above except bleached mahogany finish. 22N21382.....76.44

## MODERN "LOW-BOY" CABINETS

Model 516. Mahogany. Functional beauty combined with precise acoustic design mark this striking speaker cabinet as an outstanding example of effective styling. Two sturdy offset base supports raise the major portion of the cabinet to create an effect of classic simplicity. Fine, hand-rubbed mahogany veneers are used throughout. A deluxe custom quality furniture piece that harmonizes with

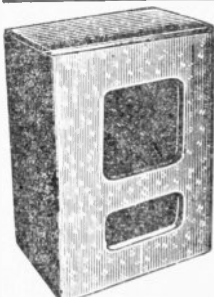


the decorative schemes of the finest homes and professional studios. The interior has been designed on the true bass reflex principle of reproduction. It brings out the full capacity of high fidelity speaker systems. Accommodates the two-way speaker system described on this page. Dimensions: 36" wide, 29" high, 18" deep.

22N21385—Shipping Weight 80 lbs..... **88.20**

Model 515. Same as above except bleached mahogany finish. 22N21384.....88.20

## 12" AND 15" SPEAKER BAFFLES



Finished and unfinished baffles for high fidelity speakers. Careful acoustic design assures excellent performance. Constructed of  $\frac{1}{2}$ " plywood, with speaker mounting board, screws, tacks and special grille cloth. Dimensions of 12" cabinet: 23" x 33 1/8" x 12 5/8"; shpg. wt. 30 lbs. 15" size: 25 x 33 1/4" x 13 5/8"; shpg. wt. 35 lbs.

22N22067—12" Unfinished.. **16.25**

22N22068—12" Tan Leatherette..19.25

22N22065—15" Unfinished.....19.25

22N22066—15" Tan Leatherette..22.50

## JENSEN BASS REFLEX ENCLOSURES

Economical, yet durably constructed of impregnated composition material. Finished in hammered brown lacquer. Designed especially for Jensen speakers but suitable for other makes.

B151. For 15" speaker. 30" x 27" x 12 1/4".

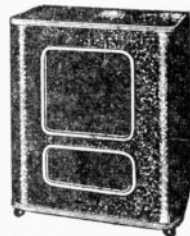
22N18998—Shpg. Wt. 43 lbs... **34.47**

B121. For 12" speaker. 28" x 22" x 11 7/8".

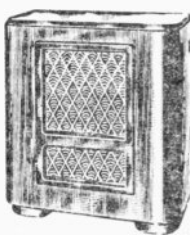
22N18996—Shpg. Wt. 34 lbs.....29.08

B81. For 8" speaker. 22" x 18 x 9".

22N18994—Shpg. Wt. 24 lbs.....20.58



## JENSEN DELUXE ENCLOSURES



Handsome, beautifully finished bass reflex cabinets constructed of selected woods and hand-rubbed to a lustrous walnut finish. Distinctive styling, combined with perfect acoustical design make these fine enclosures ideal for home or professional installations. Has contrasting bronze wire grille. Accommodates Jensen or other high fidelity speakers listed in this catalog.

D151. For 15" speaker. 31" x 27" x 13 3/8".

22N18946—Shpg. Wt. 50 lbs... **50.64**

D121. For 12" speaker.

22N18945—Same Size & Weight....50.64

MAKE YOUR OWN CUSTOM INSTALLATIONS WITH THESE UNITS



# JENSEN SPEAKERS



## STANDARD PM SPEAKERS

A complete line of replacements for radio receivers, low power public address systems and intercommunication equipment. Highly efficient Alnico V magnets insure maximum life. All models supplied less transformers. For a complete listing of output transformers to use with these speakers, look below.

### P. M. SPEAKERS

Stock No.	Model	Size	Watts	V. C. Ohms	Output Trans.	Each
22N18960	P 4-X	4"	2.0	3-4	E	2.44
22N18952	P 5-X	5"	2.5	45	.....	2.91
22N18968	P 5-X	5"	2.5	3-4	D	2.53
22N19016	P525-V	5 1/4"	4.0	3-4	D	3.23
22N18969	P6-W	6"	3.5	3-4	E	3.32
22N19017	P7-U	7"	5.5	3-4	D	4.67
22N18970	P8-U	8"	6.0	3-4	D	4.91
22N19018	P8-V	8"	5.0	3-4	D	4.29
22N19076	P8-St	8"	8.0	6-8	C	7.60
22N19019	P69-V	6x9"	5.0	3-4	D	4.65
22N19020	P69-T	6x9"	7.5	3-4	.....	5.64
22N18971	P10-T	10"	8.0	6-8	C	6.26
22N18972	P12-T	12"	9.0	6-8	C	6.97

†Extra heavy magnet.

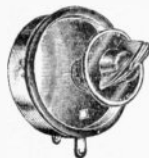
## UNIVERSAL OUTPUT TRANSFORMERS

Universal tube transformers match V.C. to 4500, 7000, 10,000 and 14,000 ohms. Universal line transformers match V.C. to 500, 1000, 1500 and 2000 ohm lines. All have 6-8 ohm secondaries except last four which are 3-4 ohms.

No.	JENSEN	Application	Watts	Term.	Type	Each
22N19026	ZX-1007*	Univ. Tube	25	Pintip	A	5.73
22N19027	ZY-2005	Univ. Line	25	Pintip	A	5.73
22N19025	ZX-1005*	Univ. Tube	16	Pintip	B	4.23
22N19024	ZY-2003	Univ. Line	16	Pintip	B	4.23
22N18965	ZX-1002*	Univ. Tube	10	Pintip	C	2.94
22N18964	ZY-2002	Univ. Line	10	Pintip	C	2.94
22N19031	ZP-1024*	Univ. Tube	6 1/2	Solder lug	D	1.53
22N19028	ZY-4002	Univ. Line	3 1/2	Pintip	D	1.97
22N19029	ZP-1023	Univ. Tube	3 1/2	Solder lug	E	1.26
22N19030	ZL-2021	Univ. Line	6 1/2	Solder lug	E	1.26

\*All primary windings center tapped.

## VOLUME LEVEL CONTROLS



L-pad type controls that are highly satisfactory for controlling volume in speaker circuits. All models come complete with pointer knob and escutcheon.

Model ST-276. 6-8 ohms, 5-watt.	
22N9015—Shpg. wt. 1 lb.....	<b>1.29</b>
Model ST-760. 3-4 ohms, 5-watt	
22N9016—Shpg. wt. 1 lb.....	<b>1.29</b>
Model ST-411. 8 ohms, 15-watt.	
22N9018—Shpg. wt. 1 lb.....	<b>1.76</b>

# NEW JENSEN HI-FI SPEAKERS

## 15" HI-FI COAX SPEAKER

### With New Wide-Angle Acoustic Lens

Model H-510. Unsurpassed for the most critical applications including professional sound use, broadcast monitoring and home entertainment systems. Wide-angle acoustic lens gives clean, realistic and essentially constant reproduction of highs over entire room. New Annular Diaphragm low-frequency, radiator gives increased smoothness of response. Alnico V PM magnetic structure. Impedance 16 ohms. Power rating 30 watts. Integral frequency division system provided. (See listing of adjustable H-F control network). Depth 9 3/4"; baffle opening 13 3/4". Shipping weight 25 lbs.

22N19038—List \$135.00..... 79.38

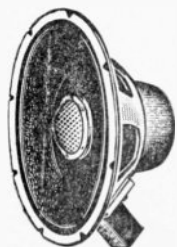
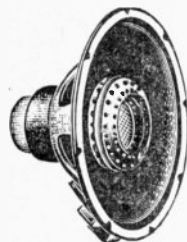
## 15" HI-FI COAXIALS

Model K-410. This new high efficiency speaker is recommended for custom installations and professional application requiring best reproduction quality. Exceptionally smooth, wide range response from low frequency radiator and new high frequency unit. Input impedance 16 ohms; rated at 25 watts maximum. Integral frequency division system provided (for adjustable H.F. control network see opposite column). Depth 9"; baffle opening 13 3/4". Shpg. Wt. 22 lbs.

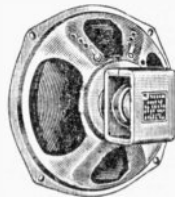
22N19039—List \$94.25..... 55.42

Model K-310. Similar to above except rated at 20 W. maximum. Shpg. Wt. 20 lbs.

22N19040—List \$56.25..... 33.07



## PM CONCERT SPEAKERS



Use in all types of radios, phonographs, public address equipment and the Jensen Bass Reflex enclosures and cabinets. All models less output transformer. Transformers listed in opposite column.

No.	Model	Size	Watts	V.C.	Trans.	Wt.	Each
22N19075	P 8-R	8"	9	6-8	C	4 lbs.	8.97
22N19073	P10-R	10"	10	6-8	B	5 lbs.	10.88
22N19077	P12-R	12"	12	6-8	B	7 lbs.	11.47
22N19071	P12-Q	12"	13	8	B	9 lbs.	16.32
22N19069	P12-N	12"	15	8	A	16 lbs.	28.81
22N19078	P15-Q	15"	14	8	B	15 lbs.	21.76
22N19079	P15-N	15"	20	8	A	17 lbs.	32.34

## EXTENDED RANGE SPEAKERS

ALNICO V PM speakers providing high fidelity performance up to 10,000 c.p.s. designed for monitoring in broadcast stations for replacement and modernizing units for F.M. and TV receivers for radio-phonograph combination, etc. Less output transformers.

Stock No.	Model	Size	Watts	V.C.	Output trans.	Shpg. Wt.	Each
22N19021	P 5-TX	5"	4	3-4	E	3 1/2 lbs.	4.70
22N19035	P 6-TX	6"	5	3-4	D	4 lbs.	5.29
22N18948	P 8-SX	8"	7	6-8	C	5 lbs.	8.35
22N19000	P12-SX	12"	9	6-8	B	6 lbs.	10.88
22N19036	P12-QX	12"	12	8	B	7 lbs.	17.20
22N19037	P15-QX	15"	14	8	B	9 lbs.	21.76
22N18999	P15-NX	15"	18	8	A	10 lbs.	33.66

## "SPEECH-MASTER"

Model AP-10. Desk type PM speaker employs Peri-Dynamic principle. For desk or wall mtg. Has "tilt" adjustment, sturdy base. Dustproof, fully enclosed. Internal bracket for 1/2 x 1/4" transformer included. Handsome gray hammered finish with satin chrome trim. Complete with base, swivel bracket plus 36" cord; 4 ohm voice coil; will handle 5 watts. Height 6 3/4"; Diameter 5"; Depth 5"

22N18929—Shpg. wt. 6 lbs..... **9.70**

Model AP-11. Similar to above, but less base and swivel bracket. Mounts in 4-27/64" cutout

22N18930—Shpg. wt. 4 lbs..... **8.17**



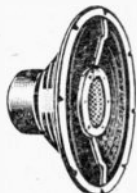
## 12" HI-FI COAXIAL

Model K-210. Compact and low cost speaker for modernizing radio receivers, phonographs and TV sets. Provides high fidelity reproduction of high and low frequencies. Equipped with built-in bridging type frequency division system. Impedance 8 ohms; 12 watts.

22N19042..... Shpg. Wt. 16 lbs... List 33.40... 19.64

"L" type variable control for above, with escutcheon and bar knob.

22N19043..... 2.85



## A-110 CONTROL NETWORK

Provides adjustable level and high frequency range controls for Models H-510, K-410 and K-310 speakers. Mounts directly on speaker housing with plug-in connections. Impedance 16 ohms. Complete with plug, cables, knobs and screws.

22N19044 Shpg Wt. 5 lbs. List 26.50 .. 15.58



## Impedance-Adjusting Transformers

Designed to provide two alternate input impedances for Models H-510, K-410 and K-310 speakers. Plugs into socket on speaker terminal panel. Switch selects imp. Model T-101, 4 and 8 ohms.

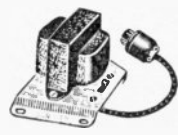
22N19046 .Shpg. Wt. 2 lbs..... 7.06

Model T-102. 500-600 and 250 ohms.

22N19047..... 7.06

Model T-103. 10,000 & 5000 ohms C.T.

22N19048..... 7.06



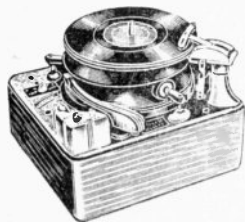






# AUTOMATIC RECORD CHANGERS

## NEW 3-SPEED MARKEL CHANGER



- Plays Both Sides
- Plays All Speeds

Model 75. The changer that does everything that the most expensive changers ever did—and more! Automatically plays all speeds—33-1/3, 45, 78 RPM; all sizes—7", 10", 12" records...PLUS BOTH SIDES of all 10" and 12" records in sequence and automatically...without turning them over. Nine hours of continuous music without touching the record changer! Handles twelve 12" and twelve 10" 33-1/3 RPM records, twelve 10" or ten 12" 78 RPM records on one or both sides. Also plays stack of fifteen 7" 33-1/3, or ten 45 RPM or twelve 78 RPM records on one side, automatically. Unit is equipped with two interchangeable playing heads and semi-permanent needles. Automatic shut-off on last record of stack of 10 or 12" records. Improved push-off post eliminates chipping or cracking of records. Operates on 115 V., 60 cycles AC. Dimensions: 15 1/4 x 14 1/4 x 10" high, 7" above and 3" below mtg. plate. Shipping Weight: 23 lbs.

34N22463—List Price \$109.50.....Net.....**69.76**  
Same as above except without wood finish cabinet base. List Price \$99.50  
34N22464.....Net..... 63.39

## VM 3-SPEED RECORD CHANGERS



Model 406GE. Plays all sizes and speeds automatically. This changer will do any of the following: Play 12 RCA 45 RPM or Columbia 33-1/3 RPM 7" records; 10" or 12" 33-1/3 RPM separately or intermixed; 10" or 12" 78 RPM separately or intermixed, and all automatically. Shuts off after last record. Uses a plug-in type arm supplied complete with two GE reluctance cartridges and shells. 12 spiders also included to adapt the oversized hole on the RCA 45 RPM records so they can be played automatically. A GE pre-amp is required. Size: 13-3/16 W. x 12 1/4 L. x 7 1/4" H. Shpg. Wt: 18 lbs.

34N22468—List Price \$63.15.....Net.....**37.14**

## VM MODEL 4060GE CHANGER

Same as the 406GE described above except mounted on an attractive base 15x15x10". Wt: 19 lbs.

34N22469—List Price \$66.15.....Net.....**38.91**

## VM MODEL 406 CHANGER

Similar to 406GE except with standard arm and crystal cartridge instead of reluctance type. No pre-amp required. Dimensions: 13-3/16" W. x 12 1/4" L. x 7 1/4" H.

34N22470—List Price \$59.50.....Net.....**33.22**

## VM MODEL 4060 CHANGER

Same as 406 except mounted on attractively finished base. Dimensions: 15x15x10".

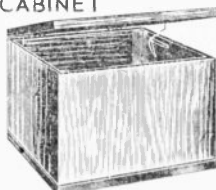
34N22471—List Price \$59.50.....Net.....**34.99**

## 45 RPM RECORD SPIDERS

Adapts center hole for standard size spindles.  
34N201.....10 for.....**29c**

## RECORD CHANGER CABINET

This sturdy record cabinet makes a handsome addition to any room. Constructed of beautiful straight-grained walnut veneers. Panel will fit Webster 356, 256 and 156. Twin hinge top. Satin-smooth finish.  
22N19425—Shpg. Wt. 12 Lbs...14.95  
As above with blank panel  
22N19426.....**14.95**



SEE YELLOW SECTION FOR  
PORTABLE CARRYING CASES

## WEBSTER-CHICAGO 3-SPEED CHANGER

Model 356-27. Plays all makes, all sizes and all speed records—automatically. Three speed switch makes the changeover to 78, 45 and 33-1/3 RPM, fast and effortless. Designed for use with GE reluctance cartridges. Lightweight arm makes it unnecessary to adjust weight when shifting from standard to LP records. After last record, pickup arm returns to rest except on 7" records which keep repeating. Shock mounted motor assembly assures smooth, quiet operation at any speed. Supplied with 10 spiders for insertion in center of 45 RPM records. Dimensions of motor board: 14 1/4 x 14 1/4". Height above plate 5-5/8"; below the plate, 2 1/4". Unit requires the GE pre-amp and cartridges listed below. Shipping Weight: 18 lbs.



34N22465—List Price \$43.00..Less Cartridges—Net.**27.31**  
GE long playing cartridge for above changer.  
34N13485—List Price \$9.95 With Needle.....Net.....**5.85**  
Same as above, but for standard 78 RPM records.  
34N13500—List Price \$9.95. With Needle.....Net.....**5.85**  
GE self-powered pre-amp. Shpg. Wt. 2 lbs.  
34N13473—List Price \$15.95. With Tubes.....Net.....**9.38**  
Same as above, less rectifier.  
34N13465—List Price \$9.90.....Net.....**5.82**

NOTE: For Full Descriptions On Above See Page 48.

## WEBSTER-CHICAGO 3-SPEED CHANGER

Model 356-1. Similar to Webster model 356-27 except arm is supplied with standard crystal cartridge with tandem needle. No pre-amp required. Shpg. Wt. 18 lbs.

34N22466—List Price \$51.75.....Net.....**32.91**

## WEBSTER-CHICAGO 3-SPEED CHANGER

Model 346-1. Same specifications as Model 356-1 except measures 12x12 1/4". Height above plate 5-3/32"; below the plate, 2-5/32". Shipping Weight: 15 lbs.

34N22467—List Price \$46.50.....Net.....**29.62**

## NEW WEBSTER-CHICAGO 2-SPEED CHANGER



Model 77-1. The "Duo-Seven" is an entirely new record changer designed to play 45 or 33-1/3 RPM 7" records automatically. Simple in design, yet incorporates such features as velocity trip, 3-second change cycle, smooth, controlled tone action and no record slippage. The physical dimensions of this model changer makes it interchangeable with other current 45 RPM record changers, including exact duplication of mounting holes. Mounting dimensions of the base plate: 10-1/8 x 7-1/8". Shpg. Wt: 11 lbs.

34N22603—List Price \$27.50.....Net.....**17.52**

## WEBSTER SINGLE SPEED CHANGER

Model 156-27. Provides automatic playing of ten 12" or twelve 10" 78 RPM records. Shuts off automatically after the last record. Home recordings or "inside out" records up to 12" size can be played manually. Smooth running, heavy duty, 4-pole motor operates on 110 volts, 60 cycles AC. Supplied with mounting template, instruction manual and hardware, for mounting on 5/8" board. Dimensions of motorboard: 14x14". Height above plate 6 1/4"; below plate, 2 1/4". Complete with GE cartridge and needle. Only pre-amp required. Shipping Weight 18 lbs.

34N22502—List Price \$44.50.....Net.....**26.58**

## WEBSTER SINGLE SPEED CHANGER

Model 156-1. Same as Model 156-27 described above except with standard crystal pickup. No pre-amp required. Shipping Weight: 18 lbs.

34N22500—List Price \$38.50.....Net.....**24.52**

## WEBSTER SINGLE SPEED CHANGER

Model 146-1. Similar to Model 156-1 except does not shut off automatically. Size: 12x12", 5-3/32" above plate; 2-5/32" below plate. Allow additional 1/2" front, side and rear for 12" record clearance. Shpg. Wt: 15 lbs.

34N22501—List Price \$34.75.....Net.....**22.12**

## METAL BASES FOR WEBSTER CHANGERS

Brown wrinkle finish. Mounting brackets welded in place. Felt feet. Shipping Weight: 5 lbs.

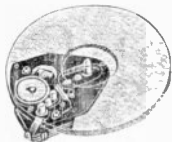
34N22355—For Models 146, 246, 346.....**3.12**

34N22356—For Models 56, 156, 256 & 356.....3.44



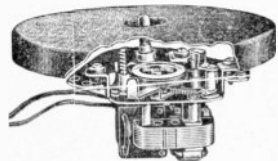
# PHONO MOTORS & RECORD ACCESSORIES

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



**GI Model TS.** Compact, triple-speed motor with powerful 2-pole, rim drive. Suitable for every installation requiring dependable performance at low cost. Light weight construction; smooth, quiet operation. Even running at all speeds. Fan cooling permits use in partially closed cabinets. Employs two identical Neoprene belts for 45 and 33 1/3 RPM speeds. 78 RPM speed obtained directly from rotor shaft. Speed regulated by simple external lever. Size: 3 1/8" L x 2 1/4" W x 2 9/16" D below mounting plate. Complies with Underwriters Laboratory requirements. Complete with turntable, mounting plate and speed indicator dial ready for installation. 115 V., 60-cycle AC.

34N22457—Shpg. wt. 4 lbs ..... List Price 10.85. **6.51**



## ALLIANCE 3-SPEED MOTOR

Plays 33 1/3, 45, and 78 RPM records. Turntable shaft equipped with 1 1/2" removable center disk to accommodate new RCA 45 RPM records. Speed change control permits instantaneous engagement of proper idler for desired speed. Quiet, dependable operation assured by rubber-shock-mounted friction type motor.

Mounting centers 4 1/2" x 3 3/8". Depth below base mtg. plate 2 1/8". 110 V., 60-cycle AC.

34N22458—Shpg. wt. 3 1/2 lbs ..... List Price 10.95. **6.44**

## 3-SPEED PHONO-RECORDER ASSEMBLY

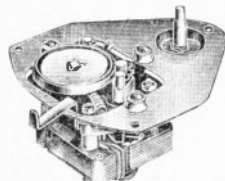


**Model GI-R85-L.** Employs dual purpose pickup cartridge and external speed change adjustment for 78 RPM and 33 1/3 LP records. Special spring furnished for changing 33 1/3 RPM to 45 RPM. Cuts record up to 10" to 160 lines/inch and plays records up to 12". Convenient depth of cut adjustment. Dynamically balanced 4-pole motor. Compensating switch operated by speed change dial. Size: 15" W x 11 1/2" front to back; 2 3/4" H above base plate; 3/8" below lower edge of base plate. 115 V., 60-cycle AC.

35N22459—Shpg. wt. 17 lbs ..... List Price 53.50. **32.10**

## DUAL SPEED PHONO MOTORS

### 78 & 33 1/3 RPM'S



Compact, low-cost dual speed rim-drive units with external lever type speed change control. Same size as present single speed motors.

**Model DM.** 78 and 33 1/3 RPM two-pole motor with 9" turntable and mounting plate. New stable rubber belt rim drive. For 110 volts, 60 cycles AC. Shipping weight 4 lbs.

34N22571—List Price 10.75 ..... **6.45**

**Model DR.** Deluxe 78 and 33 1/3 RPM shielded two-pole phono motor with 10" turntable. 2-diam. motor shaft rim drive.

34N22572—Shipping weight 6 1/2 lbs ..... List Price 18.50 **11.10**

### 45 & 33 1/3 RPM'S

**GI Model DS.** Compact, rim drive, 2-pole motor. 45 RPM speed obtained from rotor shaft. Employs Neoprene belt for 33 1/3 RPM speed. Simple external lever controls speed. Dimensions: 3 1/8" L x 2 1/4" W x 2 9/16" D below mounting plate. Complete with turntable and mtg. plate ready for installation. 115 V., 60-cycle AC.

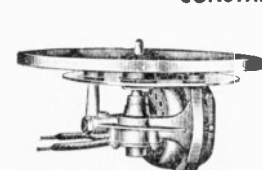
34N22455—Shpg. wt. 4 lbs ..... List Price 10.75. **6.45**

## DUAL SPEED 45-33 1/3 RPM PHONO MOTOR

**GI Model DV.** Deluxe rim drive, 2-pole motor with a simple and positive mechanism for shifting from one speed to the other. Speed change accomplished by means of an external push-pull lever. Special mechanism raises and lowers entire idler assembly, disengages the idler wheel from the 2-diameter motor shaft and moves idler wheel from one diameter to the other. Size: 6" L x 5 5/8" W x 2 5/8" D below mounting plate. Complete with 10" turntable and mtg. plate. 115-volt, 60-cycle AC.

34N22456—Shpg. wt. 6 1/2 lbs. .... List Price 18.50. **11.10**

## CONSTANT SPEED MOTOR



**Model CX.** Gear Drive. 78 RPM. Self-starting induction type. Fully enclosed helical cut gears in oil. Fan cooled. 4 1/4 x 4 1/8 x 3 1/8" deep. For 110 V., 60 cycles. 10" turntable.

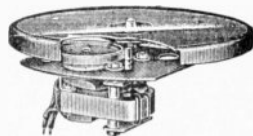
34N22525—Wt. 10 lbs. .... List Price 14.25 **8.55**

**Model CX 3.** 33 1/3 RPM. Wt. 10 lbs.

34N22529—List 16.00 ..... **9.60**

## RIM DRIVEN MOTOR

**GI Model LX.** Insulation between motor and mounting plate, and motor and turntable for quiet operation. Oil-less bronze bearings. Two-pole high speed motor. 78 RPM, 110 V. 60 cycles AC only. 9" T.T. Shpg. wt. 5 lbs.



34N22531—List Price 6.80. **4.08**

**Model LX3.** Two-pole 33 1/3 RPM motor with 9" turntable.

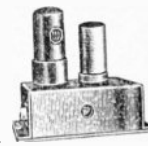
34N22573—Shipping weight 5 lbs. .... List Price 8.00 **4.80**

**Model LX45.** 45 RPM. Rim drive, 2-pole motor with 9" turntable.

34N22454—Shipping weight 4 lbs ..... List Price 8.00 **4.80**

## PHONO OSCILLATOR

**Elmco Model 110.** For use with all types of phonos. Compact, well built unit. Tunes from 550 to 1200 KC. Completely wired and ready for use. Attractive grey wrinkle finish. Supplied complete with phono-jack, 117N7 tube, antenna hank and operating instructions. For 110-volt AC-DC operation.



34N22460—List Price 9.95 ..... **5.85**

## ICA RECORD PLAYER SWITCH

Used for quickly connecting record players, FM and Television attachments into the audio amplifier of radio receivers. Provides change over from radio to record players without introducing hum. Cuts out radio on phono position.



9N12699—Shpg. wt. 1 lb ..... **1.32**

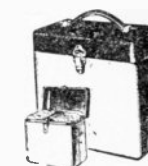
## 3-SPEED STROBOSCOPE

Easily and accurately checks turntable speed of 33 1/3, 45, and 78 RPM phono motors. For 50 and 60 cycle.

34N2200 ..... **15c**

## LYRIC RECORD CARRYING CASE

Stores fifty ten-inch records safely and conveniently. Smooth, rounded corners, streamlined design with welded seams protect your records from scratches, dust and warpage. Extra strong steel and aircraft aluminum combined in construction to form a very light and durable case. Handy indexing system uses numbered tabs and dividers. Sturdy snap-lock fastener, rubber cushions and leather carrying handle. Finished in two-tone brown ripple enamel. Shpg. wt. 7 lbs.



34N21885—List Price 6.50 ..... **4.33**

## RECORD CASE



A fitting companion to any record player or phonograph. Rugged case is finished in fire simulated leather. Brass fittings, plastic handle. Space for thirty 10-inch commercial or home records. With tab index. 11 1/4 x 11 1/4 x 4 1/2".

34N21873—Shpg. wt. 3 lbs ..... **2.49**

Each, lots of three ..... **2.25**

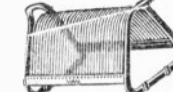
## HARMONY RECORD RACK

Holds up to fifty 10 or 12 in. records. Steel frame has sheathed wire dividers.



34N21874—Shpg. wt. 2 lbs ..... **1.50**

## LYRIC RECORD HOLDER



Why risk broken and scratched records when you can safely file fifty 10" or 12" records in only 12 inches of table or shelf space? Soft red felt covers the unbreakable steel base and separators, keeping your records in perfect condition. Handy indexing system included helps you locate any record in a few seconds. Handles are copper plated. A perfect gift for music lovers.

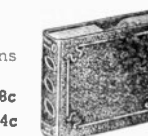
34N21894—List Price 3.50 ..... Your cost **2.33**

## STANDARD ALBUMS

Attractive maroon covers. 12 pockets. Opens flat. Index inside cover. Shpg. wt. 2 lbs.

34N21890—10-inch size ..... 78c

34N21891—12-inch size ..... 94c



## DELUXE RECORD ALBUMS



Padded brown swirl leatherette. 12 pockets. Opens flat. Gold embossed Gothic design on back. Beautiful in appearance, unusually sturdy construction. Shpg. wt. 3 lbs.

34N21888—10-inch size ..... **1.28**

34N21889—12-inch size ..... **1.33**

WE GUARANTEE SATISFACTION AT ALL TIMES

World Radio History



# PHONO PICKUPS - ARMS - CARTRIDGES - PREAMPS

## SHURE CRYSTAL PICKUPS



### STANDARD AND MICROGROOVE

**Model 901D.** For use with standard and microgroove recordings. Has knob for turning cartridge to either LP or standard position. Excellent reproduction of new wide-range high fidelity pressings. "Vertical Drive" cartridge makes possible true tracking of both standard and fine-groove records with a needle force of only 7 grams. Output level at 33 1/3 RPM is 1.0 V.; at 45 RPM .85 V.; at 78 RPM 1.1 V. Frequency response to 6,000 cps. Die-cast aluminum arm scientifically curved for best tracking angle. Equipped with .0027" Osmium and .001" Sapphire replaceable needles. Shpg. wt. 12 oz.

**34N13511**—List Price 16.25 ..... Each **9.55**

**(A) Model 901A.** For standard 78 RPM recordings. Same "Vertical Drive" principle as above. Tracks with a force of only 7 grams. Frequency response to 6,500 cps. Output level 1.1 V. Constructed of diecast aluminum, scientifically curved for best tracking angle. Sapphire replaceable needle.

**34N13510**—Shpg. wt. 12 oz..... List Price 11.75 **6.91**

**(A) Model 901MG.** For use with 33 1/3 and 45 RPM fine-groove recordings. Frequency response to 10,000 cps. Equipped with .001" Sapphire replaceable needle. Needle pressure: 5 gms. Output level 1.0 Volts. Vertical drive cartridge.

**34N13509**—Shpg. wt. 12 oz..... List Price 12.75 **7.50**



**(B) Model 900B.** Muted Stylus Type for home or coin phonos. Overcomes noise and distortion. Has specially designed muted Osmium needle for longer record life—needle retracts when too much force is applied to cartridge. Low mass aluminum tone arm is designed for maximum, faithful tracking. Needle force is low 1 oz.; output voltage 1.8. Peak-free wide frequency response.

**34N13419**—Shipping weight 1 lb. .... **6.17**

**(C) Model 93A.** "Glider" Type Pickup—Lightweight, replacement for pickups. Takes up to 12" records. High 1.8 volts output with response from 60 to 6000 cps. Changeable needle with pressure of 1 1/2 oz.

**34N13417**—Shipping weight 8 oz..... List Price 7.50 **4.41**

**Model 96A.** "Glider" type. Same as model 93A above, but with 4.3-volt output level.

**34N13508**—Shipping weight 13 oz..... List Price 8.50 **5.00**



### GE TRANSCRIPTION ARM

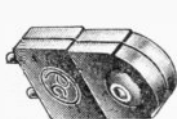
**Model FA-21-A.** Designed to mount the GE Variable Reluctance Cartridge above. Used by broadcasting stations and those desiring the

finest quality reproduction of lateral transcriptions and records. Mass of the transcription arm reduced to the minimum point through use of special design and magnesium alloy for moving parts. Low friction assured by precision cone type bearings. Mounts on motor boards whose dimensions from the center of the turntable to the edge of the mounting surface is at least 15".

**34N13514**—Shpg. wt. 1 lb. .... **40.18**

**Model RWP-001.** Counterweight adapts above for L.P. records.

**34N13515**..... **3.77**



### PICKERING CARTRIDGE REPRODUCER

Designed to give the highest quality reproduction of records and transcriptions. Will fit into almost any arm—"Keystone Clip" mounting permits adaptation to a large variety of arm shapes and sizes. Requires pre-amp equalizer listed below. Includes sapphire stylus with tip radius of 0.0027.

**34N13493**—Model S-120M..... **9.90**

**34N13494**—Model D-120M, with Diamond Tip..... **24.90**

**MICROGROOVE** Cartridge, for new Long-Play records.

**34N13495**—Model D-140-S, with Diamond Stylus..... **36.00**

**34N13496**—Model S-140-S, with Sapphire Stylus..... **14.70**

Bracket for mounting Pickering cartridge in Webster Model 356 three speed changers. No charge with order.

**34N13503**—For S-120-M and D-120-M..... **Free**

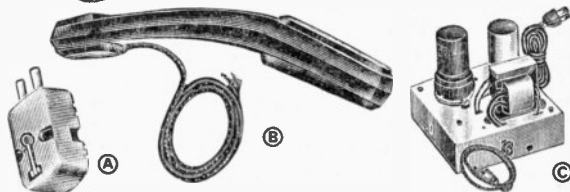
**34N13504**—For S-140-S and D-140-S..... **Free**

**Model 125H.** Equalizer-amplifier. Designed for use with Pickering Cartridge Reproducers above. Compensates for average recording characteristics and raises output voltage as high as that obtainable from crystal pickups. Easily installed. Operates from power supply of amplifier or radio set. Normal HF characteristics flat to 15,000 cps; filter cuts off above 4,000 cps at 20 db/octave.

**34N13496**..... **19.50**



## PHONO ACCESSORIES



**Fig. A. Model RPX041.** Variable Reluctance cartridge with replaceable needle. Provides smooth, wide range reproduction of both conventional and long playing records. Low mechanical impedance. Small size and light in weight. Unaffected by widely varying temperature and humidity conditions. Reproduces entire usable range. Output: 12 millivolts at 1000 cycles. Pre-amplifier listed below is required between pickup and input. Size 1 15/32 x 3/4 x 9/16". For L.P. (33 1/3 & 45 RPM) records. (Complete with replaceable needle.)

**34N13485**—List Price 9.95..... Each **5.85**

**Model RPX040.** Same as above but for standard 78 RPM records. Complete with replaceable needle.

**34N13500**—List Price 9.95..... Each **5.85**

**34N108**—Replaceable needle for L.P. cartridge..... **2.06**

**34N107**—Replacement needle for Standard cartridge..... **2.06**

**Fig. B. GE Pickup Arm,** with either standard or L.P. cartridges above. Plays 10 or 12" records. Can be used with any non-automatic record player. Factory balance for proper stylus pressure, which can be adjusted if desired. Simple to install. Single hole mounting. 24" lead, mounting rest and mounting template supplied.

**34N13502**—List Price 15.95..... with L.P. cartridge **9.38**

**34N13501**—List Price 15.95 ..... with Standard cartridge ..... **9.38**

**Fig. C. Model UPX-003.** Self Powered Pre-Amplifier for above cartridges and pickups. Uses 1-6SC7 tube in equalizing circuit, plus rectifier. Includes input jack, 14" output lead with phono plug. 115 V., 60-cycle AC. 3 3/8 x 3 3/8 x 3 3/4".

**34N13473**—List Price 15.95... Shpg. wt. 2 lbs..... With tube **9.38**

**Model SPX-001.** As above, less rectifier. Obtains filament and plate voltage from receiver or amplifier.

**34N13465**—List Price 9.90..... Shpg. wt. 2 lbs. **5.82**

### BROADCAST CARTRIDGE

**Model RPX-046.** GE Broadcast type cartridge. Less needle. **6.73**

**34N13479**.....

**Model RPJ-004.** Diamond Stylus. .001" radius. Stylus pressure 6-8 grams. For long playing records.

**34N128**..... **16.17**

**Model RPJ-003.** Diamond Stylus. Radius .003". Stylus pressure 3/4-1 1/4 oz. for 78 RPM records.

**34N109**..... **16.17**

## ASTATIC PICKUPS



### STANDARD AND MICROGROOVE

**Model 6D.** Crystal. For standard and long playing records. Re- at 33 1/3 and 45 RPM. Needle pressure 8 grams. Equipped with precious metal and sapphire stylus tips in reversible cartridge. Dark brown finish.

**34N13512**—Shpg. wt. 2 lbs..... List Price 15.90 **9.35**



### MICROGROOVE PICKUP

**Model 507L-92-33.** For use with 33 1/3 and 45 RPM long playing records. Crystal type. Frequency range 50-10,000 cps. 1.6 volts output. Needle pressure 10 grams. Needle not included. Opalescent gray finish.

**34N13513**—Shpg. wt. 1 1/2 lbs..... List Price 8.00 **4.70**

### ASTATIC TONE EQUALIZER

For use between crystal pickup and amplifier. Has 4 positions: Bass, Med., Hf., Off. Single hole mounting. Dimensions: 2" x 3/4".

**34N13475**—Shpg. wt. 1 lb..... **1.94**



### CLARKSTAN PHONO NEEDLE PRESSURE GAUGE

Indispensable to the serviceman! Checks weight and balance of pickup arm from one gram to four ounces.

Has 2 scales, plus calibrated dial with 4:1 scale multiplier.

**34N447**—Shipping weight 1 lb..... **1.50**



# PHONO PLAYBACK & RECORDING NEEDLES

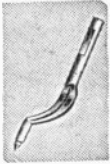
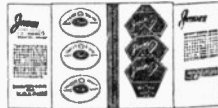
All the needles listed below are 3-millimeter radius for use with standard 78 RPM recordings except where otherwise specified. Long playing and microgroove needles are 1-millimeter radius, designed

for use with the new Columbia 33 $\frac{1}{3}$  and RCA 45 RPM recordings. Precision made for best reproduction of all types of recordings. For exact replacement types see listings on cartridge page 50.

## JENSEN PHONO NEEDLES

### NEEDLE PACK

Sales kit demonstrates 3 Royal Jewel, 3 Classic needles.  
34N110—Kit with 6 Needles. **6.00**



### ROYAL JEWEL NEEDLE

Plays up to 10,000 sides! Genuine sapphire jewel point. Specially designed offset shank reduces noise and distortion to a minimum.

34N111—Each..... **1.47**  
LP needle for 33 $\frac{1}{3}$  and 45 RPM records.  
34N173—Each..... **1.47**  
Lots of 13..... **15.00**

### CLASSIC NEEDLE



Designed especially for brilliant reproduction of instrumental and vocal recordings. New spring construction minimizes hiss and scratch. Osmium alloy tip.

34N176—Each..... **83c**  
Lots of 13..... **9.00**  
LP needle for 33 $\frac{1}{3}$  and 45 RPM records.  
34N177—Each..... **83c**  
Lots of 13..... **9.00**

### DUOTONE SHOCKPROOF NYLON NEEDLE

Eliminates damage to needle or record if pickup accidentally drops. Osmium tip on steel spring set in Nylon bumper. 5,000 plays.



34N125..... **1.47**

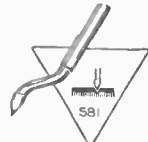
### NEW MICROGROOVE NEEDLES OSMIUM ALLOY TIP



Designed for new, long-playing and microgroove records.  $\frac{3}{16}$ " offset shank for hi-fidelity, softer tone.

34N120—.001" radius..... **69c**

### SAPPHIRE AND RUBY POINTS



Full tone needles for new long-playing and microgroove records. Good for 5,000 plays.  $\frac{3}{16}$ " offset shank for softer tone. .001" radius.

34N121—Sapphire Point..... **89c**  
34N122—Ruby Point..... **98c**

### SAPPHIRE TIP STRAIGHT NEEDLE



Designed for the new lightweight pickups and the new Long-Play records. .001" radius.

34N123..... **89c**

### JEWEL-TIPPED OFFSET-SHANK NEEDLES



5000 plays. Cushion action design.

34N115..... **1.07**  
1000 plays. Precious metal tip.  
34N116..... **54c**

### PERMANENT TYPE PHONO NEEDLES

**Sapphire Tip Needle.** Guaranteed for 8,000 plays. Tapered duraluminum shaft completely eliminates tone distortion. Precision ground and polished point. For tone arms with less than 2 $\frac{1}{2}$  oz. pressure.

34N117—List price 1.00..... **59c**  
Lots of 24..... **50c** ea.

**Ruby Jewel Tip Needle.** 12,000 plays. Double bend tapered shaft absorbs shock. Diamond polished tip.  
34N118—List price. 1.50. Each. **88c** Lots of 20, each.... **75c**



### STANDARD JEWEL-TIP NEEDLES

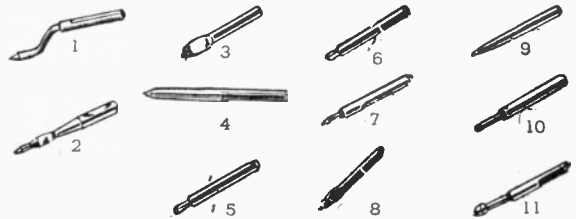
Duotone Durpoint—offset type, plays up to 4000 records.  
34N443..... **59c**

Walco Tru-Trac—sapphire point, plays 5000 records.  
34N170..... **88c**

### WEBSTER TANDEM REPLACEMENT NEEDLES

Metal. For models 256 and 246 changers.  
34N127.....Singly 4.00 ea. Lots of 10 2.00 ea.  
Osmium. For models 356 and 346 changers.  
34N178.....Singly 4.00 ea. Lots of 10 2.00 ea.  
Sapphire. For models 356 and 346 changers.  
34N179.....Singly 5.00 ea. Lots of 10 2.50 ea.

### LONG LIFE PLAYBACK NEEDLES



1. Precious Metal point needle with offset shank. For maximum record sides without changing.

34N199.....Each **88c**

2. Reliance 4000 play needle. Plastic case. Low surface noise.

34N443.....Each **59c**

3. Permo Point 2000 play needle with patented precious metal elliptical point. Standard for coin machines.

34N164.....Each **50c**

3. Reliance Permanent Point Needles, 2000 plays.

34N165.....Each **39c**

4. Fidelitone "Floating Point" needle filters record scratch. 3 to 6 months average use (1000 or more sides). Platinum point. Ideal for changers.

34N227.....Each **50c**

4. Deluxe Fidelitone "Floating Point" needle. As above, but good for 5000 plays.

34N478.....Each **1.00**

9. Presto transcription metal alloy needle. Long life, high-fidelity. Semi-permanent self-lubricating point. 40 to 50 hours on standard records, longer on home recordings.

34N286.....Each **69c**

11. Sapphire Tipped Playback Needle! Permanent needle—plays 2000 commercial records with minimum wear. Excellent frequency characteristics. A real value.

34N448.....Each **1.15**

### STANDARD PLAYBACK NEEDLES

9. Red shank needles for acetate recordings. Individually shadow tested.

34N433—Package of 100.....Each **46c**

10. Filter point highly polished surgical steel needle. Shadow tested. Low surface noise. 10-15 plays.

34N209—Package of 10.....Each **8c**

34N222—Package of 25.....Each **21c**

9. High fidelity, shadow tested steel needle. Each good for 10 sides.

34N430A—Package of 10.....Each **8c**

34N430B—Package of 25.....Each **15c**

9. RCA steel phonograph needles.

34N153—Full Tone (Pack of 100).....Each **15c**

34N160—Extra Loud (Pack of 100).....Each **1.00**

10 Packages assorted..... **1.00**

9. RCA Chromium needles. Green shank

34N357—Package of 6.....Each **25c**

10 Packages..... **1.80**

9. Green Shank shadowgraphed needles.

Good for 12 plays each.

34N432—Package of 100.....Each **46c**

10. RCA Red Seal needles, designed for Red Seal records.

34N141—Package of 50.....Each **30c**

10 Packages for..... **2.00**

### RECORDING NEEDLES

5. Lapped edge sapphire cutting needle for acetate discs. Precision cut jewel for low surface noise and highest fidelity. Over 5 hours cutting life.

35N191.....Each **3.23**

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

35N198.....Each **3.45**

6. Sapphire cutter ground to W. E. spec. For acetate discs. About 10 hours life. Can be resharpened.

35N196.....Each **4.25**

6. Steel cutting needle for acetate; individually ground and lapped. Flattened shank.

35N439—Package of 3.....Each **39c**

7. Stellite cutter for acetate discs. Extremely quiet. Cuts hundreds of sides; can be resharpened.

35N337.....Each **1.18**

8. Individually polished steel cutter for acetate discs. Will cut 15 to 25 10-in. discs.

35N348—Package of 4.....Each **59c**

8. Alloy cutter for acetate; harder than steel. Polish while they cut. Hand lapped.

35N434A—Package of 5.....Each **95c**

35N434B—Package of 10.....Each **1.79**

WE WILL NOT KNOWINGLY BE UNDERSOLD

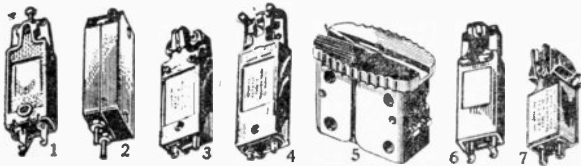


# CARTRIDGES—RECORDING DISCS

## CRYSTAL PICKUP REPLACEMENT CARTRIDGES

Replacement units with accompanying needles for all standard makes of crystal pickups as recommended by manufacturers. Precision made and individually tested.

### ASTATIC



Stock No.	Model	Type	Pressure	Output	Each
34N13407	B-2	2	2 3/4 oz.	2.5 V.	3.26
34N140	B-4	2	2 3/4 oz.	2.5 V.	3.26
34N13948	COJ*#	7	5 gr.	.7 V.	4.41
34N13973	L-26A	1	2 3/4 oz.	1.4 V.	2.62
34N13965	L-40A	1	1 1/4 oz.	.6 V.	2.62
34N13969	L-70A	1	1 1/4 oz.	1.0 V.	3.26
34N13972	L-71A	1	1 oz.	1.0 V.	3.91
34N13981	L-72A	1	1 1/4 oz.	3.5 V.	3.91
34N13841	L-82A	1	2 3/4 oz.	3.5 V.	3.27
34N13842	L-92A	1	1 oz.	2.25 V.	3.53
34N13840	L-92-33	4	10 gr.	1.6 V.	3.53
34N13790	LT 1 MA	4	3/4 oz.	1.0 V.	4.12
34N13843	LT 2 MA	4	3/4 oz.	1.0 V.	4.12
34N13791	LT 3 MA	4	3/4 oz.	1.0 V.	4.12
34N233	M-22	1	2 3/4 oz.	2.9 V.	3.26
34N13844	OT 2 JA	3	1 oz.	.85 V.	5.24
34N13845	OT 2 MA	3	1 oz.	.85 V.	4.94
34N13961	OT 3 M*	3	1 1/4 oz.	.75 V.	4.94
34N13962	OT 3 J†	3	1 1/4 oz.	.75 V.	5.23
34N13404	U-J†	5	5 gr.	.5 V.	5.23
34N13405	U-78-J†	5	5 gr.	.5 V.	5.23
34N13980	Nylon-1-J†	6	1 1/4 oz.	1.0 V.	4.56

\* With precious metal needle.  
† With sapphire needle. ‡ With nylon needle.  
# With special brackets for RCA 45 RPM changers.

### REPLACEMENT NEEDLES FOR ABOVE

34N106—Precious metal tip for LT models.....	<b>88c</b>
34N101—Precious metal tip for Model OTM.....	.88
34N102—Sapphire tip needle for Model OTJ.....	1.47
34N114—Nylon needle for Model Nylon-1 J.....	1.76
34N138—1 Mil sapphire for U-J cartridge.....	1.47
34N139—3 Mil sapphire for U-78-J cartridge.....	1.47

### DOUBLE NEEDLE TURNOVER CARTRIDGE



**Type LQD-J.** Fits changers using a turnover type cartridge. 7 grams pressure for long playing; 15 grams for standard. Output voltages: .9 for LP; 1.2 for standard. Sapphire tipped needles.

**Type LQD-IJ.** Same as above except with front bracket for turnover knob used on VM changers.

34N13847.....	<b>5.59</b>
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### REPLACEMENT NEEDLES FOR ABOVE

34N102—3 Mil sapphire tipped needle for 78 RPM records.....	<b>1.47</b>
34N137—1 Mil sapphire tipped needle for LP records.....	1.47

### RCA

Stock No.	Model	Pressure	Output	Each
34N215	31050	2.7 oz.	1.5 V.	2.52
34N249	37158	3 oz.	1.5 V.	2.82
34N277	33217	2.7 oz.	1.5 V.	2.52
34N280	33122	2.7 oz.	1.5 V.	2.52
34N13424	31156	3 oz.	1.5 V.	2.85
34N13979	38610	2 oz.	1.5 V.	3.33

### WEBSTER

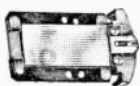


Model C2. 2 1/2 oz. pressure; output 2.0 V.	
34N13976—Flange mount.....	<b>2.65</b>

### REPLACEMENT CARTRIDGES FOR WEBSTER-CHICAGO CHANGERS

Type V 47. For Webster 356-1 changer.....	
34N13708.....	<b>4.12</b>
Type V 42.2. For Webster 256-1 and 246 changers.....	
34N13709.....	4.12

### RCA MAGIC TONE CELL KIT



Magic Tone Cell with "Silent Sapphire" semi-permanent jewel tip needle for high-fidelity reproduction. Output volts 1 1/2. Includes Magic tone cell, silent sapphire jewel point and hardware.

34N13960—Each.....	<b>4.12</b>
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## SHURE CARTRIDGES



Reversible cartridge for playing 78, 33 1/3 and 45 RPM. "Vertical Drive" construction. Needle chuck rotates on vertical axis. Meets needs of high needle point compliance and

Type W22A. With 1 Mil and 3 Mil sapphire needles.....	<b>6.91</b>
Type W22AB. With 1 Mil sapphire and 3 Mil osmium.....	6.32
34N13713.....	
34N13714.....	

### LEVER TYPE

Stock No.	Model	Pressure	Output	Each
34N13985	W57A	3 1/2 oz.	1.6 V.	3.26
34N13987	W58A	3 1/2 oz.	1.6 V.	3.26
34N13988	W59A	1 oz.	2.5 V.	3.26
34N13993	W56A	1 1/8 oz.	4.3 V.	3.91
34N13835	W42B†	1 oz.	1.3 V.	2.02
34N13400	W53MG†	6 gr.	1.0 V.	5.00
34N13836	W56R	1 oz.	4.3 V.	4.41

\* With Osmium needle.

### MUTED STYLUS TYPE

34N13991	W60A	1 oz.	1.6 V.	5.00
34N13992	W60B	1 oz.	1.6 V.	4.41
34N13837	W61B	1 oz.	1.6 V.	4.41
34N13838	W65B	1 oz.	4.0 V.	5.00

All with 3 Mil Osmium needle except W60A which is sapphire.

### NEW VERTICAL DRIVE TYPE

34N13839	W21A*	5 gr.	1.0 V.	5.15
34N13710	W21AR*#	5 gr.	1.0 V.	5.15
34N13711	W23A†	6 gr.	1.1 V.	5.15
34N13712	W23B‡	6 gr.	1.1 V.	4.56

\* With 1 Mil Sapphire needle. † With 3 Mil Sapphire needle.  
‡ With 3 Mil Osmium needle. # For RCA 45 RPM changer.

### REPLACEMENT NEEDLES FOR ABOVE

34N105—1 mil Osmium needle for W53MG.....	<b>1.18</b>
3 mil sapphire needle for W60A and all "Vertical Drive" Cartridges.....	
34N103.....	1.47
3 mil Osmium needle for W60B, W61B, W65B and all "Vertical Drive" Cartridges.....	
34N104.....	.88
34N174—1 mil sapphire for all "Vertical Drive" types.....	1.47

### RECORDING DISCS

#### PRESTO "ORANGE SEAL"

Sturdy aluminum base coated with Presto's special compound—have low surface noise and long-playing life.

No.	Size	Each	Lots 10 Each	Lots 50 Each
35N11960	6 1/2"	26c	23c	21c
35N11961	8"	37c	33c	30c
35N11962	10"	56c	50c	45c
35N11963	12"	75c	66c	60c

#### PRESTO "GREEN SEAL"

Finest grade—aluminum base with special compound. Used by laboratories to demonstrate the capabilities of recording equipment. Thickness: .052".

No.	Size	Each	Lots 10 Each	Lots 30 Each
35N11992	12"	1.35	1.20	1.08
35N11967	13 1/4"	1.68	1.50	1.35
35N11993	16"	2.44	2.17	1.95

### AUDIODISCS "YELLOW LABEL"

For amateur, school or home use. Acetate coated on aluminum base. Double-sided and labeled on both sides.

No.	Size	Each	Lots of 25 Each
35N11990	8"	.70	.42
35N11997	10"	.90	.54
35N11998	12"	1.50	.90
35N11999	16"	2.70	1.62

### AUDIODISCS "RED LABEL"

For professional use. Acetate coated on smooth aluminum base. Double-sided with 3 drive pin holes. .054" thickness.

No.	Size	Each	Lots of 25 Each
35N11989	8"	.80	.48
35N11994	10"	1.15	.69
35N11995	12"	1.85	1.11
35N11996	16"	3.40	2.04

### RECORDISC "ORANGE LABEL"

Admirably suited to the average type of amateur transcription. Bond base, professional nitrate coated.

35N11969—Pkg. of 6 6 1/2".....	.54
35N11970—Pkg. of 6 8".....	.90
35N11971—Pkg. of 6 10".....	1.26

### RECORDISC "RED LABEL"

Professional quality. .021" thick aluminum base with mirror-like nitrate finish.

No.	Size	Each	5 for
35N11972	6 1/2"	20c	.90
35N11973	8"	27c	1.20
35N11974	10"	40c	1.80
35N11975	12"	53c	2.40

### RECORDISC "PURPLE LABEL"

Similar to Red Label, but with lighter weight aluminum base, and mirror-like nitrate coat.

No.	Size	Each	5 for
35N11945	6 1/2"	14c	.60
35N11946	8"	20c	.90
35N11947	10"	30c	1.35

### RECORD RENEWERS

For acetate records. Cleans, lubricates, protects, etc.  
35N15300—2-oz. bottle..... **26c**  
For commercial records.  
35N15301—2-oz. bottle..... .29c



# INVERTERS - POWER PACKS - GENERATORS

## CORNELL-DUBILIER CONVERTERS



Provides smooth, dependable operation of radios, amplifiers, intercoms and other H.P.F. appliances. Delivers 110-volt, 60 cycle AC from 6, 12, and 110-volt DC power sources. Completely RF filtered for broadcast, short wave, and FM. Models 6R5, 6R10, 12R8 and 12RU15 feature 4-way adjustable load control switch. Model 110R10, includes 3-way control terminal board. Phantom switch can be added to Model 110R25.

Stock No.	Type No.	DC Input.	Watts		Size L H	Shpg. Wt.	List Price	Each
			Int.	Cont.				
21N17285	6R5	6	55	50	6 3/4 x 7 1/2 x 5 7/8"	12	11.95	24.67
21N17286	6R10	6	125	100	7 1/2 x 8 1/2 x 7 1/2"	19	59.50	34.99
21N17287	12R8	12	120	80	6 3/4 x 7 3/8 x 5 7/8"	12	11.95	24.67
21N17288	12RU15	12	200	150	7 1/2 x 8 1/2 x 7 1/2"	22	78.95	46.42
21N17289	110R10	110	150	100	6 3/4 x 7 3/8 x 5 7/8"	10 1/2	39.95	23.49
21N17290	110RA15	110	200	150	6 3/4 x 7 3/8 x 5 7/8"	12 1/2	18.75	28.66
21N17291	110R25	110	300	250	6 3/4 x 12 1/2 x 8 1/2"	22 1/2	64.95	38.19

## C-D REPLACEMENT VIBRATORS

Stock No.	Type No.	Repl. For Model	List Price	Each
21N6039	3103	6R5	10.65	6.26
21N6040	4123	6R10	11.85	8.73
21N6041	1315	110R10 110RT25 110RA15	10.65	6.26
21N6042	3077	110RT15	12.65	7.44
21N6043	3077V	110RT25	15.65	9.20
21N6044	3079	110RT35	16.85	9.91

## C-D MOBILE MOUNTING BRACKETS

Stock No.	Type No.	For	List Price	Each
21N6045	3164	6R5, 12R8	1.95	1.15
21N6046	3165	6R10, 12RU15	1.95	1.15

## C-D PHONO MOTOR CONVERTERS



Model 110PAS. For operation of automatic and manual record players. Supplies filtered, 110-volt, 60-cycle AC power from 110-volt DC source. Hammered enamel finish. Has leads for permanent wiring installation. Output 75 volt-ampere intermittent, 50 volt-ampere continuous duty. 21N17296—List 14.95. **8.77**

Model 110PBS. Same as above but with cord, plug, receptacle and slide switch. For external connection. 21N17297—List 16.95. **9.97**

## ATR STANDARD & HEAVY DUTY RADIO INVERTERS

This newly developed line of DC to AC inverters is especially recommended for operating AC Radios, Public Address Systems, Amplifiers, etc., from DC voltages. Extremely well filtered to insure interference-free all-wave radio reception. All models listed below have 110 volt, 60 cycle AC output. Standard models measure 8 3/4 x 9 x 5 1/4", shipping wt., 19 lbs. Heavy duty model measures 6 1/2 x 11 1/2 x 8 1/2", shipping wt. 30 lbs.



No.	DC Volts Input	Watts		Cost
		Int.	Cont.	
21N17242	6	85	75	29.37
21N17243	12	125	100	29.37
21N17244	32	150	100	29.37
21N17245	110	250	150	29.37
21N17246*	110	325	225	42.63
21N17247	220	250	150	33.52

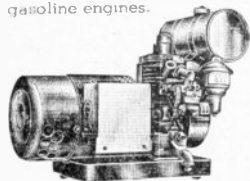
\*Heavy Duty Model.

## VIBRATORS FOR ABOVE

21N6048—For 6V models. **5.00**  
21N6049—For 110V models. **5.00**

## KATO GAS-ELECTRIC PLANTS

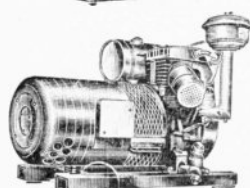
Filtered, shielded, compact and lightweight consistent with good engineering practice to insure rugged durability and power output. Both models illustrated provide 115 volts 60 cycles AC at the rated wattages for continuous duty, and the first model shown also provides 150 watts at 6 volts DC for charging batteries. Both use air-cooled gasoline engines.



A. Portable units. 500 watt unit has 1 h.p. single-cylinder engine, 600 watt unit has 1.4 h.p. single-cylinder engine. Will run 6 to 6 1/2 hours on 1 gallon of gasoline. Units have start and stop push buttons. With cutout, DC ammeter, charging control resistor, battery cables. One 6-volt storage battery required for starting (not supplied). Model No. 23HAB4. Rated at 500 watts. 21N19819—**164.80**

A. Model No. 14HAB4. Rated at 600 watts. 21N19820—**201.60**

B. Model 26HAB4. Heavy duty unit. 1000 watts continuous duty output. Single-cylinder, 4-cycle, 2.4 h.p. engine. Runs 4 1/2 hours on one gallon of gasoline. Manual starting. 21N19821—**264.00**



## CORNELL-DUBILIER TV CONVERTERS

Specially designed to meet the critical power conversion requirements of TV. Delivers 110 volt 60 cycle AC from 110 V. DC power source. RF filtered for broadcast, short wave, FM and TV. Model 110RT15 features "phantomswitch" and TV freq. control. 110RT25 features frequency control and Du Add plug-in construction for the addition of "phantomswitch." 110RT35—Fully automatic power conversion and "phantomswitch."



Stock No.	Type No.	Watts		Size W L H	Shpg. Wt. Lbs.	List Price	Each
		Int.	Cont.				
21N17239	110RT15	250	150	6 3/4 x 12 1/2 x 7 1/2"	16 3/4	65.00	38.22
21N17293	110RT25	300	250	6 3/4 x 12 1/2 x 8 1/2"	22 1/2	69.95	41.13
21N17235	110RT35	500	350	7 1/2 x 14 x 8 5/8"	40 1/2	119.50	70.27

## C-D "PHANTOMSWITCH"

Model 3155. For use with models 110R25 and 110RT25. Self contained plug-in unit. No wiring necessary. Automatically turns converter on or off with the operation of switch on the AC equipment. 21N17295—List 14.50. **8.53**



## C-D BATTERY ELIMINATOR-CHARGER

Model 110BA6. Provides 6-volt DC power from 110 V., 60-cycle AC source. 60 watts continuous output. Built-in voltmeter and ammeter provide accurate, visible adjustment of output voltage. 7-position switch gives choice of 4, 5, 6, 7, 8, 9 or 0 amps. Ideal for testing auto radios and charging batteries. Size: 7 3/8" W x 12 1/4" L x 8 1/2" H. 21N17292—**32.21**



Shpg. Wt. 16 lbs.—List 54.95.

Model 110BA12. Supplies 6 and 12 V. DC for servicing and testing auto, truck and boat radios and appliances. 120-watt continuous output. Built-in ammeter and voltmeter. 7 step switch from 8 to 20 amps. at 6 V. or 4 to 10 amps at 12 V. Hammered enamel finish. Size: 7 3/8" W x 13" L x 8 1/2" H. 21N17294—Shpg. Wt. 24 1/2 lbs.—List 85.50. **50.27**

## BROOKS PHONO-MOTOR INVERTERS

Provide an efficient and economical method for the operation of AC phono motors in DC areas.

Model Z-1. Standard type. Will operate any standard 115 volt AC, 60 cycle, record player or changer on DC current. 21N17298—**9.95**

Model Z-2. AC-DC switch type. For use with any record player or changer. Can be used on either AC or DC without disconnecting the unit. Selector switch set on AC or DC as desired. 21N17299—**10.95**



## MALLORY VIBRAPACKS

Flexible, heavy-duty vibrator power supplies for supplying high voltage direct current from a storage battery or similar DC source, for use with receivers, amplifiers, transmitters, etc., in marine, vehicular P.A., aircraft, police car, fire truck and similar applications. Four voltage output in 25 volt steps. Compact and light in weight (average shipping weight is approx. 10 lbs.). High efficiency reduces drain on batteries.

NOTE: Two types are listed, self-rectifier and tube rectifier. "B" minus is at ground potentials in the self-rectifier types. Use the tube rectifier type for applications where "B" minus should not be grounded.

Type VF-223 Filter—For all single unit packs where utmost hum suppression and voltage regulation is required. 21N6060. **4.70**

No.	Type	Vltg.	Output Voltage	Output	Type	Each
21N6059	VP-540†	6.0	250	60 ma.	Self-Rect.	17.64
21N6090	VP-551	6.3	125-150-175-200	100 ma.	Self-Rect.	12.94
21N6094	VP-552	6.3	225-250-275-300	100 ma.	Self-Rect.	15.43
21N6091	VP-553	6.3	125-150-175-200	100 ma.	Tube Rect.	14.41
21N6095	VP-554	6.3	225-250-275-300	100 ma.	Tube Rect.	16.90
21N6066	VP-555*	6.3	300	200 ma.	Tube Rect.	30.58
21N6067	VP-557*	6.3	400	150 ma.	Tube Rect.	30.58
21N6092	VP-G556	12.6	225-250-275-300	100 ma.	Self-Rect.	16.90
21N6068	VP-F558	32.0	225-250-275-300	100 ma.	Tube Rect.	18.37

\*Special Dual Packs for high output. Output vltg. not adjustable. †Filtered. Requires no filter.

Type VF-223 Filter—For all single unit packs where utmost hum suppression and voltage regulation is required. 21N6060 **4.70**

## REPLACEMENT VIBRATORS FOR VIBRAPACKS

No.	Vibropacks	Type	Each	No.	Vpacks	Type	Each
27N6062	VP-551, 552, 540	725	4.56	27N6064	VP-G556	G-725	5.32
27N6063	VP-553, 554, 555†, 557†	825	3.67	27N6065	VP-F558	F-826	4.12

†Two vibrators required.



# BURGESS BATTERIES

## STANDARD DRY BATTERIES

For radio or laboratory use. Suffix letters of battery numbers denote type of terminal. PI—plug-in; SC—spring clip; all others have screw terminals except \* with strap terminals, † tapped at 22½ volts; ‡ tapped at 3, 4½, 16 and 22½ volts.

Cat. No.	Burgess Type	Volt	Size	Shpg. Wt. Lbs.	Std. Pkg.	Net Each	
						Sgls. Lots	Std. Pkg.

### "B" BATTERIES

20N19822	21308PI†	45	8½x4½x7½"	15	6	3.41	3.10
20N19832	21308SC†	45	8½x4½x7½"	15	6	3.41	3.10
20N19824	10308PI†	45	8½x4½x7½"	13	6	3.26	2.96
20N19831	10308SC†	45	8½x4½x7½"	13	6	3.26	2.96
20N19825	2308PI†	45	8½x2½x7½"	8	6	2.38	2.16
20N19829	2308SC†	45	8½x2½x7½"	8	6	2.38	2.16
20N19861	5308	45	4½x2½x5½"	3½	10	1.65	1.50
20N20683	X30X	45	1½x2½x5½"	1	6	2.86	2.60
20N19865	Z30NX	45	1½x2½x5½"	1½	10	1.98	1.80
20N19826	S156PI#	22½	4½x2½x2½"	2	10	1.39	1.26
20N19822	S156SC#	22½	4½x2½x2½"	2	10	1.39	1.26
20N19883	4156	22½	3½x2½x2½"	1	10	1.00	.91
20N20682	A15ST*	22½	3½x2½x2½"	1	6	1.18	1.07

### "C" BATTERIES

20N19868	5540	7½	4x½x2½"	1	10	.74	.67
20N19866	5360	4½	2½x1½x2½"	1	10	.39	.35
20N19827	2370PI	4½	3½x1½x2½"	1	10	.62	.56
20N19887	2370BP	4½	3½x1½x2½"	1	10	.62	.56
20N20686	B3BPX	4½	3½x2½x2½"	½	6	.84	.76

### "A" BATTERIES

20N20680	F4BP	6	2½x2½x4½"	2	10	.56	.51
20N20679	F2FBP	3	5½x1½x4½"	1½	10	1.05	.95
20N19844	F2BP	3	2½x1½x4½"	1	10	.53	.48
20N20685	B2BP	3	1½x1½x4½"	½	6	.48	.44
20N20611	422	3	2½x1½x2½"	1	10	.23	.21
20N20678	F2BP	1½	2½x1½x4½"	1	10	.53	.48
20N20681	44	1½	1½ dia. x 4½"	1	10	.66	.60

## STANDARD BATTERY PLUGS

Fit all batteries above with PI after their numbers. Will also fit similar make batteries. With hahnstock clips for cable.

Stock No.	Type	Volt.	Ea.	Lots of 10
20N20591	3 prong	45	9¢	.81
20N20592	3 prong	4½	10¢	.90
20N20593	5 prong	22½	16¢	1.44

## PORTABLE BATTERY PLUGS



Stock No.	Illus.	Desc.	Ea.	Lots of 10
20N20590	4	2-prg. "A"	.03	.27
20N20595	5	2-prg. "A"	.03	.27
20N20596	6	3-prg. "B"	.04	.36
20N20597	7	4-prg. "A&B"	.05	.45
20N20598	8	2-prg. "A"	.03	.27
20N20599	9	4-prg. "A&B"	.05	.45
20N20600	10	3-prg. "A"	.05	.45
20N20601	11	4-prg. "A&B"	.04	.36
20N20602	12	4-prg. "A&B"	.05	.45
20N20603	13	4-prg. "A&B"	.05	.45
20N20604	14	5-prg. "A&B"	.07	.63

## SNAP FASTENER TERMINALS

Same battery terminals as used for Eveready types 430, 435, 455, 467; Burgess type XX-45 and XX30 midget batteries. Sturdy, well-made terminals. Male and female units sold separately.

20N11733—Male Snap Fastener.  
20N11734—Female Snap Fastener.  
Any above, Ea. 4¢. Lots of 10, 32¢

## "A" and "B" BATTERIES FOR HEARING AIDS

Stock No.	Burgess No.	Volts	Shpg. Wt.	Size	Std. Pkg.	Price Each	
						Single	Std. Pkg.
20N20688	1ES	1½	2 oz.	1½x1½x3½"	60	7½¢	6½¢
20N20689	2ES	1½	5 oz.	2½x1½x3½"	96	7½¢	6½¢
20N20691	TE	1½	5 oz.	3½x1½x3½"	96	19¢	17¢
20N20687	ZZE	1½	1½ oz.	1½x1½x1½"	100	15¢	14¢

### "A" BATTERIES

20N20693	XX22E	33	7 oz.	2½x1½x3½"	10	1.23	1.12
20N20694	XX30E	45	7 oz.	2½x1½x3½"	20	1.45	1.32
20N20677	U10E	15	2 oz.	1x1½x1½"	20	.62	.56
20N20676	U15E	22½	2½ oz.	1x1½x1½"	20	.78	.71
20N20675	U20E	30	3 oz.	1x1½x1½"	20	.95	.88

### STANDARD "B" BATTERIES

20N19858	4FH	1½	1½ lbs.	2½x2½x4½"	20	51¢	46½¢
20N19846	4F2H	3	3 lbs.	2½x3½x5½"	8	99¢	90¢
20N19837	4F4H	6	7 lbs.	2½x8½x6½"	6	2.38	2.16
20N19838	F4H	6	1½ lbs.	2½x2½x3½"	20	58¢	52½¢
20N19839	4F5H	7½	8 lbs.	7½x3½x5½"	6	3.06	2.78
20N19841	4F6H	9	9½ lbs.	8½x3½x5½"	6	3.81	3.19

## IGNITION-LANTERN-TELEPHONE BATTERIES

Stock No.	Burgess No.	Volts	Shpg. Wt.	Size	Std. Pkg.	Price Each	
						Single	Std. Pkg.
20N19858	4FH	1½	1½ lbs.	2½x2½x4½"	20	51¢	46½¢
20N19846	4F2H	3	3 lbs.	2½x3½x5½"	8	99¢	90¢
20N19837	4F4H	6	7 lbs.	2½x8½x6½"	6	2.38	2.16
20N19838	F4H	6	1½ lbs.	2½x2½x3½"	20	58¢	52½¢
20N19839	4F5H	7½	8 lbs.	7½x3½x5½"	6	3.06	2.78
20N19841	4F6H	9	9½ lbs.	8½x3½x5½"	6	3.81	3.19

## FLASHLIGHT CELLS



No. 1, 2, and Penlite cells—superior quality batteries constructed for intermittent use in lanterns and flashlights.  
20N20621—No. 1 Cell. Size 1½x1".  
20N20622—No. 2 Cell. Size 2½x1½".  
Either above, each..... **6 1/2¢**  
20N20623—Penlite cell. 2½x2½". ..... 5¢

## PORTABLE "A" BATTERIES

Stock No.	Burgess No.	Volts	Uses Plug No.	Size L x W x H	WILL REPLACE		Shpg. Wt. Lbs.	Std. Pkg.	Price Each	
					Eveready	Ray-o-Vac.			Sgls.	Std. Pkg.
20N19854	2F	1½	5	2½x1½x4½"	.....	.....	1	6	.43	.39
20N19850	4F	1½	5	2½x2½x4½"	742	P94A	2	12	.75	.68
20N20625	2R	1½	.....	2½x1½"	.....	.....	4 oz.	192	.07	.065
20N20610	G3	4½	4	4x1½x4½"	746	P83A	2	12	.56	.51
20N19842	F4P1	6	8	2½x2½x4"	.....	P694A	2	12	.73	.66
20N20613	2F4L	6	8	3½x1½x10½"	747	P698L	4	6	1.43	1.30
20N19843	G5	7½	8	3½x2½x4½"	687	P85A	3	6	.85	.77
20N20626	T5	7½	10	3½x2½x4½"	.....	.....	1½	6	.96	.87
20N19851	6F	1½	5	4½x2½x4½"	743	P96A	3	6	.99	.90
20N20628	4FL	1½	5	3½x1½x4½"	744	P94L	3	18	.69	.63
20N20629	F3	4½	4	3½x1½x4½"	736	.....	1½	6	.56	.51
20N20630	Z4	6	.....	1½x1½x2½"	724	.....	¼	24	.39	.35
20N20631	B5	7½	10	3½x2½x4½"	.....	5B	½	10	.74	.67
20N20632	C5	7½	10	2½x1½x2½"	.....	751C	½	6	.75	.68

## PORTABLE "B" BATTERIES

20N20627	XX45	67½	snap-on	2½x1½x3½"	467	4367	1	12	1.74	1.58
20N20612	A30	45	6	3½x2½x4½"	.....	430P	3	6	1.65	1.50
20N20614	B30	45	6	4½x2½x5½"	762	P5303	3	12	1.82	1.65
20N20616	Z30	45	6	3½x2½x4½"	738	P7303	2	6	1.92	1.75
20N20617	M30	45	6	3½x1½x5½"	482	P5530	4	12	1.54	1.40
20N20615	XX30	45	snap-on	2½x1½x3½"	.....	.....	12 oz.	12	1.28	1.16
20N20634	K45	67½	snap-on	2½x1½x2½"	457	.....	½	12	1.64	1.58
20N20633	N60	90	snap-on	3½x1½x3½"	490	.....	1½	6	2.28	2.07

## COMBINATION PACKS FOR PORTABLES AND FARM USE

20N19871	5DA60	1½ & 90	7	5½x2½x4½"	.....	.....	5	.....	3.47	.....
20N19874	6FA60	1½ & 90	11	1½x6x3½"	.....	AB84	6	.....	3.47	.....
20N19875	4GA42	1½ & 63	11	9x2½x3½"	.....	AB419	5	.....	2.88	.....
20N20618	G4B50	6 & 75	12	12½x2½x4½"	.....	.....	7	.....	3.47	.....
20N20624	6TA60	1½ & 90	7	10x2½x4½"	.....	.....	5½	.....	3.85	.....
20N20620	G6B60	9 & 90	13	13½x2½x4½"	752	.....	8½	.....	3.85	.....
20N19872	F6A60	7½A, 9A, 90B	14	9½x2½x4½"	.....	753	AB994	6	.....	3.45
20N19873	D5A60	7½A, 90B	14	9½x2½x4½"	.....	.....	5	.....	4.45	.....
20N19876	2F4B60	6A, 90B	9	10½x4x4½"	.....	10896	.....	9	.....	4.59
20N19877	F5M45	7½A, 67½B	.....	.....	.....	.....	.....	.....	.....	.....
20N20619	17GD60	1½A, 90B	.....	9½x2½x4½"	.....	758	AB767	.....	3.15	.....
20N19859	2TXX40	1½A, 60B	11	2½x1½x3½"	.....	.....	22	.....	4.46	.....
20N19860	F4A50	6A, 75B	12	9½x2½x3½"	.....	.....	.....	.....	2.10	.....
20N19864	G5A42	7½A, 63B	14	9½x2½x4½"	.....	.....	6	.....	3.10	.....
20N19869	TSZ60	7½A, 90B	14	9½x2½x4½"	.....	.....	AB-794	5	2.95	.....
20N19870	G6M60	7½A, 9A, 90B	14	10½x3½x4½"	754	AB-878	7	.....	3.85	.....
20N20635	TSZ50	6A, 7½A, 75B	.....	.....	.....	.....	.....	.....	.....	.....
20N20636	F6A60P	9A, 90B	.....	8½x3½x2½"	.....	.....	4	.....	3.15	.....
.....	.....	.....	.....	9½x2½x4½"	.....	.....	6	.....	3.50	.....





# BATTERIES - MALLORY CHARGERS

## RCA FLASHLIGHTS



RCA Model RT22RIP. Pre-focused for maximum spot. Silver-plated zinc parabolic reflector. Rust resistant, nickle zinc, drawn steel barrel. Pre-set bulb. Uses two VS001 or No. 2 batteries. **80c**

20N20570



RCA Model LU0101P. Chromium plated brass case. Variable focus adjustment. 3-position roller switch. Uses 2 VS001 or number 2 cells. **95c**

20N20571



## RCA PENLITE, LU020

Chrome plated brass barrel; durable spring clip; positive slide switch; bulb guard. Uses LS034 batteries.

20N20572

## MICRO-LITE GLOW TIP



Miniature flashlight with tip that glows all night after switch is off, without using battery. Brass case with phosphorescent plastic tip. Uses 1 penlight battery. **60c**

20N20583—Each.....6.48  
12 for.....

## SELENIUM BATTERY ELIMINATORS



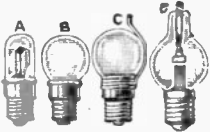
For "A" and "B" battery replacement in portable and farm radios using 4-7 tubes. Converts such sets for operation from 110v. 60 cycles AC. Provides completely filtered and hum free reception. Uses no tubes. Easy to install. Universal sockets for all type battery plugs. Delivers 1.5v. "A" and 90v. "B". 2 1/2 x 4 1/2 x 6 3/4". **9.85**

21N15708—Shpg. wt. 5 lbs.....

As above, but uses tube rectifier. **8.82**

21N15704—Eliminator with rect.....

## GE TUNGAR BULBS FOR CHARGERS



For replacement in chargers, "A" eliminators, etc.

Cat. No.	Type	Amp.	GE No.	Each
21N21901	B	2	12X825	3.31
21N21902	C	2	206501	3.31
21N21904	B	5	20X672	4.41
21N21903	D	6	189049	3.67
21N21911	D	15	217283	7.35

## GE TUNGAR-TYPE BULBS

21N21907—Type B, 2 amp. Wt. 2 lbs... 2.25  
21N21906—Type C, 2 amp. Wt. 2 lbs... 2.25  
21N21908—Type D, 6 amp. rating. Wt. 2 lbs... 2.55  
21N21909—Type D, 15 amp. rating. Wt. 2 lbs... 4.50

## HYDROMETER

Live red rubber bulb and nozzle; beaded float. **33c**

21N15694—Wt. 2 lbs.....

## BIAS CELLS AND HOLDERS

Biases high gain amplifiers.  
20N6424... 1 1/4 volt... 24c  
20N6420—Holder for 1 cell... 9c  
20N6421—Holder for 2 cells... 15c  
20N6422—Holder for 3 cells... 21c  
20N6423—Holder for 4 cells... 24c



## INSTRUMENT PANEL PLUG FOR BATTERY CHARGERS

Permits charging of batteries through cigarette lighter receptacle. Plug fits into lighter receptacle on instrument panel. 6" leads connect to clips on leads of chargers. **1.18**

21N15689—Shpg. Wt. 6 oz.....

## RCA BATTERIES TO FIT ANY APPLICATION

Stock No.	Type No.	Volts	Size Inches	Sim. to Burgess	Std. Pkg.	Shpg. Wt.	List Price	Singly Each	Std. Each
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### PORTABLE "A" BATTERIES

20N20709	VS036	1 1/2	2 3/8 x 1 1/8	2R	48	2 1/4	.12 1/2	.09	.08
20N20703	VS004	1 1/2	2 5/8 x 2 3/8 x 4 1/8	4F	6	2	.95	.74	.68
20N20712	VS005	1 1/2	3 1/8 x 1 3/8 x 5 3/8	4FL	5	1 1/2	.90	.69	.63
20N20704	VS007	1 1/2	3 1/8 x 2 5/8 x 4 1/8	6F	4	2	1.25	.96	.88
20N20705	VS008	1 1/2	3 7/8 x 1 1/8 x 10 3/4	8FL	6	3	1.75	1.35	1.23
20N20706	VS002	4 1/2	4 x 1 3/8 x 4 1 1/8	G3	6	1 1/4	.75	.58	.53
20N20707	VS009	6	2 5/8 x 2 5/8 x 5 1/8	F4P1	6	1 3/4	.95	.73	.67
20N20708	VS011	6	3 7/8 x 1 1/4 x 10 3/4	2F4L	6	3	1.75	1.35	1.23
20N20711	VS003	7 1/2	3 7/8 x 2 3/8 x 4 3/8	G5	5	2	1.10	.84	.77

### PORTABLE "B" BATTERIES

20N20715	VS014	45	3 1/8 x 2 1/4 x 4 1/8	A30	6	2	2.15	1.65	1.50
20N20716	VS013	45	3 3/8 x 1 1/8 x 5 1/2	M30	12	2 1/4	2.00	1.54	1.40
20N20717	VS012	45	4 1/8 x 2 3/8 x 5 1/8	B30	6	2 3/4	2.35	1.81	1.65
20N20719	VS015	45	3x2 1/4 x 4	Z30	10	1 1/4	2.50	1.92	1.75
20N20720	VS055	45	2 1/8 x 3 1/8 x 3 1/8	XX30	12	3/4	1.65	1.27	1.16
20N20718	VS016	67 1/2	2 3/8 x 3 3/4 x 1 5/8	XX45	12	1	2.25	1.73	1.58
20N20713	VS090	90	3 1/8 x 1 3/8 x 3 3/4	N60	12	3/4	2.95	2.27	2.07

### PORTABLE "A-B" BATTERY PACKS

20N20714	VS018	7 1/2-9-90	10 5/8 x 3 1/8 x 4 1/8	G6M60	6	7 1/4	5.50	3.85	.....
20N20730	VS019	7 1/2-9-90	9 1/2 x 2 1/8 x 4 3/8	F6A60	6	6	5.50	3.85	.....
20N20721	VS046	6-7.5	12 5/8 x 2 3/4 x 4 1/8	G4B50	6	6 1/2	4.95	3.45	.....
20N20731	VS047	9-90	13 5/8 x 4 1/8 x 2 3/4	G6B60	6	8 1/4	5.50	3.85	.....
20N20728	VS050	6-7 1/2-7.5	8 1/2 x 2 1/8 x 3 1/8	TSZ50	6	4	4.50	3.15	.....
20N20732	VS054	1 1/4-90	10 x 2 3/8 x 4 3/8	TA60	5	6 1/2	5.50	3.85	.....
20N20733	VS057	7 1/2-9-90	9 3/8 x 2 3/8 x 3 3/4	TSZ60	6	4 1/2	5.50	3.85	.....

### FARM "A" BATTERIES

20N20722	VS024	1 1/2	7 1/8 x 2 1/8 x 7	20F	6	7 1/2	3.30	2.31	.....
20N20723	VS025	3	11 1/8 x 4 x 6	20F2	1	14 1/4	5.50	3.85	.....

### FARM "B" BATTERIES

20N20724	VS027	45-22 1/2	8 1/8 x 4 3/8 x 7 3/8	10308PI	4	11 1/2	3.95	2.95	.....
20N20725	VS026	45-22 1/2	8 1/8 x 3 3/8 x 7 3/8	2308PI	6	8	2.88	2.16	.....

### FARM "A-B" BATTERY PACK

20N20729	VS022	1 1/2 A-90B	15 3/4 x 4 1/8 x 6 1/8	17GD60	1	22	5.95	4.46	.....
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### INDUSTRIAL BATTERIES

20N20734	VS102	22 1/2	3 3/8 x 2 1/8 x 2 3/4	4156	10	1 1/4	1.80	1.38	1.28
20N20735	VS106	1 1/2	2 1/8 x 2 1/8 x 4 1/8	4FH	10	1 1/2	.70	.50	.465
20N20736	VS112	22 1/2-45	4 1/8 x 2 5/8 x 5 1/8	5308	5	3 1/2	2.15	1.65	1.50
20N20737	VS114	22 1/2-45	2 1/8 x 1 1/8 x 4 1/8	Z30XN	10	1 1/2	2.58	1.98	1.80
20N20738	VS130	1 1/2-3-4 1/2	4 x 1 1/8 x 3 1/8	2370BP	10	1	.81	.62	.56
20N20739	VS131	22 1/2*	4 1/8 x 2 1/2 x 3 5/8	5156SC	5	2	1.80	1.39	1.26
20N20726	VS028	4 1/2	2 3/8 x 1 1/8 x 2 7/8	5360	10	1 1/2	.50	.38	.35
20N20727	VS029	7 1/2**	3 1/8 x 7/8 x 3 3/8	5540	10	3/4	.95	.73	.67

\* Tapped at 3-4 1/2-6-9-10 1/2-16 1/2

\*\* Tapped at 1 1/2-3-4 1/2-6

### FLASHLIGHT BATTERIES

20N20700	VS001	1 1/2	1 1/8 x 2 1/8 x 1 1/8	2	480	1/4 oz.	.10	.07	.065
20N20701	VS033	1 1/2 (penlite)	1 1/8 x 1 1/8	1	100	2 oz.	.10	.07	.065
20N20702	VS034	1 1/2	2 x 7/16	Z	120	1/2 oz.	.075	.06	.05

### MALLORY MAGNESIUM-COPPER SULFIDE RECTIFIERS

Replacements for Battery Chargers, Eliminators, Pin Ball Machines, etc. All metal construction. Ruggedly assembled under high pressure to withstand severe vibrations and shock. Withstands temperatures from -90° to +265°F. "Self-healing" rectifying film protects against accidental damage due to voltage surge. IB8R can be used for reversing the direction of HO model trains and IB12R for O gauge trains.

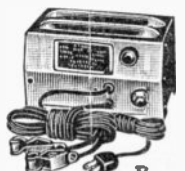


Stock No.	Type No.	AC Volt. Input	DC Volt. Output	Cont. Amps.	Used In	Each
21N10543	IB4R	3.6	1.7	1.5	GTC Battery Elim.	1.21
21N10544	IB8R	7.2	3.4	1.5	GTC Battery Elim.	1.44
21N10545	IB12R	10.8	5.2	1.3	Elec. Fence Supply	1.65
21N10546	IB12C1J	10.8	5.1	3.2	Mallory 3C, 6AC4	3.21
21N10547	F16C3	14.4	6.8	3.9	Mallory 5535	4.50
21N10548	1S16CB7	14.4	6.6	6.0	Mallory 5535B, 6AC6	4.78
21N10549	F24H1P	21.6	10.4	4.8	Pin Ball Machines	5.03

### MALLORY BATTERY CHARGERS



Convenient, efficient and economical charging of any storage battery used in automobiles, buses, trucks, tractors, small boats, airplanes, on the farm and for industrial applications. Taper charging is designed into all Mallory chargers to prevent damage to battery plates. Provides excellent power source for electroplating, telegraph systems, relays, generator fields, etc.



Stock No.	Type No.	Charge—DC Amps		Size Inches	Shpg. Wt.	List Price	Each
		Max.	Taper to				
21N15698	6AC6(B)	6	4	4 1/8 x 7 3/8 x 3 3/8	7	19.95	13.03
21N15700	6AC10(A)	10	7	6 x 8 x 4 1/2	12 1/4	27.95	18.41
21N17217	12AC5(A)	5	3	6 x 8 x 4 1/2	10 3/4	35.96	23.98
21N15696	6AC4(B)	4	2	4 1/8 x 7 3/8 x 3 3/8	4 3/4	14.95	9.76



# TEST EQUIPMENT SECTION

Here is a representative selection of famous make, top quality test equipment for radio, television and industrial use. In addition to these latest, popular models, we can also supply any make not listed here, from our large inventory or on special order. Write for complete manufacturer's specifications.

## TIME PAYMENTS ON YOUR TEST EQUIPMENT

You can take advantage of our liberal Time Payment Plan. Now, you can pay for this equipment on convenient monthly payments while you use it. Write us for terms on the particular instruments you want.

## TUBE AND SET TESTERS

### RCP MODEL 802NA TUBE AND SET TESTER



Compact service shop ready to take out on the job. Tests all receiving type tubes. Jack for noise test. 4 1/2" meter with large "Good-Bad-Doubtful" section for tube testing. Easily read figures for set testing, battery test. Tests paper, mica and electrolytic condensers for leakage. Ranges: 0-10/50/500/1000 volts DC or AC at 1000 ohms per volt. DC milliammeter 0-1/10/100/1000 ma., 0-10 amperes. Ohmmeter 0-500/5000/100,000 ohms, 1/10 megohms. 100,000 ohm range battery operated. Decibel measurements from -8 to +55 db. Output meter 0-10/50/500/1000 volts. Hardwood case with compartment and self-latching cover, battery and test leads. 100-130 V., 60-cyc. AC. 12 1/2" x 12" x 5 1/4". Shipping Weight: 11 1/2 lbs.

25N21587.....**58.31**

### RCP "DYNOPTIMUM" TUBE TESTER



Model 322A, Easy to operate. Exclusive "Dynoptimum" circuit requires only 5 controls for complete tube check. Permits accurate checking of wide variety of old or new tubes, including the new miniature and sub-miniature receiving types. Provisions for checking individual sections of multi-purpose tubes. Neon indicator lamp for quick testing of short and leakage between elements. Jack provided for headphone tests of tube noises. Operates on 100-130 volt, 50-60 cycle AC power supply. Model 322A is housed in handsomely styled open face steel cabinet with sloping panel. 5 1/2" x 12 1/4" x 7"

25N21599—Shipping weight 11 lbs.....**37.19**

Model 322AP. Same electrical characteristics as above, but housed in steel carrying case with detachable cover. 25N21600—Shipping weight 13 lbs.....**41.11**

### RCP ROLINDEX TUBE CHART



Model 105 roll chart unit to be used in conjunction with Tube Tester Models 322, 322P, 322A, 322AP, 802N and 802NA. The unit comes in a grey hammerstone finish metal case with plastic window, designed to fit the test lead compartment of above equipment. Size: 3x8x2 1/4". Wt: 4 lbs.

25N21588.....**7.35**

### RCP MODEL 8073 SERVISHOP



In one compact unit—Tube tester, Multi-Tester, FM and AM Signal Generator, Audio Oscillator, and Condenser Tester. Checks 800 different receiving tubes including miniature types. Condenser tester reads "Good or Bad" for leakage of electrolytics, paper and mica condensers. Four pre-set frequencies for aligning FM receivers, and four for aligning AM receivers. Audio oscillator has 400 cycle output. Multi-tester ranges: DC and AC volts 0-10/50/500/1000; DC milliamps 0/1/10/100/1000; DC amps 0/10; Ohms 0/500/5000 ohms, 0/0.1/1/10 megohms; Output meter 0/10/50/500/1000 volts. Decibel meter -8 to +55 db on 4 ranges. Natural Oak portable case. With test leads and instructions. 13" x 9 1/2" x 5". For 105-135 V., 50-60 Cyc. AC.

25N21725—Shipping Weight: 15 1/2 lbs. ....**83.25**

### RCP MODEL 8573 SERVISHOP

Similar to above except incorporates RCP Model 805B Tube and Set Tester which has roll chart and gives more extensive testing features. AC and DC volt ranges and output volt ranges up to 5000 V. Resistance readings to 25 meg and db reading ranges to +69. 16 1/2" x 12 1/2" x 5 1/4".

25N21551 - Shipping Weight: 17 lbs. ....**97.95**

### STAR TUBE CHECKER



Model TE-1. Compact, precision-built tube tester. Light weight for portable or workbench use. Separate switching for each pin of each socket so any heater or plate voltage can be applied. Checks 570 different tubes including new noval. Crackle finish metal case. 9x7x3 1/2". Shpg. Wt: 6 lbs.

25N21554.....**29.95**

### HICKOK TUBE AND SET TESTER



Model 534B Mutual conductance tester — checks all receiving-type tubes under operating conditions. Special switch enables checking useful tube life. Scale reads directly in micromhos — important in television where weak, but ordinarily passable tubes cause fuzzy pictures. Roll chart. Multi-tester ranges: AC-DC V 0-20/200/500/1000/5000, DC 20,000 ohms/volts, AC 1000 ohms/volt; ohms 0.1 ohms to 100 meg in 3 ranges; DC MA 0-5/20/200; 0-50 microamps; Capacitance .0001-150 mfd. Checks leakage on electrolytics and paper condensers. Checks inductance to 100 Henries. DB from -10 to +50 db. 110 V. 60 cycles. 17x18x8 1/4".

25N21452 - Shpg. Wt: 35 lbs. ....**169.20**

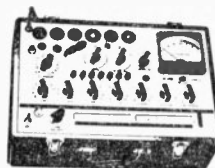
Model 533P — as above, less set testing features.

25N21457 — Tube Tester. Shpg. Wt: 34 lbs. ....**133.20**

Model 536. Portable Tube and Set Tester. All the features of Model 534B plus additional accuracy, dependability of particular interest to the exacting technician and laboratory engineer. Separate line voltage meter.

25N21458 — Portable Tester. Shpg. Wt: 38 lbs. ..**204.00**

### NEW HICKOK MODEL 600 TUBE TESTER



Dynamic mutual conductance type tester of unexcelled accuracy, reads directly in micromhos. Ranges: 0-3000-6000-15000. The only accurate dependable test for tubes, used by tube manufacturers in their own labs. Tests future life and gas content of tube under actual operating conditions. Operating voltages, including DC grid bias, are applied to every element. Signal is applied to control grid and meter reads AC component in plate current. Detects more weak tubes. Checks all latest types, including television. Attractively designed sturdy case in durable, red leatherette. Bracket in cover holds line cord. Size: 7 1/2" x 11 1/2" x 16 1/2"

25N21612 — Shpg. Wt: 21 lbs. ....**126.00**

Acom Adaptor for the above Tube Tester

25N21613.....**4.95**

### SUB-MINIATURE TUBE ADAPTOR FOR ALL HICKOK TUBE TESTERS.

25N21614.....**3.60**

### NEW JACKSON CHALLENGER TUBE TESTER



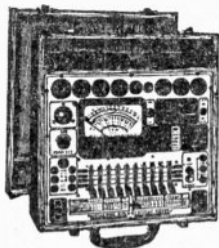
A low cost, high quality instrument for the serviceman who needs an extra instrument, includes famous dynamic testing method which provides tube tests under actual use conditions. Tests over 700 types including TV rectifiers and sweep tubes. Has built-in roll chart. Makes noise and short tests. Features a combination push-button, rotary switch element and voltage selection.

25N21690.....**45.81**



# TUBE AND SET TESTERS

## PRECISION TUBE AND SET TESTERS



Model 620-P. Newly designed to provide general purpose test of tubes and circuits of radio receivers. Complete portable service laboratory, tests all modern tube types. Dual short check sensitivity, free-point 10 element and short check lever selection. Individual tests of multi-section tubes. Built-in roll chart. Checks radio A, B, and C batteries under load. Circuit tester ranges: 5 AC, DC and Output ranges: 0-12/60/300/1200/3000 volts at 1000 ohms/volt; DC current 0-1.2/12/120MA; 0-1.2/12 amps; ohms 0-1000/100M/10 megs.; Decibels -12 to +64 db. Comes in hardwood portable carrying case. Size: 12x13x6".

25N21662—Shpg. wt. 21 lbs. **92.22**

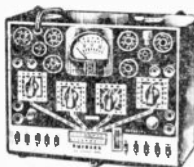
Model 654P. Same as Model 620P except following ranges: DC V. 0-12/60/300/1200/6000, 20M ohms/volt; AC V. same as DC at 1000 ohms/volt; Output Volts same as AC V; DC current 0-120 microamps, 0-1.2/12/120 MA, 0-1.2/12 amps; Ohms 0-6,000/600M/60 meg.; Decibels -20 to +70 db. 12" x 13" x 6".

25N21664—Shpg. wt. 19 lbs. **104.27**

Model 612-P. Tube and Battery Tester. Features same as model 620-P, but less set testing features.

25N21663—Shpg. wt. 17 lbs. **68.11**

## SUPREME TUBE AND BATTERY TESTER

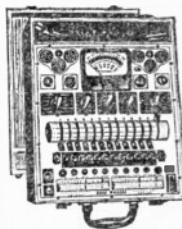


Model 589-A. Easy-to-read full view scale, portable case. Universal floating filament circuit provides for testing old, new and future tubes. Neon lamp checks open circuits and leakage between elements. Built-in roll chart carries full tube setting data. New tube setting data supplied for one year at no extra charge. Tube tester has 18 filament voltages from 1/4 to full line

voltage. Correct plate loads for all tubes. Jacks provided for use of headphones for checking noisy, loose and bad connections. Checks A and B batteries under normal load, 1.5, 4.5, 6.0, 45, and 90 volts portable batteries tested on "Replace-Good" scale. New type luggage carrying case, plastic hardware and leather carrying handle. Gray wrinkle panel. For 110-133 volts, 50-60 cycles. Overall size: 11-1/8 x 8-7/8 x 5-3/8".

25N21753—Shpg. wt. 10 lbs. **53.75**

## PRECISION TUBE AND SET TESTER



Model 10-20-P. Mutual conductance tube tester with new "Electronic" feature, plus multi-range Volt-Ohm-Milliammeter and Battery Tester. The Electronic feature checks tubes over complete path of operation. Tests all modern tube types. Free point lever element selection and interelement short checks. Tests radio A, B, and C batteries under load. Built-in roll chart. Push-button operated circuit tester. Ranges: 6 AC-DC and output ranges. 0-6/-12/60/300/1200/3000 at 1000 ohms/volt; DC Current 0-600 microamps, 0-6/60/300/1200 MA and 0-12 amps; Ohms 0-1000/100,000 ohms and 0-1/10 megohms; Decibel -20 to +64 db. With batteries and test leads. 13 1/2 x 17 1/2 x 6 1/2".

25N21659—Shpg. wt. 23 lbs. **117.40**

Model 10-54-P. Same as above except DC voltage ranges are 20,000 ohms/volt; Current ranges 0-60/120 microamps, 0-1.1/12/120/1200 MA, and 0/12 amps; Resistance ranges 0-60C0/600,000 ohms and 0-6/60 megohms; 6 Decibel ranges -20 to +70 db.

25N21605—Shpg. wt. 23 lbs. **131.71**

Model 10-12-P. Tube and Battery Tester. Has same features as Model 10-20-P, but less set testing features.

25N21658—Shpg. wt. 21 lbs. **94.18**

## EMC MUTUAL CONDUCTANCE TUBE TESTER



Model R200 BP. For the first time a mutual conductance tube tester with complete flexibility, at an unbelievably low price. Checks mutual conductance on a calibrated microhmo scale as well as on a "Reject-Good" scale. 4 1/2" meter. Checks tubes for gas content, shorted and open elements. Sufficient plate current to check both emission and mutual conductance. Flexible switching permits all testing tubes regardless of location of the elements on the base. Checks ballasts and voltage regulators. Built-in roll chart. Fused

on front panel. Portable carrying case, 12 1/2 x 18 x 5 1/2".

25N21616—Shpg. wt. 20 lbs. **67.13**

Model R200 BC. Same as above, but housed in attractively styled sloping counter cabinet. 14 x 11 1/2 x 5".

25N21615—Shpg. wt. 17 lbs. **63.21**

# CONDENSERS TESTERS

## SPRAGUE TO-3 TEL-OHMIKE

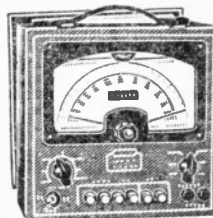


Speedy check locates open, intermittent, or shorted condensers without removing them from the circuit. Direct reading dial, color coded to selector switch. Measures .00001 to 2,000 mfd. in 4 ranges, power factor from 0 to 50% at 60 cycles, 0 to 2,500 megohms insulation resistance. 2.5 ohms to 25 megohms in 3 resistance ranges, and DC voltage in three ranges to 750 volts. DC

milliamperes measured to 75 MA. in three ranges. Capacity and power factor of electrolytic condensers measured with rated polarizing voltage applied. Electrolytic leakage measured in MA. at rated DC voltage. For 115 volts, 60 cycles. 13 1/4 x 10 x 5".

25N21787—Shpg. wt. 15 lbs. **59.70**

## JACKSON CONDENSER TESTER

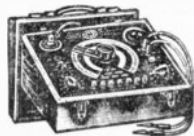


Model 650-A. Push-button control gives fast, positive range selection for capacity and leakage test of electrolytic, paper or mica condensers. 4 ranges: .00001 to 1000 mfd. Scale expander provides two scale ranges for each push-button range. "Magic Eye" assures positive indications for both capacity and leakage tests. New principle gives positive leakage indication without bother of counting flashes or other inaccurate methods. Test voltages: 20, 100, 200, 300, 400, or 500.

Measures power factor on direct reading scale. Range calibrated from 0 to 60%. Dimensions: 8 1/2 x 8 1/2 x 6".

25N21654—Ship. Wt. 12 lbs. **53.41**

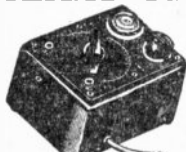
# CORNELL DUBILIER TEST EQUIPMENT



## C-D "BF-50" ANALYZER

Wien bridge with visual "eye" and power supply for leakage and insulation tests. Measures paper, mica, air and electrolytic condensers, from .00001 to 240 mfd. Measures power factor, tests for shorts. With tubes. Wainportable case, 6 1/2" x 12" x 9".

25N21727—Shpg. wt. 11 lbs. **41.80**



## C-D "BN" CAPACITOR BRIDGE

Measures accurately and quickly all capacitors between .00001 and 50 mfd. Wien bridge circuit, with visual "eye" to indicate balanced condition. Direct reading scale. Uses 12A7 and 6AF6G. Indicates power factor, shorts. 3-5/8" x 5" x 3". For 110 volt, 60 cycles.

25N21728—Shpg. wt. 4 lbs. **19.50**



## C-D CAPACITOR DECADES

Use with "BN" Capacity Bridge. Calibration chart with each. Rating: 600 volt DC; 220 volt AC; Tolerances available: ±3% or ±5%. Bakelite case. 3-5/8 x 5 x 3". 4 lbs.

Each **25N21729** — To .011 mfd. in .0001 mfd. steps (5%) **18.33**

**25N21730** — To 1.1 mfd. in .01 mfd. steps (5%) **8.33**

**25N21751** — Same except 3% **11.76**

**25N21731** — To 10 mfd. in 1.0 mfd. steps (5%) **17.15**

**25N21752** — Same except 3% **19.11**

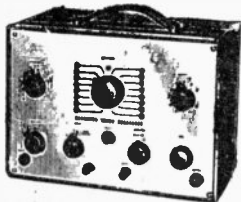
COMPLETE TEST EQUIPMENT FOR ALL YOUR SERVICING NEEDS

55



# FM-TV SWEEP SIGNAL GENERATORS

## RCA TV SWEEP GENERATOR



Model WR-59A. Frequency modulated TV sweep alignment generator — generates signals of fundamental frequency on all ranges: 12 TV RF channels, picture and sound IF video (100 KC-10 MC), picture IF (2 bands: 5-15 MC & 20-30 MC), standard FM intermediate (10-11.5 MC), and spare 25-40 MC channels. Sweep width continuously variable. Output cable termination will match balanced or unbalanced lines. Unit develops a sweep frequency signal for a scope; a phasing control is provided. Return-trace blanking produces zero reference line for measurement of instantaneous voltages. Output impedance: RF, 150-0-150 ohms; IF and Video, 100 ohms. Output voltage .1 V. on all frequency ranges. Operates on 105-125 volts, 50/60 cycles AC. Blue-gray finished case measures 10 x 13 1/4 x 7 1/4". The unit is supplied complete with RF and IF/VF output cables.

25N21669—Shpg. Wt: 35 lbs. .... **325.00**

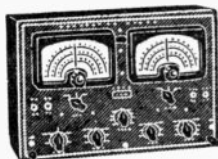
## RCA TELEVISION CALIBRATOR



Model WR-39A. A rugged, portable service instrument that includes a marker signal generator, a dual crystal standard and a heterodyne frequency meter with built-in audio amplifier and speaker for zero beat indication during scale calibration. This precision signal source generates marker frequencies for alignment of TV and FM receivers. The marker VFO operates on fundamentals. Continuous coverage frequency ranges: 4 bands from 19 to 110 MC and 2 bands from 170 to 240 MC. Two crystal oscillators are provided: primary standard operates at 2.5 MC and modulating standard at .25 MC. Output impedance 100 ohms; output voltage .1 RMS. Blue-gray Hammeroid finish case measures 10 x 13 1/4 x 7 1/4". Operates on 105-125 Volts, 50/60 cycles AC. Shpg. Wt: 22 lbs.

25N21689..... **250.00**

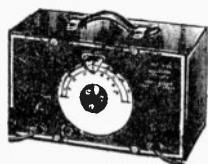
## JACKSON TV-FM SWEEP GENERATOR



Model TVG-1. Complete, self-contained test instrument that requires only addition of an oscilloscope for visual alignment of TV and FM radios. Coverage: 2-216 MC in 3 ranges: 2-12 MC, 12-108 MC, 174-216 MC all on fundamentals. Designed for accurate alignment of RF, Oscillator, IF and Trap Circuits. Sweep width adjustable from 100 KC to 12 MC. Built-in marker generator and crystal calibrated oscillator. 400-cycle modulation. Accurately calibrated, large dial with range coding for easy identification. TV channels and FM band clearly marked. For 105-125 V., 50/60 cycles AC. Finished in attractive two-tone grey and red case measuring 12 1/2 x 7 1/2 x 19". Supplied with coaxial type RF output and scope horizontal timing leads.

25N21693— Shipping Wt: 38 lbs..... **215.60**

## SILVER FM-TV SWEEP GENERATOR



Model 911. Designed specifically for visual alignment of wide band IF and RF amplifiers in FM and TV receivers when used with any good oscilloscope. Unit includes two built-in crystal marker oscillators individually adjusted to exactly 1 and 5 MC. Markers are essential to correct alignment of TV receiver, video IF amplifiers. Amplitude of markers is variable to provide proper "pip" strength for circuit under test. Coverage: 2 through 226 MC in 3 ranges (2-77 MC; 60-154 MC; 151-226 MC) — no band switching required. This feature is achieved by a fixed frequency oscillator that beats its 114 MC signal with output of a 37-112 MC VFO to produce frequencies for all 3 ranges. Output voltage variable from 0 to 1/2 V. maximum; output impedance variable from 5-125 ohms. FM sweep variable from 0-10 MC. Supplied complete with tubes, marker oscillators, coaxial cables, ground clip lead, and 6-ft AC cord and plug. Operates on 105-125 volts, 50/60 cycles AC.

25N21546—Shpg. Wt: 14 lbs. .... **78.50**

**MORE FM-TV SWEEP SIGNAL GENERATOR ON LOWER HALF OF FACING PAGE**

## HICKOK TV ALIGNMENT GENERATOR



Model 610A. A new model universal TV generator that replaces separate sweep generator, marker generator and crystal calibrator used in ordinary TV testing. Supplies signal to visually align a TV set to any of 12 channels from 44 to 216 MC. Frequency range 10-250 MC, directly calibrated on dial and readable to .5% accuracy. Variable sweep width 0-15 MC. Sweep frequency ranges: 0-40 MC, 35-75 MC, 75-115 MC, 150-230 MC. Self-contained markers (20-30 MC and 30-40 MC) readable directly on dial to .05 MC. Special generator included provides IF frequencies. Standby switch shuts off all E+ so generator tubes can be kept on. Output voltage: .75 V. maximum. Blue Hammertex finish case with satin chrome finish panel 14 x 16 1/2 x 8". Shipping Weight: 31 lbs.

25N21456..... **195.00**

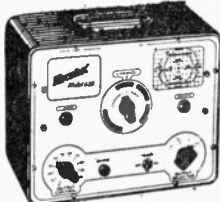
## HICKOK MICROVOLT SIGNAL GENERATOR



Model 292X. New popular priced generator covers both upper channel TV and mobile band frequencies — on fundamentals. Fundamental frequency coverage: Bands A through G, 125 KC to 110 MC; Band H, 150-220 MC. Modulated and unmodulated output calibrated from 1 to 100,000 microvolts. Self-contained crystal oscillator circuit has front panel jack permitting crystal outputs from 250 KC to 20 MC on fundamentals; and to 250 MC on harmonics. Modulation fixed at 400 cycles; AF output 0-2 volts. Wired for optional plug-in type crystal (152-162 MC) for mobile band coverage. May be externally modulated from 15-10,000 cps. A self-contained db meter (-10 to +38 db in 3 ranges). For 115 Volts, 50/60 cycles. Blue lacquered steel case 14 x 16 1/2 x 8". Wt: 29 lbs. Less Crystals.

25N21450..... **195.00**

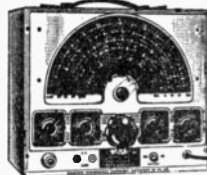
## HICKOK TV CROSS HATCH GENERATOR



Model 620. New, crystal controlled linearity pattern generator for rapid servicing in borderline areas where broadcast reception is unpredictable. Provides means for checking and aligning horizontal and vertical linearity and drive controls, horizontal and vertical width, height and hold controls, horizontal AFC circuits. Stable video pattern consists of 12 vertical lines and 8 or 9 horizontal lines for faster alignment and trouble shooting. Checks relative receiver sensitivity. Output frequencies: 4 channels, 2-5 inclusive; only one is necessary for servicing. For 105-125 V., 60 cycles AC. Blue hammertex steel case.

25N21611—With Test Leads..... **144.85**

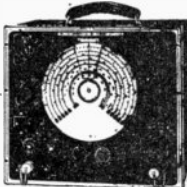
## FM-TV SWEEP GENERATOR



Newly designed model embodies the latest in engineering design, precision accuracy and simplicity of operation. Complete FM & TV frequency coverage of 2 to 227 MC on 3 bands. Sweep width 500 KC to 10 MC. Dial calibrated directly in frequency, no mental calculations necessary. Maximum output 500,000 microvolts. Built-in power line filter. Generator output can be used either Frequency Modulated or pure RF. Steel cabinet finished in gray wrinkle enamel. 105-125 volts 50-60 cycle AC.

25N21736—Shpg. Wt: 16 lbs. .... **34.95**

## Precision Sweep Signal Generator



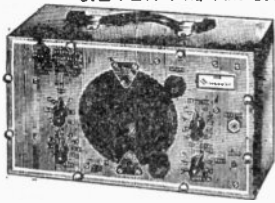
Model E-400. Specifically engineered for TV and FM. Direct reading from 2 to 480 MC in 7 bands without skip. Harmonically calibrated from 240 to 480 MC. Narrow and wide band sweep 0 to 1 MC and 0-10 MC are continuously adjustable. Wide range phasing control for horizontal sweep. Has built-in multiple crystal marker-calibrator holds 4 crystals at once. 10.7 MC and 2 MC crystals of .01% accuracy supplied. 6-Position rotary band switch eliminate coil switching. 6 1/2" etched aluminum 1500 point vernier tuning dial. Portable copper plated case with aluminum panel. Size: 10 1/2 x 12 x 6". Complete with 2 crystals and test cables.

25N21701—Shpg. Wt: 18 lbs..... **122.21**



# AM-FM SIGNAL GENERATORS

## SILVER FM/AM SIGNAL GENERATOR



Eight fundamental ranges, direct frequency calibrated to 1% accuracy, 90 KC through 170 MC. RC audio oscillator provides 400 cycle AM modulation, variable from 0 to nearly 100%. FM 90 KC through 210 MC with built-in electronic FM sweep variable from 0 to 500 KC. Output continuously variable from less than 1 microvolt, to over 1 volt. Metered

output, dual variable and 4 position ladder attenuators; complete multiple shielding, 4 section line filter, coils mounted in rotary turret. 10:1 vernier dial. Permits design and service of AM and FM receivers by aural, meter or visual alignment methods. Complete with 105/125 volt, 50/60 cycle built-in mains-isolating power supply, tubes, output cable and terminal box, 6 ft. cord and plug. Size: 12 3/8" long, 7 3/8" high, 5 3/8" deep. In grey steel cabinet with leather carrying handle. Shpg. Wt: 14 lbs.

25N21542..... **116.50**

## PRECISION MODEL E200C

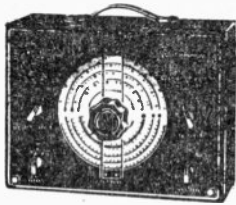


Units are individually hand calibrated to better than 1% on all 8 bands which range from 88 KC. to 120 MC. Fundamentals to 30 MC. Direct reading, no charts needed. Large full vision 6 1/2" no-glare dial with a 0-1000 point vernier scale allowing direct reading to one part in 1000. 400 cycle sine-wave audio oscillator provides modulation and external test signal from zero to 50 volts.

Complete shielding including electrostatically shielded transformer and AC line is RF filtered. 0-100% modulation control more than triples signal utility. 110-volt, 50/60-cycle Black ripple finished, heavy gauge portable steel case. 10 1/2 x 12 x 6". Shpg. Wt: 20 lbs.

25N21715..... **65.90**

## NEW JACKSON TEST OSCILLATOR



Model 106. Standard AM type for testing AM and FM sets. Also as a marker generator for AM, FM and TV sweep generators. Fundamental freq. from 100 KC to 32 MC. Harmonics 28 MC to 120 MC. Two-circuit attenuator for controlling signal strength. 400-cycle modulated signal or straight CW. Accuracy: 1/2 of 1%.

25N21692 **49.50**

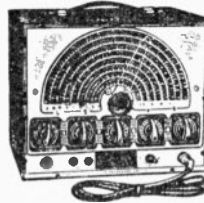
## HICKOCK FM-AM GENERATOR



Model 288X. High degree of accuracy for servicing AM, FM and television equipment. Fundamentals used throughout entire range of 100 KC to 110 MC on AM output and 100 KC to 160 MC on FM output. Variable audio output: 0-15 KC is produced by heterodyne type oscillator. Decibel meter provides convenient means of measuring power and voltage and determining resonance in alignment work. A 100 KC and 1000 KC crystal controlled signal, accurate to 0.01% unmodulated or modulated at 400 cycles is available. By using harmonics of the crystal controlled oscillator, accurate signals up to 125 MC are obtained in multiples of 100 KC and 1000 KC. Complete with all tubes, necessary cables, instruction manual. For 110 volts, 50/60 cycles. 14 1/2 x 8". Satin chrome finish panel and blue baked lacquer finished case. Shpg. Wt. 30 lbs.

25N21455..... **169.20**

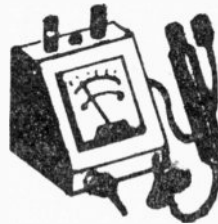
## AM SIGNAL GENERATOR



Here is a low-priced, precision manufactured product for laboratory technicians and radio servicemen. An extremely stable signal generator covering long wave, broadcast and short wave frequencies. RF from 100 KC to 25 MC in six bands of fundamentals and 19 MC to 75 MC in two bands of harmonics. Internal modulation of 440 cps variable from 0 to 100%. New RF and AF oscillators of highly stable design. Operates on 110 volts, 60 cycles AC. Dimensions: 8 x 10 x 12". See adjoining page for companion FM-TV Sweep Generator. Shpg. Wt: 19 lbs.

25N21738..... **34.95**

## SILVER GRID DIP ADAPTOR

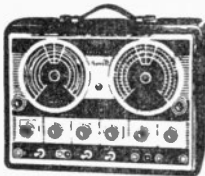


New, tubeless electronic device allows direct measurement of all tuned circuits: RF, IF, etc., quickly and simply without the receiver being turned on. Checks all oscillators, antenna systems, transmitters, trap circuits—without mechanical coupling. Determines value of all coils and condensers. Requires no power supply or tubes; two simple connections permit quick attachment to any signal generator. Coverage: 100 KC through 300 MC by use of 3 calibrated plug-in coils. Supplied with phone jack, coils and probe.

25N21536..... **34.95**

# TRIPLETT FM-TV GENERATORS & MARKERS

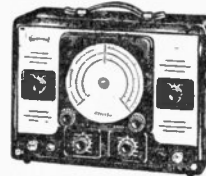
## TV-FM SWEEP GENERATOR



Model 3434. A new sweep signal generator with built-in markers for complete TV & FM servicing. Precision engineered and designed for continuous coverage to 240 MC. Marker frequency for IF 19.5 to 40 MC; for RF and Oscillator 57-240 MC; can be used simultaneously for faster identification of proper band-pass of curves. Marker has both pip and absorption dip control. Sweep center frequency in 3 ranges: 0-60 MC, 60-120 MC, 120-240 MC. Etwid 500 KC to 12 MC. 400-cycle modulation on both crystal and marker frequencies; 400-cycle audio. Provision for crystal markers up to 216 MC (plug-in crystals not supplied). Black enamel metal case with suede finish measures 15 3/8 x 11 x 8 1/2". Has leather handle. For 105-115 volts, 50/60 cycles AC. Shpg. Wt: 28 lbs.

25N21621—Complete with Leads and Tubes..... **146.51**

## TV-FM SWEEP GENERATOR



Model 3435. Here's a low cost, high quality sweep signal generator designed especially for the service engineer who has his own provision for an external marker (any good AM generator). Provides continuous range coverage to 240 MC for all TV carrier and IF frequencies. Sweep center frequency in three ranges: 0-60 MC, 60-120 MC, 120-240 MC. Continuously variable sweep width effective from 500 KC to 12 MC, with OFF position. Main frequency dial marked with channels as well as frequency. An external marker generator can be connected to the circuit under test through the panel connector. Metal case, with black suede baked-on enamel finish, measures 15-11/32 x 11-1/32 x 6 1/4". Has leather handle and copper plated feet for better grounding. For 105-115 volts, 50/60 cycles AC. Shpg. Wt: 24 lbs. Complete with leads and Tubes.

25N21622..... **97.51**

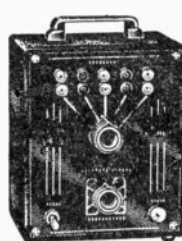
## TV-FM ABSORPTION MARKER



Model 1235. Two ranges (10 MC to 27 MC and 17 MC to 50 MC) provide complete coverage of all present TV and FM, IF frequencies, plus provision for future additions. Can be used with any sweep generator as an external marker. Connects easily and quickly to circuit under test through a panel connector. Provides control of marker dip amplitude. Includes co-axial cable for low-loss connection to sweep generators. Metal case with black suede baked-on enamel finish measures 7 7/8 x 6 5/8 x 6 5/8". Shpg. Wt. 7 lbs.

25N21624..... **24.01**

## TV-FM CRYSTAL MARKER



Model 1236. Companion unit for model 3435 above receives power by plugging into jack of 3435. Provides marker frequencies of crystal controlled accuracy for TV and FM, IF or RF requirements. Coverage up through 19 MC on crystal fundamentals; up through 216 MC on crystal harmonics. For faster checking of bandpass characteristics of curves, merely throw the switch to the desired crystal. Metal case, with black side baked-on enamel finish measures 7 7/8 x 6 5/8 x 6 5/8". Has metal handle. Shipping Weight 7 lbs.

25N21623—Less Crystals..... **19.11**



# VACUUM TUBE VOLTMETERS

## McMURDO SILVER VOMAX UNIVERSAL VTVM



Model 900A. Completely new design. True VTVM. Meter 100% protected for all voltage, db and resistance overloads. 24 DC voltage ranges (including polarity reversal) 0-3/12/30/120/300/1200 at 51 megohms input resistance, 0-7.5/30/75/300/1200/3000 at 126 megohms, 6 AC, AF, IF, RF ranges 20 cycles thru 100 MC; 0-3/12/30/120/300/1200 at input resistance of 20 meg/7 mmfd. 6 resistance ranges of 0-2K/20K/200K/2 meg/20 meg/2000 meg. using internal battery. 3 DB ranges -10 to +50. 6 DC ma ranges 0-1.2/30/120/300/1200 ma and 12 amps. Automatic voltage regulation. Single knob zeros meter for all ranges and functions. Uses 6AL5, two 6AR5 and 6X4 rectifier. Shielded probe. 105-125 V., 50-60 cycles AC. 12 3/8 x 7 3/8 x 5 3/8".  
25N21544 - Shpg. Wt. 14 lbs. .... **68.50**

## MULTIPLIER PROBE FOR VOMAX VTVM



Converts Models 900 and 900A Vomag VTVM to a TV Kilovoltmeter. Safe, direct meter readings from 1/10 volt to 30,000 volts DC. Heavy duty methacrylate construction built for long life and hard usage. Attaches easily and readily with plug-in tips. Each unit has been thoroughly tested in use assuring safety of operation.  
25N21545 ..... **9.95**

## ELECTRONIC DESIGN V T VOLT-OHMMEETER



Model 100. Extreme care in matching and choice of component parts has resulted in a high quality test instrument. DC ranges: 0-3/10/30/100/300/1000 volts at constant input resistance of 11,000,000 ohms. Accuracy  $\pm 3\%$ . AC ranges 0-10/30/100/300/1000 volts. 1000 ohms/volt sensitivity with accuracy of  $\pm 5\%$ . Electronic ohmmeter ranges: 0-1000/10,000/100,000 ohms; 1/10/1000 megohms. Complete with signal tracer probe, test leads, batteries. Case Size: 9 5/8 x 6 x 4 3/4". 110-120 V. 50-60 cyc. AC. Shpg. Wt. 11 lbs.  
25N21710 ..... **52.50**

Ediprobe. Use with any VTVM. Permits use of high resistance DC scale to measure RF voltages with response of 60 cycles through 100 MC without loading circuit.  
25N21703 - Shpg. Wt: 2 lbs. .... **7.00**

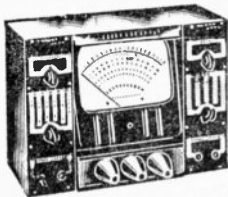
## VACUUM TUBE VOLT-OHM-CAPACITY METER



Electronics Measurements Model 300. New Electronic input with resistance of 1 to 30 megohms/volt on DC, 1000 ohms/volt on AC with full wave tube rectification. Ranges: DC volts 0-3/10/30/100/300/1000; AC volts 0-10/30/100/300/1000; 6 resistance ranges from 2 ohms to 1000 megohms. Capacity in 4 ranges .000025 mfd. to 20 mfd. Zero center position for aligning FM discriminators. Open-face model - comes complete with test leads and ohmmeter battery. Overall Dimensions: 9 x 6 x 4".  
25N21679 - Shpg. Wt: 5 1/2 lbs. .... **38.71**

Model 300-P. In portable case with cover, test leads.  
25N21680 - Shpg. Wt: 6 1/2 lbs. .... **43.61**  
High Frequency Probe. Enables measurements up to 100 MC.  
25N21681 - Shpg. Wt: 3 lbs. .... **6.37**

## HIGH FREQUENCY KILOVOLTYST



New, high voltage VTVM and Ohmmeter with high frequency probe for TV servicing. DC Kilovolts: 0-10/1/30M volts; AC Ranges: 0-10/30/100/300/1000 volts; DC Ranges: 0-3/30/100/300/1000 volts; RF Voltage Range: 0-3/10/30/100 volts; 3 Ohmmeter Ranges: 0-1M/10M/100M ohms, 0-1/10 megas and 0-1000 megs. Maximum drain of 20 microamps at 10 and 30 KV. RF frequency response: 300 cycles to 300MC, RF input impedance 1 megohm/. 3.4 mmfd. Features completely shockproof resistance multiplier block able to withstand 50,000 volts; improved high frequency signal tracing probe; advanced type Alnico 5 seven-inch meter, tilted for easy reading; separate high and low voltage test leads. Bridge amplifier circuit meter individually calibrated for use with set of test leads, DC leads, RF probe and batteries. High voltage test leads also provided. For 110-120 volts, 50/60 cycles AC. Housed in copper colored steel case measuring 12 x 6 x 9". Shipping Wt. 15 lbs.  
25N21517 - Complete with High Frequency Probe. **150.00**

## RCA VOLT OHMYST



Model 195-A. Constant protection against meter burn-out. Ranges: 0-5/50 100/500/1000 DC volts at input impedance of 10 megohms; 0-5/10/50/100/500/1000 AC volts on linear scale; 0-1000/10,000/100,000 ohms/1 meg./10 megs./100 megs. by using internal source of 3 volts. Frequency response of 30 cyc. to 100 KC. Input imped. 200M ohms plus 170 mmfd. 0-5/10/50/100 volts. -20 to 62 db. (1MW across 600 ohm line) FM alignment indicator. New style easily read meter in Gray steel case. With ohmmeter battery and test leads. Overall Size: 9-5/8 x 6-3/8 x 6 3/4". Shpg. Wt: 14 lbs.  
25N21771 ..... **79.50**

WV-65A. Same as above model except battery operated. AC voltmeter is 1000 ohms/volt and reads DC milliamperes to 300 in five ranges. Also 0-10 amps DC. Batteries last up to 10 months with normal use. Has isolating resistor in DC probe for measurement of DC voltages in high impedance AC circuits. Complete with batteries and leads.  
25N21776 - Shipping Weight: 10 lbs. .... **59.50**

## RCA MASTER VOLTOHMYST



Type WV-95A. Measures DC current and volts, AC, AF, and RF volts, capacity, and resistance. Burnout protected. 2% accuracy. DC volts 0-5/10/50/100/500/1000 at 11 megohms; AC volts 0-1/5/10/50/100/500/1000 at 5 megohms, 30 to 20,000 cps; RF volts 0-5/10/50/100 using diode probe (not furnished) flat from 30 cycles to 250 MC. DC current 0-10/100 microamps, 1/10/100 MA, 1/10 amps. Resistance 0-1000/10,000/100,000 ohms, 1/10/100 megs; Capacity .000005 mfd. to 1000 mfd. in six ranges. Gray metal cabinet. Dimensions: 10x13 1/2 x 7 1/4". For operation on 105-125 volts 50-60 cycles AC only. Comes complete with test leads and operating instructions. Shipping Weight 20 lbs.  
25N21671 ..... **152.50**



RCA crystal probe for converting DC circuit of any VoltOhmyst to read AC so RF voltages up to 100 MC are indicated directly on DC scale.  
25N21775 - Shpg. Wt: 2 lbs.... **8.95**

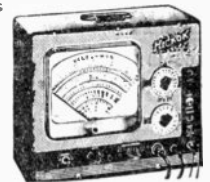
## RCA MULTIPLIER PROBES



Extends DC voltage range of RCA Volt-Ohmyst 195, 195A and Chanalyst 170A to 30,000 volts. Measures DC voltages in TV sets, X-ray machines and other high voltage devices. Useful in measuring output voltage of pulse-operated and RF power supplies and other high resistance voltage sources.  
25N21695 ..... **15.95**

Same as above but for all other model RCA VoltOhmysts and Chanalysts.  
25N21697 ..... **15.95**

## HICKOK LABORATORY VTVM



Model 209A. Measures any resistance, capacitance, AC, IF and RF voltages from 30 cycles to 300 MC, DC voltages, RMS and peak to peak voltage found in radio receivers. Some ranges have both zero left and zero center scale for discriminator alignment. Ranges: AC & DC volts 0-3/12/30/120/300/1200. Input impedance 15 megs DC, 12 megs/6mmfd AC; DC MA 0-3/12/30/120/300/1200. Capacity 0-10,000 mmfd in 2 ranges, 0-1000 mfd in 5. Inductance 50 mh to 100 hy. by use of conversion chart. Resistance .1 ohm to 10,000 megs in 8 ranges. Tubes: 6S17, 6SN7GT, (2) 6X5, OD3/VR150, plus 9006 in high frequency probe. Chrome finish panel, metal cabinet of blue hammertex 14 x 16 1/2 x 8". For 105-125 volts, 50/70 cycles AC. Complete with probes, batteries and tubes.  
25N21459 - Shpg. Wt. 25 lbs. .... **119.40**  
Model 203. Same as above but in portable case 9 x 11 x 7"; less high frequency probe. Does not have zero center scales or read peak to peak voltage. Measures AC up to 50 MC.  
25N21453 - Shipping Weight 17 lbs. .... **89.40**  
PK30 PROBE. Voltage multiplier probe. Increases range of either of above to 30,000 volts DC.  
25N21461 ..... **10.80**



# MULTITESTERS

## SIMPSON MODEL 260 PORTABLE TESTER



Black bakelite roll top safety case prevents injury or damage to meter or tester. Accurate full scale readings. Ranges: Volts AC and DC 0-2.5/10/50/250/1000/5000 at 20,000 ohms/volt DC and 1000 ohms/volt AC. Output AC volts 0-2.5/10/50/250/1000/5000. DC microamperes 0-100, milliamps 0-10/100/500. DC amps 0-10. Decibels in five ranges from -10 to +52 db. Resistance 0-2000/200,000 ohms and 0-20 megohms, center scales 12/1200/120K. All ranges controlled by a single rotary switch. Polished black case with roll-top cover. 5 1/2 x 7 x 3". With test leads.

- 25N21578—Shipping weight 3 lbs..... **45.03**  
 Same as above, but less roll-top case features.  
 25N21713—Shipping weight 3 lbs..... 38.17

## TRIPLETT MODEL 630 MULTITESTER



Black molded plastic case with 5/2 inch Red-Dot 50 microampere meter movement. Ranges: 0-3/12/60/300/1200/6000 volts DC at 20,000 ohms/volt. 0-3/12/60/300/1200/6000 AC V. at 5,000 ohms/V. Direct reading of six decibel ranges from -30 to +70 db. 0-60 DC microamperes, 0-1.2, 12/120 DC milliamperes, 0-12 DC amperes. Resistance: 0-1000/10,000/1 meg/100 meg, with centre scales of 4.4/44/4.4 K/440K. Condenser in series with AC voltage ranges. Single rotary switch. 3-7/32 x 5 1/2 x 7 1/2". With batteries and test leads.

- 25N21493—Shipping weight 6 lbs..... **36.75**

Black leather carrying case. Space for accessories.

- 25N21620—Shipping weight 3 lbs..... **5.63**

Multiplier probe to read up to 12,000 V DC on above.

- 25N21494—Shipping weight 2 lbs..... **14.21**

Multiplier probe to read up to 12,000 V DC on above.

- 25N21495—Shipping weight 2 lbs..... **19.11**

## TRIPLETT LAB MODEL 630A MULTITESTER

A new, deluxe model multitester similar to the Triplet 630 described above, but designed for laboratory use. This fine instrument features a hand drawn, mirrored scale for taking readings that are accurate to 1%. Further accuracy is assured through the use of special resistors with a tolerance of only 1/2 of 1%. Sturdy, black molded plastic case measures 3-7/32 x 5 1/2 x 7 1/2". Complete with batteries and test leads.

- 25N21499..... **46.55**

## CHICAGO MULTITESTER



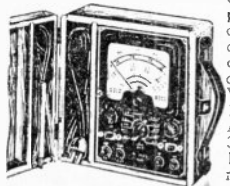
Model 371. Strictly a DC meter, its ranges are as follows: 0-3/15/30/300 volts, 0-25 milliamperes and a resistance scale of 0 to 10,000 ohms. Operates on 2—flashlight cells, included. 1-7/8" x 2 1/4" x 3-7/8".

- 25N21504—Shpg. wt. 3 lbs..... **5.14**

Model 312. For both AC and DC volts: 0-25/50/125/250; Milliamperes: 0-50; up to 100,000 ohms. Black bakelite case.

- 25N21505—Shpg. wt. 3 lbs..... **6.61**

## SUPERIOR MODEL 670 SUPERMETER

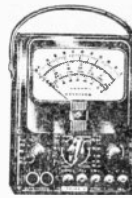


Combination volt-ohm milliammeter plus capacity reactance, inductance and decibel measurements. Includes a special GOOD-BAD scale for checking the quality of electrolytic condensers at a test potential of 150 Volts. Ranges: DC Volts: 0 to 7.5/15/75/150/750/1,500/7,500 Volts. AC Volts 0 to 15/30/150/300/1500/3000 Volts. Output Volts: 0-15/30/150/300/1500/3000 Volts. DC Current: 0-1.5/15/150 Ma. 0 to 1.5 amperes. Resistance: 0-500/100,000 ohms 0 to 10 Megohms. Capacity: .001-.2 Mfd. .1-4 Mfd. (Quality test for electrolytics). Reactance: 700 to 27,000 Ohms, 13,000 Ohms to 3 Megohms. Inductance: 1.75 to 70 Henries, 35 to 8,000 Henries. Decibels: -10 to +18, +10 to +38, +30 to +58. Rugged, crackle-finished steel cabinet. Complete with test leads and operating instruction... Size 5 1/2 x 7 1/2 x 3". For 110 Volts, 60 C.A.S.

- 25N21698—Shipping weight 5 lbs..... **27.83**

- 25N21699—In portable carrying case..... 35.03

## PRECISION SERIES 85 TESTER



Six AC. Output and DC voltage ranges: 0/3/12/60/300/1200/6000; DC ranges at 20,000 ohms per volt, AC and output at 1000 ohms per volt. 6 DC current ranges: 0-120 microamp, 0/1.2/12/120 MA; 0/1.2/12 Amp. Resistance ranges: 0-5000/600M ohms, 0/6/60 megs, 6 DB: -26 to +70 db. Rotary range selectors for all standard functions. In molded bakelite case with plastic handle, and test leads.

Dimensions: 5 1/2 x 7-1/8 x 3". Complete with ohmmeter batteries and test leads.

- 25N21650—Shipping weight 6 lbs..... **37.97**

Series 80. 1000 ohms/volt, 10 meg. res, 400 microampere meter.

- 25N21651—Shipping weight 6 lbs..... **32.05**

Custom leather case for Series 80 and 85 testers.

- 25N21652—Shipping weight 2 lbs..... **8.57**

## NEW TRIPLETT 666R MULTITESTER



Model 666R. A new, precision manufactured pocket tester that provides a complete laboratory for voltage, resistance and direct current checking. Beautiful streamline design with flush panel controls. RED-DOT lifetime guaranteed 3" meter, 0-200 microamps, AC & DC Volts: 0-10/50/250/1000/5000 at 1000 ohms/volt. DC MA: 0-10/100 and 0-1 amp. at 250 MV. Ohms: 0-3000/300,000 (center scale 20/2000); 0-3 megs (center scale 20,030 ohms). Enclosed, molded selector switch keeps dirt out and retains contact alignment permanently. Resistors, shunts, rectifier, batteries all housed in single unit molded base; direct connections without cabling eliminate possibility of shorts. Four jacks at top of panel take care of all normal testing. Supplied complete with batteries, 50" test leads, clips and plugs. Size: 3-1/16 x 5-7/8 x 2-9/16". Weight: 1 1/2 lbs. With instruction Book.

- 23N21497..... **24.01**

## TRIPLETT MODEL 666HH MULTITESTER

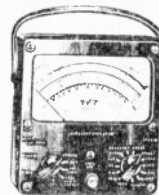
Similar to Model: 666R described above except for 0-200 microamp meter and following differences in ranges: 0-10/100 DC milliamperere range and 0-2000/400,000 ohms with 12/2400 center scale. Has no megohm or DC amp. ranges. All normal functions available from two banana jacks with a special 5000 V. jack. Supplied complete with batteries, 50" test leads, clips and plugs.

- 25N21576..... **21.56**

Black leather carrying case for Triplet Models 666R or 666HH testers.

- 25N21577..... **4.65**

## TRIPLETT ELECTRIC ANALYZER



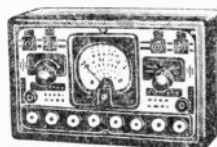
Model 625NA. Multi-range, dual sensitivity. 6" meter with mirrored scale. Ranges: DC volts 0-1.25/5/25/125/500/2500 at 20,000 ohms/volt. 0-2.5/10/50/250/1000/5000 at 10,000 ohms/volt. AC volts 0-2.5/10/50/250/100/5000 at 10,000 ohms/volt. DC microamps 0-50, DC milliamps 0-1/10/100/1000, DC amps 0-10. Resistances 0-2000/200,000 ohms/40 megs. DB ranges -30 to +63 db. Portable case, size 6 x 5 1/2 x 2 1/2". With test leads.

- 25N21475—Shpg. wt. 12 lbs..... **44.10**

Black leather carrying case.

- 25N21476—Shpg. wt. 1 lb..... **5.39**

## RCP MODEL 447 MULTITESTER



1000 ohms/volt. DC volts: 0-5/50/250/500/2500. DC ma: 0-1/10/100/1000. DC amps: 0-1/10. AC volts: 0-10/100/500/1000. Ohms: 0-500/100M/1 meg. DB -8 to +55 db. Output ranges same as AC volts. Open-face hardwood case, test leads, battery. 3x8 1/2 x 5".

- 25N21722—Shpg. wt. 4 lbs. **17.59**

Model 447P, in portable hardwood case.

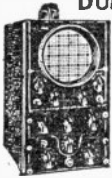
- 25N21721—Shpg. wt. 5 lbs. .... **21.51**

**FOR INDUSTRIAL EQUIPMENT CONSULT OUR INDUSTRIAL DEPARTMENT**



# OSCILLOSCOPES

## DUMONT 5-INCH OSCILLOSCOPE



Model 208B. Calibrated removable scale. Frequency range: Y-axis,  $\pm 10\%$  from 2 to 100,000 sinusoidal cycles; X-axis,  $\pm 15\%$  from 2 to 100,000 sinusoidal cycles. Voltage gain: Y-axis, 2000 times; X-axis, 43 times. Deflection sensitivity: maximum Y-axis .01 RMS volts/inch; maximum X-axis .5 RMS volts/inch. Direct deflection plates 21 and 22 RMS volts/inch, Y-axis and X-axis respectively. Recurrent sweep over continuously variable range from 2 to 50,000 cycles. Black wrinkle enamel finished steel case with leather handle. Size:  $14\frac{1}{2} \times 8\frac{3}{4} \times 19\frac{1}{2}$ ". For 110 volts, 40/60 cycles. Uses 5LP1 tube.

.25N21782 - Shipping Weight: 67 lbs. .... **285.00**

## DUMONT 5-INCH OSCILLOSCOPE



Model 274A. Amplified Sweep Circuit over continuous range from 20 to 50,000 cycles. Input impedance: Horizontal, 5 megohms; Vertical, 1 megohm. Deflection sensitivity: Max. vertical 0.65 RMS volt/in.; horizontal 0.65 RMS volt/in. Input signal may be applied to the vertical plates either directly or through the vertical amplifier through a switch provided on the front panel. Internal modulation of the horizontal beam is provided for by a separate terminal. Horizontal amplifier may be switched to either sweep circuit or external signal. All-metal case finished in black wrinkle enamel. Leather handle. With scope tube grid safety plate. For 115 volts, 50-60 cycles.  $14 \times 8\text{-}5/8 \times 19\text{-}3/8$ ". Shipping Weight: 35 lbs.

.25N21774..... **124.50**

## HICKOK 5-INCH OSCILLOGRAPH



Model 505A. Wide band vertical amplifier from 30 cycles to 1 MC. Horizontal amplifier 10 cycles to 50 KC. Deflection sensitivity .03 volts RMS/inch on vertical. .2 volts RMS/inch on horizontal, 15 volts RMS/inch on horizontal direct. Input impedance is 1 megohm, 25 mmf. on vertical and 4 megohm, 25 mmf. on horizontal. Built-in Wide and Narrow-Band FM oscillator, 3-range frequency compensated attenuator network. Demodulator permits modulated RF signal to be viewed. Signal tracer phone jack. Self-contained mixer circuit for FM output with any good signal generator. Return trace eliminator speeds up FM and AM

alignment. Modulation circuit permits internal or external FM oscillator modulation. Sinusoidal sweep with phasing control. Light shield. Dimensions:  $14" \times 11\frac{1}{2}" \times 19"$ . Shipping Weight: 35 lbs.

.25N21451..... **179.00**

## HICKOK 5-INCH OSCILLOGRAPH



Model 195B. Sinusoidal sweep with phasing control. Wide range sweep circuit oscillator. Deflection sensitivity, Vertical: .03 volts RMS/inch, direct 15 volts RMS/inch. Horizontal: .15 volts RMS/inch, direct 20 volts RMS/inch. Vertical amplifier 30 cycles to 1 MC. Horizontal amplifier 10 cycles to 50 KC. All input terminals at front of panel for convenience. Input impedance: Vertical: 1 meg., 25 mmf. Direct: 2.2 meg. Horizontal: 4 meg., 35 mmf. Direct: 2.2 meg.

Light shield and calibrated screen. Blue Hammer-tex steel cabinet with metal handle. 105-125 volts, 50-70 cycles.  $8\text{-}5/16 \times 18\text{-}1/2 \times 13"$ . Scope tube cradled in rubber. With tubes. Shpg. Wt: 30 lbs.

.25N21594..... **156.00**

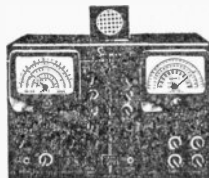
## NEW RCA 5-INCH OSCILLOSCOPE



Model WO-58A. Expressly designed for servicing TV receivers. Gives accurate presentation of synchronizing pulses, deflection waveforms and composite video signals. Step by step tracing of defective signals. Vertical amplifier flat from 5 cycles to 2 MC. Horizontal amplifier  $\pm 10\%$  from 6 to 100,000 cps. Deflection sensitivity vertical amplifier: 0.5 peak to peak V./inch. Input impedance: 1 meg/62 mmfd. Tilt and overshoot on square wave response, less than 2% from 30 to 50,000 cycles. Peak-to-peak voltages can be read at all times during operation. Vertical range control is graduated in suitable voltage intervals, and a calibrating voltage source is provided. Supplied with crystal probe for use in kinescope socket of set under test. 5UP1 Cathode-ray tube easily and quickly replaced without tools. Blue-grey Hammeroid finish case measures  $13\frac{1}{2} \times 9\frac{1}{2} \times 19\text{-}13/32"$ . For 105-125 volts, 50/60-cycle AC. Shipping Weight: 40 lbs.

.25N21518..... **345.00**

## SIMPSON FM-TV GENESCOPE



Model 480. A combination sweep signal generator and oscilloscope that provides all necessary signal sources for proper alignment and servicing of FM and TV receivers. Equipped with high frequency crystal probe for signal tracing. Continuously variable attenuator. Both oscillator dials have 20-1 vernier control and 1000 division logging scale. FM oscillator ranges: 2-120 MC and 142-260 MC. Sweep width variable from 0 to 15 MC at a rate of 60 cps. AM oscillator: 3.5-15 MC, 15-70 MC and 75-250 MC. 30% modulation at 400 cycles or unmodulated. 5 MC crystal calibrator  $\pm .05\%$ ; audio oscillator 400 cycles. Output impedance 75 ohms. Also features step attenuator for control of output. Handles on either side of case facilitates carrying. Dimensions:  $22 \times 14 \times 7\frac{1}{2}"$ . Supplied with test leads. Shipping Weight: 48 lbs.

.25N21519—With Operator's Instruction Manual... **375.00**

## SIMPSON TV-FM SIGNAL GENERATOR

Model 479. Exactly the same as Model 480 described above with exception of the oscilloscope which is not included.  $17 \times 14 \times 7\frac{1}{2}"$ . With Test Leads and Manual. Weight: 35 lbs.

.25N21520..... **245.00**



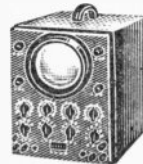
## PRECISION 5-INCH OSCILLOSCOPE



Model ES-500. Excellent performance, visibility and operational flexibility at a moderate cost. Meets the needs of AM, FM and TV servicing work. Response, both amplifiers, from 10 cycles to 1 MC. Linear sweep circuit 10 cycles to 30 KC plus line or external sweep. Vertical amplifier deflection sensitivity .02 volts/inch. 2 megohms input resistance and 22 mmfd capacity. Extended range horizontal amplifier with .5 volts/inch deflection sensitivity. Also features step attenuator plus continuously variable gain control in cathode follower input stage.  $\frac{1}{2}$  meg input resistance and 20 mmfd capacity. Has sweep phasing control for sinusoidal line sweep usage; wide angle bridge circuit. Heavy gauge aluminum panel with removable and rotatable light shield and mask. Black ripple steel case measures  $8\frac{1}{2} \times 14\frac{1}{2} \times 18"$ . Shipping Weight: 35 lbs.

.25N21521—Complete with Instruction Manual..... **146.51**

## NEW JACKSON OSCILLOGRAPH



Model CRO-1. Here is an oscillograph that gives you wide or narrow range, and high or reduced sensitivity with the flip of a switch. This fine instrument is perfectly suited for labs and servicemen. 4.5 MC band width for observation and measurement of pulse wave forms. Vertical amplifier .018 RMS volts/inch on narrow band; horizontal amplifier .55 RMS volts/inch. Input impedance 6 meg/11 mmfd direct balanced; unbalanced 3 meg/22 mmfd.

Horizontal amplifier 1.5 megs. Response on vertical amplifier 20 cycles to 4 MC  $\pm 1.5$  db, easily usable to 5 MC. Saw tooth sweep frequency 20 cycles to 50 KC in five steps. Size:  $10 \times 12\frac{1}{2} \times 15"$ . Shipping Weight: 42 lbs.

.25N21691..... **119.10**

## RCP SCOPE & SWEEP GENERATOR



Model TV90. Combines a complete oscilloscope and sweep generator into one compact unit for all TV testing, alignment and service. Variable linear sweep circuit from 10 to 45,000 cps., and a sensitivity of .285 RMS volts/inch vertical and .32 RMS volts/inch horizontal deflection. Input resistance 1 meg/20 mmfd. Sine wave response, uniform from 5 cycles to 200 KC with  $\pm 2$  db. Frequency range of independent sweep generator 1.5 to 45 MC with choice of any IF frequency desired. Band width continuously variable from .5 KC to 7 MC. For 105-130 V., 50/60-cycle AC. Supplied complete with tubes, probe, coaxial output cable and operating instructions. Hammertone grey case:  $14 \times 8 \times 12\frac{1}{2}"$ .

.25N21643—Weight 25 lbs..... **124.95**

## EICO 5-INCH OSCILLOSCOPE



Low cost quality scope for general AM, FM and TV servicing. Deflection sensitivity: .65 V./inch full gain. Horizontal sweep circuit 15 to 30,000 cps. Horizontal and vertical amplifiers 50 to 50,000 cps. 110-130 V., 50/60 cycles AC.  $8\frac{1}{2} \times 13 \times 17"$ . 30 lbs.

.25N21688—With instructions..... **69.95**

Same as above in Kit Form  
32N24552—NOTHING ELSE TO BUY **39.95**



# INDUSTRIAL & SPECIAL TEST EQUIPMENT

## PORTABLE GEIGER COUNTER



Keleket "Snooper". Earn the \$10,000 government bonus for discovery of ore having a content of .05% U3O8 with this complete, portable counter. Responds to radiation from radio-active materials. Designed for locating new deposits of carnotite, pitchblende, curite, or other radio-active materials; Uranium can be found even when covered with thick overburden. Highly sensitive to both beta and gamma rays. Small and compact it measures only 6 1/2 x 3 3/4 x 2 1/4". No bothersome Geiger probe is required. Only two ordinary flashlight batteries are used for power. Battery life exceeds 50 hours. Uses single or double headphones, magnetic type, 1000 to 24,000 ohms impedance. May be connected to P.A. system for classroom demonstrations. Less phone, Shipping Weight: 3 lbs.

25N21635..... **45.00**

## DUMONT ELECTRONIC SWITCH



Model 185A. Permits the simultaneous observation, for purposes of comparison, of two or more independent signals on the screen of a single cathode ray oscillograph. Square wave signals may be used in studies of vacuum tube amplifiers and other networks over a range of 10 to 500 c.p.s. Switching rate 10-2000 times per second. Input resistance 100,000 ohms. Output resistance 50,000 ohms. All controls and connections on front panel for convenience and ease of operation. Complete with tubes. Black wrinkle finish steel cabinets. Size: 11-1/2" x 7-5/8" x 13". For operation on 115 volts, 40-60 cycles only.

25N21783-Shpg. Wt: 17 lbs. .... **105.00**

## DUMONT VOLTAGE CALIBRATOR



Type 264-A. Designed to measure the peak-to-peak voltage of any signal viewed on any commercial cathode-ray oscillograph. Its square-wave output is continuously variable from 0 to 100 volts in 4 ranges. By throwing a selector switch, the signal to be measured or any of 4 ranges of calibrating voltage is applied to the input of the oscillograph, eliminating the need to switch leads between signal and calibrating voltage. Amplitude measurements of any part of a complex, composite waveform may be made. Range: 0-0.1; 0-1.0; 0-10; 0-100 V. Accuracy: ±5% of full scale on each range. Input impedance: 20 mmfd. Overall dimensions: 4 1/2" x 8" x 5 1/4".

25N21672-Shpg. Wt: 10 lbs. .... **39.50**

## INDUSTRIAL AND SPECIAL TEST EQUIPMENT

PLEASE NOTE: Just a reminder that our test equipment is available on our convenient TIME PAYMENT PLAN. This applies to orders for this merchandise whether listed here or not. Lafayette-Concord can obtain any piece of test equipment you desire, on special order. Write for full details and manufacturer's specifications on the items you want.

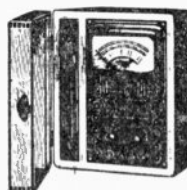
## DUMONT 3-INCH OSCILLOGRAPH



Model 164E employs 3AP1A tube. Amplified sweep circuit over continuous range from 15 to 30,000 cycles. Input impedance vertically: 1,000,000 ohms; horizontally: 800,000 ohms. Maximum potential 400 DC volts. Deflection sensitivity: maximum vertical 0.85 r.m.s. volt/in.; maximum horizontal 0.65 r.m.s. volt/in. Handy deflection-plate terminals available at rear. Frequency range: vertical and horizontal amplifiers both uniform within 20% from 5 to 100,000 cycles. Horizontal amplifiers may be switched to amplify either sweep circuit or external signal, so that Lissajou patterns for frequency determination may be used. In black wrinkle finish steel cabinet. Plastic scope screen. For operation on 115 volts, 40-60 cycles. Size: 11-5/8" x 7-3/8" x 14".

25N21557-Shpg. Wt: 25 lbs. .... **124.50**

## RCP HI-MEGOHM MULTITESTERS



Accurate high megohm range requires no batteries or tubes. Rectangular 4-5/8" meters provide excellent readability with ±2% accuracy. Output ranges correspond to the AC voltage ranges. Attractive natural finish, portable oak cases with leads. Case has removable hinged cover with latch and leather handle. Dimensions: 8-7/8 x 7-1/2 x 4-3/4". Wt: 4 1/2 lbs.

Model 450AP-1000 Ohms/Volt Meter Sensitivity Ohmmeter: 0/5000/500,000, 0-50 mega; DC V.: 0-5/50/125/500/2500; AC V.: 0-10/100/250/1000; DC MA: 0-0.25/10/100/1000; db: -9 to +55. .... **24.45**

Model 450BP-5000 Ohms/Volt Meter Sensitivity Ohmmeter: 0/5000/500,000, 0-100 mega; AC & DC volt ranges and decibels same as Model 450AP. DC MA: 0-.5/10/100/1000. .... **27.93**

Model 450CP-20,000 Ohms/Volt Meter Sensitivity Ohmmeter: 0-5000; 0-5/1000 mega; AC & DC volt ranges and db. same as 450AP; DC MA: 0-.1/10/100/1000. .... **34.25**

# SPECIAL PROBES

## REINER TYPE "Z" MULTIPLIER PROBES



Multiply the DC voltage ranges on your present VTVM 100 times. Especially designed with connectors to fit models of test instruments listed.

Stock No.	Manufacturer	Mfrs. No.
25N21800	Electronic Design	100
25N21800	Reiner Electronics	450, 451
25N21800	Superior Instrument	400
25N21800	RCA VoltOhmyst	MV-65A, WV-75A, 165A, 165S, 165
25N21800	RCA Rider Chemalyt	162, 162A, 162B, 162C
25N21800	Triplett Elec. Inst.	2450, 2451
25N21801	Electronic Instrument	MA-113A, 210, 221, 221K
25N21802	Precision Apparatus	EV-10
25N21803	RCA VoltOhmyst	195, 195A
25N21803	RCA Audio Chemalyt	170A

YOUR PRICE, For Each of the Above Types..... **12.69**

## FEILER SIGNAL TRACING PROBE



Type TS-6C. Use with any high-gain amplifier as audible tracer or oscilloscope or VTVM as Visual tracer. IN34 crystal. Measures up to 50 volts RF. Shipping Wt: 1 lb.

25N21763..... **7.50**

## Hickok Crystal Demodulator Probe



Type 34. Used with any oscilloscope to trace up to 500 MC modulated RF thru any receiver from antenna post to detector or discriminator.

25N21759-Shpg. Wt: 1 lb. .... **8.40**

## MULTITESTER HV PROBES



For all VTVM & Multimeters. Measures HV in TV FM x-ray. Utilize lowest range on your meter scale, and multiply readings by 1000.

Increases range of any 20,000 ohms/volt multitester to 30,000 volts. .... **10.73**

25N21804..... **10.73**

Increases range of any 5000 ohms/volt multitester to 30,000 volts. .... **10.73**

25N21805..... **10.73**

Increases range of any 20,000 ohms/volt multitester to 25,000 volts. .... **10.73**

25N21806..... **10.73**

Increases range of any 5000 ohms/volt multitester to 25,000 volts. .... **10.73**

25N21807..... **10.73**

## NEW HICKOK TV PROBE



Model TVP-1. With this probe, circuit characteristics shown in set manufacturers service manuals can be viewed accurately without misaligning stages, especially where capacitance in ordinary cable would produce improper pictures. Input impedance 25 mmfd. Frequency response linear 20 cycles to 1 MC. Supplied with 4-ft. heavy duty cord and spade connectors. Light, easy to handle black and chrome probe. .... **12.00**



# TEST EQUIPMENT "Build-It-Yourself" KITS

## **ETCO** HIGH QUALITY KITS

### OSCILLOSCOPE KIT



Model 400K. 5" oscilloscope. An indispensable aid for AM, FM and Television servicing. Horizontal sweep circuit 15 to 30,000 cycles. Frequency response of vertical and horizontal amplifiers 50 cycles to 50 KC. Deflection sensitivity .65 volts per inch full gain. Input impedance 1 megohm and 59 mmfd. Provision for external synchronization, test voltage and intensity modulation. Complete with tubes: 2-6S J7, 2-5Y3, 1-884, 1-5BP1. Linear sweep with 884 gas triode. Graph screen. Size: 8 1/2" Wx 13" Hx 17" D.

32N24552—Shpg. Wt: 40 lbs. .... **39.95**  
 25N21688—As above, but wired. Ready for use. .... 69.95

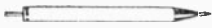
### VTVM KIT



Model 221K. A precision type vacuum tube voltmeter kit at a price everyone can afford. 4 1/2" meter. All multiplier resistors matched to 1% accuracy. DC and AC volt ranges: 0-5/10/100/500/1000. Ohmmeter ranges: .2 ohms to 1000 megohms in steps Rx1, Rx10, Rx100, Rx10,000 and Rx1 megohm. DB scale: -20 to +55 db in 5 ranges. DC input resistance 25 megohms. AC input impedance is over 1 1/2 megohms. Size: 9-7/16 x 6x5". Complete with tubes.

32N24540—Shpg. Wt: 10 lbs. .. **23.95**

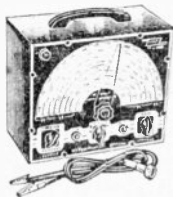
### H. F. PROBE KIT



Model P-75K. Germanium crystal probe for visual RF signal tracing and measurements to over 200 megacycles. For use with the above oscilloscope or VTVM.

32N24533—Shipping Weight: 8 oz. .... **3.75**

### SIGNAL GENERATOR KIT

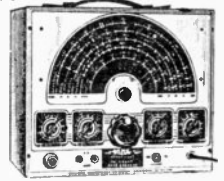


Model 320. Features highly stable Hartley oscillator with frequency range of 150 KC to 100 MC on 7 calibrated bands. Fundamentals to 34 MC. Can be modulated with pure 400-cycle audio supplied by Colpitts type oscillator included. Audio voltage can also be obtained externally. Simple to align. Handsome etched panel with easy-to-read calibrations. Complete with tubes. Ship-Weight: 22 lbs.

32N24562..... **19.95**

Build your own test equipment this practical, easy, money-saving way. Excellent for schools, laboratories, servicemen and hams. Instructions for step-by-step assembly and easy to follow diagrams, included in every kit. For other "build-it-yourself kits" see pages 125, 126 and 127.

### FM/TV SWEEP GENERATOR KIT



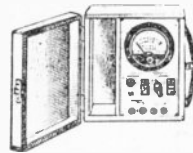
A new standard in FM and TV sweep generator performance. Features special Midline capacity tuning condenser. High frequency insulation throughout. Generator output can be used as either frequency modulated or pure RF. Built-in power line filter. Sweep width 500 KC to approximately 10 MC. Frequency range covered in 3-bands: 2-77 MC; 40-154 MC; 151-227 MC. No bandswitching necessary. Tube lineup: 2-6S J6, 2-6C4, 1-7Y4. Maximum output 500,000 UV. For 105-125 volts 50/60-cycle AC operation. Complete with tubes, cables, and heavy gauge steel cabinet, battleship grey crackle finish. Dimensions: 8x10x12". Shpg. Wt: 25 lbs.

32N24599..... **24.50**

Same as above, but assembled and ready for use.

25N21736..... 34.95

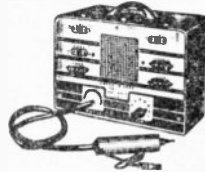
### MULTITESTER KIT IN PORTABLE CASE



A versatile, compact test instrument ideal for radio receiver servicing. Equipped with 3 1/2" round 0-1 MA meter. Voltage range, AC/DC: 0-5/50/150/500/1500. Sensitivity 1000 ohms/Volt. Milliamperes DC range: 0-5/50/150. Ohms range: 0/2000/20,000/200,000. Internal source 4 1/2 volts. Comes complete with handsome portable case. 5 1/2 x 7 x 3 1/2".

32N24458—Shpg. Wt: 5 lbs. .. **13.45**

### FEILER SIGNAL TRACER KIT



Model TS-3. Electronic "stethoscope" that gets to the heart of radio troubles in a flash. Completely portable and AC operated. Uses biased diode detector probe. Does not upset the most critical circuits. 5" PM dynamic speaker included. Makes audible all signals - 30 cps to 120 MC - RF, IF, Audio - without using special controls or tuning. Provision for output meter for silent tracing. Output connections to enable the use of an RF vacuum-tube voltmeter for visual indications. All-metal cabinet finished in handsome Brown iridescent enamel included. For 115 volts, 50/60-cycle. Size: 11 1/2" x 8" x 6". With diode detector probe and leads.

32N24565—Shpg. Wt: 22 lbs. Complete Kit..... **22.75**

25N21778—As above, but assembled. Ready. For use... 34.95

## SIGNAL TRACERS

### SIGNALETTE SIGNAL TRACER



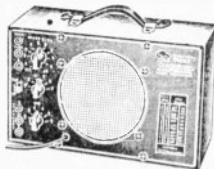
Vacuum-tube aid for signal tracing and quick check in alignment of sets. RF, IF and AF signals from 2500 cycles to 20 mc. Used for checking sensitivity, audio amplifier gain, and AVC.

25N21764—Each..... **9.95**

### SIGNAL TRACER AND TEST SPEAKER

Silver model 905A. Effectively traces signals through AM, FM, TV sound and TV video R.F., I.F. and A.F. circuits. Built-in 18-watt output transformer and high-quality 6" PM speaker. Two panel knobs give instant choice of 30 transformer primary impedances. Speaker can also be used separately. Probe frequency range: 20 cycles to 300 megacycles. Amplifier frequency range: 60 to 20,000 cycles flat to ±4 db. Undistorted power output: 3.4 watts. Sensitivity: 50 microvolts for 50 milliwatt output. Probe capacitance: 2 mmfd. Probe input resistance: 2 megohms. For 105/125 volts, 50/60 cycles AC. Complete with tubes, probe & prod tips, 6-ft line cord.

25N21548—Shpg. Wt: 14 lbs. .... **44.50**



### PRECISION SIGNAL TRACER

AC operated portable tracer. Excellent for trouble shooting AM, FM and TV sound circuits from 30 cycles to over 100 MC. Separate channel for audio frequencies. HF tube in probe with 3-tube high-gain amplifier makes all signals audible and does not upset the most-sensitive circuit. Full control of RF-IF stage provided by variable control and resistive attenuator. Attractive metal cabinet contains built-in speaker and all controls. Complete with tubes, HF probe and test leads. 110 volt, 50/60-cycle. Size: 9 1/2 x 6 1/2 x 6 1/4".

25N21799—Shpg. Wt: 11 lbs. .... **34.50**



### FEILER APPLIANCE TESTER

Tests any appliance while in operation in a few seconds. Tells whether circuit is shorted, open or has correct resistance. Unique system of light indicators gives positive proof of condition of circuits. Operates from 95-125 volts DC and 25, 50 and 60-cycle AC. Tests any 95-125V. DC and 25, 50, 60-cycle electrical appliance. Supplied complete with test leads, and a "Basic Course in the Fundamentals of Appliance Repair". Dimensions: 8 x 6 x 1 1/2".

25N21516—Shpg. Wt: 10 lbs..... 18.95



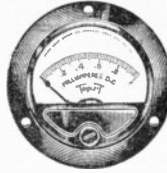


# PANEL METERS

## TRIPLETT METER DIMENSIONS



Model	Flange	Body Dia.	*Body Depth
221-T, 241-T	2 1/16" sq.	2 1/8"	1 5/8"
227-T	2 3/8" sq.	2 3/8"	1 11/16"
231-S	2 1/16" sq.	2 1/8"	2"
237-S	2 3/8" sq.	2 3/8"	1 37/64"
321-T, 341-T	3 1/2" x 3"	2 3/8"	1 5/8"
327-T, 347-T	3 1/2" x 3"	2 3/8"	1 11/16"
331-S	3 1/2" x 3"	2 3/8"	1 25/32"
337-S	3 1/2" x 3"	2 3/8"	1 27/32"



## SHURITE METERS

Model 550, round, with clamp. Model 950, square, flange mounted. Both models require 2 5/8" hole.

## TRIPLETT ROUND AND SQUARE CASE PANEL METERS

Incorporate finest materials and workmanship. Molded cases, all terminals molded in. Sapphire jewels in adjustable screws. Accurate within 2%.

### D.C. MILLIAMMETERS—ROUND AND SQUARE CASE

Range	2" Round 221-T		2" Square 227-T		3" Round 321-T		3" Square 327-T	
	No.	Each	No.	Each	No.	Each	No.	Each
0-1	25N11208	6.76	25N11288	6.76	25N11200	6.76	25N11320	6.76
0-1.5	25N11209	6.76	25N11289	6.76	25N11201	6.76	25N11321	6.76
0-3	25N11415	6.76	25N11290	6.76	25N11411	6.76	25N11322	6.76
0-5	25N11416	5.68	25N11298	5.68	25N11412	5.68	25N11323	5.68
0-10	25N11210	5.68	25N11299	5.68	25N11202	5.68	25N11324	5.68
0-15	25N11211	5.68	25N11300	5.68	25N11203	5.68	25N11325	5.68
0-25	25N11398	5.68	25N11306	5.68	25N11394	5.68	25N11326	5.68
0-50	25N11212	5.68	25N11309	5.68	25N11204	5.68	25N11327	5.68
0-100	25N11213	5.68	25N11311	5.68	25N11205	5.68	25N11328	5.68
0-150	25N11417	5.68	25N11312	5.68	25N11413	5.68	25N11329	5.68
0-200	25N11214	5.68	25N11313	5.68	25N11206	5.68	25N11330	5.68
0-250	25N11418	5.68	25N11314	5.68	25N11414	5.68	25N11331	5.68
0-300	25N11287	5.68	25N11315	5.68	25N11395	5.68	25N11332	5.68
0-500	25N11215	5.68	25N11316	5.68	25N11207	5.68	25N11333	5.68
0-750	25N11400	5.68	25N11317	5.68	25N11396	5.68	25N11334	5.68
0-1000	25N11401	5.68	25N11318	5.68	25N11397	5.68	25N11335	5.68

### D.C. MICROAMMETERS—ROUND AND SQUARE CASE

Range	3" Round 321-T		3" Square 327-T		
	No.	Each	No.	Each	
0-50	25N11352	10.68	0-50	25N11354	10.68
0-100	25N11353	10.68	0-100	25N11355	10.68
0-200	25N11434	8.72	0-200	25N11356	8.72
0-500	25N11435	8.13	0-500	25N11357	8.13

### A.C. VOLTMETERS—ROUND AND SQUARE CASE

Range	2" Round 231-S		2" Square 237-S		3" Round 331-S		3" Square 337-S	
	No.	Each	No.	Each	No.	Each	No.	Each
0-5	25N11280	5.68	25N11449	5.68	25N11273	5.68	25N11459	5.68
0-10	25N11281	5.68	25N11454	5.68	25N11274	5.68	25N11460	5.68
0-15	25N11282	5.68	25N11455	5.68	25N11275	5.68	25N11461	5.68
0-25	25N11283	5.68	25N11456	5.68	25N11276	5.68	25N11462	5.68
0-50	25N11284	5.68	25N11380	5.68	25N11277	5.68	25N11381	5.68
0-150	25N11286	6.76	25N11457	6.76	25N11279	6.76	25N11463	6.76
0-300	25N11409	8.33	25N11458	8.33	25N11406	8.33	25N11464	8.33
0-500	25N11410	11.56	25N11453	11.56	25N11407	11.56	25N11452	11.56
0-15-150	.....	.....	.....	.....	25N11408	.....	25N11465	13.52

### A.C. MILLIAMMETERS

Model 231-S			Model 331-S			Model 231-S			Model 331-S			
No.	Each	Ma.	No.	Each	Ma.	No.	Each	Ma.	No.	Each	Ma.	
25N11420	6.76	0-10	25N11419	7.74	25N11271	5.68	0-50	25N11267	6.66	25N11081	2.45	
25N11269	5.68	0-15	25N11265	6.66	25N11272	5.68	0-100	25N11268	6.66	25N11082	2.45	
25N11270	5.68	0-25	25N11266	6.66	25N11423	5.68	0-250	25N11421	6.66	25N11083	2.45	
					25N11424	5.68	0-500	25N11422	6.66	25N11084	2.45	
									25N11085	2.94	25N11008	3.09

### D.C. VOLTMETERS

125 Ohms per Volt.

Range	Model 221-T		Model 321-T	
	No.	Each	No.	Each
0-5	25N11247	5.68	25N11230	6.66
0-10	25N11248	5.68	25N11231	6.66
0-15	25N11249	5.68	25N11232	6.66
0-25	25N11250	5.68	25N11233	6.66
0-50	25N11251	5.68	25N11234	6.66
0-150	25N11253	5.68	25N11236	6.66
0-250	25N11254	6.96	25N11237	7.94
0-500	25N11405	8.53	25N11404	9.51

### D.C. VOLTMETERS

1000 Ohms/Volt Model 321-T.

Range	No.	Each
0-10	25N11240	9.21
0-50	25N11241	9.21
0-100	25N11242	9.51
0-150	25N11243	9.51
0-500	25N11244	12.94
0-1000	25N11363	11.66

### D.C. AMMETERS

With internal shunt.

Amps.	Model 221-T		Model 321-T	
	No.	Each	No.	Each
0-1	25N11223	5.68	25N11216	6.66
0-3	25N11376	5.68	25N11372	6.66
0-5	25N11224	5.68	25N11217	6.66
0-10	25N11225	5.68	25N11218	6.66
0-15	25N11377	5.68	25N11373	6.66
0-25	25N11378	5.68	25N11374	6.66
0-30	25N11379	5.68	25N11375	6.66

### A.C. AMMETERS

Amps.	Model 231-S		Model 331-S	
	No.	Each	No.	Each
0-1	25N11260	5.68	25N11255	6.66
0-3	25N11261	5.68	25N11256	6.66
0-5	25N11262	5.68	25N11257	6.66
0-10	25N11263	5.68	25N11258	6.66
0-25	25N11264	5.68	25N11259	8.66
0-30	25N11384	5.68	25N11429	8.66
0-50	25N11385	5.68	25N11431	6.66

### D.C. VOLTMETERS

Range	Model 550		Model 950	
	No.	Each	No.	Each
0-3	25N11052	1.27	25N11010	1.42
0-8	25N11055	1.27	25N11013	1.42
0-10	25N11056	1.32	25N11014	1.47
0-15	25N11057	1.37	25N11015	1.52
0-25	25N11059	1.27	25N11016	1.42
0-50*	25N11062	2.74	25N11019	2.89
0-100	25N11063	1.47	25N11020	1.62
0-150	25N11065	1.65	25N11023	1.81
0-300	25N11067	3.18	25N11025	3.33
0-500	25N11068	3.67	25N11026	3.82

\* Indicates high resistance meters.

### A.C. VOLTMETERS

0-15	25N11075	2.30	25N11031	2.25
0-150	25N11076	3.04	25N11032	3.18
0-300	25N11077	3.63	25N11033	3.77

### D.C. MILLIAMMETERS

Range	Model 550		Model 950	
	No.	Each	No.	Each
0-3	25N11109	1.96	25N11160	2.11
0-5	25N11050	1.81	25N11150	1.96
0-10	25N11100	1.71	25N11151	1.86
0-15	25N11101	1.32	25N11152	1.47
0-25	25N11102	1.27	25N11153	1.42
0-50	25N11103	1.27	25N11154	1.42
0-100	25N11104	1.27	25N11155	1.42
0-150	25N11105	1.27	25N11156	1.42
0-200	25N11106	1.27	25N11157	1.42
0-300	25N11107	1.27	25N11158	1.42
0-400	25N11108	1.22	25N11159	1.37

### D.C. AMMETERS

0-1	25N11091	1.27	25N11162	1.42
0-3	25N11092	1.27	25N11163	1.42
0-5	25N11093	1.27	25N11164	1.42
0-10	25N11094	1.27	25N11165	1.42
0-15	25N11098	1.27	25N11169	1.42
20-0-20	25N11099	1.37	25N11170	1.52

### A.C. AMMETERS

0-1	25N11081	2.30	25N11004	2.45
0-3	25N11082	2.30	25N11005	2.45
0-5	25N11083	2.30	25N11006	2.45
0-10	25N11084	2.30	25N11007	2.45
0-50	25N11085	2.94	25N11008	3.09

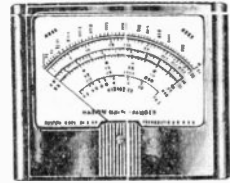
### RESISTANCE METER

Direct reading 10,000 ohms, 4.5 volts.

25N11078.....1.76 25N11071.....1.91

### FLANGE FOR ROUND METERS

25N11041—2 3/8" Black Finish.....Each 18¢



### MARION MULTI-RANGER METERS

Foundation meter is designed to permit the user to assemble a highly accurate Volt-Ohm-Milliammeter. Have full 100 degree three-color scales reading 0-10, 0-50, 0-250, 0-1000 A.C. and D.C. Volts. 0-1, 0-10, 0-50, 0-500 Milliamps. 0-500, 0-100M, 0-1 Meg, 0-10 Megohms. -10 to 54 decibels. Available in three sizes as listed below.

No.	Model	Size	Each
25N10720	53SN	3" Square	7.84
25N10721	55	4 5/8" x 4 1/8"	9.80
25N10722	57S	7" x 8 1/2"	13.06

### SHUNT AND RESISTOR KIT

Kit for Marion Multi-Ranger foundation meter. Consists of 14 metalized carbon film resistors and 4 Manganin wire wound shunts. Complete with schematic diagrams.

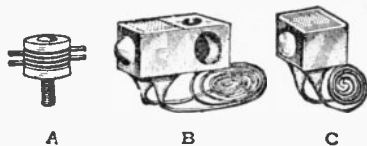
25N10719.....8.16



### TRIPLETT POWER LEVEL IND



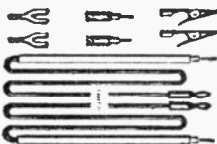
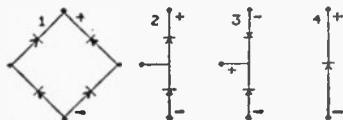
# METER RECTIFIERS



## CONANT INSTRUMENT RECTIFIERS

General replacement for all types of meters and relays. "A" for applications requiring more than one milliamp current output. Disc diameter .50 inch. "B" for applications requiring good frequency response and less than one mil. current output. "C". Same as "B" but outside case fits standard midget fuse clip. Ratings shown are continuous peak. Intermittent are twice figures shown. Instantaneous are three times the figures shown.

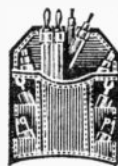
No.	Diag.	Fig.	Volts	M.A.	Each
25N10569	1	A	10	30	2.06
25N10550	2	A	5	30	1.50
25N10551	3	A	10	30	1.50
25N10552	4	A	5	30	1.18
25N10572	1	B	10	5	2.06
25N10553	2	B	5	5	1.50
25N10554	3	B	10	5	1.50
25N10555	4	B	5	5	1.18
25N10556	1	C	10	5	2.06



## PENCIL PROD KIT

Spring prongs at end of prods allow changing from spade lugs to phone tips or spring clips. Handles 6" long, 1/4" diameter. Red and Black kinkless wire. Kit comes complete with two alligator clips, two needle point phone tips and two tapered lugs.

25N12971—Prod Kit.....**1.47**  
As above, with fixed Spring Clip Ends.  
25N12882......73c  
As above, with Phone Tip Ends.  
25N12883......68c

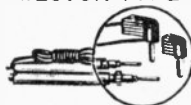


## ICA TEST LEAD KIT

Contains pair of test leads with 60" Red and Black kinkless wire, one end with insulated phone tips, other insulated removable banana plugs. Comes in leatherette case, complete with pair of alligator clips, spade plugs, needle points.

25N12861—Complete kit.....**2.06**

## WESTON TYPE TEST LEADS



5" long handles of red and black phenolic, with kinkless rubber wire. 65" overall length. Comes complete with molded finger grip tips with set screws.

25N12988—Per pair.....**1.03**



E



## ELECTROX RECTIFIER UNITS

5 ma at 3 volts DC

D. Full wave copper oxide rectifier in metal housing with four insulated 3-inch leads. Continuous output of 5 ma at maximum of 3 volts DC. Maximum input 4 volts AC.

25N10566.....**2.59**

20 ma at 3 volts DC

E. Full wave copper oxide rectifier in bakelite housing with five insulated 3-inch leads. Continuous output of 20ma at maximum of 3 volts DC. Maximum input 4 volts AC.

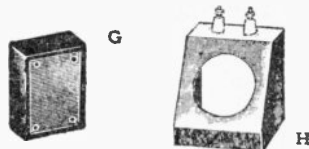
25N10567.....**1.95**

64 ma at 3 volts DC

F. Full wave copper oxide rectifier with five insulated 3-inch leads. Continuous output of 64ma at a max. of 3 volts DC. Max. input 4.1 volts AC.

25N10568.....**1.75**

# ACCESSORIES



## BAKELITE METER BOX

G. Sturdy heavy molded plastic meter case. Will withstand rugged use without damage to case or meter. Overall dimensions 6 13/16" x 5 5/16". Inside dimensions: 6 1/2" x 5 x 2 1/8". Panel mounting screw inserts are molded into case.

Shipping weight 3 lbs.  
25N21418—Less Panel..... **90¢**  
Bakelite Panel for above. Shipping weight 1 lb.  
25N21419......60c

## RELIANCE METER CASES

H. Black crackle finish steel cases 4 x 4 x 4 1/4" high. Two ceramic insulators. Shipping weight 2 lbs.  
25N10398—2 3/16" dia. hole..... **1.10**  
25N10399—2 13/16" " " ..... 1.10

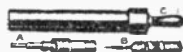
## AMPHENOL ADAPTORS

A simple way to make adaptors suitable for modernizing tube checkers and analyzers, adapting new tubes to old circuits and for connections to output meter, phonograph pickup, etc. Socket tops & bases.



No.	Socket	Type	Price
13N13085	8 (Octal)	44-8	14c
13N13086	Loctal	44-L	14c
13N13087	9 Pin (Novel)	44-9	26c
No.	Base	Type	Price
13N13088	8 (Octal)	50-8SG	22c
13N13089	Loctal	44-13	39c

# TEST LEADS AND PRODS



## INSULATED TEST PRODS

Type A: standard solderless phone tip with knurled collar; Type B has chuck and nut to hold plain phono needle; Type C has banana plug to fit standard banana jack. Available in Red and Black—specify color.

### SOLDERLESS PROD (A)

No.	Length	Each
25N12881	5 1/4"	24c
25N12884	6 1/2"	29c
PHONO NEEDLE TIP (B)		
25N12868	4 1/4"	24c
25N12869	5 1/8"	26c
BANANA PLUG TIP (C)		
25N12912	2 1/4"	24c
25N12910	3 5/8"	26c

## ICA "NO BREAK" PRODS

Top grade insulated prods of solid brass, nicked and covered with shockless live rubber—one Red, one Black. Tips are sharp pointed type. Other end of 50" kinkless rubber wires have solderless insulated phone tips.

23N12999—Pair..... **68¢**

As above but with standard phone tips.  
25N13000—Pair.....59¢

## ICA LABORATORY PRODS

Contains removable phono needle chucks. Extra-long slim Black and Red handles knurled at end for easier grip. Handles are 6 inches long with 48 inch length heavy duty kinkless and extra tra-flexible rubber wire. Choice of space or phone tips.

25N12978—Spade Tips.....Pair Each

25N12979—Phone Tips.....Pair **82¢**

## 15,000-VOLT TEST LEADS

Designed for high voltage TV measurements. Thick walled bakelite handles with finger guards withstand 15,000 Volt DC. 48 inch heavy cable connected to plugs.

25N15238.....**2.94**

## SAFE-T-TESTER

Tester has spring in handle. Contact is made only when pressure is applied. 10,000 volts insulation. 7" handle, 48" leads. Ideal for small-space probing. Fits standard jack.

25N15237.....**88¢**



## NEEDLE & SOLDERLESS TIP PRODS

Red and Black colored kinkless wire with sturdy fibre handles 4 inches long and 3/8 of an inch in diameter. Type A: chucks and nuts hold plain phonograph needles. Type B contains solderless tip with long point. Both type leads are 50 ins. in length.

### NEEDLE TIP PRODS (A)

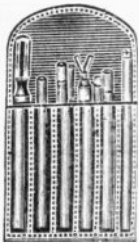
No. Wire Ends Pair  
25N12976—Phone Tips.....53c  
25N12975—Spade Lugs.....53c  
25N12977—Alligator.....65c

### SOLDERLESS TIP PLUGS (B)

25N12968—Phone Tips.....**53¢**  
25N12969—Spade Lugs.....53c  
25N12970—Alligator.....65c



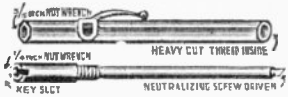
# TV & RADIO ALIGNING TOOLS



## ICA ALIGNING KIT

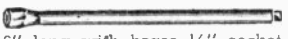
14 tools conveniently designed to telescope into six easy-to-carry units in compact case. Tools include: a flexible screwdriver, alignment tool, alligator side wrench, 6" insulated driver—metal nib, 5/16" and 1/4" nut wrench, 1/4" insulated square nut wrench, 1/4" hex metal side wrench, 2 1/2" insulated driver with metal nib, 1/4" hex slotted insulated wrench driver, 5/16"

hex insulated nut wrench, 5" and 6" insulated driver.  
**18N15088—Kit..... 4.41**  
 As above, less flexible screwdriver and aligning tool.  
**18N15089..... 2.75**



## 4-IN-1 NEUTRALIZING TOOL

1/4" nut wrench with key slot and aligning screwdriver. Sturdily made of molded bakelite. Includes pen clip for attaching to pocket.  
**18N14915—Complete..... 50c**



## HEX SOCKET ALIGNER

6" long with brass 1/4" socket head and screwdriver bit end.  
**18N15104—Shaft diameter 7/32"..... 41c**



## ICA ALIGNING TOOL SET

6" long, 3/8" diameter tool with brass wrenches for 1/4" and 5/16" hex nuts, plus 7/32" screwdriver rod.  
**18N15083—Set, fits together..... 73c**



## UHF ALIGNING TOOL

Amphercol polystyrene. Large end has a metal tip; small diameter end has been lengthened for TV set adjustments.  
**18N15075—Won't effect capacity of circuits..... 15c**



## ICA LOW "C" ALIGNER

Low capacity screwdriver for aligning superhets. 1/4" bone fibre, two nibs: one recessed, one 1/2" long.  
**18N15145..... 43c**



## ICA 5-IN-1 ALIGNER KIT

Combines 1/4" and 5/16" nut wrenches, miniature blade full-size screwdriver in fountain pen size tool.  
**18N15082—3-pc. Set..... 79c**



## FIBRITE SCREWDRIVER

2-ended driver for trimmer condensers.  
**18N15150—7/32" diameter 7" long..... 23c**  
**18N15151—5/16" diameter 7" long..... 41c**



## SOLID TUNING WAND

6" rod, one end brass loaded, other core steel. Insulated.  
**18N14976..... 59c**



## V.H.F. FLEXITUNER

Tuning wand, designed for FM, TV, and other high fidelity applications. Powdered iron core, copper slug ends. Increases, decreases inductance.  
**18N14977..... 39c**



## NEUTRALIZING DRIVER

Especially made for aligning coils, condensers, etc. Size: 6 1/4 x 1/4".  
**18N15080..... 24c**

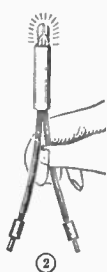
## NEON TESTER



(1) New neon electrical tester indicates voltage from 60 to 500 volts, operating on AC or DC. Especially useful in tracing shorts, open or grounded circuits.  
**25N12958..... 29c**

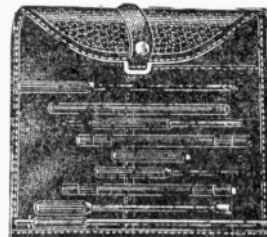
## NEON CIRCUIT TESTER

(2) Shows open circuits, polarity, continuity, etc. Checks fuses in circuits. Tiny neon lamp glows on .1 ma. Coded leads have phone tips. AC-DC.  
**25N11310—90-550 V. Tester..... 59c**  
**25N11308—5-50 V. Tester..... 1.10**



## TV SERVICING KIT

A compact tool kit for all TV servicing. Contains 9 tools including one each of stock numbers 15227, Big Stretch Aligner; 15228, Tran-Aligner; 15229, Slim Aligner; 15234, Tuning Wrench; 15231, Dual Aligner; 15232, Deep-Nib Aligner; 15235, Tuning Wand; 15233, Channel Tuner; also one stackpole core aligner. See copy below for description of these tools. Supplied complete in leatherette case.



**18N15226..... 4.09**

## "BIG STRETCH" ALIGNER



For adjustment of nested iron cores of Admiral, Zenith and similar TV sets. Extra thin, 9" bone fiber tool with 6 1/2" blade. Also for RCA front ends.  
**18N15227..... 59c**

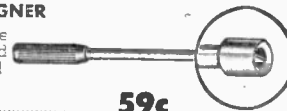
## TRAN-ALIGNER



New, all-insulated aligning tool for standard IF and RF, and "K-Tran" midget transformers. Milled at one end, screw driver at other. 2 1/2" blade. Fiber handle.  
**18N15228—6" overall..... 44c**

## SLIM ALIGNER

Has extra thin recessed blade and slim metal shaft for cramped probing in TV receivers. For Admiral and similar makes.



**18N15229—Fiber handle..... 59c**

## TUNING WRENCH



Insulated fiber with extra thin recessed blade on one end and extra thin screw driver blade on other. Tenite handle. Designed especially for Zenith TV sets, etc.  
**18N15234—4 3/4" long..... 44c**

## STUB ALIGNER



Ideal when cramped space demands short insulated tuning tool. Exposed nib for screw driver type controls not carrying high voltages. Tough fiber handle.  
**18N15230—2 1/2" long x 1/4" diameter..... 24c**

## DUAL ALIGNER



Narrow shaft, fiber alignment tool for trimmers, IF transformers, etc. Dual purpose type with recessed screw nib on one end and metal screw driver on other.  
**18N15231..... 44c**

## DEEP-NIB ALIGNER

For tuning IF & RF shielded coils and trimmers. Fits under TV tubes without removing tubes. Insulated nib set in barrel end.



**18N15232—2 1/2" L. x 1/4" diam..... 29c**

## TUNING WAND

Extra thin diameter to fit small coil openings in TV sets. Flexible vinylite with brass insert in one end and molded powdered iron core in other. Raises or lowers inductance.



**18N15235—For Zenith TV, etc..... 59c**

## ADJUSTING TOOL



For aligning all iron core tuning systems. Screw driver blade on one end, socket screw driver on other.  
**18N15114..... 44c**

## ICA TELEVISION "CHANNEL TUNER"



A narrow, all-insulated screw driver of machined fiber. Ideal for deep, inaccessible tuning. 1/8" blade on 4 1/2" shaft.  
**18N15233—7" Long..... 44c**



## NEON TEST-O-LITE

Checks any voltage from 110 to 550 volts—AC or DC, spark plugs, radio sets, appliances, etc. Distinguishes AC from DC. Comes in handsome bakelite case with pocket clip.  
**25N12983..... 72c**



# TOOLS: PUNCHES, CUTTERS & STRIPPERS

The following pages contain groups of important tools and accessories to speed the work of active radio servicemen, hobbyists and experimenters. We offer a representative cross-section of high quality cutters,

hand and electric drills, soldering irons, wire strippers, saws, wrenches, pliers, screw drivers, plus a variety of other handy miscellaneous items made by top companies noted for their precision manufacturing.

## PIONEER SCREW ACTION SQUARE HOLE PUNCH



New self-aligning chassis punch with die-shearing action. Operates on screw principle for punching power. Takes several full cuts or nibbles to enlarge first square hole to size desired. Cuts square or angular holes. High grade tool steel.

18N15076—5/8" Square Hole Punch..... **2.89**  
18N15077—3/4" Square Hole Punch..... **3.43**

## PIONEER ROUND CHASSIS PUNCHES



Excellent for cutting clean, commercial looking holes in chassis or panel. Ordinary wrench serves as turning power for punch. No reaming or filing necessary.

Stock No.	Size	Each	Stock No.	Size	Each
18N15800	1/2"	\$1.91	18N15807	1-1/8"	\$2.25
18N15801	5/8"	1.91	18N15808	1-5/32"	2.25
18N15802	11/16"	1.91	18N15809	1-1/64"	2.25
18N15803	3/4"	1.91	18N15810	1-3/16"	2.25
18N15804	7/8"	1.91	18N15811	1-1/4"	2.25
18N15805	1"	2.11	18N15812	1-3/8"	2.60
18N15806	1-1/16"	2.25	18N15813	1-1/2"	2.88

## RIVET-EYELET PUNCH SET



Hardened steel tool with cast iron holder. Hex sides on holder assures firm grip in vise. Supplied complete with rivets and eyelets.

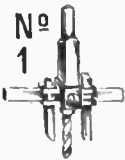
18N15045—Set..... **2.35**

### Rivet-Eyelet Assortment

100 assorted rivets and eyelets.

18N15066—Per Package..... **47¢**

## GENERAL PURPOSE STEEL CIRCLE CUTTERS



Provides easy, accurate method for cutting clean circular holes in brass, aluminum, steel, wood, bakelite, etc. Use with hand brace or slow speed drill press. Heat-treated steel.

Cat. No.	Type	Cuts Hole	Shank	Type Work	Cost
18N14720	JR	5/8 to 2 1/2"	Round	Light	78c
18N14711	4	7/8 to 4"	Round	Medium	1.30
18N14713	5	1 to 5 1/2"	Round	Heavy	1.88
18N14715	5	1 to 5 1/2"	Square	Heavy	1.88
18N14717	1*	7/8 to 4"	Round	Medium	1.88
18N15069	5	1 1/4 to 8"	Square	Ex. Heavy	3.88

\*Has extra beading cutter.

## REPLACEMENT DRILLS, BLADES FOR ABOVE

18N15070—Blade for use with 18N15069..... 35c  
18N14716—Blade for above except 18N15069, 18N14720. 30c  
18N15068—Drill for use with 18N15069..... 35c

## AMP SHEARITE STRIPPER & CUTTER



Three tools in one! Cuts and strips wire from sizes 22 to 10; cuts brass or steel machine screws without damaging threads, sizes 10-24, 10-32, 8-32, 6-32 and 4-40. Has accurately sized stripping notches and precision

threaded cutter holes plus stud size gauge stamped on tool. Made of hardened steel; shock-proof plastic handle shaped to fit hand.

18N15592..... **3.95**

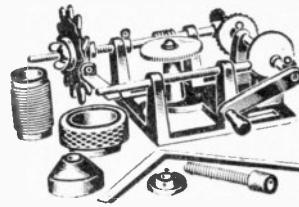
## FLEXTRON TV WIRE STRIPPER



A "must" for every TV serviceman's kit! Strips 300-ohm transmission line quickly — easily — clearly. Merely insert twin lead in opening at top, turn bar handle 90° and pull out stripped wire ready for use. Durable metal.

18N15591..... **3.95**

## DELUXE COIL WINDER WITH ACCESSORIES



Easy-to-use set winds honey comb, spiderweb, or solenoid coils of various widths and diameters—equal in appearance to factory job. Indicator counts turns. With accessories for winding all types. Instructions. Wt. 6 lbs.

18N14725.. **4.95**

## PORTABLE, EASY-TO-USE ELECTROPLATERS



Consists of 5/8" plating brush (for all metals); 1 oz. plating compound; 1 oz. metal cleaner; 1 oz. metal polish; polishing stick; set of wires and clips; illustrated directions and notes on metals. Operates on two 1/2 V. dry batteries (not included).

18N15359—Nickel Plating Outfit..... 1.47  
18N15360—Copper Plating Outfit..... 1.47  
18N15370—Cadmium Plating Outfit..... 1.47  
18N15371—Silver Plating Outfit..... 1.84

EXTRA COMPOUNDS FOR ABOVE: Plate 125-175 sq. in.  
18N15372—Nickel Compound, 1-oz. Bottle..... 37c  
18N15373—Copper Compound, 1-oz. Bottle..... 37c  
18N15374—Cadmium Compound, 1-oz. Bottle..... 37c  
18N15375—Silver Compound, 1-oz. Bottle..... 73c

## NEW MPC WIRE STRIPPER

Hardened steel blades adjustable for wire size, avoids biting off wire. Tool cuts insulation sharp and clean, strips solid or stranded wire with easy pull. Excellent for use in hard-to-reach places. Handles up to No. 12 wire.  
18N15403—Wire Stripper..... **59¢**



## SPEEDEX HANDY WIRE STRIPPERS



Fast, pocket-size tool strips insulation easily from all types of wires and cables. Use on ends or center of wire. Will not damage solid or stranded wire. Deluxe tools stay open while wire is removed.

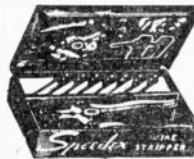
Size	Standard	Each	Deluxe	Each
14-24 wire	18N15538	<b>3.53</b>	18N15565	<b>4.70</b>
12-20 wire	18N15537		18N15566	
10-18 wire	18N15539		18N15567	
300-ohm Twin-Lead	18N15587		18N15588	

## REPLACEMENT BLADES FOR ABOVE

18N15596—12 to 20 Wire Size.....  
18N15597—14 to 24 Wire Size.....  
18N15598—10 to 18 Wire Size.....  
18N15599—Parallel No. 18 POSJ.....  
18N15595—For 300 Ohm. Line..... } **88¢**



## SPEEDEX WIRE STRIPPER KIT



Contains wire stripper, 7 different blades in steel box. Handles No. 8 to No. 30 wire. Shpg. wt. 3 lbs.  
Deluxe Stripper Kit  
18N15568..... **10.00**  
18N15569—Standard Stripper Kit..... 8.82

## QUICK STRIP INSULATION STRIPPER

Just the thing to solve the serviceman's wire stripping problems. Rapidly and cleanly strips all types of insulation from solid or stranded wire. All sizes from No. 12 to No. 22; also has slot to clean wire. High grade hardened steel gives years of service. Well designed, easy to use.  
18N15059..... **47¢**





# PLIERS AND SCREWDRIVERS

## KRAEUTER STANDARD PLIERS

From Kraeuters extra-quality "Standard" series—made to stand up under severe strain. Drop forged from extra high grade steel with "blue temper" finish. These are not the lower-priced "K" tools.

### DIAGONAL CUTTING PLIERS



18N14942—4½" Length..... **1.53**  
18N14944—6" Length..... **2.53**

### WIRE STRIPPING DIAGONAL CUTTER

As above, but with notch in blades for .062 wire and spring in handle.

18N14947—6½" Length..... **2.42**

### LONG NOSE PLIERS

Side-cutting blades. Choice of short-jaw and long-jaw needle nose types.



18N14946—5" Length Short-Jaw... **1.70**  
18N14945—6" Length Long Jaw..... **1.96**

### ELECTRICIAN'S CUTTER



Modified fitted lap joint, cutters.  
18N14935—6½" Length..... **1.79**  
18N14936—8" Length..... **2.34**

### GENUINE KLEIN PLIERS

Of finest alloy tool steel individually tempered for long-life cutting edges.

#### OBLIQUE 5" CUTTING PLIERS



Wire stripping notch, lap joint.  
18N15223—Narrow head..... **2.75**

#### LONG NOSE SIDE CUTTERS



Pointed slender nose.  
18N15221—6" Length..... **3.00**

#### LONG CURVED NOSE PLIERS



For work in close quarters.  
18N15224—6" Length..... **3.00**

### PARROTT JAW PLIERS



4-5/8" long; has adjustable jaws opening to 3/8" wide. Nickel plated steel. Wt: 2 oz.  
18N14941..... **1.54**

### "CAN'T ROLL" CENTER PUNCH

Tempered steel with large square head and knurled grip. 4-1/16" long. .325" dia. Wt: 1 lb.



18N14999..... **1.24**

### BEVELED WOOD CHISELS AND CHISEL KIT



Correctly proportioned bevels—high grade heat-treated steel blades, Amberite handles.

18N15513—¼" Blade... **4.54**  
18N15514—½" Blade... **4.94**  
18N15515—¾" Blade..... **5.24**  
18N15516—1" Blade..... **5.64**

#### CHISEL KIT

18N15517—Complete Set of 4 in Canvas Roll..... **2.25**

### STANDARD HAND DRILL WITH HARDWOOD HANDLE

¾" gear wheel meshed with small gear at 4:1 ratio. ¼" capacity chuck with 3 spring-controlled centered jaws.



18N14727—Overall length 11". Shpg. Wt: 1½ lbs. .... **1.45**

### BREAST DRILL WITH 3/8" CAPACITY CHUCK

12½" long, full-size breast plate and ¾" gear meshed with small gears of 4:1 ratio. Includes 3/8" capacity chuck. Shipping Weight: 2 lbs.



18N14726..... **2.25**

### SWIVEL HEAD HAND DRILL WITH FLAT HUB BASE

Works around corners! Chuck head adjusts, locks to 7 positions, handle adjusts, locks along 180° base, ¼" chuck. Overall length 8½".



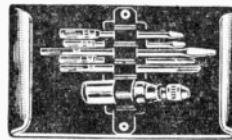
18N14724—Shpg. Wt: 2 lbs. .... **3.19**

### AUTOMATIC PUSH DRILL



For boring small holes in hard or soft wood and soft metals. Multiple toothed spiral and center nut operating mechanism. Chuck has 4 steel jaws to hold drills securely. Index ring gives number and dia. of drill in each handle compartment. With 8 drill sizes: 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" and 11/64". Red plastic handle, nickel and aluminum metal parts. 9-1/8" long.

18N17184—Shpg. Wt: 1 lb..... **2.57**



## SCREW DRIVER SET

A new, practical tool kit consisting of 5 tempered, ground blades and chuck with amber handle. 3 standard screw driver blades: 5/8"x¼" tip, 3x3/16" tip, 3-1/8"x1/8" tip; 2 Phillips head Pl, 3/8" L., P2, 4" L. Slotted

chuck accomodates specially designed blades for positive fit. Packed in convenient leatherette tool roll.  
18N14712..... **98¢**

### "ICA" FLEXIBLE SCREWDRIVER



Strong, unbreakable, flexible shaft and insulated movable screw locator; finds slots of screws. L. 8¾".  
18N15062—Shpg. Wt. 2 lbs. .... **1.18**

### POCKET SCREWDRIVER

Transparent amber colored plastic handle. Tool steel blade, shockproof construction. With pocket clip.



18N15323—3" length..... **10¢**

### RATCHET SCREW DRIVER

With automatic return. Has 5 actions: automatically drives or draws screws, left or right hand ratchet or rigid screw driver. 20½" extended; 12-5/8" closed.



18N14733—Weight 1¼ lbs. .... **2.94**

### GRIPPER SCREWDRIVERS

Gripper holds screw, releases instantly when screw is driven—ideal for tight places. Amber plastic insulated handles with tempered steel blades.



18N14710—2x5/32" Blades..... **26¢**  
18N14721—4x5/32" Blades..... **46¢**  
18N14709—6x5/32" Blades..... **50¢**  
18N14722—10x5/32" Blades..... **52¢**  
Same as above, but for Phillips head screws. Fits all sizes.  
18N14746—2x5/32" Blades..... **46¢**  
18N14747—4x5/32" Blades..... **55¢**  
18N14748—6x5/32" Blades..... **59¢**

### RECESSED HEAD SCREWDRIVERS

Sturdily made with sure-grip wooden handles and steel blades.



No.	Size	Length	Cost
18N15251	Up to 4	6-3/4"	25¢
18N15252	5 to 9	8-3/8"	25¢
18N15253	10 to 16	11-1/2"	33¢

### XCELITE SCREW DRIVERS

Polished chrome vanadium blades with tips ground for accurate fit in screw heads. Tough, shockproof amber handles. Weight: 5 oz.



Stock No.	Mfrs. Type	Blade Size	Each
18N15240	R-144	4"x1/4" tip	.59
18N15241	R-146	6"x1/4" tip	.62
18N15242	R-148	8"x1/4" tip	.69
18N15243	R-182	2"x1/8" tip	.29
18N15244	R-184	4"x1/8" tip	.32
18N15245	R-186	6"x1/8" tip	.36
18N15246	R-188	8"x1/8" tip	.39

### 4 IN 1 SCREW DRIVER

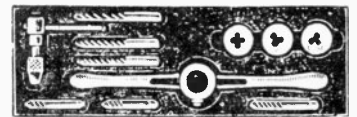
Ideal for mechanics, shop and home use. Solid brass with indestructible hardened steel bits — will not rust. Master screw driver contains other 3. Weight 2 oz.



18N14734..... **38¢**

### TAP, DRILL AND DIE SET

Useful set for handy men and model shop workers. Three 1" dia. dies (4-36, 6-32, 8-32) with die stock; three taps (4-36, 6-32, 8-32) and 3 matching tap drills for these taps. Tap holder and mahogany case. Shipping Weight 3 lbs.



18N14994..... **2.25**

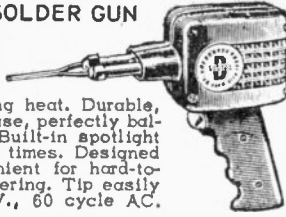
WE GUARANTEE SATISFACTION AT ALL TIMES



# SOLDERING IRONS AND ACCESSORIES

## DRAKE "Instant Heat" SOLDER GUN

New, quick-action trigger solder gun for busy servicemen. Just press the trigger on the pistol grip handle for instant soldering heat. Durable, handsome maroon plastic case, perfectly balanced for easy handling. Built-in spotlight keeps work in sight at all times. Designed with long, thin tip convenient for hard-to-reach and tight corner soldering. Tip easily removed. 135 W. on 115 V., 60 cycle AC. With extra 6 1/2" soldering tip.



- 18N14872—Shipping Weight 3 lbs..... **11.76**
- 18N14873—3 1/2" tips. Pkg. of 4..... 30¢
- 18N14874—6 1/2" tips. Pkg. of 2..... 30¢

## DRAKE INDUSTRIAL IRONS—UNDERWRITERS LISTED

**100 WATT IRON No. 600-10.** For switchboards, radio and other light manufacturing uses. Ideal for close quarters. Comes complete with 6 foot cord, stand. 3/8-inch tip.



- 18N15164—Shpg. Wt: 2 lbs..... **4.70**
- 18N15152—Replacement Tip for Above..... 73¢

**100 WATT IRON No. 600** for light manufacturing purposes. Complete with 6 ft. cord, "Magic Cup" stand, 3/8-inch tip.



- 18N15551—Shpg. Wt: 2 lbs..... **4.41**
- 18N15152—Replacement Tip for Above..... 73¢

**60 WATT COMPACT IRON No. 400.** A small tool for tight corners, delicate instrument wiring, 9-inches long, weighs 9 oz. With 6-ft. cord, "Magic Cup" stand. 1/4" tip.



- 18N14835—Shpg. Wt: 1 lb..... **3.23**
- 18N15157—Replacement Tip for Above..... 35¢

## DRAKE DELUXE SOLDERING IRONS

**100 WATT IRON No. 325.** For general radio work. High quality Nichrome wire on amber mica. Nickel plated. Complete with 6 ft. cord and plug. "Magic Cup" stand, 3/8-in. tip.

- 18N15162—Shipping Weight: 1 1/2 lbs..... **2.94**
- 18N15152—Replacement Tip for Above..... 73¢

**200 WATT IRON No. 425.** For medium heavy work. Highest quality Nichrome wire on amber mica. Nickel plated. Complete with 6-ft. cord and plug, "Magic Cup" stand, 5/8-in. tip.

- 18N15552—Shipping Weight: 2 lbs..... **5.88**
- 18N15153—Replacement Tip for Above..... 1.17

## DRAKE SPECIAL IRONS

**Resistance wire on porcelain tubes.**

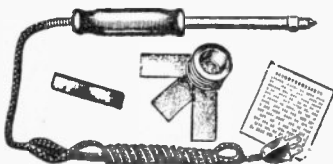
- 18N14892—60-Watt, Type 315 with cord, plug. Wt. 1 lb.... **1.11**
- 18N15158—Replacement Tip for Above..... 53¢

- 18N14893—100-Watt, Type 316 with cord, plug. Wt. 1 lb..... 1.88
- 18N15159—Replacement Tip for above..... 1.06

**35 WATT MIDGET IRON No. 350—Only 6 1/2-inches long.** Element wound on mica-insulated steel core as in industrial irons. Straight 1/8" tip, bent 1/8" tip and stand. Shipping. Weight 1 lb.

- 18N15177—35 Watt Iron..... **2.94**
- 18N15178—Replacement Straight Tip..... 15¢
- 18N15179—Replacement 45° Tip..... 15¢

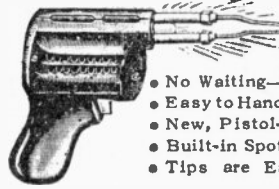
## HARMIC SOLDERING KIT



Contains U.L. appvd. chrome-plated 75-watt soldering iron, steel scraper, spool of rosin core solder, stand, sandpaper. Instructions. Wt: 3 lbs. **18N14834..... 1.35**

## WELLER SPEED SOLDERING IRONS

STANDARD MODEL  
SOLDERING TOOL



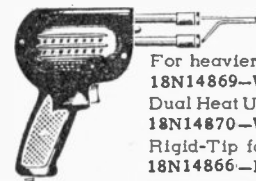
- No Waiting—Heats, Cools in 5 Seconds
- Easy to Handle—Gets Into Tight Corners
- New, Pistol-Type Grip Is Easy to Hold
- Built-in Spotlight Lights Up Your Work
- Tips are Easy to Tin—Stays Tinned

The first really new idea in soldering tools. Operates on the resistance welder principle giving high current at extremely low voltage. No more waiting for iron to heat up—merely pull the trigger when it's time to solder. New type pistol grip gets you in close with a "feel" impossible to attain with conventional type irons. No bulky tip—no working in dark—spotlight lets you see where you are working. Tips stay tinned, solder easily, bend by hand. 100 watts on 115 Volts 60 cyc. AC.

- 18N15183—Shpg. Wt. 3 lbs..... **11.75**
- As above, with dual heat unit (100-135 W)..... 13.67

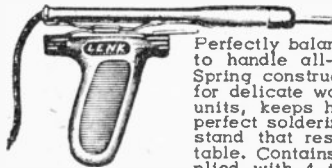
- 18N15186—Shpg. Wt. 3 lbs. .... 13.67
- 18N15187—Extra Long Life Tip. Pkg. of 4..... 25¢
- 18N15188—Stud for Fastening Tip..... 10¢

## WELLER HEAVY DUTY SOLDERING TOOL



- For heavier soldering, 200 W.
- 18N14869—Wt. 4 lbs..... **12.69**
  - Dual Heat Unit (200-250 W.)..... 13.67
  - 18N14870—Wt. 4 lbs..... 13.67
  - Rigid-Tip for above irons..... 35¢
  - 18N14866—Package of Two..... 35¢

## LENK GUN GRIP TYPE IRON

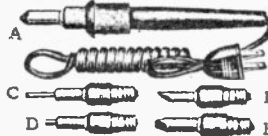


Perfectly balanced—lightweight—easy to handle all-purpose soldering iron. Spring construction cushions pressure for delicate work, protects handle and units, keeps handle cool and insures perfect soldering, always. Has built-in stand that rests iron safely on work table. Contains long-life element. Supplied with 4 tips: straight, 45°, 90°

and heavy duty. Draws 75 watts on 110-120 volts AC or DC. Chrome-plated over nickel and copper. Overall size: 9 1/2" x 4 1/4"

- 18N15101—With 6-ft cord & plug. Shpg. Wt: 1 lb..... **3.26**
- 18N15102—125-Watt Model. Shpg. Wt: 2 lbs..... 3.92

## UNGAR ELECTRIC SOLDERING PENCIL



So tiny it can be handled as easily as a pencil! Efficient, well-constructed, for perfect soldering jobs. Only 3.6 ounces, overall length is 7" for use in tight corners, hard-to-reach places. 20 watts; heats in 90 seconds. Heat-resistant plastic handle. Line cord and plug. Operates

on 110 volts AC or DC. UL approved. Uses any tip listed below.

- 18N15575—Soldering pencil, less tip. Shpg. Wt: 6 oz....
- 18N15576—(A) Standard Copper, tip only..... Each
- 18N15577—(B) Elkaloy A, Extra Hot, Tip only.....
- 18N15578—(C) Elkaloy A, Chisel, Tip only..... **78¢**
- 18N15579—(D) Elkaloy D, Pencil, Tip only.....
- 18N15580—(E) Brass Marking, Tip only.....

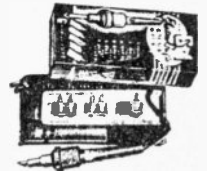
## UNGAR SOLDERING SET

Ideal for hobby work. Includes soldering pencil, 3 tips, flux and brush, core solder, emery cloth. U.L. approved. **18N15583—Wt: 6 oz..... 2.19**  
Lots of 6..... Each..... 1.65



## UNGAR ELECTRO-CRAFT BURNING PENCIL

Burning pencil forms plastic, burns designs into leather, cork, wood and velvet. Embosses foil. Set consists of UL approved burning pencil, 6 brass interchangeable tips, 6 colors of metallic foil, emery cloth. **18N15582—With instructions. 1.65**  
Lots of 3, each..... 1.50  
18N15585—Pkg. of 5 sheets 3"x5" foil, asst. colors..... 20¢









# ELECTRIC DRILLS & DRILL ACCESSORIES

## FAIRCHILD ELECTRIC HAND DRILL SET



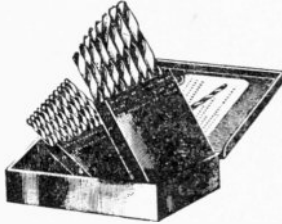
More power, better quality drill kit designed specifically for household use. Contains 1/4" capacity drill with universal type 110-120 V. AC-DC motor. Chuck speed 1200 rpm. Grip and balance designed for easier and more efficient drilling. Thumb control switch conveniently located on top of handle. Fitted steel case includes 7 high speed steel twist drills in sizes 1/16" to 1/4" by 32nds. Sturdy, lightweight aluminum housing. Wt. 6 lbs.  
18N15765.....**19.95**

## CENTURY HIGH SPEED DRILL SETS



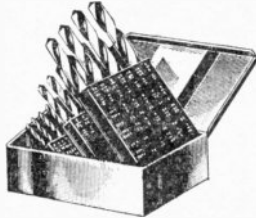
SET NO. M-7. Contains 7 drills 1/16" to 1/4" by 32nds with red bakelite stand which serves as index with marked holes.  
18N15760—Shpg. Wt. 1/2 lb.....**2.05**

SET NO. M-3. 13 drills 1/16" to 1/4" by 64ths with Huot index. Smallest, but with the most often used sizes. Shpg. Wt. 1/2 lb.  
18N15761.....**4.05**



SET NO. M-2. Contains 21 drills 1/16" to 3/8" by 64ths with Huot index. Medium size Huot index, with the extended drill size range, adding those often needed drill sizes. Shpg. Wt. 2 1/2 lbs.  
18N15762.....**9.81**

SET NO. M-15. Contains 15 drills 1/16" to 1/2" by 32nds with Huot index. Large size Huot, with provisions for adding 14 drills of the 64th sizes. Most used larger sizes. Shpg. Wt. 3 lbs.  
18N15763.....**11.21**



## CENTURY HIGH SPEED DRILLS SOLD SEPARATELY

No.	Size	Each	No.	Size	Each
18N15770	1/16"	21¢	18N15780	7/32"	36¢
18N15771	5/64"	21¢	18N15781	15/64"	38¢
18N15772	3/32"	23¢	18N15782	1/4"	42¢
18N15773	7/64"	23¢	18N15783	17/64"	48¢
18N15774	1/8"	23¢	18N15784	9/32"	51¢
18N15775	9/64"	24¢	18N15785	19/64"	54¢
18N15776	5/32"	27¢	18N15786	5/16"	60¢
18N15777	11/64"	28¢	18N15787	21/64"	65¢
18N15778	3/16"	30¢	18N15788	11/32"	69¢
18N15779	13/64"	32¢	18N15789	3/8"	83¢

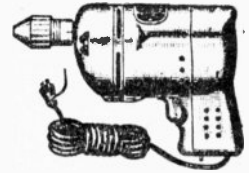
## CONVERT YOUR DRILL TO A POWER-HAMMER



A highly efficient adaptor tool which converts an electric drill into a powerful hammer. Excellent for drilling into cement, stone, brick, tile, etc. Powerfully built for speed and efficiency and ease of operation. Size: 6-7/16x1-1/8". Self-contained lubrication. An adaptor tool at low cost.  
18N15472—Less handle.....**9.31**  
18N15470—Handle for Power Hammer.....1.23  
18N15471—Hammer Head.....3.33  
18N15473—1/4" bit for above......70  
18N15474—3/8" bit for above......95  
18N15475—1/2" bit for above.....1.55

## BLACK & DECKER 1/4" ELECTRIC DRILL

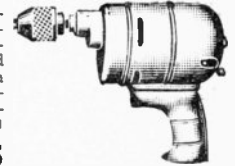
Sensational 1/4" drill value at a popular price. Powerful, high quality 2250 RPM motor equipped with 3-jaw Jacobs hex-key chuck, drills holes in steel, cast-iron, aluminum, brass, sheet metal, wood, plastic, etc. Also drives countersinks, wood augers, wire brushes and numerous cleaning, sanding and polishing accessories. Instant release trigger switch can be locked "ON". Strong, light die-cast aluminum housing fits hand. 7/8" long. For 110 V. AC or DC.



18N15797—Home Utility Model....Shpg. Wt: 5 lbs....**18.95**

## GILBERT 1/4-INCH ELECTRIC DRILL

An economy model, ideal for medium home and shop jobs. Has self-tightening chuck attached to precision-built 1400 RPM motor. Enclosed in strong, die cast zinc housing with aluminum finish. Equipped with ON-OFF toggle switch. Convenient pistol-grip handle. For 110 volts, 60 cycles AC. Shpg. Wt: 4 lbs.  
18N15796—List 11.95.....**8.95**



## DRILL CASE

Metal case, top drill index numbered 1 to 60. Cover lifts drills for selection.  
18N14702.....**2.45**

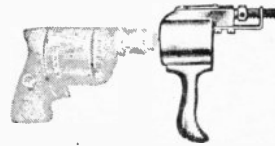


## STEEL DRILL SET

9 drills, sizes 1/16 to 3/16". Expertly ground cutting steel. In strong hardwood box.  
18N14708.....**1.29**



## GREENE SAW ATTACHMENT FOR HAND DRILLS



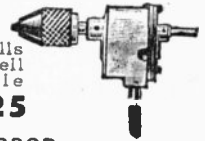
Instantly converts your hand electric drill for sawing, filing, peening, riveting, or embossing. Just insert shaft into your drill chuck—needs no special skill to operate. Small and compact—can get into places where ordinary tool cannot easily reach. Case hardened

parts—no gears or shafts to wear out. Uses broken hack saw blades. Works with any 1/4" electric drill. Shipping Weight: 3 lbs.

18N15790—With Allen head wrench, blades.....**11.05**

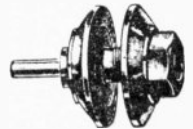
## 5 TO 1 RATIO GEARED CHUCK

Made expressly for small electric drills up to and including one half inch. Well made of strong and durable materials.  
18N14698—Shpg Wt. 4 lbs.....**8.25**



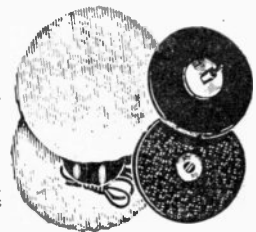
## ELECTRIC DRILL ARBOR

Universal for all makes of electric drills from 1/4" capacity up. Shaft at drill end is 1/4" hardened knurled steel. Body of shaft is 1/2", suitable for all standard buffs, stones, scratch brushes, etc.  
18N15094.....**59¢**



## POLISHER & SANDER KIT

Converts your electric drill into a power polisher and sander to turn out professional jobs. Kit includes flexible 1/4" adaptor, silicon carbide sanding disc, lambswool polishing bonnet, and pattern for cutting additional sanding disc.  
18N15755.....**1.45**



## SANDING DISCS

PRG of 12 Assorted Nedium, Fine and Coarse Grit Discs  
18N15795......68¢

## HANDY, SUPER-FIBER PLUGS



Easy to anchor bolts, screw-eyes, etc. Safe, economical and reliable to use! Can be snipped without damage to the plug.

18N15476—1" for 1/4" hole, 100 for.....**1.65**

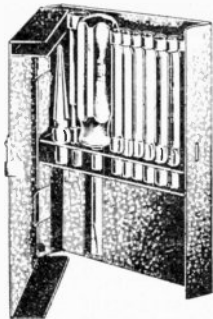
18N15477—1" for 3/8" hole. 50 for..... 1.60

18N15478—1 1/2" for 1/2" hole. 25 for..... 4.00



# NUT DRIVERS, WRENCH SETS & REAMERS

## XCELITE MULTI-PURPOSE TOOL KIT



Sensational new kit with patented "stay-locked" fastener in the multi-purpose handle, assures firm, positive grip on tools. Each unit snaps in easily and securely, yet can be removed by pulling on the shaft. Case is made of sturdy metal with attractive mottled finish. Opens like a book; can be set on work bench or fastened on wall or cabinet through two holes in back of the case. Kit includes; a multi-purpose handle, 1/8" to 5/16" reamer, 3/16" and 9/32" Xcelite screwdriver blade and nine nutdrivers from 3/16" to 1/2". All tools are chrome plated. Shpg. Wt: 4 lbs.

18N15266—List Price \$9.95..... **5.85**

## XCELITE DELUXE REAMER KITS

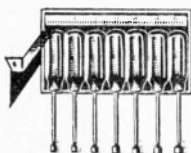
Designed for reaming wood, plastic or sheet metal. Extremely hard cutting edges. Detachable handle made of unbreakable amber plastic. 4" long. No. 1, 1/8" to 5/16"; No. 2, 1/4" to 1/2"; No. 3, 7/16" to 11/16".

RK-42 Kit. Nos. 1 & 2 reamers and handle in roll kit. 18N15248..... **2.77**

RK-43 Kit. Nos. 1, 2 & 3 reamers and handle in roll kit. 18N15249..... **3.89**



## XCELITE SUPER NUT DRIVER SET



Contains most popular socket sizes. Plastic handles color coded for easy identification. Includes 7 wrenches from 3/16" to 3/8" in 1/32" steps. Made of hardened steel, carefully polished to insure snug fit of nuts. Deep enough to hold 2 nuts at one time. Complete in lockable holder. size: 7 1/2 x 7 x 1 1/4". 18N15247..... **4.24**

## XCELITE NUT DRIVERS—STURDY, SHOCKPROOF

Time-saving spin-type wrenches meet every need! Unbreakable—transparent amber handles insulated against 5000 volts. Extra-deep sockets for long studs. 5" long.

18N15330—for 3/16" hex nut.  
18N15328—for 7/32" hex nut.  
18N15331—for 1/4" hex nut.  
18N15327—for 9/32" hex nut.  
18N15332—for 5/16" hex nut.  
18N15333—for 11/32" hex nut.  
18N15334—for 3/8" hex nut.  
Any Above, each.....45¢

18N15335—for 7/16" hex nut.  
18N15336—for 1/2" hex nut.  
Any Above, Each.....69¢

## HOLLOW SHAFT TYPE

Extra-long hollow shaft. For installing and removing volume controls and other panel equipment. Permits removal of nuts from volume controls with up to 5" shafts. Ideal for nuts blocked by bolts or studs.

18N15344-for 1/2" hex nut. 75¢  
18N15329-for 9/16" " " 78¢

## 5-K WRENCH SET



New, all-purpose wrench set for work on ignition, carburetor and radio. 16 piece kit contains reversible ratchet, 2" and 6" extensions, flex handle, X bar, 3/16", 7/32", 1/4", 9/32" and 5/16" 6 pt. skts., 11/32", 3/8" and 7/16" 12 pt. skts., and 1/4", 5/16" and 3/8" 8 pt. skts. in 1/4" square drive. Chromium plated and polished. Wrench set is shipped in handy wrinkle finish metal box. 18N15590—Shpg. Wt: 2 lbs..... **7.52**

## 5-PIECE WRENCH SET



New Sampson small open-end wrench set with ten different openings—no duplication of sizes. Wing-nut fastened for ease in carrying. Made of drop-forged tool steel, treated and hardened for extra strength. 1/4 to 7/8 sizes—marked on shank. Wt: 1 lb. 18N14987..... **1.23**



## SAMSON LEVER WRENCH

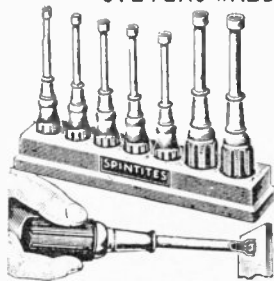
5 in 1 handy tool for all jobs—adjustable jaw makes it equally useful as pliers, locking wrench, clamp, pipe wrench, and toggle press. Instant adjustment or locking by turn of set screw. Double leverage multiplies pressure 1000 times. 18N14986—Wt: 2 lbs. **1.25**



## AUTOMATIC PUNCH

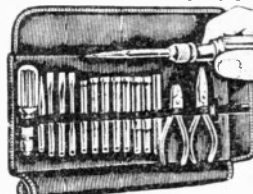
Speedy, automatic, and adjustable — a single-hand operated punch gives light or heavy impressions with just the turn of a screw. Center punch has replaceable points. 1/2" x 5". 18N14991..... **2.55**  
Steel replacement point 18N14992.....23¢

## STEVENS-WALDEN "SPINTITE" WRENCH SET



Invaluable for radio and electrical servicemen. Well made of cadmium plated steel and hardwood handles—designed to stand up under years of regular use. Set includes 7 wrenches in convenient holder. Will handle following size nuts: 3/16", 1/4", 5/16", 11/32", 3/8", and 1/2". Weight: 3 pounds. 18N15570..... **3.82**

## DELUXE CHUCK TYPE SPINTITE KIT



Consists of chuck type handle for use with wrench shanks, screwdrivers and reamer. 3/16", 1/4", 5/16", 11/32", 3/8", 7/16" and 1/2" wrench shanks; 1/8", 3/16" and 1/4" by 4" screw drivers; 1/16" to 3/16" Ream awl; 7" long nose, 5" diagonal cutting pliers, neutralizing alignment wrench. In leatherette roll. 18N15572—Wt. 3 lbs. .... **9.11**

18N15571—Less Pliers and neutralizer. Wt. 2 lbs.....5.44

## STEVENS-WALDEN MIDGET WRENCH SETS

For accurate work on meters, radios and other small appliances. Consists of 8 midget hex sockets 3/16 to 7/16"; 3 double square sockets 1/4", 5/16" and 3/8" sizes; ratchet, hinge and spintite handles plus 6" long extension and sliding tee handle. Metal carrying case. Wt: 4 lbs.

18N15573—Deluxe Set Type 3100..... **9.44**

STANDARD SET: As above less ratchet, sliding tee handles and extension. Weight: 2 pounds.

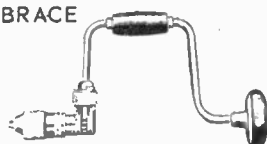
18N15574—Standard Set Type 3100 A..... 5.26

## RADIO WRENCH SET



Made entirely of high grade steel with case hardened sockets. Hollow handle holds screw driver socket and 5 wrench sockets: 1/4", 5/16", 3/8", 7/16", 1/2". Handle and shank are 7/8" long; finished in white nickel. 18N15593..... **74¢**

## RATCHET BRACE



A low-priced 10" brace with Barber chuck and alligator jaws in semi-clad ratchet. Steel-clad, ball bearing head. Mahogany finished hardwood handle and head; exposed metal parts nickle'd and buffed. 18N14732—Weight: 2 1/4 lbs. .... **2.94**

## GOOD QUALITY TOMAHAWK SOCKET WRENCH SET



Handy, compact little set for hard-to-reach places. Consists of 3 1/2" L handle and 6 hexagon sockets. Cadmium-plated. Hexagon socket sizes: 3/16", 1/4", 5/16", 3/8", 7/16", and 1/2". Shpg. Wt: 1 lb. 18N15589..... **35¢**

## TOOL STEEL REAMERS

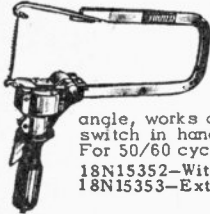
Made of heat treated steel. Tapered shank has "T" handle for easy hand use. Enlarges 1/8" to 1/2", holes. 5 1/2" overall. 18N15049..... **86¢**





# TOOLS FOR THE HOBBYIST

## NEW ELECTRIC MOTO-SAW



Lightening-fast—makes 7200 strokes per minute—cuts 1 foot per minute through wood up to 1/4" thick! The only electrically-driven hand jig saw on the market today. Saws the most intricate patterns, cuts at any angle, works on assembled projects. Automatic switch in handle instantly stops, starts motor. For 50/60 cyc. AC. With cord and plug.

18N15352—With 3 blades. Wt. 2 lbs..... **5.85**  
18N15353—Extra blade for above.....12 for 60¢

## ALL-PURPOSE VIBRO-SPRAYER



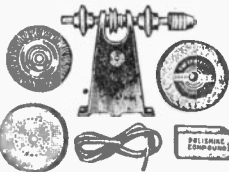
Even amateurs can produce a professional looking paint job with this self-contained spraying unit. Specially designed to permit one-hand operation — and is complete in itself. Screw-top jar has a 24 ounce capacity. Equally adaptable for spraying other liquids, such as light oil, insecticides, D.D.T., etc. as well as paint. Here is a finely made sprayer that will last for years, giving you excellent service and results. For 110 volts.

18N15619—List Price \$12.95 Dealers Cost Ea..... **9.75**  
Dealer's Cost Lots of 2.....Each, 8.65  
Dealer's Cost Lots of 6.....Each, 7.80

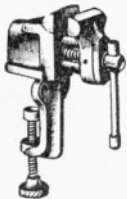
## G.M. CO. ALL-STEEL HOBBY LATHE OUTFIT

A fine precision tool for precision work! Consists of 6 1/2" high lathe head with 1/2 x 6 1/2" shaft accurately turned and threaded at both ends with two flanges and nuts for grindstones, buffing wheels and scratch brushes. 9/32" capacity chuck with 3 spring-controlled jaw hold drill in dead center. All steel unbreakable body with naval brass bearings for shaft. Complete outfit includes: 2-speed pulley; 4" flat face vitrified grinding wheel; 4" wire scratch brush with securely held wires; 4" laminated cotton buffing wheel; oak tanned leather belt complete with coupling; and one block of high grade polishing compound.

18N22399—Red Enamel Finish. Shpg. wt. 6 lbs. **3.75**



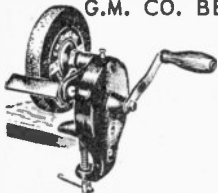
## MODELMAKERS VISE WITH 1 1/2" JAWS



Double parallel beams keeps jaws aligned—prevents wobbling, insures steadiness of implement in the vise. Finer threaded worm screw provides tighter grip, more holding surface per inch. 1 1/2" jaws open to full 2 1/4". Equipped with double mountings for permanent or temporary attachment to any bench or table—edge not exceeding 2-1/16" thick. Rust-resistant Bronze finish. Size fully closed: 5 1/4 x 4 x 2".

18N15735—Shpg. Wt: 3 lbs..... **1.51**  
Same as above, but with larger, 2 1/2" jaws.  
18N15734—Shpg. Wt: 4 lbs..... **2.55**

## G.M. CO. BENCH GRINDER WITH 5" STONE



Dirt-proof gear case with extra long bearings assure gears being in alignment and wheel running true. All gears properly machined and meshed. Clamps on any table or bench. Adjustable tool rest for added ease in sharpening. Baked Red enamel finish. With 5" stone. Shpg. Wt: 4 lbs.

18N15356..... **2.79**

## G. M. UTILITY GRINDER

A smooth running and long lasting grinder — accurately made and assembled. Completely enclosed all steel gear case is finished in bright nickel plate. Extra long brass bearings assure proper alignment of gears and a true-running wheel. Clamps on any table or bench up to 1-1/8" thick. Supplied complete with high grade fine abrasive wheel, tool rest and clamp.

18N15355—Weight 1 lb. .... **73¢**



## BURGESS ALL-PURPOSE TOOL KIT

Low Cost Kits  
for Home or  
Model Shop



Model V75. Vibro-Tool Master Kit. Here is the ideal experimenters and hobbyists tool kit that meets the needs of most wood, metal, leather, plastic and glass working problems. This handy package contains every basic tool necessary for marking and engraving metal and decorating glass and plastic. It carves, slices, peens quickly and easily. Supplied complete with vibro-tool and one of each of the following: V24 knife, V23 knife, V3 carbide point, V82 leather punch, V45 ball point, V87 standard modeler, V81 abrasive, V51 curved chisel, V55 V-shaped chisel and V115 stone. Packed in sturdy case for convenient storage. Operates on 110 volts, 60 cycles AC only. Shipping Weight 5 lbs.

18N15638—List Price 9.95. Dealer Price.....Each..... **7.50**

## LEATHER KRAFT KIT

Model V225. Vibro-tool Leather Kraft Kit. Complete with Vibro-tool and nine leather working attachments. Includes one each of the following ten basic leather working tools: V23 knife blade, V3 carbide point, V82 leather punch, V44 ball point, V86 deerfoot modeler, V46 ballpoint, V83 leather liner, V84 leather slotter, V85 double liner and crupper. Tool and accessories housed in sturdy convenient storage case. Operates from 110-volt, 60-cycle AC only. Shipping Weight 5 lbs.

18N15639—List Price 9.95. Dealer Price.....Each..... **7.50**

## MARKING KIT

Model V77. Vibro-Tool Marking Kit. Consists of Vibro-tool and hard tantalum carbide point. For metals, plastics etc. Operates from 110-volt, 60-cycle AC only.

18N15620—List Price 7.50. Dealer Price.....Each..... **5.65**

## DELUXE HANDEE GRINDER KIT IN STEEL CASE

Hand-size, with high-speed, 25,000 RPM motor. 27 accessories include: rubber polishing wheel and saw with mandrels; slitting saw; 2 steel cutters; 3 drills; push-pin mandrel; steel wire cavity brush; bristle brush; wire scratch brush; rubber disc; felt and rubber polishing points; felt polishing wheel; drum sander, discs; 6 mounted wheels, speed oil. 110-120 volts AC-DC.

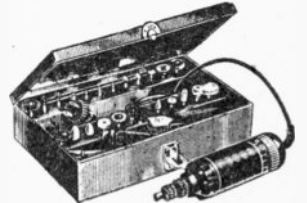
18N15263—No. 3010. Shpg. Wt. 8 lbs. .... **23.37**

As above, but with 26 Mtd. Whls. for industrial use. **23.37**

18N15264—No. 3011. Shpg. Wt. 4 lbs. .... **23.37**

Deluxe outfit with 7 access: 1/8" Collet; 5 Wheels; 1 Rubber Polishing Wheel; 1 Wheel Dressing Stone. Speed as above.

18N15354—No. 3008. Shpg. Wt. 2 lbs..... **17.42**



## FAIRCHILD FLEXIBLE SHAFT TOOL

The hobbyist's answer to engraving, buffing, grinding and routine polishing needs! Precision, dynamically balanced 1/20 H.P. motor turns up 15,000 rpm at the handpiece—with power to spare when using any of the 10 standard tools supplied. Pencil-size hand-piece permits precision work of professional quality, and takes any standard 3/32" or 1/8" shank tool. Flexible shaft is full three feet long and covered with plastic for clean, oil-free operation. Every electrical component checked at factory with 1500 volts for breakdown to ground. Complete with selected accessory tools, two wrenches, flexible shaft, motor and bracket for motor. Supplied in sturdy blond wooden cabinet. Operates on 110-120 volts. AC or DC.

18N15645—Shipping Weight 7 lbs..... **15.95**





# TOOLS TO MAKE YOUR WORK EASIER

## GENERAL DRILL GRINDING ATTACHMENT



Precision-built tool designed for accurate repointing of twist drills. Adjustable for all popular drill point angles, including countersinks—correctly resharpenes twist drills of following sizes: 1/8" to 3/4" fractional; 1 to 30 number size; A to Z letter size; and 3.0 to 19.0 millimeter size.  
18N15759—Shpg. Wt: 2 lbs. .... **4.75**

## AIR PRESSURE TOUCHUP SPRAYER



For touching up marred panels, cabinets, and radio chassis. Designed to operate perfectly with very low pressure from spare tires or any other air container. Comes complete with airtight brass valve, adjustable brass spray tip, a length of rubber hose, and two 4-oz. glass jars. Inexpensive, easy-to-use.  
18N14705—Shpg. wt. 3 lbs. .... **1.35**

## POWER SPRAYER WITH 12 FOOT HOSE



Newest type of touch-up sprayer that operates from the spark plug of any automobile. Will spray paint, lacquer or any other free-flowing liquid. Comes complete with sprayer, pint glass jar, spark plug air check valve, compression tank, set of adaptors and a twelve-foot hose.  
18N14704—Shpg. wt. 6 lbs. .... **4.70**

## VERNIER SLIDING CALIPER



Sharp pointed projections for accurate dividing, scribing, etc. Lock nut insures against errors caused by sliding gauge. Rule graduated in 16ths and 32nds plus 5" depth gauge. Precision-made Shpg. Wt: 1 lb.  
18N15027..... **98¢**

## WALSCO SERVICE TWEEZERS



Serve hundreds of useful purposes. Of polished nickel-plated spring steel.  
18N15484—Self-Closing Type, 6 1/2" long, with blunt points.....56¢  
18N15485—Heavy-Duty Type, 6 1/2" long, with slide lock and blunt points.....71¢  
18N15486—Precision Type, 4 1/2" ptd. 32¢  
18N15487—All 3 in leatherette case. 1.91

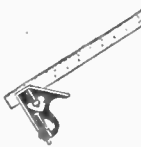
## G-C INSPECTION MIRROR

Long-handled inspection mirror makes it possible to see inside chassis—inspect coils, parts, connections.



18N15322—Wt. 8 oz..... **29¢**

## COMBINATION SQUARE



Has many uses—try and mitre square, depth gauge, marking gauge, level and scriber. Graduated 8ths and 16ths on one side, 16ths and 32nds on the other. 12" blade.  
18N15029.....Weight 1 lb..... **1.25**

## COMBINATION SQUARE AND PROTRACTOR



6-inch square calibrated by 1/8" and 1/16" on edges. Edge turned down to prevent slipping. Protractor calibrated from 0 to 90 degrees. Also has true circles cut out for scribing sizes 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1".  
18N15024.... Shpg. Wt. 6 oz..... **15¢**

## TORPEDO LEVEL

Two plumbs—one 45° and one 90°, and one level vial are provided. Die cast, black bakelite with heavy piece of polished "nickel-oid" top plate. 9x1 1/4 x 3/4".  
18N15616.....Weight 5 oz..... **1.11**



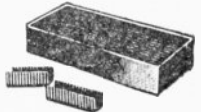
## WALSCO LIGHTWEIGHT STAPLE DRIVER



Fully automatic—for neater, faster jobs on wire and cable. Staples—wires up to 1/4" diameter. Magazine holds 24 staples. With box of 250 staples.  
18N15091—Shpg. wt. 2 lbs..... **4.85**  
RUBBER CAP for plunger head—makes it easier on the hand.  
18N15090—Rubber Cap.....22¢

## WALSCO CARBON TOOL STEEL STAPLES

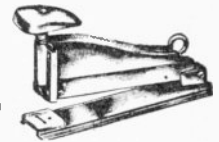
In handy strips especially made for the WalSCO Staple Driver. Brown color outside, inside coated with special clear insulating lacquer.



18N15093—Box of 250..... **35¢**  
18N15099—Box of 1000.....1.32  
18N15100—Box of 5000.....5.73

## FEATHERWEIGHT TACKER AND STAPLER

Quick, convenient tacker for attaching light wire or spaghetti labels, etc.; tacking on grille cloth or stapling papers, receipts, checks, etc. Precision-built—steel body with fine Elack finish.  
18N15280..... **1.60**  
18N15281—Box of 1000 staples...35¢  
SAVE MORE! 10,000 staples...2.90



## ADJUSTABLE HACK SAW



Accommodates 8" to 12" blades. Blade can be faced in four directions. Easy-grip composition handle, nickel-plated stock.

Complete with 8-inch blade.  
18N17282—Shpg. Wt. 2 lbs..... **79¢**

## FLEXIBLE HACK SAW BLADES

Excellent quality, heat-treated for extra hardness. Fits all standard frames. 1/2" wide, .025" thick.

Cat. No.	Length	Teeth/in.	Each	Dozen
18N17273	10"	18"	<b>7¢</b>	<b>67¢</b>
18N17274	10"	24"		
18N17275	12"	18"	8¢	80¢
18N17276	12"	24"	9¢	87¢



## ALL-PURPOSE HACK SAW



Handy for tight places. Fits where ordinary hack saws cannot be used. Complete with 7 1/2" tapering blade.  
18N17278—Hack Saw..... **26¢**  
18N17279—Ex. Blades, Ea... 12¢

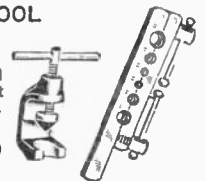
## HEX AND SPLINE WRENCH KIT

Contains complete range of wrench keys, both hex (Allen) and spline (Bristo) for No. 2 to 3/8" screws; all wrench sizes used in electronic trade. Comes in durable leatherette case.  
18N15488—Shipping Weight 8 oz. .... **97¢**



## G.M. CO. FLARING TOOL

Flares copper, brass and aluminum tubing without cracking or splitting. New type slip on clamp can be slipped on or off instantly. Flares six most popular sizes: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8". Bright nickel finish.  
18N15732.. Weight 2 lbs..... **2.79**



## BLOCK PLANE

Cuts with or across grain. For light work. Black enameled cast cap with lever cam lock. Screw end adjustment of high carbon steel cutter. Rosewood knob handle. 7" long; cutter 1 5/8".  
18N15617.....Weight 1 1/2 lbs..... **1.99**



## SMOOTH PLANE

Finest plane made for finishing broad surfaces. End and side adjustment of cutters. Solid high carbon steel, rosewood knobs and handles. Beautifully finished. 9" long; 2" cutters.  
18N15618.....Weight 3 1/4 lbs..... **5.08**





# UTILITY CABINETS AND PARTS DRAWERS

## REPLOGLE DRAFTING MACHINE

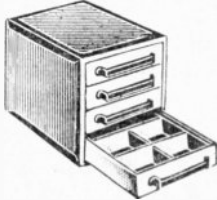


Cuts drafting time by one-third! Eliminates use of T-square, protractor, and triangles. Makes sharp, accurate drawings up to 16x22". Combination 90° angle, calibrated scale moves at any angle to any point on the masonite board. Includes 1 1/4 x 23 1/2 x 1/8" board, steel arms, fittings, rubber feet.

18N15092—Wt. 8 lbs..... **6.63**

## NEW UTILITY CABINET

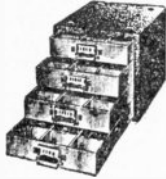
An ideal all steel cabinet for stocking and storing small parts. Drawer partitions are removable, to make from two to eight compartments in each drawer. Identification card holders are part of the drawer handles. Top and bottom of cabinet are embossed so as to fit securely when stacked. Silver grey, quality finish and strong construction make this cabinet an excellent value. Dimensions: 6" wide x 6 1/2" high x 8" deep. Shipping Weight: 5 lbs.



18N22374..... **2.25**

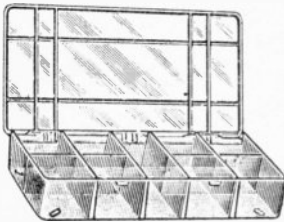
## 4-DRAWER ALL STEEL CABINET

Attractive, impressive, practical in design. Embossed cabinets fit securely when stacked in multiple units. Drawers are 8x10 1/4 x 1 1/4", each with card holder and removable partitions to furnish 2 to 12 compartments per drawer. Constructed of heavy gauge steel with no sharp edges. 7 1/2 x 8 1/2 x 10 1/4". Brown. Shipping. Wt: 9 lbs.



18N22351..... **5.25**

## TRANSPARENT UTILITY BOXES



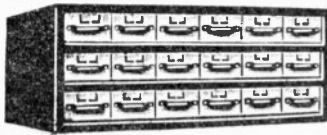
These attractive, crystal-clear plastic boxes make ideal storage compartments for screws, nuts, bolts and hundreds of other small parts. Built-in partitions keep parts separated at all times. Tight, snug fit of hinged cover assures parts remaining in correct compartment even when carried upside down. 7x3 1/2 x 1-3/16". Wt: 1/2 lb.

18N22383—9-Compartment Utility Box..... **67¢**

18N22384—5-Compartment Utility Box..... **67¢**

## EQUIPTO STEEL DRAWERS WITH FRAME

A handy unit of exceptional quality for storing your small parts. Use individually, stack or insert under counters and in shelving. Frames are welded into one strong, solid assembly that can be stacked with additional frames. Each of the eighteen drawers comes equipped with three adjustable and removable cross dividers making four compartments possible. This makes a total of 72 adjustable compartments. Dimensions of cabinet: 34" wide x 13 3/4" high x 12" deep. Dimensions of drawer: 11 7/8" x 5 3/8" x 3 1/8" high. Olive green finish. Shipped set up and ready for use.



18N22373..... **21.50**

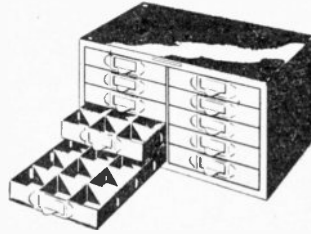
## CHUCK ARBORS TO FIT ANY SMALL MOTOR

Fits shaft of any small motor in place of a pulley. With flange and locking nut to hold grinding wheels, saws, and other tools. 1/4" three-jaw chuck. Choice of four sizes.



No.	Unit No.	Motor Shaft	Cost
18N15095	495	1/4"	.83
18N15096	490	3/8"	1.05
18N15097	490-A	1/2"	.97
18N15098	490-B	5/8"	1.13

## TEN DRAWER SMALL PARTS CABINET



A practical, heavy gauge steel cabinet especially designed for small parts. Provides ready storage space for resistors, condensers, hardware and other similar items. All drawers are 1 1/2" deep and have removable dividers that adjust each compartment for one to 12 sections. Identification card holders on each drawer. Cabinets can be easily stacked, one on top of another. Each cabinet top

has indentations that hold the feet of the one above. Sturdy construction — finished edges — handsome brown Hammerloid finish. Size: 16 1/4" wide x 8" high x 10" deep.

18N22350—Shipping Weight: 17 lbs. .... **7.88**

## "SNAP-ON" TYPE PARTS DRAWER

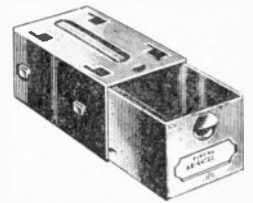
The modern, convenient way to store small parts. A strong, compact combination of gun-metal steel shells and water-clear plastic drawers. Merely snap together additional units on side, top and bottom to form strong metal cabinet with extra space. No tools required — simple to do; prongs and slots interlock securely and quickly. Plastic dividers make it convenient to sub-divide drawers into two or more compartments. Rails on bottom of drawers assure smooth easy movement under heavy loads. Dimensions: 6-1/16" long x 3-1/8" wide x 1-7/8" high. Weight: 9 oz.



18N22382..... **45¢**

## ALL-STEEL MULTI DRAWER

Convenient and economical storage for fittings, and small parts. Each unit constructed with tongue and slot designed to interlock with other units at top, bottom or side. Units may be fitted and securely locked around existing fixtures for economy of space. Each drawer has handy pull and holder for contents card. All steel construction, finished in attractive two-tone green. Ample drawer depth permits storage of reasonably large parts. Overall dimensions: 2-3/8 x 2-1/4 x 5".



18N22381—Shpg. Wt: 10 oz. 10 for..... **2.70** Each..... **30¢**

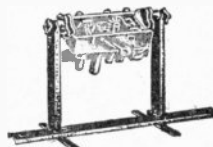
## NEW UNION PERSONAL FILE CHEST

Indispensable as a safe place to keep insurance papers, leases, contracts, correspondence, and other private or business papers. A systematic, time-saving, ready reference for instant use. Sturdily made of fire-resistant steel, equipped with spill-proof lock and two keys. Convenient, sturdy carrying handle with built-in identification card-holder. Comes with 10 Alphabetical A to Z dividers, 7 Budget Folders and 3 plain folders. Gray enamel finish. 12 1/2 x 10 1/4 x 5 1/2".

18N22352—Shpg. Wt. 4 lbs. .... **2.90**



## CHASSIS, CHANGER CRADLE



Steel framework and cork-padded clamps keep your work off the table—holds chassis or phonochanger at any angle so you can work on the bottom of chassis without endangering tubes. Stands on table or work bench. Adjustable for any size chassis or changer. Complete with standard clamps for grasping vertical surfaces of chassis or record changer. Groove in each clamp accommodates flanged-in bottom edge of chassis. Shpg. Wt: 3 lbs.

18N15085..... **3.87**



# BALLASTS - LINE CORDS - FUSES

## JFD AIR-COOLED ADJUSTABLE BALLAST KIT



Handy new kit of adjustable AC-DC ballasts in air-cooled perforated metal tubes, designed to replace more than 2700 different types of ballast tubes. Contains 2 Type "A," 2 Type "B," and 1 Type "C" ballasts, with book giving complete instructions and replacement data.  
7N6862—Shpg. wt. 2 lbs. .... **4.41**

### REPLACEMENT TUBES FOR ABOVE KIT

7N6856—Type "A" Ballast 8 Prong Octal  
7N6857—Type "B" Ballast 8 Prong Octal  
7N6858—Type "C" Ballast 4 Prong  
Any Type Above, Each ..... **88¢**

### JFD REPLACEMENT CHART

Use Type	To Replace Types Beginning With	Numbers	Ending With
A	K, L, M or B	10 to 42	A, B, C, D, E, G or H
B	K, L, M, BK, BL or BM	43 to 105	A, B, C, D, F, G, H, S1, S2, S3
C	To replace most 4-prong types such as LX42, KX49, KX'55, 140 R165R and 185R series.		

A replacement cord for all makes of receivers. One cord fits all type sets. Any normally used resistance from 22 to 330 ohms in one cord. Complete instructions supplied with each cord.

7N5321—Resistor cord. Shpg. wt. 8 oz. .... **88¢**

### UNIVERSAL RESISTOR CORD



### LINE CORD RESISTORS



Flexible, sturdy cords for AC-DC radios, field supplies, phono oscillators, etc. Ratings are at .3 amps. Voltage drop subtracted from line voltage gives total voltage applied to tube filaments.

No.	Ohms	Voltage Drop	No.	Ohms	Voltage Drop
7N5322	135	40.5 volts	7N5325	250	75.0 volts
7N5332	150	45.0 volts	7N5329	280	84.0 volts
7N5331	160	48.0 volts	7N5242	310	93.0 volts
7N5323	180	54.0 volts	7N5326	330	99.0 volts
7N5330	200	60.0 volts	7N5241	360	108.0 volts
7N5324	220	66.0 volts	7N5320*	560	*78.75 volts

\*Asterisk denotes cord used in 3-way portable sets. Voltage drop is calculated for .15 amp. drain.

Any above Type, Each ..... **59¢**

### SPECIAL AC-DC CORDS WITH PILOT LIGHT TAP

Similar above, but includes four conductors, with pilot light tap. Tinned leads for added protection.

7N5334	160 Total Ohms	Tapped at 24 Ohms
7N5335	180 Total Ohms	Tapped at 25 Ohms
7N5336	200 Total Ohms	Tapped at 40 Ohms
7N5337	200 Total Ohms	Tapped at 25 Ohms
7N5339	280 Total Ohms	Tapped at 40 Ohms

Any Above Type, Each ..... **81¢**

### 220 VOLT TO 110 VOLT LINE CORD RESISTOR

American cord with standard male plug and female receptacle. European type with foreign plug and standard receptacle—ideal for servicemen abroad. Use with shavers, appliances. Standard 300 ohm for sets using .3 amp. tubes, 50 ma. plate supply.



7N5243—Total Capacity 350 ma. Shpg. wt. 8 oz. .... **1.41**  
7N5244—As above, but foreign. Shpg. wt. 8 oz./Each ...  
Standard 560 ohms for sets using .15 amps tubes, 50 ma. plates.

7N5245—Total Capacity 200 ma. Shpg. wt. 8 oz. .... **1.41**  
7N5233—As above, but foreign. Shpg. wt. 8 oz./Each ...



### SIGNALITE 6 IN 1 PLUG FUSE

U. L. approved. Contains 6 separate fuse links can be used six times without removing from socket. Signal lamp lights in shock proof indicator cap when fuse blows—remains lit until cap is turned to renew fuse. Eliminates changing of fuses in dark, fumbling to find blown fuse. Each ampere is made with different colored cap.

39N13250	10 Amp. Fuse, Orange Cap.	Each <b>48¢</b> 6 asst 2.16 120 asst. for 25.28
39N13251	15 Amp. Fuse, Red Cap.	
39N13252	20 Amp. Fuse, Blue Cap.	
39N13253	25 Amp. Fuse, Yellow Cap.	
39N13254	30 Amp. Fuse, Green Cap.	

### "METER BACK" FUSE MOUNT

Mounts directly on any meter terminal. Will not touch other posts. Takes 1 x 1/4" instrument fuses only.

25N11049 ..... **12¢**

## JFD DUPLICATE TV REPLACEMENT BALLASTS

Exact duplicate ballasts for the television receivers listed below. Air cooled, perforated metal tubes.



Stock No.	Replacement for		Each	Stock No.	Replacement for		Each
	Make	Part No.			Make	Part No.	
7N6840	Belmont	B9M16534	1.32	7N6849	Motorola	17A470303	1.32
7N6841	Belmont	B9M15822	1.32	7N6850	Motorola	17A485459	1.32
7N6842	Belmont	B9M10097	1.32	7N6852	Stew. Warn.	SW507300	1.32
7N6843	Emerson	397021	1.32	7N6853	Teletone	TBR102D	1.32
7N6844	Emerson	397022	1.32	7N6854	Teletone	TBR103D	1.32
7N6846	Emerson	397023	1.32	7N6855	Teletone	TBR104D	1.32

### AMPERITE AC-DC BALLAST TUBES

By using these fine regulators, tubes are kept to within 5% of their correct voltage, even if the line varies from 85 to 145 volts. Complete with starting resistor that saves pilot lights and tubes. All KL types are Octal base.

\*Denotes exact replacement unit.

Any Type Below, Each ..... **73¢**

No.	Type	No.	Type	No.	Type
7N12238	4P-45	7N12225	200R*	7N12232	KL-45
7N12237	KL-75H			7N12236	KL-50H

### REPLACES ALL AC-DC BALLASTS

Type	Beginning With	Numbers	Ending With
KL-45	K, L, M or B	36 to 67	A, B, C or D
KL-50H	K, L, M or BK	36 to 67	F, G or H
KL-75H	K, L, M or BK	67 to 105	F, G or H

### TYPE 4P-45-4 PRONG

#### REPLACES THE FOLLOWING TYPES:

50A2	140R8	140L44	LX423	KX49B	LX49C	KX55C
50B2	140R44	165L4	LX42C	KX49C	LX49D	LX55B
50X3T	140L4	165R8	LX42D	KX49D	KX55A	LX55C
140R4	140L8	165R44		LX49B	KX55B	LX55D

### LITTLEFUSES FOR TEST INSTRUMENTS

Type 8AG. Protect delicate instruments. Break circuit immediately on reaching blow point. Length 1" diam. 1/4". May be used on 250 volts AC or DC. High Speed action.

Catalog No.	Rating	Max. Load Ma.	Res. on 5 Ma. Load Ohms	Each	Per 100	V-M Ohms Per V.	To Protect Milliammeters
39N12339	1/200	5	480	18¢	14.70	over 1000	Galv. up to 0-1
39N12385	1/100	10	160	12¢	9.80	1000	1-10
39N12386	1/22	25	40	12¢	9.80	500-1000	10-25
39N12387	1/16	60	5	9¢	7.35	100-500	25-75
39N12388	1/8	100	2	9¢	7.35	20-100	
39N12390	1/4	200	3.5			10-20	75-150
39N12391	3/8	300	3	9¢	7.35	5-10	150-250
39N12392	1/2	400	2			3-5	250-350
39N12393	3/4	600	2				350-500
39N12394	1	1000	.24	6¢	4.90		500-750
39N12395	2	2000	.10				1000-1500

Littlefuses. Type 3AG. Rated at 250 V.

No.	Amp.	Each	No.	Amp.	Each
39N12396	1/8	9¢	39N12378	1	4¢
39N12397	1/4	9¢	39N12379	1 1/2	4¢
39N12398	1/2	9¢	39N12380	2	4¢
39N12399	3/4	9¢	39N12381	3	4¢

Above, 100 for ... 7.35 Above, 100 for ... 3.43

Littlefuses. Type 3AG. Rated at 32 V.

No.	Amp.	Each	100
39N12321	10	.025	1.96
39N12322	15	.025	1.96
39N12326	30	.03	2.45

Littlefuse Auto Fuses. Type SFE 32 V.

Stock No.	Amp.	Size	Each	Per 100
39N12368	4	1/4 x 5/8	3¢	2.45
39N12369	10	1/4 x 7/8	2 1/2¢	1.96
39N12370	14	1/4 x 1 1/8	2 1/2¢	1.96
39N12371	20	1/4 x 1 1/2	2¢	1.71

3AG FUSE RETAINER. (A) Two piece metal. 2 1/2" L. 39N12372—Each 8¢. .... 10 for 72¢

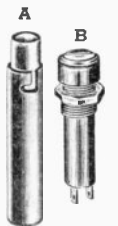
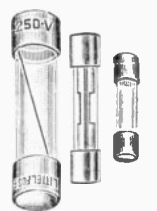
FOR PHILCO, MOTOROLA. 2 pc. 2 1/2" x 1 1/2" D. 39N8349—Each 17¢. .... 12 for 1.84

### EXTRACTOR FUSE POSTS (B)

Stock No.	For Type	Knobs	Each
39N12328	8AG 1"	Screw driver slot	27¢
39N12329	8AG 1"	Thumb	26¢
39N12326	3AG 1 1/4"	Screw driver slot	26¢
39N12331	3AG 1 1/4"	Thumb	26¢

(C) FUSE MOUNTS. Bakelite base.

39N12382	Sub-panel, instrument	15¢
39N12327	Sub-panel, 3AG	15¢
39N12383	Panel, instrument	9¢
39N12324	Panel, 3AG	15¢





# IRC RESISTORS - KITS & CABINET ASSORTMENTS

## IRC INSULATED RESISTORS—TYPE BT COMPOSITION MEETS JAN SPECS



Fully insulated, moisture proof, filament type element in bakelite housing. Exclusive construction features provide low operating temperature and excellent power dissipation. Easily meets the exacting requirements of TV. BTS corresponds to JAN RC10 and RC20; BTA to JAN RC30 and BT-2 to JAN RC41. Tolerance  $\pm 10\%$ .

$\pm 5\%$  available on special order at slightly higher prices, in minimum quantities of 10 of one value. Specify resistance when ordering.

### STANDARD RMA CODE—SPECIFY RESISTANCE

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs.	Megs.
0.47	4.7	47	470	4700	47000	0.47	4.7
0.51	5.1	51	510	5100	51000	0.51	5.1
0.56	5.6	56	560	5600	56000	0.56	5.6
0.68	6.8	68	680	6800	68000	0.68	6.8
0.82	8.2	82	820	8200	82000	0.82	8.2
1.0	10.0	100	1000	10000	100000	1.0	10.0
1.2	12.0	120	1200	12000	120000	1.2	12.0
1.5	15.0	150	1500	15000	150000	1.5	15.0
1.8	18.0	180	1800	18000	180000	1.8	18.0
2.2	22.0	220	2200	22000	220000	2.2	22.0
2.7	27.0	270	2700	27000	270000	2.7	27.0
3.3	33.0	330	3300	33000	330000	3.3	33.0
3.9	39.0	390	3900	39000	390000	3.9	39.0

1/2-Watt—BTS		1 Watt—BTA		2 Watt—BT-2	
Size: $1\frac{3}{16} \times \frac{1}{8}$ "	Range 470 ohms to 22 megohms.	Size: $1\frac{3}{16} \times \frac{1}{4}$ "	Range 330 ohms to 22 megohms.	Size: $1\frac{1}{2} \times \frac{1}{4}$ "	Range 470 ohms to 22 megohms.
7N5206.....	<b>10¢</b>	7N5207.....	<b>15¢</b>	7N5263.....	<b>20¢</b>
Each.....	<b>6¢</b>	Each.....	<b>9¢</b>	value. Each...	<b>12¢</b>

## "BW" INSULATED WIRE-WOUND RESISTORS

Similar to the BT units listed above, but contain a wire wound element, completely encased in molded compound. Tolerance  $\pm 10\%$ . Order sizes desired from tabulated listing above. Specify Resistance.

1/2-Watt—BW-1/2		1-Watt—BW-1		2-Watt—BW-2	
Size: $\frac{3}{8} \times \frac{3}{16}$ "	Range 0.47 to 820 ohms.	Size: $1\frac{1}{4} \times \frac{1}{4}$ "	Range 0.47 to 4700 ohms.	Size: $1\frac{3}{4} \times \frac{1}{4}$ "	Range 1.0 to 6800 ohms.
7N5298.....	<b>10¢</b>	7N5259.....	<b>15¢</b>	7N5299.....	<b>20¢</b>
Each.....	<b>6¢</b>	Each.....	<b>9¢</b>	Each.....	<b>12¢</b>

## IRC METAL RESIST-O-CABINETS



Sturdy all steel cabinet with 4 non-spill drawers; has 28 range identified compartments. Measures  $5\frac{3}{8} \times 3\frac{1}{8} \times 10\frac{1}{8}$ ". FREE with purchase of any assortment below.

**Assortment No. 4**  
100 BW  $\frac{1}{2}$  & BTS  $\frac{1}{2}$ -watt assorted resistors. Range: 47 ohms to 10 megohms.  
7N5310—With Cabinet..... **9.80**

**Assortment No. 5**  
83 BW 1 & BTA 1-watt assorted resistors. Range: 47 ohms to 4.7 megohms.  
7N5311—With Cabinet..... **12.20**

**Assortment No. 6**  
91 assorted insulated  $\frac{1}{2}$ , 1 and 2 watt resistors including 5 "Precisors", Range 47 ohms to 5 megohms.  
7N5312—With Cabinet..... **14.65**

## NEW IRC RESIST-O-KITS

Flat, pocket-sized all metal case—free with either of the assortments below. Ten-range identified compartments. Contents cannot mix. Ideal for service calls or small bench stocks. Attractive blue and yellow finish. Measures  $1\frac{1}{8} \times 3\frac{3}{8} \times 6\frac{3}{8}$ ".

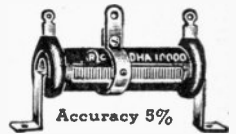
**IRC Assortment No. 7**  
45 BTS  $\frac{1}{2}$ -watt, assorted resistors. Range 1,000 ohms to 2.2 megohms.  
7N5313—With Cabinet..... **4.41**



**IRC Assortment No. 8**  
30 BTA 1-watt assorted resistors. Range: 1,000 ohms to 1 megohm.  
7N5314—With Cabinet..... **4.41**

## IRC POWER WIRE WOUND VARIABLE RESISTORS

For all industrial and radio uses. Dissipate heat rapidly, withstand heavy overloads, have great mechanical strength. All supplied with contact band. Above ten watta have silver contact. Mounting brackets with all but ten watt units. Sizes: ABA,  $1\frac{1}{2} \times \frac{1}{8}$ ", DHA,  $2\frac{1}{4} \times \frac{3}{16}$ ", EPA,  $4\frac{1}{2} \times \frac{3}{16}$ ", ESA,  $6\frac{1}{2} \times \frac{3}{16}$ ", HAA,  $6\frac{1}{2} \times 1\frac{1}{8}$ ", HOA,  $10\frac{1}{2} \times 1\frac{1}{8}$ ".



Accuracy 5%

Extra Contact Sliders for Resistors.

7N5213—for 10 watt..... **12¢**  
7N5219—for 25 watt.....  
7N5217—for 50-80 watt.....  
7N5218—for 100-200 watt..... **15¢**  
Available resistances in each wattage indicated by price:

OHMS	10 Watt 7N5262 ABA	25 Watt 7N5224 DHA	50 Watt 7N5225 EPA	80 Watt 7N5226 ESA	100 Watt 7N5227 HAA	200 Watt 7N5228 HOA
5	.71	.92	1.16	1.33	.....	.....
10	.71	.92	1.16	1.33	.....	.....
25	.71	.92	1.16	1.33	.....	.....
50	.71	.92	1.16	1.33	.....	.....
100	.71	.92	1.16	1.33	1.74	.....
150	.71	.92	1.16	.....	.....	.....
200	.71	.92	1.16	1.33	.....	.....
250	.71	.92	1.16	1.33	.....	.....
500	.71	.92	1.16	1.33	1.74	2.14
750	.71	.92	1.16	1.33	.....	.....
1000	.71	.92	1.16	1.33	1.74	2.14
1250	.73	.93	1.21	.....	.....	.....
1500	.73	.93	1.21	1.39	.....	.....
2000	.73	.93	1.21	1.39	1.79	2.18
2500	.73	.93	1.21	1.39	.....	.....
3000	.73	.93	1.21	1.39	.....	.....
4000	.73	.93	1.21	1.39	.....	.....
5000	.73	.93	1.21	1.39	1.79	2.18
6000	.78	1.00	1.28	1.47	.....	.....
7500	.78	1.00	1.28	1.47	1.89	.....
10,000	.78	1.00	1.28	1.47	1.89	2.30
15,000	.....	1.03	1.39	1.56	2.01	.....
20,000	.....	1.03	1.39	1.56	.....	.....
25M	.....	1.11	1.50	1.71	2.14	2.47
40M	.....	.....	1.50	1.71	.....	.....
50M	.....	.....	1.62	1.76	2.22	2.53
75M	.....	.....	1.80	.....	2.33	2.67
100M	.....	.....	1.91	2.13	2.43	2.77

## IRC WIRE WOUND FIXED POWER RESISTORS



Accuracy 5%

Machine wound on non-hygroscopic cores; with heavy insulating coating that resists mechanical damage. Sizes: AB,  $1\frac{1}{2} \times \frac{3}{16}$ "; DG,  $2 \times \frac{3}{16}$ "; EP,  $4\frac{1}{2} \times \frac{3}{16}$ "; HA,  $6\frac{1}{2} \times 1\frac{1}{8}$ "; HO,  $10\frac{1}{2} \times 1\frac{1}{8}$ ".

Available resistances in each wattage indicated by price:

OHMS	10 Watt 7N5210 AB	20 Watt 7N5220 DG	50 Watt 7N5221 EP	100 Watt 7N5222 HA	200 Watt 7N5223 HO
1	.34	.44	.....	.....	.....
5	.34	.44	.80	.....	.....
10	.34	.44	.80	.....	.....
25	.34	.44	.80	.....	.....
50	.34	.44	.80	.....	.....
75	.34	.44	.....	.....	.....
100	.34	.44	.80	1.20	1.59
150	.34	.44	.....	.....	.....
200	.34	.44	.80	1.20	1.59
250	.34	.44	.80	1.20	1.59
500	.34	.44	.80	1.20	1.59
750	.34	.44	.80	1.20	1.59
1000	.34	.44	.80	1.20	1.59
1250	.37	.46	.....	1.22	.....
1500	.37	.46	.85	1.22	1.62
2000	.37	.46	.85	1.22	1.62
2250	.37	.46	.....	.....	.....
2500	.37	.46	.85	1.22	1.62
3000	.37	.46	.85	.....	.....
3500	.37	.46	.....	.....	.....
4000	.37	.46	.85	.....	.....
4500	.37	.46	.....	.....	.....
5000	.37	.46	.85	1.22	1.62
6000	.42	.52	.93	.....	.....
7000	.42	.52	.93	.....	.....
7500	.42	.52	.93	1.32	1.73
10,000	.42	.52	.93	1.32	1.73
12,000	.47	.55	1.03	.....	.....
12,500	.47	.55	1.03	.....	.....
15,000	.47	.55	1.03	1.45	1.84
20,000	.47	.55	1.03	1.45	1.84
25M	.51	.64	1.15	1.57	1.91
30M	.....	.64	1.15	.....	.....
35M	.....	.64	.....	.....	.....
40M	.....	.64	1.15	.....	.....
50M	.....	.73	1.25	1.66	1.98
60M	.....	.....	1.25	.....	.....
75M	.....	.....	1.44	1.76	2.09
100M	.....	.....	1.56	1.86	2.20



# OHMITE FIXED & ADJUSTABLE RESISTORS



## BROWN DEVIL FIXED RESISTORS

Wire-wound, vitreous enameled units. Tinned copper terminals. Protected against humidity. Tolerance  $\pm 10\%$ . Wt. 3 oz.

### OHMS

0.4 $\ddagger$	10	150	750	2,250 $\ddagger$	8,000	20,000	75,000*
0.6 $\ddagger$ *	12 $\ddagger$	200	800	2,400 $\ddagger$ *	8,500 $\ddagger$	22,500 $\ddagger$	80,000*
0.8 $\ddagger$ *	15 $\ddagger$	225 $\ddagger$	850 $\ddagger$ *	2,500	10,000	25,000	85,000*
1 $\ddagger$	20 $\ddagger$	250	900 $\ddagger$ *	2,750 $\ddagger$ *	11,000 $\ddagger$	30,000	90,000*
1.2 $\ddagger$	25	300	1,000	3,000	12,000 $\ddagger$	35,000	95,000*
1.3 $\ddagger$	30 $\ddagger$	350	1,100 $\ddagger$	3,500 $\ddagger$	12,500	40,000	100,000*
1.5 $\ddagger$	35 $\ddagger$	400	1,200 $\ddagger$	4,000	13,500 $\ddagger$	45,000	
2 $\ddagger$	40 $\ddagger$	450	1,250	4,500 $\ddagger$	14,300 $\ddagger$	50,000	
3 $\ddagger$	50	500	1,500	5,000	15,000	55,000*	
4 $\ddagger$	75	600 $\ddagger$	1,750 $\ddagger$	6,000	16,000 $\ddagger$	60,000*	
5	100	650 $\ddagger$ *	1,850 $\ddagger$ *	7,000 $\ddagger$	17,500 $\ddagger$	65,000*	
7.5 $\ddagger$	125 $\ddagger$	700 $\ddagger$	2,000	7,500	18,000 $\ddagger$	70,000*	

### 5-WATT

All sizes to 10,000 ohms except  $\ddagger$

No.	Ohms	Each
7N7103	1-1000	.31
7N7103	1100-5000	.33
7N7104	6000-10000	.36

### 10 WATT

All sizes except those marked \*

No.	Ohms	Each
7N7150	0.4-1000	.34
7N7150	1100-5000	.37
7N7150	6000-10000	.42
7N7151	11000-20000	.47
7N7151	22500-25000	.51
7N7151	30000-50000	.57

### 20-WATT

All sizes except those marked  $\ddagger$

No.	Ohms	Each
7N7152	0.4-1000	.44
7N7152	1200-5000	.46
7N7152	6000-10000	.52
7N7152	12500-15000	.55
7N7153	20000	.55
7N7153	25M-40M	.64
7N7153	45M-50M	.73
7N7154	55M-60M	.73
7N7154	65M-80M	.86
7N7154	85M-100M	.99

## OHMITE "LITTLE DEVIL" RESISTOR ASSORTMENTS FREE PLASTIC CABINET

You pay only for resistors! Contains 125 selected  $\frac{1}{2}$ -watt resistors in 40 compartments. 40 values (10 ohms to 10 megs) most frequently used.  $9\frac{1}{4} \times 5\frac{1}{4}$ ". Complete with cabinet and 125 resistors.



7N5315—Type CAB-1 ..... **12.25**  
Same as above but with 1 watt assortment  
7N5316—Type CAB-2 ..... **18.37**

## OHMITE "LITTLE DEVIL" INSULATED RESISTORS

Insulated molded plastic. Meet JAN specifications including humidity and salt water immersion tests. Used in critical equipment and in foremost laboratories. Dissipate heat rapidly. Tolerance  $\pm 10\%$ .



### STANDARD RMA CODE—SPECIFY RESISTANCE

Ohms	Ohms	Ohms	Ohms	Megohms	Megohms	Megohms
10	100	1,000	10,000	0.1	1.0	10.0
12	120	1,200	12,000	0.12	1.2	12.0
15	150	1,500	15,000	0.15	1.5	15.0
18	180	1,800	18,000	0.18	1.8	18.0
22	220	2,200	22,000	0.22	2.2	22.0
27	270	2,700	27,000	0.27	2.7	...
33	330	3,300	33,000	0.33	3.3	...
39	390	3,900	39,000	0.39	3.9	...
47	470	4,700	47,000	0.47	4.7	...
56	560	5,600	56,000	0.56	5.6	...
68	680	6,800	68,000	0.68	6.8	...
82	820	8,200	82,000	0.82	8.2	...

### $\frac{1}{2}$ WATT

Size  $\frac{3}{8}$ " x  $\frac{3}{16}$ "  
Max. 350 volts  
7N7100 ..... 10¢  
100 of one value.  
Each ..... 6¢

### 1 WATT

Size  $\frac{9}{16}$ " x  $\frac{7}{16}$ "  
Max. 500 volts  
7N7101 ..... 15¢  
100 of one value.  
Each ..... 9¢

### 2 WATT

Size  $1\frac{1}{16}$ " x  $\frac{3}{8}$ "  
Max. 1000 volts  
7N7102 ..... 20¢  
100 of one value.  
Each ..... 12¢

NOTE: We can supply all RMA standard value resistors in 5% tolerance in multiple quantities of 10 of one value. Send us your specifications and we will gladly submit quotations.

## OHMITE "DIVIDOHM" ADJUSTABLE RESISTORS



Wire wound, vitreous enameled on porcelain cores with a narrow strip of wire exposed to form contact surface. With slider.

## VITREOUS ENAMELED FIXED RESISTORS

Lug type resistors, wire wound on porcelain cores. Vitreous enameled coating protects and insulates the wire. Terminal lugs. Tolerance  $\pm 10\%$ .



Ohms	25W 7N7125	50W 7N7132	100W 7N7139	200W 7N7144
1	.47	1.11	1.66	2.20
2	.47	1.11	1.66	2.20
3	.47	1.11	1.66	2.20
4	.47	1.11	1.66	2.20
5	.47	.80	1.20	2.20
10	.47	.80	1.20	1.59
25	.47	.80	1.20	1.59
50	.47	.80	1.20	1.59
75	.47	.80	1.20	1.59
100	.47	.80	1.20	1.59
150	.47	.80	1.20	1.59
200	.47	.80	...	...
250	.47	.80	1.20	1.59
500	.47	.80	1.20	1.59
750	.47	.80	1.20	1.59
800	.47	.80	...	...
1000	.47	.80	1.20	1.59
1500	.51	.85	1.22	1.62
2000	.51	.85	1.22	1.62
2500	.51	.85	1.22	1.62
3000	.51	.85	1.22	1.62
3500	.51	...	...	...
4000	.51	.85	...	...
5000	.51	.85	1.22	1.62
6000	.55	...	...	...
7500	.55	.93	1.32	1.73
8000	...	.93	...	...
10,000	.55	.93	1.32	1.73
12,000	.59	1.03	...	...
15,000	.59	1.03	1.45	1.84
20,000	.59	1.03	1.45	1.84
25,000	.67	1.18	1.57	1.91
30,000	.67	...	1.57	1.91
35,000	.67	1.18	...	...
40,000	.67	...	1.57	1.91
45,000	.76	...	...	...
50,000	.76	1.25	1.66	1.98
60,000	.76	...	1.66	1.98
70,000	.89	...	...	...
75,000	...	1.44	1.76	2.09
80,000	.89	...	...	...
100,000	1.02	1.56	1.86	2.20
125,000	...	1.66	...	...
150,000	...	1.71	...	...
175,000	...	1.78	...	...
200,000	...	1.84	...	...
225,000	...	2.08	...	...
250,000	...	2.08	...	...

## STANDARD ADJUSTABLE SLIDERS

Screwdriver Type

Bakelite Knob Type

Diam.	No.	Each
$\frac{5}{16}$ "	7N7193	12¢
$\frac{9}{16}$ "	7N7194	12¢
$\frac{3}{4}$ "	7N7195	15¢
$1\frac{1}{8}$ "	7N7196	15¢

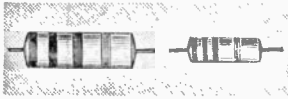
No.	Each
7N7197	18¢
7N7198	24¢
7N7199	24¢

Ohms	10W 7N7174	25W 7N7175	50W 7N7178	100W 7N7182	200W 7N7185
1	...	...	1.47	...	...
2	...	...	1.47	...	...
3	...	...	1.47	...	...
4	...	...	1.47	...	...
5	.71	.93	1.16	...	...
10	.71	.92	1.16	1.74	2.14
25	.71	.92	1.16	1.74	2.14
50	.71	.92	1.16	1.74	2.14
75	...	...	1.16	...	...
100	.71	.92	1.16	1.74	2.14
150	...	...	1.16	...	...
200	...	...	1.16	...	...
250	.71	.92	1.16	1.74	2.14
300	...	...	1.16	...	...
400	...	...	1.16	...	...
500	.71	.92	1.16	1.74	2.14
750	.71	.92	1.16	...	...
800	...	...	1.16	...	...
1000	.71	.92	1.16	1.74	2.14
1250	...	...	1.21	...	...
1500	...	...	1.21	...	...
2000	.73	.93	1.21	...	...
2250	...	...	1.21	...	...
2500	.73	.93	1.21	1.79	2.18
3000	.73	.93	1.21	...	...
3500	...	...	1.21	...	...
4000	.73	.93	1.21	...	...
4500	...	...	1.21	...	...
5000	.73	.93	1.21	1.79	2.18
6000	...	...	1.28	...	...
7000	...	...	1.28	...	...
7200	...	...	1.28	...	...
7500	.78	1.00	1.28	...	...
8000	...	...	1.28	...	...
9000	...	...	1.28	...	...
10,000	.78	1.00	1.28	1.89	2.30
12,000	...	...	1.39	...	...
15,000	...	1.03	1.39	2.01	2.42
20,000	...	1.03	1.39	2.01	2.42
25,000	...	1.11	1.50	2.14	2.47
30,000	...	...	1.50	2.14	2.47
40,000	...	...	1.50	2.14	2.47
50,000	...	...	1.62	2.22	2.53
60,000	...	...	1.62	...	...
80,000	...	...	1.80	...	...
100,000	...	...	1.91	...	...



# RELIANCE RESISTORS—SMALL PARTS CABINETS

## INSULATED 1/2 AND 1 WATT RESISTORS



RMA color coded insulated resistors. Moisture and heat resistant. Securely anchored pigtail wire leads. Ideal for congested wiring in compact equipment.

All resistors are constructed to the highest quality standards. Low noise level. Each is compactly made to small size consistent with ratings for use where space is critical. RMA preferred values only. Guaranteed accuracy  $\pm 10\%$ .

Resis. Ohms	1/2 Watt Cat. No.	1 Watt Cat. No.	Resis. Ohms	1/2 Watt Cat. No.	1 Watt Cat. No.
220	7N4250	7N4300	56,000	7N4278	7N4328
270	7N4239	7N4354	68,000	7N4279	7N4329
330	7N4245	7N4348	82,000	7N4280	7N4330
390	7N4251	7N4301	100,000	7N4281	7N4331
470	7N4252	7N4302	120,000	7N4282	7N4332
560	7N4253	7N4303	150,000	7N4283	7N4333
680	7N4254	7N4304	180,000	7N4240	7N4355
820	7N4255	7N4305	220,000	7N4284	7N4334
1000	7N4256	7N4306	270,000	7N4285	7N4335
1200	7N4257	7N4307	330,000	7N4286	7N4336
1500	7N4258	7N4308	390,000	7N4247	7N4350
1800	7N4259	7N4309	470,000	7N4287	7N4337
2200	7N4260	7N4310	560,000	7N4241	7N4356
2700	7N4261	7N4311	680,000	7N4242	7N4357
3300	7N4262	7N4312	820,000	7N4288	7N4358
3900	7N4263	7N4313	Megohms		
4700	7N4264	7N4314	1.0	7N4289	7N4339
5600	7N4265	7N4315	1.2	7N4243	7N4352
6800	7N4266	7N4316	1.5	7N4244	7N4353
8200	7N4268	7N4318	1.8	7N4245	7N4354
10,000	7N4269	7N4319	2.2	7N4290	7N4340
12,000	7N4270	7N4320	2.7	7N4291	7N4341
15,000	7N4271	7N4321	3.3	7N4292	7N4342
18,000	7N4272	7N4322	3.9		
22,000	7N4273	7N4323	4.7		
27,000	7N4274	7N4324	5.6	7N4293	7N4343
33,000	7N4275	7N4325	6.8	7N4294	7N4344
39,000	7N4276	7N4326	8.2	7N4295	7N4345
47,000	7N4277	7N4327	10	7N4297	7N4347

Each, 1/2-Watt Size **4¢** Each, 1-Watt Size **5¢**  
 10 for 29¢..... 100 for 2.49 10 for 38¢..... 100 for 3.40

## KIT OF 100 RESISTORS

An assortment of 100 popular carbon resistors. Kit contains approximately 50 1-watt, 25 1/2-watt and 25 1/4-watt resistors. All are standard RMA color coded. Shipping weight 2 lbs.  
 7N3816—Kit of 100 resistors. Each Kit..... **1.50**

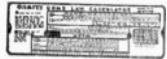


## RESISTOR COLOR CARD INDICATOR

Permits instant calculation of the value in ohms of any RMA color coded resistor. The circular rule can be set in a moment—readings are accurate. Full directions printed on indicator.  
 7N3847..... **10¢**

Note: Calculator above free with orders for 20 or more Reliance carbon resistors.

## OHMITE POCKET-SIZE OHM'S LAW CALCULATOR



Solves Ohm's Law problems quickly and easily with one setting of slide. No decimal points to cause confusion—all values are direct reading. Requires no slide-rule knowledge.  
 23N19711—Postpaid in U.S.A..... **25¢**

## 4 DRAWER ALL STEEL CABINET



Attractive, impressive, practical in design. Embossed cabinets fit securely when stacked in multiple units. Drawers are 8x10 1/4 x 1 1/4", each with card holder and removable partitions to furnish 2 to 12 compartments per drawer. Constructed of heavy gauge steel with no sharp edges. 7 1/2 x 8 1/2 x 10 1/4. Brown.  
 18N22351—Shpg. wt. 9 lbs..... **5.25**

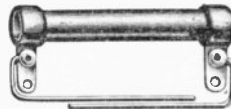
## IRC RESIST-O-GUIDE



A handy resistor color code chart that measures 3 x 5 inches. It includes both the old and the new style codes, together with tolerance designations. Also has Ohm's Law formulas and a ruler printed on the Pyrolin card.  
 23N19747..... **15¢**

## 5 AND 10 WATT WIRE-WOUND RESISTORS

Tolerance within 5%



All are wound with genuine nichrome wire on fine ceramic tubes. Guaranteed accuracy 5%. Tinned copper wire leads and lugs for easy soldering. When ordering, specify size desired.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
5	50	250	800	1500	2750	8000	20000
10	75	400	900	1750	3000	9000	22500
15	100	500	1000	2000	4000	10000	25000
20	150	600	1100	2250	5000	12500	30000*
25	200	750	1250	2500	6000	15000	40000*
					7000	17500	50000*

\* Available in 10-watt size only.

7N4438—5-Watt Resistors. Each, any size..... **17¢**

7N4439—10-Watt Resistors. Each, any size..... **21¢**



## 10 Watt Adjustable Wire Wound

Vitreous enamel coated. Lug terminals. 1 1/4" x 3/8" O.D.; with mtg. brkts.

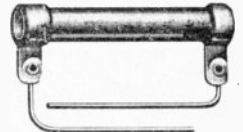
Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Each
10	50	150	500	2000	5000	<b>29¢</b>
25	100	200	1000	2500	10000	

7N4445—Specify resistance.

7N4446—Extra Slider for above. Each..... **5¢**

## Reliance Vitreous Resistors

Guaranteed plus or minus 10%. All are non-porous, dissipate heat rapidly, have positive lug contacts and do not change in value. Each marked for resistance.



## 10-Watt Rating 3/8x1 1/4"

No.	Ohms	No.	Ohms	No.	Ohms	No.	Ohms
7N4850	1	7N4866	100	7N4876	1000	7N4886	10000
7N4854	5	7N4868	150	7N4879	2000	7N4888	15000
7N4856	10	7N4870	250	7N4880	3000	7N4889	20000
7N4861	30	7N4872	400	7N4881	5000	7N4890	25000
7N4863	40	7N4873	500	7N4883	5000	7N4893	30000
7N4864	50	7N4875	750				

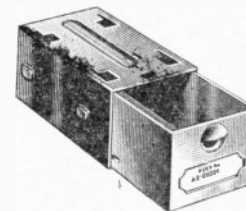
Each, Any Size..... 20¢ 5 for..... 90¢

## 20-Watt Rating 1/2x2"

## 50-Watt 3/4x4"

No.	Ohms	No.	Ohms	No.	Ohms
7N4910	25	7N4936	2500	7N4958	100
7N4911	50	7N4938	3000	7N4959	250
7N4913	100	7N4940	4000	7N4960	500
7N4915	200	7N4942	5000	7N4963	1000
7N4919	400	7N4943	6000	7N4970	5000
7N4920	500	7N4946	8000	7N4976	10000
7N4923	750	7N4947	10000	7N4979	15000
7N4926	1000	7N4949	15000	7N4981	20000
7N4930	1500	7N4950	25000	7N4982	25000
7N4933	2000	7N4952	50000	7N4983	30000
7N4934	2250	7N4952	100000	7N4985	50000
Each.....	<b>32¢</b>	Each.....	<b>32¢</b>	Each.....	<b>66¢</b>

## ALL-STEEL MULTI DRAWER

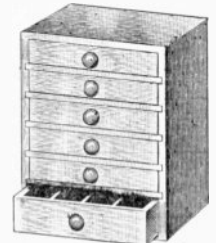


Convenient and economical storage for fittings, and small parts. Each unit constructed with tongue and slot designed to interlock with other units at top, bottom or side. Units may be fitted and securely locked around existing fixtures for economy of space. Each drawer has handy pull and holder for contents card: All-steel construction finished in attractive two-tone green. Ample drawer

depth permits storage of reasonably large parts. Overall dimensions 2 3/8" x 2 1/4" x 5".  
 18N22381—Shpg. wt. 10 oz. 10 for.... 2.70 Each..... **30¢**

## WIRT RESISTOR CABINET 24 ROOMY COMPARTMENTS

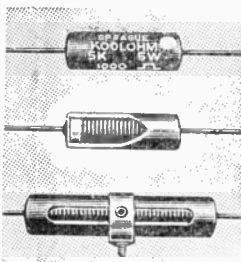
Handsome blond finish wooden cabinet designed for the systematic and safe storage of resistors, small condensers and hardware or small precision tools. Saves you time and effort, keeps small parts at your fingertips, protects them from damage by contact with larger tools. Resistor or condenser leads need not be bent as drawers measure 5 1/4" deep. Six drawers with four compartments each assure ample space to file hundreds of 1-watt resistors. Flat top and bottom allows cabinets to be stacked when more drawer space is required. Sturdy tongue and groove construction throughout. Measures 9" high, 7" wide, 6 1/2" deep.  
 7N22363—Shipping weight 5 lbs..... **3.90**





# SPECIAL RESISTORS & CLAROSTAT VOLUME CONTROLS

## SPRAGUE "KOOLOHM" RESISTORS



New Tropicalized fixed resistors. Insulation has high dielectric strength, withstands red heat and is impervious to moisture. Units are encased in tubular ceramic shells which permit mounting in contact with metal parts without shorting.  $2\frac{1}{2}$ " tinned copper wire leads. Meet requirement of television and other high-voltage circuits. Negligible resistance drift. Insulated for 10,000 volts. Accuracy guaranteed  $\pm 5\%$ . Non-inductive types show zero inductance up to 50 mc. and distributed capacitance is only 2 mmfd.

### STANDARD FIXED

Ohms	Ohms	Ohms	Ohms
10	250	2500	20,000
20	300	3000	25,000
25	400	5000	30,000
30	500	7500	40,000
50	750*	10,000	50,000*
75	1000	12,000*	60,000*
100	1250	12,500*	70,000*
150	1500	15,000	
200	2000	17,500*	

†—5 watt only. \*—10 watt only.

### Type 5KT—5 W. $1\frac{1}{2} \times 13/32$ "

No.	Ohms	Each
7N7513	10 to 5,000	30¢
7N7514	7,500 to 10,000	31¢
7N7515	12,500 to 15,000	35¢
7N7516	20,000	39¢
7N7517	25,000	49¢
7N7518	30,000	53¢
7N7519	40,000	60¢

### Type 10KT—10 W. $1\frac{1}{2} \times 13/32$ "

No.	Ohms	Each
7N7520	10 to 10M Ohms	34¢
7N7521	12M, 15M Ohms	38¢
7N7522	17,500 & 20,000	42¢
7N7523	25,000	43¢
7N7524	30,000	53¢
7N7524	40,000	64¢
7N7525	50,000	71¢
7N7526	60,000	88¢
7N7527	70,000	99¢

### STANDARD ADJUSTABLE

Type 10AD—10 W.  $1\frac{1}{2} \times 13/32$ "  
With adjustable clip.

Ohms	Ohms	Ohms	Ohms
10	200	750	3000
25	250	1000	4000
50	300	1500	5000
100	400	2000	7500
150	500	2500	10,000

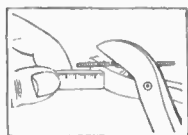
7N7534—Any Above  
Each..... **58¢**

### NON-INDUCTIVE FIXED

Type 10NIT—10 W.  $1\frac{1}{2} \times 13/32$ "

Ohms	Ohms	Ohms	Ohms
10	70	500	2500
20	80	750	3000
30	90	1000	3500
40	100	1250	4000
50	250	1500	5000
60	400	2000	7500
			10,000

Stock No.	Ohms	Each
7N7528	10 to 1000	46¢
7N7529	1250 to 2000	54¢
7N7530	2500 to 4000	58¢
7N7531	5000	61¢
7N7532	7500	69¢
7N7533	10,000	88¢



### MALLORY YARD-OHM RESISTANCE KITS

Real solution to the odd-value resistor problem. Ideal for meter shunts, experimental lab., etc. Contains all necessary materials to construct flexible resistors of a wide range of values. Each kit consists of 1 yard spiral wound resistance wire, 1 yard insulated braid and 24 spiral wire leads. Available in eight resistance values. Dissipation—all types;  $\frac{1}{2}$  watt per inch. With instructions.

No.	Ohms	Cap. in. Aimps.	Any Type	Stk. No.	Ohms	Cap. in. Aimps.	Any Type
7N4407	1	.707	Each	7N4411	50	.100	Each
7N4408	5	.315	<b>44¢</b>	7N4412	100	.071	<b>44¢</b>
7N4409	10	.223		7N4413	250	.044	
7N4410	25	.141		7N4414	500	.031	

### CONTINENTAL "NOBLELOY" X-TYPE RESISTORS

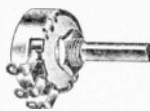
New 1-watt resistor involving metal film principle, with accuracy of wire wound unit. No carbon used. Metallic resistance film is formed on the surface of a low loss ceramic tube, then hermetically sealed by a layer of vitreous enamel. Ceramic tubes are hollow and allow greater area for heat dissipation. Excellent resistance stability and negligible noise characteristics. Will withstand overloads of 200% and temperatures of 400 F. without change in value upon return to room temperature. Critical tolerance within 1%. Size  $9/32 \times 1\frac{1}{2}$ ".  $1\frac{1}{2}$ " tinned copper leads.



Ohms	Ohms	Ohms	Ohms	Ohms
1	2950	9950	85M	500M
10	3500	10,000	90M	600M
25	4000	13,500	100M	750M
50	4450	15M	150M	800M
100	4950	20M	200M	900M
200	5000	25M	240M	1.0 Meg.
400	5500	30M	250M	1.5 Meg.
500	5950	40M	300M	2.0 Meg.
1000	7450	50M	400M	2.5 Meg.
1450	8500	60M	450M	3.0 Meg.
2000	8950	75M	490M	

7N7105—Specify Resistance. Each..... **59¢**

## CLAROSTAT SERIES "M" AND "T" VOLUME CONTROLS



Compact, efficient with exclusive stabilized element. "T" type tapped controls listed below permit special functional operation not attainable with other types of controls. Dia.  $1\frac{1}{2}$ ". Shaft  $2\frac{1}{8} \times \frac{1}{4}$ " dia.  $\frac{3}{8}$ " bushing with nut.



Switches to fit either type control listed below. Last letter of type numbers listed below identifies taper of control.

### CLAROSTAT TAPER CODE

S—Linear, Std. Pot.  
U—Left Hand, Ant. and C Bias  
V—Right Hand, C Bias Rheostat  
Z—Left Hand, Audio Shunt, AVC, Tone  
W—Left Hand, Screen Grid Volt, Phono Pickup  
Y—Left Hand, Audio Shunt and AVC When Steep Taper is Desired

### STANDARD CONTROLS

No.	Type	Ohms	No.	Type	Ohms	No.	Type	Ohms
8N7350	M-5-S	500	8N7362	M-4-S	25,000	8N7374	M-63-Z	1 Meg.
8N7351	M-8-S	1,000	8N7363	M-4-S	50,000	8N7375	M-66-Z	2 Meg.
8N7352	M-11-S	2,000	8N7364	M-4-Z	50,000	8N7376	M-67-Z	3 Meg.
8N7353	M-15-S	3,000	8N7365	M-4-S	75,000	8N7377	M-68-Z	4 Meg.
8N7354	M-19-S	5,000	8N7366	M-4-S	100,000	8N7378	M-69-Z	5 Meg.
8N7355	M-20-U	5,000	8N7367	M-5-Z	100,000	8N7379	M-99-Z	10Meg.
8N7356	M-23-S	7,500	8N7368	M-5-S	200,000	8N7400	M-81-Z	10Meg.
8N7357	M-27-S	10,000	8N7369	M-5-S	250,000	8N7401	M-37-U	20Meg.
8N7358	M-29-U	10,000	8N7370	M-6-Z	250,000	8N7402	M-41-W	25Meg.
8N7359	M-30-V	10,000	8N7371	M-6-S	500,000	8N7403	M-45-W	50Meg.
8N7360	M-32-S	15,000	8N7372	M-6-Z	500,000	8N7404	M-50-Y	500Mg.
8N7361	M-33-U	15,000	8N7373	M-61-S	1 Meg.			

Your Cost, any of above controls..... **73¢**

### SERIES (T) TAPPED CONTROLS

No.	Type	Ohms	Tapped	No.	Type	Ohms	Tapped
8N7380	T-42	250,000	125,000	8N7388	T-114	2 Meg.	100,000
8N7381	T-89	350,000	75,000	8N7389	T-115	2 Meg.	500,000
8N7382	T-78	500,000	100,000	8N7390	T-116	2 Meg.	1 Meg.
8N7383	T-101	1 Meg.	50,000	8N7405	T-120	2 Meg.	400,000
8N7384	T-102	1 Meg.	100,000	8N7391	T-121	2 Meg.	250,000
			500,000				500,000
8N7385	T-103	1 Meg.	100,000	8N7406	T-123	2.5 Meg.	250,000
			500,000				500,000
8N7386	T-109	1 Meg.	225,000	8N7392	T-128	4 Meg.	500,000
8N7387	T-112	1 Meg.	500,000				

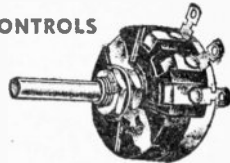
Your Cost, any of above controls..... **1.09**

### "M" & "T" AD-A-SWITCH PLATES

8N7398—SPST..... 35¢ 8N7399—DPST..... 44¢

### CLAROSTAT WIREWOUND CONTROLS

Series 58. Wirewound controls w thin bakelite strip. Perfect sliding contact.  $\frac{1}{4}$ " shaft,  $1\frac{1}{2}$ " long. All controls listed below are linear.



No.	Ohms	No.	Ohms	No.	Ohms	No.	Ohms
8N7048	1	8N7056	25	8N7097	200	8N7087	3000
8N7049	2	8N7057	30	8N7096	300	8N7084	5000
8N7051	4	8N7058	40	8N7095	400	8N7078	10000
8N7052	6	8N7059	50	8N7094	500	8N7073	15000
8N7053	10	8N7060	60	8N7093	750	8N7070	20000
8N7054	15	8N7061	75	8N7092	1000		
8N7055	20	8N7062	100	8N7090	2000		

Any Above Type—Each..... **73¢**

8N7068 25000 8N7066 40000 8N7067 30000—Each..... **94¢**

8N7065 50000—Each..... 1.32

8N7064 75000 8N7063 100000..... 2.06

### IRC "PRECISTORS" CARBON RESISTORS

Excellent for multipliers, test equipment, HF TV circuits and RF high voltage systems. Guaranteed accuracy  $\pm 1\%$ . Type DC— $\frac{1}{2}$ -watt; size  $1\frac{1}{2} \times \frac{1}{4}$ " diam. DCH 1-watt; size:  $2\frac{1}{2} \times \frac{1}{4}$ " diam.

Ohms	Ohms	Ohms	Ohms	Megohms	Megohms
100	1,000	10,000	100,000	1.0	10.0
150	1,500	15,000	150,000	1.5	15.0
200	2,000	20,000	200,000	2.0	20.0
250	2,500	25,000	250,000	2.5	....
300	3,000	30,000	300,000	3.0	....
400	4,000	40,000	400,000	4.0	....
500	5,000	50,000	500,000	5.0	....

### Type DCF

Stock No.	Ohms	Singly Each	Lots 25/Ea.*
7N5229	100-150	.88	.68
7N5228	200-4meg.	.73	.56
7N5229	5 meg.	.88	.68

### Type DCH

Stock No.	Ohms	Singly Each	Lots 25/Ea.*
7N5230	$\frac{1}{2}$ -3 meg.	.88	.68
7N5230	5 meg.	1.18	.90
7N5230	10-15meg.	1.47	1.13
7N5230	20 meg.	1.76	1.35

\*Special indust. price\* applies to lots of 25 of one value.



# MALLORY VOLUME CONTROLS

## MALLORY RADIO SERVICE ENCYCLOPEDIA—6TH ED.

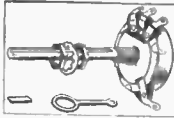


Only complete servicing reference on all pre-war and post-war receivers. Approximately 25% more listings than the 5th edition. Up-to-the-minute facts on correct replacement parts, volume and tone controls, capacitors, vibrators, circuit information, servicing hints, etc. Lists radio sets by make and number side-by-side with replacement data on its components. Complete information on IF peaks, correct tube complements, all conveniently arranged for instant reference. Provides for further reference by listing page and volume in Rider's Manual where further information on the subject may be obtained.

23N19748—552 pages. Shipping weight 4 lbs. . . . . **2.00**

### STANDARD UNIVERSAL TAPPED CONTROLS

Standard 1 1/2" diameter controls with tap for various applications. Furnished with two nuts, washer, ground terminal and knob adapter. \*No provision for use with switch; if switch is desired use TRP624. †Has slotted shaft for auto sets. ‡Special taper for fader service. Others are taper 1. Less switches.



No.	Type	Ohms	Tap'd	No.	Type	Ohms	Tapped
8N6543	TRP601	40000	8000	8N6588	TRP615	3 Meg.	900000
8N6544	TRP602	60000	4000	8N6589	TRP616	500000	60000
8N6545	TRP603	250000	110000	8N6590	TRP617	60000	12000
8N6546	TRP604	350000	20000	8N6591	TRP618	2 Meg.	250000
8N6547	TRP605	350000	70000	8N6593	TRP620	2 Meg.	900000
8N6577	TRP606	500000	100000				
8N6578	TRP607	500000	225000	8N6594*	TRP621	2 1/2 Meg.	500000
8N6579	TRP608	1 Meg.	200000				7000
8N6580	TRP609†	1 Meg.	500000	8N6595	TRP622	44000	14000
8N6581	TRP610	1 Meg.	30000	8N6596	TRP623	250000	50000
8N6583	TRP612	2 Meg.	15000				250000
8N6586	TRP613	2 Meg.	400000	8N6576	TRP624	2 1/2 Meg.	500000
8N6587, TRP614†		350000	70000				

Each—Shipping weight 1/2 lb. . . . . **1.09**

### STANDARD UNIVERSAL DUAL CONTROLS

Consists of two volume controls strapped together and driven by a single shaft. Units listed service practically all receivers.

#### Wire Wound Controls

No.	Type	Res. in Ohms		Taper	
		Front	Rear	Front	Rear
8N6684	CE	2000	5000	I	I
8N6685	GE	10000	5000	VII	IV
8N6685	GG	10000	10000	VII	IV

#### Carbon Controls

No.	Type	Front	Rear	Taper
8N6686	GK	10000	50000	I
8N6689	LL	100000	100000	I
8N6687	LM	100000	250000	I
8N6749	MM	250000	250000	I
8N6688	NN	500000	500000	I

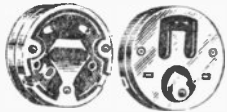
Each—Shipping weight 1 lb. . . . . **1.82**

### EXPLANATION OF MALLORY VOLUME CONTROL TAPERS

- No. (1) For audio or antenna shunt circuits.
- No. (2) For series circuits such as cathode voltage controls.
- No. (3) For antenna shunt and "C" bias circuits.

- No. (4) Linear taper; for voltage divider circuits.
- No. (4A) Modified linear taper, similar to No. 4.
- No. (7) Wire wound element. For antenna and "C" bias.

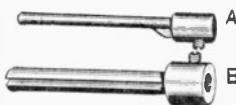
### CONTROL SWITCHES



Attachable switches to fit all universal, tapped, and dual controls listed on this page.

No.	Part	Type	Ea.
8N6288	6-9	S.P.S.T.	.38
8N12853	8	S.P.D.T.	.44
8N6289	7	D.P.S.T.	.44
8N6290	13	3-P.S.T.	.44
8N6291	14	4-P.S.T.	.44

### EXTENSION SHAFTS



Type A—Length 4".  
 8N6561—1/4" diam., 1/8" flat.  
 8N6562—1/4" diam., 3/8" flat.  
 8N6563—1/4" diam., 1/4" flat.  
 Any Size, Each. . . . . **24¢**  
 Type B—2" long, 1/4" diameter with 3/8" slot. Enclosed in tight fitting tube.  
 8N6559—Each. . . . . **26¢**

### MOUNTING BRACKETS



For use where control mounts off chassis. Plated metal. Adjustable mounting centers.

8N6297—Type RB-248—Mounting centers 1 1/2" to 2 3/8".  
 8N6298—Type RB-249—Mounting centers 2 3/8" to 2 1/2".  
 Either Type, Each. . . . . **15¢**

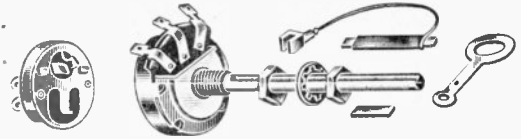
### CONTROL HEX NUTS For 3/8" bushings

No.	For Panels	Each
8N6384	1/8"	.12
8N6386	1/4"	.15
8N6385	3/8"	.18

### VOLUME CONTROL WRENCH



For standard volume control nuts.  
 8N6387—No. 178—Each. . . . . **15¢**



### UNIVERSAL VOLUME CONTROLS

The Mallory-Yaxley Volume Controls listed on these pages can be used to service over 90% of all the radio receivers now in use. With comparatively few units, the serviceman is enabled to meet practically all service requirements. Mallory-Yaxley Controls feature: minimum bias adjustment on all bias controls; 3" shafts that can be shortened by notching and breaking off; complete shielding; all furnished with knob adapter, and mounting hardware. Approved switch (listed below) can be added to any control.

### UNIVERSAL REPLACEMENT CONTROLS

All with two mounting nuts, washer, ground terminal and knob adapter. Wire wound units have adjustable bias feature (exclusive Mallory-Yaxley); carbon element units with adjustable bias resistor where required.

#### Wire Wound Controls

No.	Part	Ohms	Taper	No.	Part	Ohms	Taper
8N6680	Q	2	4	8N6711	G7*	10000	7
8N6681	R	6	4	8N6675	H*	15000	2
8N6682	S	10	4	8N6713	H7*	15000	7
8N6683	T	20	4	8N6741	A20MP*	20000	4
8N6684	U	30	4				
8N6685	V	60	4				
8N6686	W	100	4				
8N6687	X	200	4				
8N6732	A400P	400	4				
8N6688	A	500	1				
8N6733	A550P	550	4				
8N6734	A1MP	1000	4				
8N6689	B	1000	1				
8N6719	UC500	1000	2				
8N6735	A2MP*	2000	4				
8N6670	C*	2000	2				
8N6704	C12*	2000	1				
8N6736	A3MP*	3000	4				
8N6671	D*	3000	2				
8N6705	D7*	3000	7				
8N6706	D12*	3000	1				
8N6703	A4MP*	4000	4				
8N6737	A3MP*	5000	4				
8N6672	E*	5000	2				
8N6707	E7*	5000	7				
8N6673	F*	7500	2				
8N6709	F7*	7500	7				
8N6739	A10MP*	10000	4				
8N6674	G*	10000	2				

#### Carbon Controls

No.	Part	Ohms	Taper
8N6738	YSMP	5000	4
8N6710	F12*	7500	1
8N6740	Y10MP	10000	4
8N6714	H12*	15000	1
8N6715	Y1*	20000	1
8N6742	Y25MP	25000	4
8N6676	J	25000	1
8N6677	K*	50000	2
8N6716	K12	50000	1
8N6717	Z*	75000	2
8N6718	Z12	75000	1
8N6729	UC510*	100000	2
8N6721	UC502	150000	1
8N6745	Y200MP	200000	4
8N6679	"M"	250000	1
8N6730	UC511†	250000	1
8N6728	UC509*	250000	2
8N6722	UC503	750000	1
8N6723	UC504	3 Meg.	1
8N6724	UC505	4 Meg.	1
8N6725	UC506	5 Meg.	1
8N6726	UC507	5 Meg.	2
8N6727	UC508	9 Meg.	1

\*—Has adjustable bias feature. Wire wound units have adjustable plate; carbon element controls have external adjustable resistor.  
 †—Has slotted shaft for auto sets. Supplied Less Switch.  
 Each. . . . . **73¢**

### MALLORY CONTROL DEALS

Fast-moving selections of Mallory controls, switches and accessories in neat, heavy-duty cabinets. Contains 95% of all your control needs. The cabinet has provision for the Mallory Encyclopedia (not supplied), and the cabinet is FREE. See facing page for full description of controls contained in these cabinets.

#### MIDGETROL SELECTION

4 U-48	1 U-55	2 UP-10
3 U-53	1 U-39	5 Extra Spring Clips
2 U-50	1 U-41	5 Extra U Clips
2 U-44	9 US-26	1 Web Removing Tool
1 U-18	4 UE-50	

8N7024. . . . . **14.55**

#### MR SELECTION

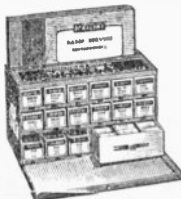
4 MR-48	1 MR-18	5 M-26
3 MR-53	1 MR-55	3 M-27
2 MR-50	1 MR-39	1 M-28
2 MR-44	1 MR-41	

8N7023. . . . . **14.55**

#### UM SELECTION

4 UM-154	1 UM-118	2 M-27
3 UM-161	1 UM-163	1 M-28
2 UM-147	1 UM-142	5 SS-25
2 UM-156	3 M-26	1 SS-14
1 UM-140		

8N7027. . . . . **14.55**





# MALLORY VOLUME CONTROLS

## MALLORY TELEVISION ENCYCLOPEDIA

200 page manual following the same format as the famous MALLORY RADIO SVCE. ENCY. Lists all makes and models T.V. sets through April, 1949, showing values and replacement of controls and filter condensers. **35¢**  
23N18749.....

### TELEVISION CONTROLS

No.	Type	Ohms	Price
8N6600	SU29	25M	.88
8N6801	SU41	10M	.88
8N6602	SU50	500M	.88
8N6603	SU67	5 Meg.	.88
8N6604	SUD1235	5 Meg. tapered at 1 Meg.	2.20

Switches: Uses same switches as Mallory type "U" midgetrols listed on right.

### MALLORY "UM" AND "TM" JUNIOR CONTROLS



Ultra-compact controls featuring noiseless composition elements; attachable switches; plug-in type shafts. Both UM and TM types have slots which will take any one of the special shafts listed below. The TM types are similar to the UM but are provided with a tap as shown. TM type designed for use in tone compensating circuits. All are 1/2" thick, 1 1/8" diameter. Complete with SS1 shaft.

#### MALLORY "UM" TYPE JUNIOR CONTROLS

No.	Type	Ohms & Taper	No.	Type	Ohms & Taper
8N6926	UM114	5M(4A)	8N6940	UM140	100M(1)
8N6927	UM118	10M(1)	8N6941	UM141	100M(2)
8N6928	UM119	10M(2)	8N6942	UM142	100M(4)
8N6929	UM120	10M(4)	8N6943	UM144	150M(1)
8N6930	UM121	15M(1)	8N6944	UM147	250M(1)
8N6931	UM122	15M(2)	8N6945	UM149	250M(4)
8N6932	UM124	20M(1)	8N6946	UM151	350M(1)
8N6933	UM128	25M(2)	8N6947	UM154	500M(1)
8N6934	UM129	25M(4)	8N6948	UM156	500M(4)
8N6935	UM133	50M(1)	8N6949	UM158	750M(1)
8N6936	UM134	50M(2)	8N6950	UM161	1 Meg. (1)
8N6937	UM135	50M(4)	8N6951	UM163	2 Meg. (1)
8N6938	UM137	75M(1)	8N6952	UM165	3 Meg. (1)
8N6939	UM138	75M(2)			

Complete with SS1 Shaft. Each..... **73¢**

#### MALLORY "TM" TYPE TAPPED CONTROLS

No.	Type	Ohms	Tapped	No.	Type	Ohms	Tapped
8N6953	TM220	250M	50M	8N6959	TM240	1 Meg.	200M
8N6954	TM221	250M	110M	8N7006*	TM241	1 Meg.	200M
8N7013*	TM222	250M	110M	8N7007*	TM242	1 Meg.	450M
8N7014*	TM223	500M	60M	8N6960	TM243	1 Meg.	450M
8N7015*	TM224	500M	100M	8N7008	TM244	1 1/2 Meg.	200M
8N6955	TM225	350M	70M	8N6961	TM245	2 Meg.	5M
8N7016	TM226	500M	15M	8N6962	TM246	2 Meg.	15M
8N7017	TM227	500M	100M	8N6963	TM247	2 Meg.	60M
8N6956	TM228	500M	5M	8N6964	TM248	2 Meg.	250M
8N6957	TM230	500M	150M	8N6965	TM249	2 Meg.	600M
8N6958	TM231	500M	225M	8N7009	TM250	2 Meg.	125M
8N7018*	TM232	500M	225M	8N6966	TM251	2 Meg.	900M
8N7019	TM233	500M	60M	8N7010*	TM252	2 Meg.	900M
8N7020	TM234	1 Meg.	65M	8N7011	TM254	2 Meg.	400M
8N7021	TM236	1 Meg.	125M	8N6967	TM257	3 Meg.	900M
8N7022	TM238	1 Meg.	300M	8N7012	TM259	2 Meg.	900M
8N6864*	TM239	1 Meg.	300M	8N7005	TM261	5 Meg.	1 Meg.

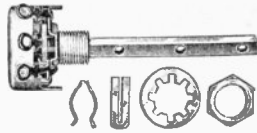
\*Clutch Type Controls.  
Complete with SS1 shaft. Each..... **1.09**

Switches: Uses same switches as "MR" controls—see listing lower right.

### MALLORY PLUG-IN SHAFTS

8N6826—SS31. Philco sets... 18¢	8N6827—SS32. Philco sets... 18¢
8N6973—SS1. Replaces any 1/4" round shaft or 1/2" or 3/4" flattened shaft up to 4" long... 18¢	8N6974—SS2. Replaces any 1/2" slotted shaft up to 2" long... 26¢
8N6975—SS3. Replaces any 3/4" slotted shaft up to 2" long... 26¢	8N6976—SS4. Replaces any 1/2" slotted shaft up to 2" long... 18¢
8N6977—SS5. Replaces any 1/2" slotted shaft up to 2" long... 18¢	8N6978—SS6. RCA, Hudson H6... 18¢
8N6979—SS7. Replaces any 1/2" slotted shaft up to 2" long... 18¢	8N6980—SS8. Replaces any 1/2" slotted shaft up to 2" long... 26¢
8N6981—SS9. Replaces any 1/2" slotted shaft up to 2" long... 26¢	8N6982—SS10. Replaces any 1/2" slotted shaft up to 2" long... 26¢
8N6983—SS11. Replaces any 1/2" slotted shaft up to 2" long... 26¢	8N6984—SS12. Replaces any 1/2" slotted shaft up to 2" long... 26¢
8N6985—SS13. Replaces any 1/2" slotted shaft up to 2" long... 26¢	8N6986—SS14. Replaces any 1/2" slotted shaft up to 2" long... 26¢
8N6987—SS15. Replaces any 1/2" slotted shaft up to 2" long... 26¢	8N6988—SS16. Replaces any 1/2" slotted shaft up to 2" long... 18¢

### NEW MALLORY MIDGETROLS



Small diameter (1 1/8"), special resistance element. New type contact for smooth, quiet operation. New shaft easily cut with side snips. With hardware and clips for use with all set-screw, knurled, and push-type knobs.

No.	Type	Ohms	Taper	No.	Type	Ohms	Taper
8N7450	U-12	5M	(1)	8N7465	U-40	100M	(2)
8N7451	U-14	5M	(4)	8N7466	U-41	100M	(4)
8N7452	U-18	10M	(1)	8N7467	U-42	150M	(1)
8N7453	U-19	10M	(2)	8N7468	U-43	200M	(4)
8N7454	U-20	10M	(4)	8N7469	U-44	250M	(1)
8N7455	U-21	15M	(1)	8N7470	U-45	250M	(2)
8N7456	U-22	15M	(2)	8N7471	U-46	250M	(4)
8N7457	U-24	20M	(1)	8N7472	U-48	500M	(1)
8N7458	U-28	25M	(2)	8N7473	U-50	500M	(4)
8N7459	U-29	25M	(4)	8N7474	U-51	750M	(1)
8N7460	U-33	50M	(1)	8N7475	U-53	1 Meg.	(1)
8N7461	U-34	50M	(2)	8N7476	U-54	1 Meg.	(4)
8N7462	U-35	50M	(4)	8N7477	U-55	2 Meg.	(1)
8N7463	U-36	75M	(1)	8N7449	U-56	2 Meg.	(4)
8N7464	U-39	100M	(1)	8N7478	U-57	3 Meg.	(1)
				8N7479	U-65	5 Meg.	(1)

Each..... **73¢**

#### TAPPED MIDGETROLS

No.	Type	Ohms	Tapped	No.	Type	Ohms	Tapped
8N7480	UT-420	250M	50M	8N7484	UT-443	1 Meg.	450M
8N7481	UT-425	350M	70M	8N7485	UT-450	2 Meg.	125M
8N7482	UT-427	500M	100M	8N7486	UT-448	2 Meg.	250M
8N7496	UT-429	500M	50M	8N7487	UT-454	2 Meg.	400M
8N7483	UT-431	500M	225M	8N7488	UT-451	2 Meg.	900M

Each..... **1.09**

#### AC On-Off Attachable Switches for Midgetrols

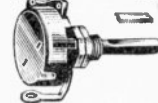
8N7489—SPST Type US-26... 35¢  
8N7490—SPST Type US-26T. 44¢  
8N7493—4PST Shorting US-23. 44¢

8N7491—Type US-27... 44¢  
8N7492—Type US-28... 44¢  
\*Has dummy terminal.

#### ACCESSORIES

8N7494—Extension Shaft Type UE-50... 15¢  
8N7495—Idler Pulley Type UP-10... 12¢

#### MALLORY TYPE "MR" JUNIOR CONTROLS



Ultra compact controls are similar to the types UM and TM junior controls listed at left except that they feature standard shafts, 3" long, milled the entire length and furnished with knob adapters (for spring type knobs). All are rated conservatively at 1/2 watt.

No.	Type	Ohms	No.	Type	Ohms
8N6900	MR14	5M(4A)	8N6913	MR37	75M(2)
8N6901	MR18	10M(1)	8N6914	MR39	100M(1)
8N6902	MR19	10M(2)	8N6915	MR40	100M(2)
8N6903	MR20	10M(4)	8N6916	MR41	100M(4)
8N6904	MR21	15M(1)	8N6917	MR42	150M(1)
8N6905	MR22	15M(2)	8N6918	MR44	250M(1)
8N6906	MR24	20M(1)	8N6919	MR45	250M(2)
8N6907	MR28	25M(2)	8N6920	MR48	500M(1)
8N6908	MR29	25M(4)	8N6921	MR50	500M(4)
8N6909	MR33	50M(1)	8N6922	MR51	750M(1)
8N6910	MR34	50M(2)	8N6923	MR53	1 Meg. (1)
8N6911	MR35	50M(4)	8N6924	MR55	2 Meg. (1)
8N6912	MR36	75M(1)	8N6925	MR57	3 Meg. (1)

Each..... **73¢**

#### JUNIOR CONTROLS WITH FIXED KNURLED SHAFTS

Similar to type "MR" controls above, but have 3" universal knurled shaft for replacing original units of this type.

No.	Type	Ohms & Taper	No.	Type	Ohms & Taper
8N6637	MK400	250M(1)	8N6639	MK402	1 Meg. (1)
8N6638	MK401	500M(1)	8N6640	MK403	2 Meg. (1)

Each..... **73¢**

#### MRT Midget Controls—Single Tap

Fixed shaft. Easy-to-cut channel shaft and insert fits all type knobs. Nuts, washer and ground terminal furnished. 1 1/8" dia. Switches below attach easily.



No.	Type	Ohms	Tapped	No.	Type	Ohms	Tapped
8N6762	MRT420	250M	50M	8N6772	MRT443	1 Meg.	450M
8N6763	MRT425	350M	70M	8N6773	MRT460	1 Meg.	500M
8N6764	MRT428	500M	5M	8N6774	MRT445	2 Meg.	5M
8N6765	MRT426	500M	15M	8N6775	MRT446	2 Meg.	15M
8N6766	MRT427	500M	100M	8N6776	MRT447	2 Meg.	60M
8N6767	MRT430	500M	150M	8N6777	MRT450	2 Meg.	125M
8N6768	MRT431	500M	225M	8N6778	MRT448	2 Meg.	250M
8N6769	MRT436	1 Meg.	125M	8N6779	MRT454	2 Meg.	400M
8N6770	MRT440	1 Meg.	200M	8N6780	MRT449	2 Meg.	600M
8N6771	MRT438	1 Meg.	300M	8N6781	MRT451	2 Meg.	900M

Each..... **1.09**

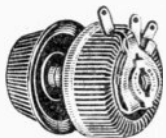
#### MALLORY ATTACHABLE SWITCHES

Fit "UM," "TM," "MR" and "MRT" Junior controls on this page.  
8N6968—Single Pole, Single Throw. Each..... 35¢  
8N6969—Double Pole, Single Throw. Each..... 35¢  
8N6970—Single Pole, Double Throw. Each..... 44¢  
8N6972—Four Pole, Single Throw. (Shorting Type)..... 44¢



# INDUSTRIAL AND P.A. CONTROLS

## OHMITE POWER RHEOSTATS



Designed to produce permanently smooth, close control. Ceramic and metal construction. Provided with insulated shafts with provision to keep the rheostat from turning on the panel. The resistance wire is wound over a solid porcelain core. Each turn is locked against shifting by vitreous enamel, which also covers the core and base. Requires  $\frac{3}{8}$ " Wt. 1 lb.

Model "H," 25 W, 1-9/16" dia.				Model "J," 50W, 2-5/16" dia.				
No.	Total Ohms	Type	Each	No.	Ohms	Type	Each	
8N8350	1	0140	3.44	8N7200	0.5	0308	<b>3.82</b>	
8N8362	2	0141		8N7201	1	0309		
8N8351	3	0142		8N7202	2	0310		
8N8363	6	0143	<b>3.06</b>	8N7203	4	0311	<b>3.44</b>	
8N8352	8	0144			8N7204	8		0313
8N8364	10	0145			8N7205	12		0314
8N8365	15	0146	<b>3.06</b>	8N7206	16	0315	<b>3.44</b>	
8N8366	25	0147			8N7207	22		0316
8N8353	35	0148			8N7208	35		0317
8N8367	50	0149	<b>3.06</b>	8N7209	50	0318	<b>3.44</b>	
8N8390	75	0150			8N7210	80		0319
8N8368	100	0151			8N7211	125		0320
8N8369	125	0152	<b>3.06</b>	8N7212	150	0321	<b>3.44</b>	
8N8370	175	0153			8N7213	225		0322
8N8371	250	0154			8N7214	300		0323
8N8391	350	0155	<b>3.06</b>	8N7215	500	0324	<b>3.44</b>	
8N8372	500	0156			8N7216	800		0325
8N8392	750	0157			8N7217	1,000		0326
8N8373	1,000	0158	<b>3.44</b>	8N7218	1,600	0327	<b>3.64</b>	
8N8374	1,500	0159			8N7219	2,500		0328
8N8375	2,500	0160			8N7220	3,500		0329
8N8376	3,500	0161	<b>3.64</b>	8N7221	5,000	0330	<b>3.82</b>	
8N8377	5,000	0162			8N7222	8,000		0331
				8N7223	10,000	0332		

## MODEL "K"—100 WATT (3/8" DIA.)

No.	Ohms	Type	Each	No.	Ohms	Type	Each	
8N8378	10	0446	<b>5.35</b>	8N8383	500	0455	5.35	
8N8379	25	0448			8N8384	1,000	0457	5.73
8N8380	50	0449			8N8385	2,500	0460	5.73
8N8381	100	0451			8N8386	5,000	0461	6.12
8N8382	300	0453			8N8387	10,000	0463	6.88

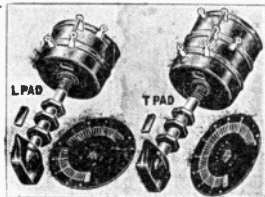
## OHMITE "AB" POTENTIOMETERS

Two watt molded composition potentiometers designed especially for industrial, laboratory and radio service use.  $1\frac{1}{8}$ " diameter x  $\frac{1}{8}$ " thick.  $\frac{1}{4}$ " diam. shaft extends  $\frac{2}{8}$ " from back panel. Requires  $\frac{3}{8}$ " mounting hole on panel up to  $\frac{1}{4}$ " thick. CU types are linear taper; CA types clockwise log. taper; CB types counter-clockwise log. taper. Tolerance  $\pm 10\%$  except 1 meg. and higher which are  $\pm 20\%$ .



No.	Type	Ohms	No.	Type	Ohms
8N8810	CU5001	50	8N8822	CB5031	50,000
8N8811	CU1011	100	8N8823	CU1041	100,000
8N8812	CU2511	250	8N8824	CA1041	100,000
8N8813	CU5011	500	8N8825	CU2541	250,000
8N8814	CU1021	1000	8N8826	CA2541	250,000
8N8815	CU2521	2500	8N8827	CU5041	500,000
8N8816	CU5021	5000	8N8828	CA5041	500,000
8N8817	CU1031	10,000	8N8829	CU1052	1 Megohm
8N8818	CB1031	10,000	8N8830	CA1052	1 Megohm
8N8819	CU2531	25,000	8N8831	CU2552	2.5 Megohms
8N8820	CB2531	25,000	8N8832	CA2552	2.5 Megohms
8N8821	CU5031	50,000	8N8833	CU5052	5 Megohms

Any Type of Above Controls..... Each 1.76  
8N8834—SPST Switch for "AB" Controls..... 53



## MALLORY "T" & "L" PADS

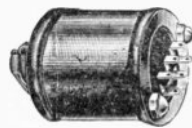
For controlling level of low impedance audio circuits, mike or phono. Cont. DC rating 4 watts. With bar knob, dial plate, and mounting nuts. L pad  $1\frac{1}{8}$ " diameter x  $1\frac{1}{8}$ " deep; T pad  $1\frac{1}{8}$ " diameter x  $1\frac{1}{8}$ " deep.

"L" PADS			"T" PADS		
No.	Type	Ohms Imp.	No.	Type	
8N6356	L6	6	8N6362	T6	
8N6355	L8	8	8N6363	T8	
8N6357	L15	15	8N6364	T15	
8N6358	L50	50	8N6365	T50	
8N6359	L200	200	8N6366	T200	
8N6381	L250	250	8N6382	T250	
8N6360	L500	500	8N6367	T500	
8N6361	L2000	2000	8N6368	T2000	

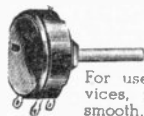
"L" Pads Any type above..... 2.20 "T" Pads Any type above..... 2.50

## CLAROSTAT 10-WATT OUTPUT ATTENUATORS

Type CIB: Compact constant impedance attenuators dissipate 10 watts in any position. Ideal for individual speaker controls. Linear attenuation in 3 db steps to 30 db final step to infinity. 2" dia.,  $2\frac{3}{8}$ " long. Mount in single hole. Bushing  $\frac{3}{8}$ "; shaft  $1\frac{1}{8}$ " long. With dial plate and knob. Wt. 1 lb.



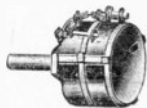
No.	Ohms	No.	Ohms	No.	Ohms	Any Type, Each
8N7837	8	8N7839	50	8N7841	250	<b>6.37</b>
8N7838	15	8N7840	200	8N7842	500	



## CENTRALAB FADERS

### Straight Fader

For use with high impedance input devices, xtal pickups, mikes, etc. Provide smooth, quiet fading from one source to another. Each tapped at center.



Stock No.	Resistance Each Side c.t.	Your Cost
8N9004	500M	<b>1.18</b>
8N9005	1 Meg.	

### Gain Control

Like above but without center tap.

### "Delta-T" Pad

Dual control maintaining constant impedance to both sides. For sound amplifiers, recorders, etc.

No.	Resistance	Each
8N9000	250M	<b>1.03</b>
8N9001	500M	
8N9002	1 Meg.	
8N9003	2 Meg.	

No.	Impedance	Each
8N9006	50 ohms	<b>2.06</b>
8N9007	200 ohms	
8N9008	500 ohms	

## CENTRALAB POWER RHEOSTATS

Ideal for motor speed controls, etc. All metal frame; core insulated with treated asbestos. Wire wound. All for single-hole mounting; knob supplied. Diameter 2"; bushings  $\frac{3}{8}$ " x  $\frac{1}{2}$ " long. Depth behind panel: 25 watt units  $\frac{3}{4}$ "; 50 watt units  $1\frac{1}{4}$ ". Solder lug terminals.



50 Watts				25 Watts				
No.	Ohms	Price	No.	Ohms	Price	No.	Ohms	Price
8N8962	2	2.06	8N8994	300	2.24	8N8977	2	1.76
8N8965	10	2.06	8N8990	500	2.21	8N8978	6	1.76
8N8987	25	2.06	8N8991	1000	2.21	8N8979	15	1.76
8N8988	60	2.06	8N8960	2500	2.35	8N8980	50	1.76
8N8986	100	2.06	8N8992	5000	2.35	8N8976	100	1.76
8N8989	150	2.06				8N8981	150	1.76

## MALLORY CONTROLS

### TYPE M—4 WATTS

Wire wound. Conservatively rated at 4 watts. Fully enclosed.  $1\frac{1}{2}$ " diameter. Mounts in  $1\frac{1}{8}$ " hole. Shaft  $\frac{1}{8}$ " diameter,  $\frac{3}{8}$ " long. With dust cover.

### TYPE C—2 WATTS

Wire wound. Extremely compact design makes them ideal for use where space is limited. Contact arm is grounded to the shaft. Overall diameter of unit is  $1\frac{1}{2}$ " Shaft  $\frac{1}{8}$ " diameter and  $\frac{3}{8}$ " L.

### RHEOSTATS

No.	Ohms	Type	Each
8N6480	1	M1R	<b>59¢</b>
8N6481	2	M2R	
8N6482	3	M3R	
8N6483	6	M6R	
8N6484	10	M10R	
8N6485	15	M15R	
8N6486	20	M20R	
8N6487	25	M25R	
8N6173	40	M40R	
8N6174	50	M50R	
8N6175	60	M60R	
8N6176	75	M75R	

### RHEOSTATS

No.	Ohms	Type	Each
8N6197	6	C6R	<b>59¢</b>
8N6198	10	C10R	
8N6199	15	C15R	
8N6200	20	C20R	
8N6201	30	C30R	
8N6202	40	C40R	
8N6203	50	C50R	
8N6204	100	C100R	

### POTENTIOMETERS

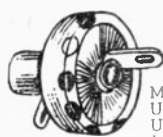
No.	Ohms	Type	Each
8N6503	20	M20P	<b>73¢</b>
8N6492	50	M50P	
8N6495	100	M100P	
8N6496	200	M200P	
8N6497	400	M400P	
8N6498	1000	M1000P	<b>82¢</b>
8N6499	2000	M2000P	
8N6500	3000	M3000P	
8N6501	5000	M5000P	
8N6502	10000	M10000P	
8N6177	15000	M15000P	<b>97¢</b>
8N6178	20000	M20000P	
8N6179	25000	M25000P	
8N6180	50000	M50000P	
8N6181	70000	M70000P	

### POTENTIOMETERS

No.	Ohms	Type	Each
8N6205	6	C6P	<b>73¢</b>
8N6206	10	C10P	
8N6207	15	C15P	
8N6208	20	C20P	
8N6209	30	C30P	
8N6210	40	C40P	
8N6211	50	C50P	
8N6212	100	C100P	
8N6213	200	C200P	
8N6214	400	C400P	
8N6215	1000	C1000P	<b>82¢</b>
8N6216	3000	C3000P	
8N6217	5000	C5000P	
8N6218	6000	C6000P	
8N6219	10000	C10000P	
8N6220	15000	C15000P	<b>97¢</b>



# ERIE CERAMICONS



## ERIE SILVER-MICA BUTTON CONDENSERS

Midget silver-mica cond. Unmatched for VHF and UHF work. "Q" factor at 1 MC not less than 1000 above 100 mmf; not less than 700 between 50 and 100 mmf; and not less than 500 below 50 mmf. Max. work. volt. 350 V. AC or 500 V. DC. 370-CB has ring type metal shell, 3 soldering ears. High potential terminal at either end for feed thru connection.

370-FA bolted with 3/48" screw. Tolerance ± 20%.

### Type 370-CB

No.	Cap. (mmf)	Each	Lots/25	Lots/50
5N2250	15	.65	.60	.50
5N2239	25	.65	.60	.50
5N2251	50	.47	.43	.36
5N2252	100	.47	.43	.36
5N2253	150	.53	.43	.36
5N2254	200	.65	.49	.41
5N2225	250	.59	.54	.45
5N2255	300	.65	.60	.50
5N2256	400	.65	.60	.50
5N2257	500	.65	.60	.50
5N2258	750	1.00	.92	.77
5N2259	1000	1.29	1.18	.99

### Type 370-FA

No.	Cap. (mmf)	Each	Lots/25	Lots/50
5N2260	15	.65	.60	.50
5N2240	25	.65	.60	.50
5N2261	50	.47	.43	.36
5N2262	100	.47	.43	.36
5N2263	150	.53	.43	.36
5N2264	200	.65	.49	.41
5N2226	250	.59	.54	.45
5N2265	300	.65	.60	.50
5N2266	400	.65	.60	.50
5N2267	500	.65	.60	.50
5N2268	750	1.00	.92	.77
5N2269	1000	1.29	1.18	.99

## ERIE FEED THRU CERAMICONS



Type 362. Compact feed-through ceramic cond. 3/8" long body. 20 gauge

wire leads. 500 V. DC work. 1500 mmf. Tolerance 20%.  
5N2300—Each.....**59c**  
Lots of 25.....50¢—Lots of 50.....40c

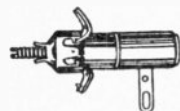
## HIGH VOLTAGE CERAMICONS



Type 410. For TV power supply, filter and by-pass applications. Special body design gives extra long creepage path. Low loss molded case 1 1/8" dia. x 7/8" long. Conservatively rated at 15 K.V. Rod type terminals. Capacity 500 mmf.

5N2303—Each.....**1.32**  
Lots of 25.....1.13—Lots of 50.....90c

## ERIE TUBULAR TRIMMERS



Type 532. Plastic dielectric trimmer. Provides easy and precise adjustment, stability of capacity. Working Voltage, 500 V. DC.

5N2301—5-5 MMF.....**32c**  
5N2302—1.0-8 MMF.....**32c**  
Either above, lots of 25.....27c  
Either above, lots of 50.....22c



## ERIE DISC CERAMICONS

Flat Hi-K ceramic dielectric with silver fired on to the dielectric. Lead wires firmly soldered to the silver electrodes. Phenolic coated. Very efficient at high frequencies. 500 V. Tolerance ± 20%.

Stock No.	Type	Size	Value	Each	Lots/25	Lots/50
5N2318	8:1	1/2" dia.	.005 min.	15c	12c	10c
5N2319	8:1	3/4" dia.	.01 min.	18c	15c	12c



## ERIE NPO-GP CERAMICONS

Small fixed capacitors. Ceramic dielectric with silver electrodes fired on at a very high temperature. Excellent HF characteristics. Dimensions: Style K .562"x.250", Style L .812"x.250", Style M 1.328"x.340", Style 334 1.213"x.415", Style 335 1.650"x.415". Styles 331 and 338 1 1/2"x.1 1/2".

### NPO CERAMICONS

Has zero temperature coefficient. "Q" for NPO Ceramicons above 30 mmf is 1000 or higher. Below 30 mmf, "Q" decreases slightly as capacity decreases. Working Voltage, 500 Volts DC. Tol. ± 10%.

Stock No.	Type	MMF	Each	Lots/50	Lots/100	Stock No.	Type	MMF	Each	Lots/50	Lots/100
5N2367	K	1.5				5N2273	K	20			
5N2270	K	3				5N2274	L	25	29c	25c	20c
5N2368	K	3.3				5N2275	L	33			
5N2369	K	4.7	29c	25c	20c	5N2276	M	50			
5N2271	K	5				5N2277	M	75	32c	27c	22c
5N2370	K	6.8				5N2278	M	100			
5N2371	K	8.2				5N2372	334	150	35c	30c	24c
5N2272	K	10				5N2373	334	175			

## NEGATIVE TEMPERATURE COEFFICIENT CERAMICONS

### Tubular type N750

### Tubular type N080

Stock No.	Type	MMF	Each	Lots/50	Lots/100	Stock No.	Type	MMF	Each	Lots/50	Lots/100
5N2374	K	5				5N2379	331	10			
5N2375	K	10				5N2380	331	22			
5N2376	K	47	29c	25c	20c	5N2381	338	33	35c	30c	24c
5N2377	L	75				5N2382	338	47			
5N2378	L	100				5N2383	338	62			

## GP CERAMICONS

For general purpose applications such as by-pass and blocking condensers, where temperature coefficient is not important. Capacity will not decrease more than 20% nor increase more than 10% from their value at room temperature as the temperature is varied from -40°C to 85°C. Power factor will not exceed 3%. Rated voltage of GP1 is 500 V DC; GP2 350 V DC. Tolerance ± 20%.

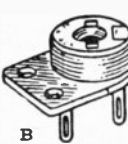
Stock No.	Type	MMF	Each	Lots/50	Lots/100	Stock No.	Type	MMF	Each	Lots/50	Lots/100
5N2280	1K	10				5N2351	2K	330			
5N2337	1K	12				5N2352	2K	390			
5N2338	1K	15				5N2353	2K	470			
5N2339	1K	18				5N2289	2K	500			
5N2340	1K	22				5N2354	2K	560			
5N2281	1K	25				5N2355	2K	680			
5N2341	1K	27				5N2290	2K	750			
5N2342	1K	33				5N2291	2L	1,000			
5N2343	1K	39				5N2356	2L	1,200	15c	12 1/2c	10c
5N2344	1K	47				5N2292	2L	1,500			
5N2282	1K	50	15c	12 1/2c	10c	5N2357	2M	1,800			
5N2345	1K	56				5N2293	2M	2,000			
5N2346	1K	68				5N2358	2M	2,200			
5N2283	1K	75				5N2359	2M	2,500			
5N2284	1K	100				5N2360	2M	2,700			
5N2347	2K	120				5N2294	2M	3,000			
5N2285	2K	150				5N2361	2M	3,300			
5N2348	2K	180				5N2362	2M	4,700			
5N2286	2K	200				5N2295	2M	5,000			
5N2349	2K	220				5N2363	2M	5,600			
5N2287	2K	250				5N2364	334	6,800			
5N2350	2K	270				5N2365	335	7,500	18c	15c	12c
5N2288	2K	300				5N2366	335	10,000			

## ERIE STAND OFF CERAMICONS

Ideal for R.F. by-pass to ground. May be used to support other circuit elements. Supplied in molded phenolic case for greater insulation qualities and mechanical strength. Both types mounted with 3-48 nut. Height above chassis when mounted—Type 323—1/2"; Type 324—3/4". Ideal for V.H.F. and U.H.F. applications. Tolerance ± 20%.

No.	Cap. (mmf)	Type	No.	Cap. (mmf)	Type
5N2323	50	323	5N2326	1000	324
5N2324	100	323	5N2327	1500	324
5N2325	500	323			

Each, lots of 50.....**35c**  
Each, lots of 100.....24c



## CERAMICON TRIMMER

Give maximum stability and ease of adjustment. Capacity change constant per degree of rotation. Silver electrodes fired on ceramic rotor and base. 360 degree rotor completely covers entire track on stator thus preventing dust and other foreign matter from affecting the characteristics of the unit.

Stock No.	Type	Range MMFD	Temp. Coef	Each	Lots/25	Lots/50
5N2331	A	1.5-7	NPO			
5N2332		3-12	NPO			
5N2335	TS2A	4-30	N500	88c	75c	60c
5N2336		7-45	N500			
5N2246	A	1.5-7	NPO			
5N2247		3-12	NPO			
5N2248	TD2A	4-30	N500	1.47	1.25	1.00
5N2249		7-45	N500			
5N2296	B	3-12	NPO			
5N2297	557	5-25	NPO	73c	62c	50c
5N2299		8-50	N750			



# CORNELL DUBILIER CONDENSERS

## "BLUE BEAVER" TYPE DRY ELECTROLYTICS



Small, handy to use. Conveniently mounted. Hi-Formation Process assures higher volt-  
age breakdown. Sealed in drawn-aluminum cans. Cardboard insulating sleeves with polarity marked.

Stock No.	Type No.	Cap. Mfd.	Volts	Size	Each
5N1090	BR 102A	10	25	5/8x1 1/16	.44
5N1091	BR 202A	20	25	5/8x1 1/16	.47
5N1092	BR 252A	25	25	5/8x1 1/16	.50
5N1093	BR 502	50	25	5/8x1 1/16	.56
5N1094	BR 505	5	50	5/8x1 1/16	.44
5N1095	BR 105	10	50	5/8x1 1/16	.47
5N1096	BR 205	20	50	5/8x1 1/16	.50
5N1097	BR 255	25	50	5/8x1 1/16	.53
5N1098	BR 505	50	50	5/8x1 1/16	.62
5N1099	BR 415	4	150	5/8x1 1/16	.44
5N1100	BR 815	8	150	5/8x1 1/16	.47
5N1101	BR 1215	12	150	5/8x1 1/16	.50
5N1102	BR 1615	16	150	5/8x1 1/16	.53
5N1103	BR 2015	20	150	5/8x1 1/16	.56
5N1054	BR 3015	30	150	3/4x2	.59
5N1104	BR 4015	40	150	3/4x2	.65
5N1045	BR 5015	50	150	3/4x2	.71
5N1046	BR 8015	80	150	3/4x2 1/2	.85
5N1105	BR 425	4	250	5/8x1 1/16	.47
5N1106	BR 825	8	250	5/8x1 1/16	.47
5N1107	BR 1225	12	250	5/8x2	.59
5N1108	BR 1625	16	250	5/8x2 1/4	.65
5N1109	BR 2025	20	250	5/8x2 1/4	.71
5N1110	BR 4025	40	250	5/8x2 3/4	.82
5N1129	BR 145	1	450	5/8x1 1/16	.47
5N1130	BR 245	2	450	5/8x1 1/16	.50
5N1111	BR 445	4	450	5/8x1 1/16	.53
5N1112	BR 845	8	450	5/8x2	.56
5N1047	BR 1045	10	450	5/8x2	.62
5N1113	BR 1245	12	450	5/8x2	.68
5N1114	BR 1645	16	450	5/8x2 1/2	.79
5N1115	BR 2045	20	450	1x2 1/2	.88
5N1055	BR 3045	30	450	1x3	.97
5N1048	BR 4045	40	450	1x3	1.18
5N1116	BR 850	8	500	5/8x1 1/16	.76
5N1117	BR 1650	16	500	1x2 1/2	1.18

## "EDL" CARDBOARD CASED ELECTROLYTICS



Multiple wax filled. All common negative except (\*) separate section. Center mounting strap; color coded leads.

Stock No.	Type	Mfd.	Volts	Size	Ea.
5N1118	EDL 2055	5-5	25	5/8x1 3/4	.56
5N1119	EDL 2101	10-10	25	5/8x1 3/4	.62
5N1120	EDL 3055	5-5	50	5/8x1 3/4	.65
5N1121	EDL 115	10-10	50	5/8x2 1/4	.68
5N1122	EDL 8815	8-8	150	5/8x2 1/4	.68
5N1123	EDL 8115	8-16	150	5/8x2 1/4	.71
5N1124	EDL 2215	20-20	150	5/8x2 1/4	.76
5N1131	EDL 4215	40-20	150	5/8x2 1/4	.88
5N1132	EDL 4415	40-40	150	1x3	1.00
5N1133	EDL 5315	50-30	150	1x3	1.00
5N1134*	EDL 2215SS	20-20	150	5/8x2 1/4	1.18
5N1135	EDL 2215C	20-20/20	150/25	1x2 1/4	1.12
5N1136	EDL 4215C	40-20/20	150/25	1x2 1/4	1.18
5N1137	EDL 5315C	50-30/20	150/25	1 1/2x3	1.23
5N1125	EDL 8125	8-16	250	5/8x2 3/4	.94
5N1126	EDL 1125	16-16	250	1x2 3/4	1.00
5N1127	EDL 8845	8-8	450	1x2 3/4	1.00
5N1128	EDL 8145	8-16	450	1 1/2x3 1/4	1.18

## "BBR" MINIATURE ELECTROLYTIC CONDENSERS



Baby BBR type tubular electrolytics. Hermetically sealed.

Designed for use in compact equipment such as hearing aids, pocket radios, etc.

Stock No.	Type No.	Mfd.	Size	V.	Each
5N1081	BBR 50-6	50	3/8x1 1/16	6	59c
5N1082	BBR 25-6	25	3/8x1 1/16	6	59c
5N1083	BBR 5-6	5	3/8x1 1/16	6	59c
5N1084	BBR 20-25	20	1/2x1 1/16	25	59c
5N1085	BBR 10-25	10	3/8x1 1/16	25	59c
5N1086	BBR 10-50	10	1/2x1 1/16	50	59c
5N1087	BBR 5-50	5	3/8x1 1/16	50	59c
5N1088	BBR 10-90	10	1/2x1 1/16	90	59c
5N1089	BBR 16-90	16	1/2x1 1/16	90	59c

Listed on these pages are fast selling C-D capacitors to fill practically all radio and television service requirements. These excellent units are recognized standards throughout the industry and are precision made for accurate operation and long life. Whether it be a miniature tubular capacitor or a large Dykanol transmitting type capacitor you are always assured of the best product obtainable.

## MOLDED MICAS



Compact, in molded bakelite units. Recommended for use in low voltage circuits. Individually tested for accuracy of capacity and voltage breakdown. Designed to give dependable service where small size units are required. Types 1W and 1D (fig. A) 1 1/2x1 1/4", type 5W (fig. B) 1 1/2x1 1/4". All are 1000 V. test, 500 V. working except sizes higher than .006 mfd. which are 600 V. test, 300 V. working.

Stock No.	Type No.	Cap. Mfd.	Fig.	Each
5N1303	5W 5V5	.000005	B	15c
5N1355	5W 5Q1	.00001	B	18c
5N1356	5W 5Q2	.00002	B	15c
5N1357	5W 5Q25	.000025	B	15c
5N1304	5W 5Q3	.00003	B	15c
5N1305	5W 5Q4	.00004	B	12c
5N1358	5W 5Q5	.00005	B	12c
5N1359	5W 5T1	.0001	B	12c
5N1360	5W 5T15	.00015	B	12c
5N1361	5W 5T2	.0002	B	12c
5N1362	5W 5T25	.00025	B	12c
5N1306	5W 5T3	.0003	B	15c
5N1307	5W 5T4	.0004	B	15c
5N1363	5W 5T5	.0005	B	15c
5N1308	1W 5T6	.0006	A	15c
5N1309	1W 5T7	.0007	A	15c
5N1310	1W 5T8	.0008	A	15c
5N1364	1W 5D1	.0001	A	18c
5N1311	1W 5D15	.00015	A	18c
5N1366	1W 5D2	.0002	A	24c
5N1312	1W 5D25	.00025	A	27c
5N1367	1W 5D3	.0003	A	29c
5N1372	1D 5D4	.004	A	32c
5N1373	1D 5D5	.005	A	35c
5N1374	1W 5D6	.006	A	44c
5N1377	1D 3S1	.01	A	71c

## "SILVER-MIKE" UNITS

Molded in low-loss red bakelite. Designed for use in high Q electronic circuits where frequency stability and minimum loss must be maintained. All rated at 1000 V. test, 500 V. working. Tolerance  $\pm 5\%$ . Sizes through .0005  $\mu$ f thick; .001 through .003  $\mu$ f; .004 and .005,  $\mu$ f.

Fig. B—1/8" x 1 1/16"

Stock No.	Type No.	Mfd.	Each
5N1351	5R 5V5	.000005	.26
5N1352	5R 5O1	.00001	.24
5N1353	5R 5O25	.000025	.24
5N1371	5R 5O4	.00004	.24
5N1383	5R 5O5	.00005	.24
5N1384	5R 5O7	.00007	.24
5N1385	5R 5T1	.0001	.24
5N1386	5R 5T15	.00015	.26
5N1387	5R 5T2	.0002	.26
5N1388	5R 5T25	.00025	.26
5N1389	5R 5T3	.0003	.32
5N1390	5R 5T4	.0004	.38
5N1391	5R 5T5	.0005	.41

Fig. A—1 1/8" Square

Stock No.	Type No.	Mfd.	Each
5N1392	1R 5D1	.001	.65
5N1393	1R 5D15	.0015	.79
5N1394	1R 5D2	.002	.79
5N1395	1R 5D25	.0025	1.06
5N1396	1R 5D3	.003	1.21
5N1397	1DR 5D4	.004	1.26
5N1398	1DR 5D5	.005	1.32

## "BLUE CUBS"

New molded plastic, Vikane impregnated, paper tubulars with welded leads. Withstands temperatures from  $-70^{\circ}$  to  $+212^{\circ}$  F.



Stock No.	Type No.	Cap. Mfd.	Size Inches	Each
5N900	PTE-4S1	.01	1 1/2x1 1/16	15c
5N901	PTE-4S2	.02	1 1/2x1 1/16	18c
5N902	PTE-4S5	.05	1 1/2x1 1/16	15c
5N903	PTE-4P1	.1	1 1/2x1 1/16	21c

## 400 V DC

Stock No.	Type No.	Cap. Mfd.	Size Inches	Each
5N904	PTE-6D1	.001	1 1/2x1 1/16	15c
5N905	PTE-6D2	.002	1 1/2x1 1/16	18c
5N906	PTE-6D3	.003	1 1/2x1 1/16	15c
5N907	PTE-6D4	.004	1 1/2x1 1/16	15c
5N908	PTE-6D5	.005	1 1/2x1 1/16	18c
5N909	PTE-6D6	.006	1 1/2x1 1/16	15c
5N910	PTE-6S1	.01	1 1/2x1 1/16	18c
5N911	PTE-6S15	.015	1 1/2x1 1/16	18c
5N912	PTE-6S2	.02	1 1/2x1 1/16	18c
5N913	PTE-6S3	.03	1 1/2x1 1/16	21c
5N914	PTE-6S4	.04	1 1/2x1 1/16	21c
5N915	PTE-6S5	.05	1 1/2x1 1/16	24c
5N916	PTE-6P1	.1	1 1/2x1 1/16	26c

## 600 V DC

Stock No.	Type No.	Cap. Mfd.	Size Inches	Each
5N917	PTE-16D1	.001	1 1/2x1 3/8	32c
5N918	PTE-16D2	.002	1 1/2x1 3/8	32c
5N919	PTE-16D3	.003	1 1/2x1 3/8	32c
5N920	PTE-16D4	.004	1 1/2x1 3/8	32c
5N921	PTE-16D5	.005	1 1/2x1 3/8	32c
5N922	PTE-16D55	.0055	1 1/2x1 3/8	32c
5N923	PTE-16D6	.006	1 1/2x1 3/8	32c
5N924	PTE-16D7	.007	1 1/2x1 3/8	32c
5N925	PTE-16D75	.0075	1 1/2x1 3/8	32c
5N926	PTE-16D8	.008	1 1/2x1 3/8	32c
5N927	PTE-16S1	.01	1 1/2x1 3/8	35c
5N928	PTE-16S15	.015	1 1/2x1 3/8	35c
5N929	PTE-16S2	.02	1 1/2x1 3/8	35c
5N930	PTE-16S25	.025	1 1/2x1 3/8	35c
5N931	PTE-16S3	.03	1 1/2x1 3/8	35c
5N932	PTE-16S4	.04	1 1/2x1 3/8	35c

Same type of molded condenser except higher voltage for television. Size: 1 1/2x1 1/16"

Stock No.	Type No.	Mfd.	Vltg.	Each
5N933	PTE-60T5	.0005	6000	79c
5N934	PTE-60D1	.001	6000	79c
5N935	PTE-60D5	.005	6000	79c
5N936	PTE-100T5	.0005	10,000	86c

## "KR" DRY ELECTROLYTICS

Compact etched foil. Color coded leads. Seamless drawn metal can, mtg. nut. Dual units have separate sections except dual 20.

Stock No.	Type No.	Cap. Mfd.	Size Inches	Each
5N1295	KR 504	4	1x2 1/2	1.00
5N1296	KR 508	8	1x2 1/2	1.03
5N1297	KR 512A	12	1x2 1/2	1.26
5N1298	KR 516A	16	1x3 1/2	1.41
5N1299	KR 520	20	1 1/2x2 1/2	1.56
5N1293	KR 530	30	1 3/8x3 1/2	1.76
5N1294	KR 540	40	1 3/8x4 1/2	2.00
5N1295	KR 548A	4-8	1 3/8x3	1.47
5N1300	KR 588A	8-8	1 3/8x3	1.62
5N1354	KR 5816A	8-16	1 3/8x4 1/2	1.91
5N1290	KRC 5220	20-20	1 3/8x4 1/2	2.35
5N1302	KR 5888A	8-8-8	1 3/8x4 1/2	2.50

## 600 Volts D. C. Working

Stock No.	Type No.	Cap. Mfd.	Size Inches	Each
5N1289	KR 604	4	1 3/8x3 1/2	1.76
5N1050	KR 608	8	1 3/8x4 1/2	2.35
5N1051	KR 616	16	1 1/2x4 1/2	2.94

## WET ELECTROLYTIC REPLACEMENTS

Type "WR". Dry electrolytic, aluminum cans. Can is negative, lug terminal. Rated at 450 V. 10 mfd. Replace wet electrolytics from 4 to 12 mfd., 20 mfd., 16 to 20 mfd., 30 mfd., 20 to 30 mfd., 40 mfd., 30 to 40 mfd. 3/4" mounting stud with paintnut.

Stock No.	Type No.	Mfd.	Size Inches	Each

# CORNELL DUBILIER CONDENSERS

## HIGH VOLTAGE SERIES CAPACITORS



Type DSTH for high voltage filtering, coupling and by-pass applications in television. Exceptionally large safety factor, double case construction. Withstands 85° temperature. Sturdy leads for mounting.

tions in television. Exceptionally large safety factor, double case construction. Withstands 85° temperature. Sturdy leads for mounting.

### 3000 Volts DC

Stock No.	Type No.	Cap. MFD.	Size Inches	Each
5N3200	DSTH 30T5	.0005	1/2" x 2 1/8"	56c
5N3201	DSTH 30D1	.001	1/2" x 2 1/8"	56c
5N3202	DSTH 30D5	.005	1/2" x 2 1/8"	59c
5N3203	DSTH 30S1	.01	1/2" x 2 3/8"	62c
5N3204	DSTH 30S5	.05	1 3/8" x 3"	71c

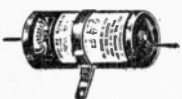
### 4000 Volts DC

Stock No.	Type No.	Cap. MFD.	Size Inches	Each
5N3205	DSTH 40T5	.0005	5/8" x 2 3/8"	59c
5N3206	DSTH 40D1	.001	5/8" x 2 3/8"	59c
5N3207	DSTH 40D5	.005	5/8" x 2 3/8"	62c
5N3208	DSTH 40S1	.01	1" x 2 1/2"	65c
5N3209	DSTH 40S5	.05	1 1/4" x 3 1/2"	73c

### 5000 Volts DC

Stock No.	Type No.	Cap. MFD.	Size Inches	Each
5N3210	DSTH 50T5	.0005	1 1/8" x 2 1/2"	62c
5N3211	DSTH 50D1	.001	1 1/8" x 2 1/2"	62c
5N3212	DSTH 50D5	.005	1 1/8" x 2 3/4"	65c
5N3213	DSTH 50S1	.01	1 3/8" x 3 1/4"	68c
5N3214	DSTH 50S5	.05	1 3/8" x 4 1/2"	76c

## MTV TELEVISION COND.



Metal cased, high voltage condensers. Dykanol filled and impregnated. Ideal for TV and other HV applications. Rated 6000 V.

tions. Rated 6000 V.

Stock No.	Type No.	Cap. MFD.	Size Inches	Each
5N937	MTV 60T5	.0005	1 x 1 3/4"	76c
5N938	MTV 60D1	.001	1 x 1 3/4"	76c
5N939	MTV 60D5	.005	1 x 1 3/4"	76c
5N940	MTV 60S1	.01	1 x 2 1/4"	82c
5N941	MTV 60S3	.03	1 3/8" x 2 5/8"	88c
5N942	MTV 60S5	.05	1 3/8" x 2 5/8"	94c

## "TVC" METAL TUBULAR CAPACITORS



Compact can type withstands severe climatic conditions. Non-inductive, impregnated, filled with Dykanol to maintain high insulation resistance.

### 600 Volts D. C.

Stock No.	Type No.	Cap. MFD.	Size Inches	Each
5N1172	TVC 6D5	.005	1/2" x 1 1/8"	.56
5N1173	TVC 6S1	.01	1/2" x 1 1/8"	.56
5N1174	TVC 6S15	.015	1/2" x 1 1/8"	.59
5N1190	TVC 6S2	.02	1/2" x 1 1/8"	.62
5N1191	TVC 6S3	.03	1/2" x 1 1/8"	.65
5N1192	TVC 6S4	.04	5/8" x 1 1/8"	.65
5N1193	TVC 6S5	.05	5/8" x 1 1/8"	.65
5N1194	TVC 6P1	.1	5/8" x 1 1/2"	.73
5N1195	TVC 6P25	.25	3/4" x 1 1/2"	1.00
5N1196	TVC 6P5	.5	1 x 1 1/2"	1.30

### 1000 Volts D. C.

Stock No.	Type No.	Cap. MFD.	Size Inches	Each
5N1175	TVC 10D5	.005	17/32" x 1 1/4"	65c
5N1176	TVC 10S1	.01	17/32" x 1 1/4"	65c
5N1177	TVC 10S15	.015	17/32" x 1 1/4"	71c
5N1178	TVC 10S2	.02	17/32" x 1 1/4"	71c
5N1179	TVC 10S3	.03	17/32" x 1 1/4"	71c
5N1180	TVC 10S4	.04	5/8" x 2 1/8"	71c
5N1181	TVC 10S5	.05	5/8" x 2 1/8"	76c
5N1182	TVC 10P1	.1	3/4" x 2 1/8"	88c

### 1600 Volts D. C.

Stock No.	Type No.	Cap. MFD.	Size Inches	Each
5N1183	TVC 16D5	.005	17/32" x 1 1/4"	71c
5N1184	TVC 16S1	.01	17/32" x 1 1/4"	71c
5N1185	TVC 16S15	.015	5/8" x 1 1/4"	73c
5N1186	TVC 16S2	.02	5/8" x 1 1/4"	76c
5N1187	TVC 16S3	.03	5/8" x 1 1/4"	76c
5N1188	TVC 16S4	.04	5/8" x 1 1/4"	76c
5N1189	TVC 16S5	.05	5/8" x 2 1/8"	82c

## "TLA" DYKANOL "A"

### FILTER CAPACITORS



In sealed aluminium containers 4 1/2 x 1 1/2 except (\*) which are 2 1/2" high. Mount in any position. Dykanol dielectric. Can negative.

Stock No.	Type No.	Cap. Mfd.	Wkg. Volt.	Each
5N4195*	TLA 6020	2	600	2.44
5N4196	TLA 6040	4	600	3.35
5N4197*	TLA 10010	1	1000	2.23
5N4198	TLA 10020	2	1000	2.91
5N4194*	TLA 15005	.5	1500	2.68
5N4199	TLA 15010	1	1500	2.91

## "TLAD" TRANSMITTING COND.

Same as above except insulated can. 4 1/2" x 1 1/2" except (\*) which are 2 1/2" high.

Stock No.	Type No.	Cap. Mfd.	D. C. Wkg. Volt.	Each
5N4114*	TLAD 6020	2	600	2.88*
5N4115	TLAD 6040	4	600	3.79
5N4116*	TLAD10010	1	1000	2.68
5N4117	TLAD10020	2	1000	3.35
5N4118*	TLAD15005	.5	1500	3.12
5N4119	TLAD15010	1	1500	3.35

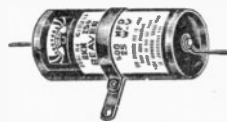
## "TJU" DYKANOL "A"



Dykanol filled and impregnated. Porcelain high tension terminals for trouble free high voltage use. New universal type mounting bracket for quick, easy mounting. Weight 4 lbs.

Stock No.	Type No.	Cap. Mfd.	Wkg. Volt.	Ht.	Ea.
5N2994	TJU 6010	1	600	2 1/2"	3.09
5N2995	TJU 6020	2	600	2 1/2"	3.82
5N2996	TJU 6040	4	600	3 1/8"	4.85
5N2957	TJU 6080	8	600	3 3/8"	7.20
5N2997	TJU 10010	1	1000	2 1/2"	3.38
5N2998	TJU 10020	2	1000	4"	4.41
5N3004	TJU 10040	4	1000	4 5/8"	5.59
5N2958	TJU 10080	8	1000	4 5/8"	8.08
5N2959	TJU 10100	10	1000	4 5/8"	8.97
5N2999	TJU 15010	1	1500	4"	3.97
5N3000	TJU 15020	2	1500	4 1/2"	5.69
5N3005	TJU 15040	4	1500	4 5/8"	7.50
5N2960	TJU 15080	8	1500	4 5/8"	11.17
5N2991	TJU 20001	.1	2000	2 1/2"	3.53
5N2992	TJU 20025	.25	2000	2 1/2"	3.82
5N2993	TJU 20055	.5	2000	2 1/2"	3.97
5N3001	TJU 20010	1	2000	3 1/8"	4.85
5N3003	TJU 20020	2	2000	4"	5.73
5N3021	TJU 20040	4	2000	3 3/4"	8.08
5N3019	TJU 30010	1	3000	3 3/4"	10.73
5N3020	TJU 30020	2	3000	4 1/2"	13.38
5N3022	TJU 50020	2	5000	6"	28.66

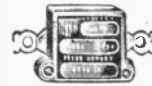
## "BRH" HIGH CAPACITY LOW VOLTAGE UNITS



Etched foil electrolytic capacitors for power packs, electric fence devices, telephone and DC timing circuits. Aluminium cans, cardboard sleeves.

Stock No.	Type No.	Cap. Mfd.	Volts	Size	Ea.
5N2567	BRH601	100	6	5/8" x 1 1/8"	.68
5N2570	BRH6025	250	6	5/8" x 1 1/8"	.85
5N2568	BRH605	500	6	5/8" x 1 1/8"	1.00
5N2569	BRH610	1000	6	7/8" x 2 1/2"	1.32
5N2573	BRH615	1500	6	7/8" x 2 1/2"	1.76
5N2574	BRH620	2000	6	1 x 2 1/2"	2.29
5N2575	BRH121	100	12	5/8" x 1 1/8"	.73
5N2571	BRH1225	250	12	3/4" x 2"	1.03
5N2577	BRH125	500	12	7/8" x 2 1/2"	1.12
5N2578	BRH151	100	15	5/8" x 1 1/8"	.76
5N2572	BRH1525	250	15	3/4" x 2"	1.12
5N2576	BRH155	500	15	7/8" x 2 1/2"	1.23
5N2579	BRH251	100	25	5/8" x 2"	.79
5N2580	BRH2525	250	25	5/8" x 2"	1.18
5N2553	BRH255	500	25	1 x 2 1/2"	1.32
5N2554	BRH501	100	50	3/4" x 2"	.88

## X'MITTING MICAS



Moulded in bakelite; mechanically strong; special impregnation; high insulation resistance. No magnetic material—reduces losses at all frequencies.

Short, heavy terminals—minimum RF and contact resistance. India Mica. For grid and plate blocking.

### Type 4 600 V. Wkg. 1000 V. Test

Stock No.	C. D. No.	Cap. Mfd.	Each
5N4156	4-14050	.0005	.41
5N4157	4-13010	.0001	.41
5N4158	4-13020	.0002	.41
5N4159	4-13025	.00025	.41
5N4160	4-13050	.0005	.41
5N4161	4-12010	.001	.41
5N4162	4-12020	.002	.47
5N4163	4-12060	.006	.71
5N4164	4-11010	.01	.94
5N4165	4-11020*	.02	1.29
5N4166	4-11030*	.03	1.73

### 1200 V. Wkg. 2500 V. Test

Stock No.	C. D. No.	Cap. Mfd.	Each
5N4168	4-23010	.0001	.59
5N4169	4-23025	.00025	.59
5N4170	4-23050	.0005	.59
5N4171	4-22010	.001	.73
5N4172	4-22020*	.002	1.12
5N4173	4-22050*	.005	1.41
5N4174	4-21010*	.01	2.29

### 2500 V. Wkg. 5000 V. Test

Stock No.	C. D. No.	Cap. Mfd.	Each
5N4175	4-53010	.0001	.73
5N4176	4-53020	.0002	.82
5N4177	4-53025	.00025	.88
5N4178	4-53050	.0005	1.00
5N4179	4-52010	.001	1.21
5N4180	4-52020*	.002	1.82
5N4181	4-52040*	.004	2.86
5N4182	4-52050*	.005	2.76

All thickness 1 1/2", except \*—1 1/8".

## "DYR" CAPACITORS



Dykanol filled and impregnated. For severe requirements of aircraft, marine and tropical use. Moisture proof; withstands 85° C. temp. Metal case. 600 V D. C. Wkg.

Stock No.	Type	Cap. Mfd.	Size Inches	Each
5N3006	DYR 6005	.05	1 1/2" x 1 3/4"	1.53
5N3011	DYR 6010	.1	1 1/2" x 1 3/4"	1.56
5N3012	DYR 6025	.25	1 1/2" x 1 3/4"	1.56
5N3013	DYR 6050	.5	1 1/2" x 1 3/4"	1.76
5N3014	DYR 6100	1.0	2 x 1 1/2" x 1 3/4"	2.00
5N3015	DYR 6200	2.0	2 x 2 1/2" x 1 3/4"	2.68
5N3016	DYR 60055	.05-.05	1 1/2" x 1 3/4"	1.94
5N3007	DYR 6011	1.-1	1 1/2" x 1 3/4"	1.97
5N3016	DYR 6022	.25-.25	1 1/2" x 1 3/4"	2.00
5N3008	DYR 6055	5.-5	2 x 1 1/2" x 1 3/4"	2.29
5N3017	DYR 6110	1.-1	2 x 2 1/2" x 1 3/4"	2.82
5N3009	DYR 6111	1.-1-1	1 1/2" x 1 3/4"	2.23
5N3015	DYR 6222	.25-.25-.25	2 x 1 1/2" x 1 3/4"	2.53



# MALLORY ELECTROLYTIC CONDENSERS



## TYPE FP AND WP COMPACT DRY ELECTROLYTICS

For top chassis mounting in filter and audio bypass circuits. Light weight. Hermetically sealed aluminum can.

Designed for twist point mounting through suitable chassis slots. Solder lug type terminals all at one end.

No.	Type	Mfd. Volts	Size	Each
SN3700	WP039	1,000	1S	1.91
SN3701	WP041	2,000	1S	2.76
SN3702	WP055	1,000	2S	.85
SN3703	WP057	500	2S	1.44
SN3704	WP059	1,000	2S	2.09
SN3705	WP065	500	50	2.09

### DUAL SECTION

SN3662	FP211	30-30	150	1"x2"	1.03
SN3710	FP214	50-50	150	1"x2½"	1.23
SN3726	FP208	20-20	150	1"x2"	.91
SN3727	FP210	40-20	150	1"x2"	1.03
SN3728	FP212	40-40	150	1"x2½"	1.15

### MULTIPLE SECTION

No.	Type	Cap. Mfd.	Wkg. Volts	Size	Each
SN3713	FP354	20-20-20	150	1"x2"	1.29
SN3795	FP357	40-40-40	150	1"x3"	1.53
SN3870	FP355	40-20-20	150	1"x2½"	1.41
SN3714	FP367	10-10-10	350	1"x2"	1.41
SN3670	FP389	10-10-10	450	1"x3"	1.47
SN3798	FP390	15-15-10	450	1"x3"	1.68
SN3725	WP302	15-15/1000	150/2	1"x2"	1.59
SN3732	FP307	40-20/100	150/25	1"x2½"	1.76
SN3733	FP310	40-40/20	150/25	1"x2½"	1.41
SN3871	FP410	50-50-50/20	150/25	1½"x2½"	2.00
SN3715	FP306	40-20/20	150/25	1"x2"	1.35
SN3716	FP309	50-30/100	150/25	1"x2½"	1.76
SN3717	FP328	15-10/20	350/25	1"x2"	1.35

No.	Type	Mfd. Volts	Size	Each	
SN3790	FP115	50	150	1"x2"	.85
SN3706	FP116	100	150	1"x3"	1.15
SN3699	FP135	30	350	1"x2"	1.00
SN3707	FP137	50	350	1"x2½"	1.21
SN3658	FP142	10	450	¾"x2"	.76
SN3659	FP143	15	450	1"x2"	.91

### DUAL SECTION

SN3729	FP213	50-30	150	1"x2½"	1.15
SN3730	FP217	20-20	250	1"x2"	1.21
SN3793	FP225	15-15	350	1"x2"	1.23
SN3792	FP227	20-20	350	1"x3"	1.33
SN3664	FP231	10-10	450	1"x2"	1.23

### SINGLE SECTION

No.	Type	Mfd. Volts	Size	Each	
SN3708	FP144	80	450	1"x2"	1.03
SN3791	FP145	30	450	1"x3"	1.15
SN3709	FP146	40	450	1"x3"	1.32
SN3681	FP149	80	450	1½"x2½"	2.29

### DUAL SECTION

SN3665	FP234	20-20	450	1"x3"	1.56
SN3711	FP238	40-40	450	1½"x3"	2.35
SN3712	FP245	80-10	450	1½"x3"	2.50
SN3731	FP237	30-30	450	1½"x2½"	1.91

### MULTIPLE SECTION

No.	Type	Cap. Mfd.	Wkg. Volts	Size	Each
SN3718	FP371	30-10/20	350/250	1"x3"	1.68
SN3719	FP330	30-20/20	350/25	1"x3"	1.65
SN3668	FP332	10-10/20	450/25	1"x2"	1.38
SN3799	FP339	20-20/20	450/25	1"x3"	1.73
SN3720	FP346	40-40/20	450/25	1½"x3"	2.15
SN3721	FP409	40-40-30/20	150/25	1½"x2"	1.82
SN3673	FP424	15-15-10/20	450/25	1½"x2"	2.00
SN3722	FP426	20-15-20/20	450/25	1½"x2"	2.00
SN3723	FP429	40-30-10/20	450/25	1½"x2"	2.47
SN3724	FP416	40-40-20/20	350/300/25	1½"x3"	2.32
SN3724	FP434	10-10-10-10	450	1½"x3"	1.91
SN3673	FP444	20-20-20-20	450	1½"x3"	2.65

## MOUNTING PLATES FOR FP - WP CONDENSERS

For ¼" dia. cans SN3674—Bakelite SN3677—Metal } Any Type  
 For 1" dia. cans SN3675—Bakelite SN3678—Metal }  
 For 1½" dia. cans SN3676—Bakelite SN3679—Metal } 3¢ Each



Hermetically sealed in aluminum case. Supplied with leads and insulating tube. Can be used under all climatic conditions. Ideal for under chassis mounting. Average diameter 1".

### SINGLE SECTION - TYPE TC

Stock No.	Cap. Mfd.	Wkg. Volts	Each	Stock No.	Cap. Mfd.	Wkg. Volts	Each
SN829	1000	3	1.06	SN988	40	150	.65
SN830	500	6	1.00	SN838	50	150	.71
SN831	1000	6	1.32	SN839	60	150	.76
SN832	500	15	1.23	SN840	10	250	.96
SN848	10	25	.44	SN841	20	250	.71
SN875	25	25	.50	SN842	10	350	.99
SN876	50	25	.59	SN843	20	350	.76
SN833	100	25	.71	SN844	5	450	.53
SN887	10	50	.47	SN888	8	450	.56
SN897	25	50	.53	SN889	10	450	.62
SN898	50	50	.62	SN845	15	450	.78
SN834	5	150	.44	SN846	20	450	.86
SN835	10	150	.50	SN847	30	450	.97
SN836	15	150	.53	SN849	40	450	1.18
SN837	20	150	.56	SN850	10	500	1.59
SN882	30	150	.57	SN851	10	600	1.73

### DUAL COMMON NEGATIVE TYPE TCD

Stock No.	Type	Cap. Mfd.	Wkg. Volts	Each	Stock No.	Type	Cap. Mfd.	Wkg. Volts	Each
SN852	TCD26	25-25	25	.65	SN858	TCD62	10-10	350	.94
SN853	TCD45	20-20	150	.76	SN859	TCD65	20-20	350	1.23
SN854	TCD47	30-30	150	.88	SN880	TCD71	8-8	450	1.00
SN855	TCD48	40-40	150	1.00	SN881	TCD72	10-10	450	1.09
SN856	TCD52	10-10	250	.88	SN882	TCD74	15-15	450	1.29
SN857	TCD55	20-20	250	1.06	SN883	TCD75	20-20	450	1.41

## Cardboard Tubular Dry Electrolytics

Waxed cardboard tubes with an adjustable strap for horizontal mounting. Insulated leads. Type numbers marked (\*) have leads at both ends. All multiple have common negative.



No.	Type	Mfd.	Volts DC	Size	Each
SN3734	ST595	8	450	¾"x2½"	.68
SN3735	ST597	16	450	1½"x2½"	.91
SN3736	ST598	20	450	1"x3½"	1.00
SN3737	ST599	30	450	1"x3½"	1.09

SN3738	2NS09*	20-20	150	½"x2½"	.76
SN3739	2NS13*	20-30	150	½"x2½"	.88
SN3740	2NS14*	40-20	150	½"x2½"	.88
SN3741	2NS11*	40-40	150	1"x2½"	1.00
SN3742	2NS20*	50-30	150	1"x2½"	1.00
SN3743	2NS21	50-50	150	1½"x2½"	1.21
SN3744	2NS18	8-8	450	1½"x2½"	1.12

### Triple—Types 3N and TN—Common Negative

SN3745	3NS27*	(20-20) (20)	(150) (25)	1½"x2½"	1.12
SN3746	3NS33*	(30-30) (20)	(150) (25)	1"x2½"	1.15
SN3747	TN125*	(20-10) (10)	150	½"x2½"	1.09
SN3748	TN129	(40-20) (20)	150	1½"x2½"	1.35

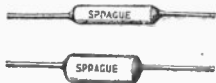
## "TP" PAPER TUBULARS

Oil treated non-inductive units, wax filled and impregnated. All triple sealed. Not affected by humid climatic conditions. All have wire leads.



No.	Mfd.	Volts	Each	No.	Mfd.	Volts	Each
SN3896	.01	400	14¢	SN3907	.005	600	14¢
SN3897	.02	400	14¢	SN3908	.006	600	14¢
SN3898	.05	400	16¢	SN3909	.01	600	16¢
SN3899	.1	400	19¢	SN3910	.02	600	16¢
SN3818	.2	400	24¢	SN3820	.03	600	19¢
SN3900	.25	400	24¢	SN3821	.04	600	19¢
SN3901	.5	400	31¢	SN3911	.05	600	22¢
SN3819	1.0	400	48¢	SN3912	.06	600	22¢
SN3902	.0001	600	14¢	SN3913	.1	600	24¢
SN3903	.00025	600	14¢	SN3914	.25	600	29¢
SN3904	.0005	600	14¢	SN3915	.5	600	42¢
SN3905	.001	600	14¢	SN3823	1.0	600	67¢
SN3906	.002	600	14¢				

# SPRAGUE CONDENSERS



**TYPE 68P MIDGET TUBULARS**

FOR MINIATURE RADIOS

**600 Working Volts DC**

No.	Mfd.	Size	Each
5N2494	.001	1/4 x 1 1/16"	.21
5N2493	.002	1/4 x 1 1/16"	.21
5N2492	.003	5/16 x 1 1/16"	.21
5N2491	.004	3/8 x 1 1/16"	.21
5N2490	.005	9/16 x 1 1/16"	.24
5N2489	.006	5/16 x 1 1/8"	.24
5N2488	.01	5/16 x 1	.26
5N2487	.02	11/32 x 1	.29
5N2486	.05	15/32 x 1 1/8"	.32
5N2485	.1	5/8 x 1 1/8"	.41
5N2484	.25	3/4 x 2"	.47

**400 Working Volts DC**

No.	Mfd.	Size	Each
5N2500	.001	1/4 x 1 1/16"	.21
5N2501	.002	1/4 x 1 1/16"	.21
5N2502	.003	1/4 x 1 1/16"	.21
5N2503	.004	1/4 x 1 1/16"	.21
5N2504	.005	1/4 x 1 1/16"	.21
5N2505	.006	1/4 x 1 1/16"	.21
5N2506	.01	5/16 x 1 1/16"	.24
5N2507	.02	5/16 x 1	.26
5N2508	.05	11/32 x 1	.29
5N2499	.1	15/32 x 1 1/8"	.38
5N2498	.25	5/8 x 1 1/8"	.44
5N2497	.5	3/4 x 2"	.52

**200 Working Volts DC**

5N2509	.005	1/4 x 1 1/16"	.21	5N2513	.05	5/16 x 1	.29
5N2510	.006	1/4 x 1 1/16"	.21	5N2514	.1	11/32 x 1	.35
5N2511	.01	5/16 x 1 1/16"	.24	5N2496	.25	17/32 x 1 1/8"	.41
5N2512	.02	5/16 x 1 1/16"	.26	5N2495	.5	3/4 x 1 1/8"	.47

**100 Working Volts DC**

5N2520	.25	1 1/2 x 1 1/8"	.41	5N2521	.5	5/8 x 1 1/8"	.47
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**MOULDED TELECAPS**

**TYPE TM "600" LINE**



All-purpose, small size. Heat-resistant bakelite phenolic, paper tubular. For high-temperature TV receivers, auto sets, etc. Oil-filled. Shock and humidity-proof, non-inflammable.

No.	Mfd.	Ea.	No.	Mfd.	Ea.	No.	Mfd.	Ea.	No.	Mfd.	Ea.
5N2627	.0001	.15	5N2632	.002	.15	5N2636	.006	.15	5N2641	.1	.26
5N2628	.00025	.15	5N2633	.003	.15	5N2637	.01	.18	5N2642	.25	.32
5N2629	.0004	.15	5N2634	.004	.15	5N2638	.02	.18	5N2643	.5	.47
5N2630	.0005	.15	5N2635	.005	.15	5N2639	.05	.24	5N2681	1.0	.73
5N2631	.001	.15				5N2640	.06	.24			

**TYPE "MB" MOLDED TUBULARS**

1600 Volts Working, Oil Impregnated

No.	Mfd.	Dia.	Lgt.	Each	No.	Mfd.	Dia.	Lgt.	Each
5N2690*	.001	5/8 x 1 3/8"		.32	5N2693	.01	1/2 x 2		.35
5N2691	.002	5/8 x 1 3/8"		.32	5N2694*	.02	1 1/2 x 2 1/2		.41
5N2692	.005	1 1/8 x 1 3/8"		.32					

\*Temporarily supplied in waxed filled cardboard tubes pending completion of molds.

**TYPE TVM - 6,000 & 10,000 VOLTS**

No.	TVM	Mfd.	WVDC	Size	Each
5N2696	356	.0005	6,000	1/2 x 1 1/2"	.79
5N2697	216	.001	6,000	5/8 x 1 7/8"	.79
5N2698	256	.005	6,000	5/8 x 1 7/8"	.79
5N2699	351	.0005	1,000	5/8 x 1 7/8"	.88
5N2700	TVQ-116	.01	6,000	1 3/8 x 2"	.82
5N2701	TVQ-156	.05	6,000	1 x 3"	.94

**SPRAGUE "ATOMS"**

Ultra-compact dry electrolytics sealed in tubes with outer insulating sleeve. Protected against "Blow-ups." 3/16" bare leads riveted to end caps.



No.	Mfd.	Wkg. Vlt.	Size	Each
5N769	10	25	5/16 x 1 5/8"	.44
5N770	25	25	9/16 x 1 5/8"	.50
5N2680	5	50	9/16 x 1 5/8"	.44
5N2682	10	50	11/16 x 1 5/8"	.47
5N771	25	50	5/8 x 1 5/8"	.53
5N2841	50	50	11/16 x 1 1/2"	.62
5N772	4	150	5/8 x 1 5/8"	.44
5N773	8	150	5/8 x 1 5/8"	.47
5N774	12	150	5/8 x 1 5/8"	.50
5N775	16	150	11/16 x 1 5/8"	.53
5N776	20	150	3/4 x 1 5/8"	.56
5N2840	30	150	15/16 x 1 5/8"	.59
5N777	40	150	7/8 x 1 5/8"	.65
5N778	4	450	5/8 x 1 5/8"	.53
5N779	8	450	3/4 x 1 5/8"	.56
5N780	12	450	7/8 x 1 5/8"	.68
5N781	16	450	15/16 x 2"	.79
5N782	20	150	7/8 x 2 1/4"	.88
5N783	10-10†	50	5/8 x 2 3/8"	.68
5N3164	8-8*	150	5/8 x 2 3/8"	.68
5N2842	12-20*	150	11/16 x 2 3/8"	.73
5N3165	20-20*	150	3/4 x 2 3/8"	.76

No.	Mfd.	Wkg. Vlt.	Size	Each
5N2683	20-20†	150	1 x 2 7/8"	1.18
5N744	20-30*	150	7/8 x 2 3/8"	.82
5N797	30-30*	150	15/16 x 2 3/8"	.88
5N745	20-40*	150	15/16 x 2 3/8"	.88
5N746	40-30*	150	1 x 2 3/8"	.94
5N798	40-10*	150	1 x 2 3/8"	1.00
5N799	50-30*	150	1 x 2 3/8"	1.00
5N747	50-50*	150	1 3/8 x 3 3/8"	1.09
5N2843	40-20†	150	1 1/2 x 2 3/8"	1.38
5N784	12-12*	200	1 1/2 x 2 3/8"	.76
5N785	8-16*	200	1 1/2 x 2 3/8"	.75
5N2844	8-16*	250	3/4 x 2 3/8"	.94
5N2845	8-16†	250	1 x 2 3/8"	1.32
5N787	16-16*	200	7/8 x 2 3/8"	.88
5N2846	16-16*	250	1 x 2 3/8"	1.00
5N2684	16-16†	250	1 x 2 3/8"	1.50
5N786	8-8*	450	1 1/2 x 2 3/8"	1.00
5N2685	8-8†	450	1 1/2 x 3 3/8"	1.23
5N2847	8-16*	450	1 x 2 3/8"	1.18

(\*) 3 leads. (†) 4 leads.

**TYPE TVL TWIST-LOKS**

TELEVISION REPLACEMENTS. Hermetically sealed for long life. Designed for 85°C operation up to 450 WVDC.



**SINGLE UNITS**

Stock No.	Type	Mfd.	WVDC	Dia. x L.	Each
5N2702	TVL-41	.5 ohm @ 15.75 kc	3, non-pol.	1 1/2"	1.70
5N2703	TVL-42	1 ohm @ 60 cps	3, non-pol.	1 3/8 x 2 1/2"	2.65
5N2704	TVL-43	2000	6	1 3/8 x 2 1/2"	2.47
5N2705	TVL-1	80	150	1 x 2 1/2"	1.03
5N2706	TVL-61	80	150	1 3/8 x 2"	1.03
5N2707	TVL-70	15	250	1 1/2"	.91
5N2708	TVL-63	30	250	1 x 2 1/2"	.82
5N2709	TVL-3	50	250	1 1/2"	1.12
5N2710	TVL-62	80	250	1 x 3 1/2"	1.41
5N2711	TVL-4	100	300	1 1/2"	1.85
5N2712	TVL-5	40	350	1 3/8 x 2 1/2"	1.65
5N2713	TVL-45	40	450	1 1/2"	1.32
5N2714	TVL-6	125	450	1 3/8 x 1"	3.38
5N2715	TVL-7	30	475	1 3/8 x 2"	1.53
5N2716	TVL-8	40	475	1 3/8 x 2"	1.76
5N2717	TVL-9	90	475	1 3/8 x 3 1/2"	3.82

**DUAL UNITS**

5N2718	TVL-10	1000+5000	6, non-pol.	1 3/8 x 2"	1.73
5N2719	TVL-13	1000+1000	15	1 x 3 1/2"	2.88
5N2396	TVL-14	80+80	300	1 3/8 x 3 1/2"	2.26
5N2397	TVL-15	30+10	400	1 x 3"	1.47
5N2398	TVL-64	40+40	450	1 3/8 x 3"	2.35
5N2399	TVL-17	80/10	450/25	1 3/8 x 3"	2.18
5N2400	TVL-47	80+10	450	1 3/8 x 3"	2.50
5N2401	TVL-19	20/100	475/300	1 3/8 x 3 1/2"	2.41
5N2402	TVL-20	40+40	475	1 3/8 x 3"	2.73

**TRIPLE UNITS**

5N2403	TVL-50	70+70/20	200/50	1 3/8 x 3 1/2"	2.35
5N2404	TVL-21	100+10/40	200/50	1 3/8 x 2"	2.26
5N2405	TVL-22	80+80/60	250/200	1 3/8 x 3 1/2"	2.50
5N2406	TVL-23	40/20/10	350/300/200	1 3/8 x 2"	1.71
5N2408	TVL-24	80+40/150	400/50	1 3/8 x 1"	2.73
5N2409	TVL-28	10/10/50	450/350/25	1 x 3"	1.56
5N2410	TVL-26	30/100+25	450/25	1 3/8 x 2"	1.62
5N2414	TVL-52	10+10/40	450/50	1 x 2 1/2"	1.68
5N2415	TVL-67	20+10/50	450/50	1 x 3"	1.82
5N2417	TVL-29	40+10, 40	450, 50	1 3/8 x 2 1/2"	1.91
5N2418	TVL-57	40/100/130	450/150/50	1 3/8 x 3"	2.44
5N2419	TVL-65	20+20/60	450/350	1 3/8 x 3 1/2"	2.26
5N2420	TVL-53	40+10/10	450/350	1 3/8 x 3"	2.06
5N2421	TVL-31	20/20/40	475/300/25	1 3/8 x 2"	1.97
5N2422	TVL-32	40/40/25	475/400/50	1 3/8 x 3"	2.73
5N2423	TVL-33	10+10+10	475	1 x 3"	1.76
5N2424	TVL-55	30+30+20	475	1 3/8 x 3"	3.06

**QUADRUPLE UNITS**

5N2425	TVL-60	60+40+20/5	300/25	1 3/8 x 3 1/2"	2.35
5N2432	TVL-34	10+10/10+10	350/300	1 3/8 x 2"	1.82
5N2433	TVL-35	40/10/80+10	400/350/250	1 3/8 x 3 1/2"	2.62
5N2435	TVL-36	10+10+10/10	450/150	1 3/8 x 2"	1.79
5N2438	TVL-68	60+10+10/20	450/250	1 3/8 x 3"	2.56
5N2442	TVL-56	10/30/30	450/400/300	1 3/8 x 2 1/2"	1.82
5N2443	TVL-58	30+30+15+10	450	1 3/8 x 3 1/2"	2.50
5N2444	TVL-37	10/10/80/50	475/450/200/50	1 3/8 x 3"	2.70
5N2445	TVL-38	40+20+10/10	475/25	1 3/8 x 3"	3.00
5N2446	TVL-39	10+10+10+10	475	1 3/8 x 2"	2.32
5N2447	TVL-40	40+20+10+10	475	1 3/8 x 3"	3.23

**TYPE TVA ATOMS**

Especially designed to take care of both television and radio. Small sized, metal-encased dry electrolytic tubulars. . . All are suitable for 85°C operation. . . TVA-11 through TVA-14 are specially designed miniatures for TV and FM discriminator circuits.

**SINGLE UNITS**

No.	TVA	Mfd.	WVDC	Dia. x L.	Each
5N2448	1	1000	6	1 5/8 x 2 5/8"	1.32
5N2449	2	2000	6	1 3/8 x 2 1/8"	2.29
5N2450	3	2500	6	1 3/8 x 1 1/8"	1.03
5N2451	4	500	10	1 1/2 x 2 1/2"	1.12
5N2452	5	10	25	1 1/2 x 2 1/2"	.44
5N2453	6	25	25	1 1/2 x 1 1/8"	.50
5N2454	7	50	25	1 1/2 x 1 1/8"	.59
5N2455	8	100	25	1 1/2 x 1 1/8"	.71
5N2456	9	250	25	1 1/2 x 1 1/8"	1.18
5N2457	10	500	25	1 1/2 x 2 1/8"	1.32
5N2458	11	1	50	1 1/2 x 1 1/8"	.44
5N2459	12	5	50	1 1/2 x 1 1/8"	.44
5N2460	13	10	50	1 1/2 x 1 1/8"	.44
5N2461	14	10	50	1 1/2 x 1 1/8"	.57
5N2462	15	25	50	1 1/2 x 1 1/8"	.43
5N2463	16	50	50	1 1/2 x 1 1/8"	.62
5N2464	17	100			



# INTERFERENCE FILTERS - WAVE TRAPS

## C-D QUIETONE INTERFERENCE FILTERS



**Type IF-18.** An efficient allwave compactive inductive type filter for use in connection with all types of electrical appliances where interference conditions are severe. With frame connection for reduction of radiation. Bakelite case, finished in Walnut. Rating, 110 volts AC or DC, 5 amperes. Reduces interference when installed between radio and outlet—suppresses noise conditions when installed at offending appliance or motor. Shpg. wt. 5 lbs.  
SN12493—List Price \$8.35..... **4.91**

**Type IF-4.** For use on small radio receivers, such as AC-DC midget sets, where the noise level is, not too severe. Connects in power line between the radio receiver plug and wall receptacle. Rating 5 amperes on 110 volts AC or DC. Walnut bakelite case.  
SN12494—Shipping weight 8 oz. List \$1.10..... **65¢**



## FILTERS FOR USE AT THE APPLIANCE

**Type IF-6.** For all types of home electrical appliances where interference is of moderately low intensity. Installed between appliance and power supply with short return lead which reduces radiation. Rating 5 amperes at 110 volts AC or DC. Walnut finish.  
SN12425—Shipping weight 8 oz. List \$1.75..... **1.03**



**Type IF-21.** All-wave capacitive-inductive type filter for use on appliances where return lead cannot be made, such as shaver, barber clippers. Bakelite case. Rating 1.6 amperes at 110 volts AC or DC. Walnut finish. Wt. 2 lbs.  
SN12495—List Price \$4.00..... **2.35**

**Type IF-19.** Capacitive-inductive type filter for use where interference is severe. Frame connection provided. In Bakelite case, Walnut finish. 5 amperes at 110 V. AC-DC.  
SN12494—Shipping weight 2 lbs. List \$7.00..... **4.12**



**Type IF-22A.** For use in connection with electric shavers such as Schick, Knapp-Monarch and similar type shavers. 5 amperes at 110 volts AC. Bakelite case, black finish. Shpg. wt. 1 lb.  
SN12496—List Price \$2.75..... **1.62**

**Type 22B.** Physically the same as Type 22A, but for use with Packard, Zephyr, Remington-Rand, and Ronson type electric shavers. 5 amperes at 110 V. AC or DC. Bakelite case.  
SN12497—Shipping weight 1 lb. List \$2.75..... **1.62**

## INDUSTRIAL QUIETONE INTERFERENCE FILTERS



**Type IF-7A.** Capacitive-inductive type heavy duty filter for eliminating noise created by motors, oil burners, diathermy machines, elevators, etc. In steel cutout box 6"x6"x4" with knock-outs for BX cable or conduit. For single phase 110-220 volts AC or DC at 5 amperes. Shpg. wt. 9 lbs.  
SN12500—List \$12.50..... **7.35**

**Type IF-27.** Capacitive-inductive heavy duty type for severe interference from oil burners, motors, etc. For 110 volts AC or DC at 5 amperes. In steel box with flexible leads.  
SN12498—Shipping weight 5 lbs. List \$7.00..... **4.12**

**Type IF-28.** Same as Type IF-27, but for equipment drawing up to 10 amps. at 110 V. AC or DC  
SN12499—Shpg. wt. 7 lbs. List \$12.50..... **7.35**

## FLUORESCENT NOISE FILTER

**Type IF-24.** Mounts inside fixture by means of slotted strip which slips under any assembly bolt. Case is grounded and leads are shunted across power line. Cylindrical, 2"x2 1/2". For use on 110 volts AC or DC. Shipping weight 8 oz.  
SN12501—List Price \$1.10..... **65¢**

**Type IF-54.** Capacitive-inductive filter which provides extremely high attenuation over a wide range of frequencies. Suitable for fluorescent lights, sign flashers, etc. Drawn metal container 2"x2"x1 1/2". Insulated wire leads 6" long. Rated at 2 amperes on 110-220 volts AC or DC. Shpg. wt. 1 lb.  
SN12491—List \$2.25..... **1.32**

## ICA "FILTERVOLTS"

All-Wave Model. Contains heavy duty R.F. chokes, large filter capacitors, "PI" filter-unit. Eliminates noises caused by irons, toasters, vacuum cleaners, etc. Rated 5 amps at 32, 110 and 220 volts AC or DC. For use with any all-wave or broadcast receivers. 5x4x4 1/2". Shpg. wt. 5 lbs.  
SN12508—List Price \$7.50..... **4.41**

Intermediate model. Eliminates extremely noisy radio reception due to power line disturbances caused by lights, electrical appliances, etc. Can be installed at set or at source of interference. 4 1/2"x3 3/8"x1 1/8". Shipping weight 2 lbs.  
SN12507—List Price \$4.50..... **2.65**



## MEISSNER TV-FM WAVE TRAPS

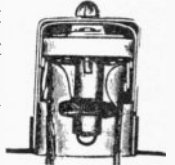
Designed expressly for use in the reduction of unwanted signals of certain types encountered in frequency modulation and television reception. Can be used with receivers having balanced or unbalanced antenna input impedances of 400, 300, 72 or 50 ohms. Easily installed across antenna terminals.



12N10255—Model 15-7510. 6-13MC  
12N10257—Model 15-7511. 13-27 MC  
12N10258—Model 15-7512. 27-54 MC  
12N10259—Model 15-7513. 54-108 MC  
12N10260—Model 15-7514. 108-216 MC  
Any Model, List \$5.00. Each..... **2.94**

## MEISSNER BROADCAST BAND WAVE TRAP

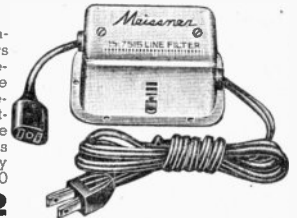
These popular Meissner wave traps are compact units designed for the elimination of interference caused by strong broadcast stations. All are fully shielded and moisture protected. Limited coverage permits easy adjustment. Full instructions are furnished for use as either reject or by-pass arrangements. Shields are 1 1/2"x1 1/8" high. Brackets for mounting the unit to the chassis or cabinet are attached to the shield.



12N10261—Model 15-8479. 400-700 KC  
12N10262—Model 15-8480. 650-1000 KC  
12N10263—Model 15-8481. 950-1600 KC  
Any Model, List \$1.50. Each..... **88¢**

## MEISSNER LINE FILTER

Type 15-7515. A combination inductor-capacitor type which filters both sides of the line. Greatly reduces interference carried into the receiver by the power line. Especially true in small radios with built-in antennas where one side of the line is connected to the chassis; thus introducing interference directly into the antenna circuit. Rating: 110 volts AC or DC at 3 amps.  
SN12502—List \$6.50.... **3.82**

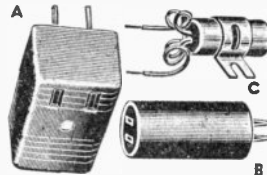


## NOISE SUPPRESSOR

Eliminates noise from 115 V. 50/60 cycle fluorescent. Leads shunted across power line. 4 1/4"x1 1/4"x1 1/2".  
SN12520—Wt. 1 lb. .... **75¢**



## MALLORY INTERFERENCE FILTERS



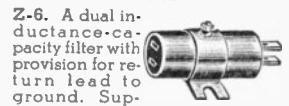
(A) **Type X-6** for medium interference. Plug into socket ahead of affected installation. Brown plastic case. Size: 1 1/4"x2 1/8"x1". 5 amperes at 110 volts AC or DC. Wt. 8 oz.  
SN12509—List \$1.60.... **94¢**  
Each, in lots of 6 ..... **84¢**

(B) **Type X-5.** Triple capacity filter with provision for return lead to appliance. For Vacuum Cleaners, food mixers, etc. 1 1/2"x2 1/2". 5 amperes at 110-220 volts AC or DC. Wt. 8 oz.  
SN12523—List \$2.70.... **1.59**

(B) **X-3 Plug-in.** Capacitive type for use between set and outlet. Rated 5 amps. at 110-220 volts, for slight interference. 1 1/2"x2 1/4".  
SN12510—List \$1.80... **1.06**

## W-7 MOTOR TYPE

(C) **Dual capacity unit.** Use on motor brushes or rings. Bracket for mtg. to frame. For moderate interference 110-220 volts. 1 1/2"x1 1/4".  
SN12512—List \$1.35.... **79¢**  
**W-11.** Like above, for severe interference. 1 1/2"x3".  
SN12513—List \$2.10... **1.23**



**Z-6.** A dual inductance-capacity filter with provision for return lead to ground. Suppresses severe interference. Rated 110-220 volts, 3 amps. Use at radio or noise source. 1 1/2"x3 3/8".  
SN12516—List \$3.60... **2.12**

**Type Z-4.** Dual inductance-capacity for severe interference where return lead is inconvenient. For vibrators. 1 1/2"x3". 3 amperes 110-220 volts. Wt. 8 oz.  
SN12524—List \$2.50... **1.47**

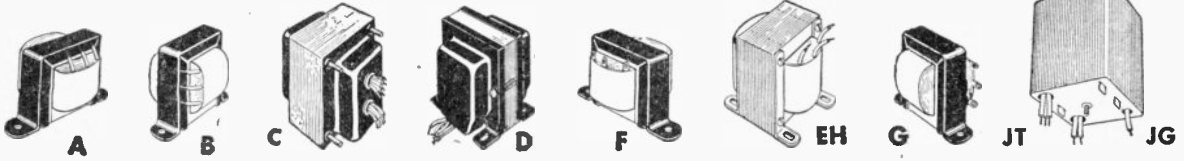
**Z-2.** Capacitive-inductive. 3 amps. at 110-220 V. 1 1/2"x2 1/4".  
SN12511—List \$2.20... **1.29**

## HEAVY DUTY FILTERS

**LC-5.** Inductance capacity filter for severe interference. Rated 110-220 V., 5 amps. Has cord, plug and receptacle. 2 1/2"x3x3 1/2" high. Wt. 8 lbs.  
SN12514—List \$11.25... **6.61**

**LC-10.** Same as above, rated 110-220 V., 10 amps.  
SN12515—List \$15.00. **8.82**

# MERIT QUALITY TRANSFORMERS



## VIBRATOR TRANSFORMERS

Exact duplicate vibrator transformers. P3068 replaces Chevrolet 986241, Philco CR4, CR6, CR8. P4076 for Cadillac 7256609, Chevrolet 985793, Oldsmobile 982399, Pontiac 984171. P4077 for Buick 980690, 980733, 980744, 980745, 980797, 980798.

Stock No.	Type No.	Sec. DC to Filter		Dimen.		Mtg.	Each
		Volts	M.A.	H x W x D			
6N1915	P3068	260	60	2 3/16x2 5/8x1 7/8"	C	2.65	
6N1916	P4076	265	55	3 1/4x2 5/8x2 3/8"	JG	3.29	
6N1917	P4077	280	65	3 15/16x2 1/4x2 3/8"	JT	3.53	

## FIXED OUTPUT TRANSFORMERS

Fig. A. All class A operation except type A2936 which is class B, AB. Secondary impedance 3.5 ohms.

Stock No.	Type	Pri. Impedance	Pri. M.A.	Max. Watts	Mtg. Centers	Each
6N1918	A3025	2,500	50	3	1 3/4"	73c
6N1919	A3026	5,000	40	3	1 3/4"	73c
6N1934	A2935	5,000 ct.	150	18	2 13/16"	1.76
6N1935	A2927	8,000	20	3	1 1/2"	73c
6N1936	A2936	10,000 ct.	75	10	2 2/8"	1.41

## UNIVERSAL OUTPUT

Fig. F. Matches single or push-pull tubes to voice coil. Primary imp: 4000-7000-8000-10000-14000 ohms ct. Sec. imp. .17 to 32.

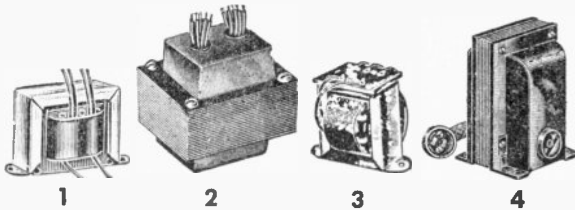
Stock No.	Type No.	Pri. M.A.	Max. Watts	Mtg. Centers	Dimensions H x W x D	Each
6N1937	A2900	35	4	2"	1 3/8x2 3/8x1 1/4"	1.41
6N1938	A2901	40	8	2 3/8"	1 5/8x2 13/16x1 1/2"	1.50
6N1939	A2904	40	18	2 3/8"	2 1/4x2 7/8x1 7/8"	1.91

## MERIT UNIVERSAL LINE TRANSFORMERS

Fig. F. To couple various line impedances to a voice coil. Primary imp: 500-1000-1500-2000 ohms.

Stock No.	Type	Sec.	Watts	Mtg. Centers	Dim. H x W x D	Each
6N1931	A2906	3.2, 6-8	10	2 3/8"	1 5/8x2 13/16x1 1/2"	1.32
6N1932	A2907	3.2, 6-8	18	2 3/8"	2 1/4x2 7/8x1 7/8"	2.20
6N1933	A2908	6-8, 16	24	3 1/8"	2 1/4x3 11/16x2 1/8"	2.35

# RELIANCE REPLACEMENT TRANSFORMERS



## 1. FILAMENT TRANSFORMERS

Stock No.	Primary Volts	Secondary Volts	Secondary Amperes	Dimen. H x W x D	Each
6N1950	115, 60 cy.	6.3 ct.	1	1 5/8x2 13/16x1 1/2"	85c
6N1951	115, 60 cy.	6.3 ct.	3	2x3 1/4x1 7/8"	1.20
6N1952	115, 60 cy.	6.3 ct.	6	2 9/16x4x2 1/4"	1.59
6N1945	115, 60 cy.	5 ct.	6	2 1/4x3 11/16x1 7/8"	1.65

## 3. UNIVERSAL LINE TRANSFORMERS

Match voice coil to any tube, single or push-pull, universal line transformers match voice coil to 500, 1000, 1500, or 2000-ohm line. Shipping weight 2 lbs.

Stock No.	Watts	Sec.	Mtg. Cent.	Dim. H x W x D	Each
6N1949	10	3.2, 6-8	2 3/8"	1 5/8x2 13/16x1 1/2"	.98
6N19190	18	3.2, 6-8	2 3/8"	2 1/4x2 7/8x1 7/8"	1.45
6N19191	24	6-8, 16	3 1/8"	2 1/4x3 11/16x2 1/8"	1.59

## 4. STEP-DOWN AUTOTRANSFORMERS

Permits use of standard voltage motors, accessories and appliances with line voltages from 220 to 250 V. 50-60 cycles. Sec. voltage 110-125. Built-in receptacle, cord with plug.

Stock No.	Watts	Size	Wt.	Each
6N1981	80	3 5/8x3 x2 7/8"	5	3.35
6N1982	150	3 7/8x3 5/8x3 1/8"	7	3.98
6N1983	250	4 3/4x3 1/4x3 3/8"	9	5.10
6N1984	500	4 3/4x4 x3 3/8"	12	6.40
6N1985	1,000	7 1/4x6 5/8x5 5/8"	17	17.25

## POWER TRANSFORMERS

Fig. C. Receiver replacement type. For use in radio and amplifiers. Primary for 115 V. 60-cycle AC. Leads R.M.A. color coded.

Stock No.	Type No.	Plate		Rect		Fil. 1		Mtg. Ctrs.	Each
		V	MA	V	A	V	A		
6N1940	P2958	480 ct	50	5	2	6.3 ct	2.6	2x2 1/2"	2.94
6N1941	P2957	700 ct	50	5	2	6.3 ct	2.6	2 1/4x2 13/16"	3.53
6N1942	P2966	700 ct	70	5	3	6.3 ct	9.0	2 1/4x2 13/16"	4.26
6N1925	P2950	650 ct	40	5	2	2.5 ct	3.5	2x2 1/2"	3.03
6N1926	P2951	650 ct	70	5	3	6.3 ct	3.5	2x2 1/2"	3.67
6N1927	P2952	700 ct	90	5	3	6.3 ct	3.5	2 1/4x2 13/16"	3.97
6N1943	P2953	700 ct	120	5	3	5.3 ct	4.7	2 1/2x3 1/8"	4.50
6N1944	P2954	750 ct	150	5	3	5.3 ct	5.0	2 1/2x3 1/8"	5.73

## PLATE TRANSFORMERS

DC voltage ratings are approximate values at output of a 2-section choke input filter using M.V. rectifier tubes. Primary 115-volt, 60-cycle AC. (†) Both secondaries available simultaneously. (\*) Has 40-volt bias tap.

Stock No.	Type No.	Sec. Rms Volts	Sec. DC Volts	DC Sec. M.A.	Dim. H x W x D	Mtg.	Each
6N1995	P3157	{ 660 ct* 550 ct	500	250	4 5/8x3 13/16x4 3/8"	D	6.76
6N1996	P3158	{ 1080 ct 500 ct	1000†	125	4 5/8x3 13/16x5"	D	8.23
6N1997	P3159	{ 900 ct 800 ct	750	225	4 5/8x3 13/16x5 1/8"	D	7.94
6N1998	P3167	{ 1450 ct 1175 ct	1200	300	5 3/4x6 1/8x4"	EH	19.84

## ISOLATION TRANSFORMERS

To provide isolation between line and associated circuits. Primary for 117 V, 50/60-cycle AC. Static shielding between primary and secondary. 117 V. secondary.

Stock No.	Type No.	Watts	Dimensions		Mtg.	Each
			H x W x D			
6N1986	P3096	40	3 1/8x2 5/8x2 3/8"	B	3.38	
6N1987	P3197	80	3 7/8x3 13/16x3 1/2"	D	5.00	

## 2. POWER TRANSFORMERS—115V, 60 CYC. PRI.

Stock No.	H.V. Secondary		Fil.		Fil.		Mtg. Centers	Each
	Volts	DC Ma.	V.	Amps.	V.	Amps.		
6N1958	480 ct.	40	5	2	6.3	2	2 x2 1/2"	2.10
6N1959	650 ct.	40	5	2	6.3	2	2 x2 1/2"	2.19
6N1960	700 ct.	70	5	3	6.3	2.5	2 x2 1/2"	2.65
6N1961	700 ct.	90	5	3	6.3	3.5	2 1/4x2 13/16"	2.90
6N1962	700 ct.	120	5	3	6.3	4.7	2 1/2x3 1/8"	3.35
6N1963	750 ct.	150	5	3	6.3	5	2 1/2x3 1/8"	3.90

## 1. UNIVERSAL OUTPUT TRANSFORMERS

Stock No.	Class Oper.	Primary Impedance	Sec. Imp.	Max. Watts	Mtg. Ctrs.	Dimen. H. W. D.	Each	
6N1954	Sin.	4000/7000	.17	4	2"	1 3/8x2 3/8x1 1/4"	.85	
6N1955	or	8000/10000	to	8	2 3/8"	1 5/8x2 13/16x1 1/2"	.87	
6N1956	P.P.	14000 Ct.	32	18	2 3/8"	2 1/4x2 7/8x1 7/8"	1.19	
6N1946	Sin.	3000/5000	.17	to	24	3 1/8"	2 1/4x3 11/16x2 1/8"	1.59
	or	7000/8000/P.P.	32	to				

## 1. FIXED OUTPUT TRANSFORMERS

Mtg. Ctrs.: \*2", †1 1/2", ‡2 13/16".

Stock No.	Pri. Imp.	Sec.	Pri. M.A.	Watts	Each
6N1964*	2000	3.2	60	5	.49
6N1947†	5000 ct.	3.2	150	18	1.08
	(PP 6L6)				
6N1965*	5000	3.2	40	5	.49
6N1966*	7000	3.2	30	5	.49
6N1948†	8000	3.2	20	3	.47
6N1967*	10000	3.2	30	5	.49

## 1. FILTER CHOKES—1500 V. INSULATION

Stock No.	Inductance Henries	Current M.A.	DC Res. Ohms	Mtg. Ctrs.	Dimen. H x W x D	Each
6N1971	8.5	50	40C	2 3/8"	1 5/8x2 13/16x1 1/2"	.65
6N1973	15	75	400	3 1/8"	2 1/4x3 11/16x2 1/8"	1.13
6N1974	10.5	110	220	3 9/16"	2 9/16x4x2 1/4"	1.35

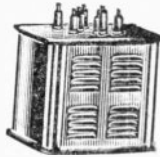
INQUIRIES WELCOMED ON ITEMS NOT IN CATALOG



# UTC TRANSMITTING TRANSFORMERS



G2  
TO  
G4



G5  
TO  
G8

## CASE DIMENSIONS

Type	Height	Width	Depth	Type	Height	Width	Depth
G2	2 <sup>5</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>16</sub> "	1 <sup>15</sup> / <sub>16</sub> "	G5	3 <sup>3</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>16</sub> "
G3	2 <sup>1</sup> / <sub>2</sub> "	3 <sup>3</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> "	G7	4 <sup>9</sup> / <sub>16</sub> "	4 <sup>9</sup> / <sub>16</sub> "	5 <sup>1</sup> / <sub>16</sub> "
G4	2 <sup>15</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>16</sub> "	2 <sup>5</sup> / <sub>16</sub> "	G8	4 <sup>9</sup> / <sub>16</sub> "	5 <sup>3</sup> / <sub>16</sub> "	5 <sup>3</sup> / <sub>16</sub> "

## SINGLE SECONDARY FILAMENT TRANSFORMERS

Primaries tapped 105, 115 volts, 50/60 cycles AC.

No.	Type	Sec. Volts	Amps.	Insul.	Case	Lbs.	Each
6N5853	S-53	2.5 c.t.	10	1500 v.	G-3	4	3.14
6N5854	S-54	5 c.t.	4	2500 v.	G-3	4	3.14
6N5855	S-55	6.3 c.t.	3	1500 v.	G-3	4	3.14
6N5857	S-57	2.5 c.t.	10	10000 v.	G-5	6 <sup>1</sup> / <sub>2</sub>	4.41
6N5858	S-58	2.5 c.t.	20	10000 v.	G-5	6 <sup>1</sup> / <sub>2</sub>	5.39
6N5859	S-59	5 to 5.25 c.t.	13	5000 v.	G-5	6 <sup>1</sup> / <sub>2</sub>	4.41
6N5861	S-61	7.5 tapped, 6.3 c.t.	8	3000 v.	G-5	6 <sup>1</sup> / <sub>2</sub>	4.41
6N5862	S-62	10 c.t.	10	5000 v.	G-5	6 <sup>1</sup> / <sub>2</sub>	5.39
6N5863	S-63	14 v. c.t. tapped at 12 v. c.t., 11 v. c.t.	10	5000 v.	G-7	11	9.80

## FILTER, SWINGING AND AUDIO CHOKES

Nos.	Type	Service	Hy.	Ma.	Ohms	Case	Each
6N5823	#S-23	Audio	500	5	6000	G-2	3.33
6N5827	*S-27	Filter	30	75	350	G-4	3.72
6N5828	*S-28	Filter	20	100	350	G-4	3.72
6N5829	*S-29	Filter	10	175	95	G-4	3.72
6N5830	*S-30	Swing.	5/25	175	95	G-4	3.72
6N5831	*S-31	Filter	20	225	120	G-5	4.90
6N5832	*S-32	Swing.	5/25	225	120	G-5	4.90
6N5833	†S-33	Filter	20	200	90	G-7	6.86
6N5834	†S-34	Swing.	5/25	300	90	G-7	6.86
6N5836	†S-36	Swing.	5/25	400	85	G-8	10.29
6N5837	†S-37	Filter	20	550	60	G-8	13.72

Shpg. wts.: #3<sup>1</sup>/<sub>2</sub> lbs., \*6 lbs., †11 lbs., †15 lbs.

## UNIVERSAL DRIVER TRANSFORMER

No.	Type	Application	Case	Lbs.	Each
6N5809	S-9	P.P. Driver plates to grids of Class B tubes up to 400 watts output.	G-4	4	5.10
6N5810	S-10	P.P. 56, 6C6 Triode, 6CS, or similar plates to 45", 2A3's or 6L6's, self or fixed bias.	G-3	5	4.61

## ULTRA COMPACT AUDIO UNITS

Hi-fidelity, small, lightweight, suitable for compact equipment. Frequency response  $\pm 10$  db. from 30 to 20,000 cps. Maximum operating level  $\pm 10$  db. Top or bottom mtg. Size: 1<sup>1</sup>/<sub>2</sub>" x 1<sup>1</sup>/<sub>2</sub>" x 2". Wt. 1 lb.



No.	Type	Pri. Imp. Ohms	Sec. Imp. Ohms	Each
6N5394	A 10	50, 125, 200/250, 333, 500/600 ohms	50,000 ohms	8.82
6N5726	A 11	50, 200, 500	50,000 ohms	8.82
6N5370	A 12	50, 125, 200/250, 333, 500/600 ohms	80,000 ohms overall, in 2 sections	8.82
6N5371	A 14	30 ohms	50,000 ohms overall in 2 sections	8.23
6N5372	A 16	15,000 ohms	60,000 ohms 2:1 turn ratio	7.84
6N5373	A 18	15,000 ohms	80,000 ohms overall, 2.3:1 turn ratio overall	8.28
6N5374	A 19	15,000 ohms	80,000 ohms overall, 2.3:1 turn ratio overall	10.58
6N5375	A 20	50, 125, 200/250, 333, 500/600 ohms	50, 125, 200/250, 333, 500/600 ohms	8.82
6N5376	A 21	50, 200/250, 500/600	50, 200/250, 500/600	9.41
6N5397	A 24	15,000 ohms	50, 125, 200/250, 333, 500/600 ohms	8.23
6N5377	A 25	15,000 ohms	50, 125, 200/250, 333, 500/600 ohms	8.82
6N5378	A 26	30,000 ohms plate to plate.	50, 125, 200/250, 333, 500/600 ohms	8.82

## UNIVERSAL INTERSTAGE EQUALIZER

Type CGE-1. The ideal device for all applications requiring frequency response correction. Designed to be connected between two triode audio stages or match a high impedance (5000 to 30,000 ohms) source to grid. Employs resonant circuits to permit low or high end equalization without effecting mid-frequencies. Bass may be raised and highs may be dropped simultaneously. Continuously adjustable to 15 db. Size: 2<sup>3</sup>/<sub>8</sub>" x 4" x 2<sup>1</sup>/<sub>2</sub>". 6N5399—Shipping weight 3 lbs. **14.70**



## DYNAMIC NOISE SUPPRESSION INDUCTOR

Type CG-50. Incorporates two accurate High Q coils (.8 and 2.4 hy.) for use in dynamic noise suppression circuits. Effectively suppresses surface and needle noise in high fidelity phonograph equipment. Excellent circuit included. Case type RC (see listing below) 2<sup>3</sup>/<sub>16</sub>" x 2<sup>7</sup>/<sub>16</sub>" H.

6N5396..... **9.41**

## VARIMATCH MODULATION TRANSFORMERS

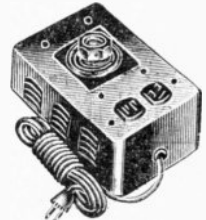
Universal modulation transformer. For matching all popular types of modulator tubes to plate modulated Class C amplifier stage. Secondaries are designed to carry the plate current of the Class C stage. CVM-0 through 4 use RC case.



Stock No.	Type	Max. Audio Watts	Watts Class C Stage	Dimensions			Shpg. Wt. Lbs.	Each
				L.	W.	H.		
6N5359	CVM-0	12	10-25	2 <sup>1</sup> / <sub>2</sub> "	3"	3"	3	5.00
6N5360	CVM-1	30	20-60	3 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>2</sub> "	4 <sup>1</sup> / <sub>2</sub> "	6	8.23
6N5361	CVM-2	60	40-125	3 <sup>3</sup> / <sub>16</sub> "	4 <sup>7</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>2</sub> "	12	12.05
6N5362	CVM-3	125	100-250	6"	4 <sup>9</sup> / <sub>16</sub> "	16"	20	17.64
6N5363	CVM-4	300	200-600	7 <sup>3</sup> / <sub>16</sub> "	9 <sup>1</sup> / <sub>16</sub> "	5 <sup>1</sup> / <sub>2</sub> "	31	29.40
6N5364	CVM-5	600	450-1200	11"	11"	9"	89	67.62

## UTC STANDARD VARITRAN VOLTAGE CONTROLS

Employs a sliding contact riding over the transformer turns. Provides continuously-variable output voltages from 0 to 130 volts without interruption of the circuit. All completely shielded. Type V-1 (illustrated) includes cord, plug, and switch. Other units have screw terminals on insulated strip. For 115 volts.



No.	Type	Watts	Amps.	Size	Wt.	Price
21N5733	V-0	230	2	4 x 6 x 4 <sup>3</sup> / <sub>8</sub> "	10 lbs.	11.27
21N5771	V-1	570	5	5 x 8 <sup>1</sup> / <sub>2</sub> x 3 <sup>1</sup> / <sub>2</sub> "	14 lbs.	17.15
21N5716	*V1-M	570	5	5 x 10 <sup>1</sup> / <sub>2</sub> x 3 <sup>1</sup> / <sub>2</sub> "	14 lbs.	28.42
21N5772	V-2	570	5	5 x 7 x 4 <sup>1</sup> / <sub>2</sub> "	13 lbs.	14.70
21N5773	V-3	850	7.5	5 x 7 x 5 <sup>1</sup> / <sub>2</sub> "	19 lbs.	21.56
21N5774	V-4	1250	11	6 <sup>3</sup> / <sub>8</sub> x 9 <sup>3</sup> / <sub>8</sub> x 6"	37 lbs.	31.36

\*Same as V-1, but includes 0-150 volt A.C. meter.

## OUNCER AUDIO UNITS

Compact quality transformers that weigh only one ounce! Ideal for portable broadcast, hearing aid, aircraft and similar applications. High fidelity characteristics, uniform from 40-15,000 cps., except for 0-14, 0-15 and units carrying DC which are for voice frequencies from 150-4000 cps. Maximum level 0 db. Fully impregnated and sealed in drawn aluminum housing <sup>3</sup>/<sub>8</sub>" diameter, 1<sup>1</sup>/<sub>8</sub>" high.



Stock No.	Type	Pri. Impedance	Sec. Impedance	Each
6N5479	O-1	50, 200/250, 500/600	50,000	7.79
6N5480	O-2	50, 200/250, 500/600	50,000 P.P.	7.79
6N5481	O-3	7.5/30	50,000	7.06
6N5482	O-4	15,000	60,000	6.17
6N5483	O-5	15,000 DC in Pri.	60,000	6.17
6N5484	O-6	15,000	95,000 P.P.	7.06
6N5485	O-7	15,000 DC in Pri.	95,000 P.P.	7.06
6N5486	O-8	15,000	50, 200/250, 500/600	7.79
6N5487	O-9	15,000 DC in Pri.	50, 200/250, 500/600	7.79
6N5488	O-10	30,000 P. to P.	50, 200/250, 500/600	7.79
6N5489	O-12	50, 200/250	50, 200/250, 500/600	7.06
6N5491	O-14	200	<sup>1</sup> / <sub>2</sub> megohm	7.79
6N5492	O-15	15,000	1 megohm	7.79

6N5490—O-13 Reactor. 200 hys., no DC; 50 hys., 2 MA. DC; 6000 ohms.....

**5.59**

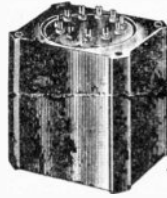
# UTC LABORATORY TRANSFORMERS

## UTC LINEAR STANDARD TRANSFORMERS

High permeability cores and precisely balanced interleaved windings guarantee uniform frequency response, minimum hum pickup and negligible wave form distortion. Vacuum-baked, impregnated coils. Minimum distributed capacity and leakage reactance.

### INTERSTAGE AUDIO TRANSFORMERS

Response  $\pm 1$  db, 20-20,000 cps. Hum-pickup reduction compared to uncased type, -74 db, except LS-19 and LS-22, -50 db. LS-1 case:  $3\frac{1}{2}$ " long,  $2\frac{1}{2}$ " wide,  $3\frac{1}{2}$ " high. \*LS-2 case:  $4\frac{1}{16}$ " x  $3\frac{1}{2}$ " x  $4\frac{3}{16}$ ". Shpg. wt. 4 lbs., except LS-22, 9 lbs. Primary Impedance, 15,000 ohms. For Single Plate.



No.	Type	Use	Secondary	Max. Lev.	Each
6N5417	LS-19	To PP grids	95,000 ohms; $1\frac{1}{2}$ :1	+17 DB	14.11
6N5418	LS-20	To grid	60,000 ohms; 2:1	+14 DB	12.35
6N5413	LS-21	To PP grids	135,000 ohms; 3:1	+14 DB	14.11

Primary Impedance, 30,000 ohms. P. to P. for Push-Pull Plates.

6N5419	*LS-22	To PP grids	80,000 ohms; 1.6:1	+26 DB	18.23
6N5420	LS-25	To PP grids	50,000 ohms; 1.3:1	+17 DB	16.46

### OUTPUT TRANSFORMERS—TO LINE AND VOICE COIL

The multiple taps of these units provide a wide range of impedances for every application. Have large cores and precisely balanced, interleaved coil structures. Unequalled response ( $\pm 2$  db, 25-20,000 cps) with minimum harmonic distortion. In LS-2 case:  $4\frac{1}{16}$ " long,  $3\frac{1}{2}$ " wide,  $4\frac{3}{16}$ " high. Shpg. wt. 9 lbs. \*In LS-3 case:  $5\frac{1}{16}$ " x  $5\frac{1}{2}$ " x  $4\frac{11}{16}$ ". Shpg. wt. 17 lbs. †Push-pull, fixed bias for cathode follower drive.

No.	Type	Pri. P. to P.	Secondary	Watts	Each
6N5421	LS-52	8,000 ohms	500 to 1.2	15	16.46
6N5422	LS-54	8,000 ohms	30 to 1.2	15	11.76
6N5412	LS-55	5,000 & 3,000	500 to 1.2	20	16.46
6N5423	LS-57	5,000 & 3,000	30 to 1.2	20	11.76
6N5424	LS-58*	2,500 & 1,500	500 to 1.2	40	29.40
6N5425	LS-60A*†	4,600	15 to 1.2	30	20.58
6N5426	LS-61	10,000 & 6,000	500 to 1.2	15	16.46
6N5427	LS-62A*†	4,600	500, 125	30	20.58
6N5428	LS-6L1*	9,000 ohms	500 to 1.2	30	24.70
6N5398	LS-6L3*	9,000 ohms	30 to 1.2	30	16.46
6N5429	LS-6L4	3,800 & 4,500	500 to 1.2	55	29.40

### HIGH LEVEL MATCHING TRANSFORMER

Type LS-33. High level line matching. Pri. imped: 50, 125, 200, 250, 333, 500/600 ohms; sec. imped: 1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50, 125, 200, 250, 333, 500/600 ohms.  $\pm 2$  db from 20 to 20,000 cps. Maximum level 15 watts. Size:  $4\frac{1}{16}$ " x  $3\frac{1}{2}$ " x  $4\frac{1}{16}$ ". Weight  $7\frac{1}{2}$  lbs. **16.46**  
6N5493

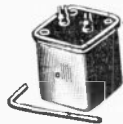
### HYBRID AND REPEAT COILS

Type LS-140. Line to line for isolating balanced and unbalanced circuits. Pri. and sec. imp. 500/600 ohms, split windings.  $\pm 1$  db from 30-20,000 cps. Max. level +10 db. Weight 3 lbs. **20.58**  
6N5498

Type LS-141. Three sets of balanced windings for hybrid service, center tapped. Pri. and sec. 500/600 ohms.  $\pm 1$  db from 30-15,000 cps. Weight 3 lbs. **16.46**  
6N5499

### 2-SECTION FILTER CHOKE

Type LS-90. Filter choke with hum-bucking tap. Inductance in series 50 hy at 50 MA DC; in parallel, 12.5 hy at 100 MA DC. DC resistance, 510 ohms in series and 128 ohms in parallel. Insulation test voltage 2000 volts. Housed in LS-2 case:  $4\frac{1}{16}$ " long,  $3\frac{1}{2}$ " high. Mounting centers:  $2\frac{1}{16}$ " x  $3\frac{11}{16}$ ". **8.23**  
6N5411—Shipping weight 9 lbs.



### UTC VARIABLE INDUCTORS

Specially designed for use in tuned audio circuits. Adjustment of set screw on side of case permits a change in inductance of plus 90% to -50% from mean value shown. Die cast case  $1\frac{11}{16}$ " long,  $1\frac{1}{4}$ " wide,  $1\frac{1}{8}$ " high. Mounting centers on terminal board side  $\frac{13}{16}$ " by  $\frac{29}{32}$ ". Weight— $5\frac{1}{2}$  ozs.

No.	Type	Mean Hys.	Each	No.	Type	Mean Hys.	Each
6N5444	VI-C1	.0085	<b>6.34</b>	6N5458	VI-C12	1.3	<b>8.07</b>
6N5445	VI-C2	.013		6N5457	VI-C13	2.2	
6N5446	VI-C3	.021		6N5458	VI-C14	3.4	
6N5447	VI-C4	.034		6N5459	VI-C15	5.4	
6N5449	VI-C5	.053		6N5460	VI-C16	8.5	
6N5450	VI-C6	.084	6N5461	VI-C17	13.	<b>9.53</b>	
6N5451	VI-C7	.13	6N5462	VI-C18	21.		
6N5452	VI-C8	.21	6N5463	VI-C19	33.		
6N5453	VI-C9	.34	6N5464	VI-C20	52.		
6N5454	VI-C10	.54	<b>8.07</b>	6N5465	VI-C21		83.
6N5455	VI-C11	.85					

## UTC HIPERM ALLOY TRANSFORMERS

Light in weight and small in dimensions, with full dependability and fidelity for all compact service applications. Frequency range  $\pm$  db from 30 to 20,000 cps. All incorporate a Hiperm alloy nickel-iron core and hum balanced coil structure. Rugged die cast case is of high conductivity alloy, finished in black, arranged for mounting with the terminals either up or down. All are  $2\frac{3}{16}$ " L,  $1\frac{1}{16}$ " W,  $3\frac{1}{4}$ " H., and weigh 2 lbs.

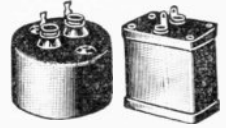


Low Impedance to Grid and Mixing Max. Level +15 DB.

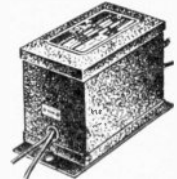
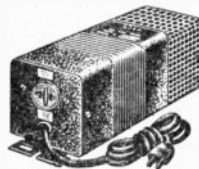
No.	Type	Application	Pri. Imp.	Sec. Imp.	Each
6N5466	HA-100	Mike, pickup, multiple line to grid	50,125,200, 250,333,500/600	60,000 two sections	<b>11.17</b>
6N5467	HA-100X	Same but with tri-alloy internal shield			<b>14.11</b>
6N5468	HA-101	Mike, pickup, multiple line to pp grids	50,125,200, 250,333,500/600	120,000 in two sections	<b>12.94</b>
6N5469	HA-101X	Same but with tri-alloy internal shield		80,000 in two sections	<b>15.88</b>
6N5470	HA-108	Mixing, mike, pickup, or multiple line	50,125,200, 250,333,500/600	500,125,200, 1250,333,500/600	<b>11.17</b>
6N5471	HA-108X	Same but with tri-alloy internal shield			<b>14.11</b>

### UTC TOROID PERMALLOY CHOKES

New Permalloy dust toroid units are used in audio, carrier, and superonic applications requiring high Q and great stability. HOA coils have maximum Q of 200 at 5000 cycles. HOB coils have maximum Q of 200 at 4000 cycles. All coils have extremely low hum pickup, can be spaced closely, are hermetically sealed, and adjusted to 1% tolerance.



No.	Type	Henrys	DC Ma. Max.	Each
6N5434	HOA-2	12.5 Mh.	400	6.86
6N5435	HOA-4	30 Mh.	160	6.35
6N5436	HOA-6	80 Mh.	70	7.84
6N5437	HOA-8	200 Mh.	65	8.82
6N5438	HOA-10	500 Mh.	40	9.80
6N5439	HOA-12	1.25 Hy.	26	<b>10.78</b>
6N5440	HOA-13	2. Hy.	20	<b>10.78</b>
6N5441	HOB-5	.5 Mh.	60	<b>16.66</b>
6N5442	HOB-7	2. Hy.	30	<b>18.62</b>
6N5443	HOB-10	12. Hy.	11	<b>21.56</b>



### SOLA CONSTANT VOLTAGE TRANSFORMERS

Automatic regulation of voltage for all types of electrically operated equipment. They deliver a constant output voltage independent of transient or continuous variations in supply voltage to within  $\pm 1\%$ . Especially recommended for precision laboratory equipment such as photo-electric devices, x-ray equipment, Link trainers, projection equipment, etc. Input 95-125V., 60 cycles, A.C. except those marked with (\*) which have additional input, 190-250 V. Sola transformers are available for 25, 50 cycles. Over 1000 types of Sola transformers are available. If those listed below do not fit your needs, write us for quotations.

Stock No.	Mfrs. Type	Output VA	Output V.	Dimensions Inches	Wt. lbs.	Each
6N1410	301002	15	6.3	$5\frac{1}{16}$ " x $3\frac{1}{2}$ " x $2\frac{1}{2}$ "	$4\frac{1}{2}$	18.50
6N1411	301003	15	115.0	$5\frac{1}{16}$ " x $3\frac{1}{2}$ " x $2\frac{1}{2}$ "	$4\frac{1}{2}$	18.50
6N1412	30488	15	6.0	$5\frac{1}{16}$ " x $2\frac{3}{8}$ " x $3\frac{1}{16}$ "	6	15.00
6N1413	30492	15	6.3	$5\frac{1}{16}$ " x $2\frac{3}{8}$ " x $3\frac{1}{16}$ "	6	15.00
6N1414	30498	15	115.0	$5\frac{1}{16}$ " x $2\frac{3}{8}$ " x $3\frac{1}{16}$ "	6	15.00
6N1415	30804	30	115.0	$8\frac{3}{16}$ " x $4\frac{3}{16}$ " x $4\frac{3}{8}$ "	12	17.00
6N1416	30805	60	115.0	$8\frac{3}{16}$ " x $4\frac{3}{16}$ " x $4\frac{3}{8}$ "	13	24.00
6N1417	30806	120	115.0	$9\frac{1}{16}$ " x $4\frac{3}{16}$ " x $4\frac{3}{8}$ "	17	32.00
6N1418	30886	120	115.0	$11\frac{1}{16}$ " x $4\frac{3}{16}$ " x $4\frac{3}{8}$ "	26	32.00
6N1419	30807	250	115.0	$11\frac{1}{16}$ " x $6\frac{1}{16}$ " x $5\frac{3}{8}$ "	28	52.00
6N1420	30808	500	115.0	$14\frac{1}{2}$ " x $6\frac{1}{16}$ " x $5\frac{3}{8}$ "	40	75.00
6N1421	30809	1000	115.0	$19\frac{1}{2}$ " x $9\frac{1}{2}$ " x $7\frac{1}{8}$ "	110	125.00
6N1422	30811	2000	115.0	$31\frac{1}{2}$ " x $9\frac{1}{2}$ " x $7\frac{1}{8}$ "	205	225.00
*6N1423	30M813	3000	115.0	$44\frac{1}{16}$ " x $10\frac{1}{2}$ " x $9\frac{1}{8}$ "	325	300.80
*6N1424	30M815	5000	115.0	$24\frac{1}{2}$ " x $42\frac{3}{4}$ " x $9\frac{1}{16}$ "	570	475.00



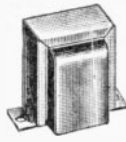
# THORDARSON REPLACEMENT TRANSFORMERS



AGF



PUV



FGV



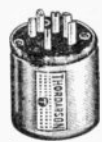
CAV



GGV



RAV



RTV



BAH

## Thordarson Replacement Output Transformers

BAH type mounting, measure 2 3/8" x 1 1/4" x 1 3/8" with 2" mtg. ctrs. Wt. 1/2 lb. except type TS-24S61 which weighs 1 lb. and has mtg. ctrs. of 2 3/8". Class A operation 3-4 ohms secondary.

### Service Output Transformers

No.	Type	Pri. Imp.	Pri. Ma.	Watts	Each
6N1880	TS-24S48*	4-5000	10	1	85¢
6N1881	TS-24S49*	7-8000	10	1	85¢
6N2143	TS-24S50	2000	55	5	82¢
6N2144	TS-24S51	5000	40	5	91¢
6N2145	TS-24S52	7000	30	5	94¢
6N2146	TS-24S54	15000	10	5	97¢

\*Midget Replacement: Measures 2 1/8" x 1 1/8".

### Universal Service Replacements for single and push-pull plates

No.	Type	Pri. Imp.	Pri. Ma.	Sec.	Watts	Each
6N2147	TS-24S60	4M, 7M, 8M, 10M,	35	.1 to .29	4	1.41
6N2148	TS-24S61	14M, C.T.	40	ohms	8	1.53

## Universal Replacement Power Transformers

Adjustable mounting brackets. All leads RMA color-coded. 117V 50-60 cycle input.

AGF Mtg. Stock No.	GGV Mtg. Stock No.	Thord. Type No.	Plate Voltage	MA	Rect. Fil.	Fil. No. 2	Each
6N1882	6N1883	TS-24R00*	240-0-240	40	5V-2A	6.3V.C.T.-2A	2.88
6N1884	6N1885	TS-24R01*	325-0-325	40	5V-2A	6.3V.C.T.-2A	3.03
6N1886	6N1887	TS-24R02*	350-0-350	70	5V-2A	6.3V.C.T.-2.5A	3.67
6N1888	6N1889	TS-24R04*	350-0-350	90	5V-3A	6.3V.C.T.-3.5A	3.97
6N1890	6N1891	TS-24R05*	350-0-350	120	5V-3A	6.3V.C.T.-4.7A	4.50
6N1892	6N1893	TS-24R06*	375-0-375	150	5V-3A	6.3V.C.T.-4.7A	5.32
6N1894	6N1895	TS-24R07*	400-0-400	200	5V-3A	6.3V.C.T.-5A	7.06
6N2088	.....	T-2R207	350-0-350	200	5V-3A	6.3V.C.T.-6A	7.29
.....	6N2098	T-2R232	350-0-350	110	5V-2A	6.3V.C.T.-3A	6.26

\*Thordarson Type No. shown is for AGF mtg. For GGV mtg., add "U".

## AUDIO INTERSTATE TRANSFORMERS

No.	Type	Mtg.	Application	Ratio	Each
6N2008	T20A16	BAH	Sgl. pl. to sgl. or PP grids	1:2	1.70
6N2009	T20A17	FGV	Sgl. pl. to sgl. or PP grids	1:2	2.23
6N2010	T20A19	BAH	Sgl. or PP pl. to sgl. or PP grids	1:3	2.09
6N2011	T20A22	BAH	Sgl. pl. to sgl. or PP grids	1:3	2.50
6N2012	T20A23	FGV	Sgl. pl. to sgl. or PP grids	1:3	2.70
6N2013	T20A24	FGV	PP plates to PP grids	1:3	2.94
6N2014	T20A25*	RTV	Sgl. or PP pl. to sgl. or PP grids	1:1.41	5.88

\*Fully potted; hum-bucking coil and core.

## UNIVERSAL CHOKES

Newly designed Universal Chokes replace swinging or smoothing types. Voltage regulation not affected. Provides more inductance throughout current range decreasing ripple voltage. \*Tuned audio circuit reactor.

Stock No.	Type No.	Inductance Hy.		Current MA		DC Ohms	Mtg. Type	Each
		Rated	Max.	Rated	Max.			
6N2015	T20C50	350	75	5	25	5500	BAH	2.03
6N2016	T20C51	35	15	15	25	1850	BAH	1.35
6N2017	T20C52	8	4	40	65	450	BAH	1.29
6N2018	T20C53	12	8	80	100	375	BAH	1.79
6N2019	T20C54	8	4	150	200	145	GGV	2.88
6N2020	T20C55	8	2	200	300	75	GGV	3.73
6N2021	T20C56	7	4	300	375	60	GGV	5.23
6N2022	T20C57	10	6	500	600	65	PUV	20.29
6N2023	T20C58*	.75	.75	0	10	30	BAH	1.35

## DRIVER TRANSFORMERS

Stock No.	Type No.	Input Tubes	Output Tubes	Ratio	Pri. MA	Mtg. Type	Each
6N2028	T20D75	1-30, 1-49, 1-6C5, 1H4 (single pl.)	1J6, 19, 2-30, 2-49 (class B)	2.4:1	3	BAH	1.62
6N2029	T20D76	1-6N7, 6A6, 53, 1-76 (sgl. pl.)	1-6N7, 6A6, 53 (class B)	5.2:1	7	BAH	1.70
6N2030	T20D77	1-89, 6F6, triode 1-6C5 (sgl. pl.)	79, 2-46, 59 (class B) 25L6 2-6F6 (class AB <sub>2</sub> )	2.5:1	30	FGV	2.53
6N2031	T20D78	2-6F6, Triode 2-6A6, S3	2-6L6 (class AB <sub>2</sub> ) 2-6N7 (class B)	4:1	40	GGV	3.38
6N2032	T20D79	2-6N7 (sgl. or PP pri.)	2-6N7 (PP class B grids)	5.2:1	30	FGV	2.88

## DUAL TONE CONTROL

An effective tone compensating network for sound systems. Treble and bass frequencies attenuated or accentuated independently. For smooth control over wide range of audio frequencies. T20C74 Tone Control Choke with Hum-bucking Coil and Core. DC ohms 220. Test volts 500. Mtg. Type RAV.

6N2027..... 2.70  
R1068-X Dual Tone Control Potentiometer for above circuit.  
6N2149..... 2.44

## FEEDBACK CONTROL TRANSFORMER

T20A26 is the control element in a variable audio inverse feedback system, basis of compressor-expander circuit. Variable gain is produced by automatically controlling inverse feedback voltage. Superior to DC grid bias control, response faster, harmonic distortion does not rise. Transformer comes with complete details on 10-Watt hi-fidelity amplifier incorporating above circuit. Mtg. type RTV.

6N2026..... 5.59

## VIBRATOR POWER TRANSFORMERS

No.	Type	Primary	Secondary	Mtg. Type	Each
6N2093	T22R20	6-8V DC	250v DC 50 ma	CAV	3.73
6N2094	T22R22	6-8V DC	325v DC 75 ma	CAV	4.41
6N2095	T22R24	117V AC	325v DC 135 ma & 6.3v CT 4.75A	GGV	8.47

## AUDIO INPUT TRANSFORMERS

Stock No.	Type No.	Mtg. Type	Application	Turns Ratio	Each
6N2000	T20A00	BAH	Line or mic. to single or PP grids	1:10	1.85
6N2001	T20A01	FGV	Line or mic. to single or PP grids	1:20	2.70
6N2002	T20A02	FGV	Line or mic. to PP grids	1:20	2.85
6N2005	T20A05	RTV	Line to PP grid mic. to single or PP grids	1:10	6.23
6N2004	T20A04	BAH	V.C. or low imp. mic. to grid	1:80	1.70

### Transceiver Transformer

Stock No.	Type No.	Mtg. Type	Application	Turns Ratio	Each
6N2003	T20A03	BAH	Single pl. to grid Line or mic. to grid	1:3.25 1:35	2.38

## OUTPUT TRANSFORMERS

### Low Level Output Transformers (BAH)

Stock No.	Type No.	Application	Pri. Imp.	Sec. Imp.	Power Output	Each
6N2103	T22S45	Sgl Pl to VC	1500 to 3000	3.2 to 4	3	1.35
6N2105	T22S47		6000 to 12000CT	3.2 to 4	3	1.62
6N2107	T22S56	Sgl. & PP	8000 to 10000CT	3.2 to 4	8	2.44
6N2108	T22S58	Pl to VC	5000 to 7000CT	6 to 8	8	2.44
6N2109	T22S60		2500 to 4000CT	6 to 8	8	2.53
6N2127*	T22S90	Sgl or PP Pl	20000CT	125-200-500 to 600CT	3	3.17

\*Type FGV Mounting.

### Special Duty Hi-Level Output Transformers (GGV)

6N2111	T22S84		10000CT		25	4.23
6N2112	T22S86		8000CT	3.2 to 4	25	4.23
6N2113	T22S88	Sgl & PP Pl to Line & VC	6500CT	6 to 8-	25	4.41
6N2114	T22S70		5000CT	15-250-500	25	4.53
6N2115	T22S72		3000CT		25	4.53
6N2118	T22S78		3300CT		60	6.44

### Universal Replacement to Multiple Voice Coil (BAH)

6N2116	T22S74	Sgl or PP Pl to VC	14000-10000-8000-6600-5000-3000-2500 CT	1 to 30	25	3.73
6N2110	T22S82	Sgl Pl to VC	4000-3000-2500-2000-1500	1 to 30	8	2.50
6N2124	T22S86	Sgl Pl or	14000CT-8000CT	3.2 to 4	3	1.85
6N2125	T22S87	PP Pl to VC	3500-2000	6 to 8	6	2.03
6N2126	T22S88			6 to 8	8	2.20

### Matching Line or Lines to Voice Coil (BAH)

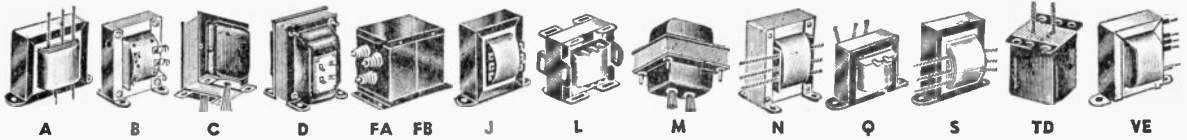
6N2119	T22S80	Sgl Line to VC	500 to 600		8	2.59
6N2120	T22S82	Multiple			25	4.20
6N2121	T22S83	Lines to	2000-1500-	3.2 to 4	15	3.23
6N2122	T22S84	VC	1000-500	6 to 8-15	5	2.65
6N2123	T22S85				3	2.41

## FILAMENT TRANSFORMERS

These excellent quality filament transformers are wound with a single secondary. Carefully designed for improved voltage regulation and minimum heat rise. Rated for continuous operation at peak load; 117 volts, 50/60 cycles. Insulated for 1600 volts RMS.

No.	Type	Secondary		Dimensions HxWxD	Mtg.	Lbs.	Each
		V	Amps.				
6N2045	T-21F08	6.3CT	1	2x2 3/4 x 1 1/2	BAH	3/4	1.85
6N2046	T-21F10	6.3CT	3	2x3 1/2 x 1 1/2	BAH	1	2.44
6N2047	T-21F11	6.3CT	6	3 1/2 x 2 1/2 x 2 1/2	CAV	2 1/2	3.62
6N2048	T-21F12	6.3CT	10	3 1/2 x 2 1/2 x 2 1/2	CAV	2 3/4	3.56

# STANCOR REPLACEMENT TRANSFORMERS



## UNIVERSAL OUTPUT

No.	Type	Application	Mtg.	Each
6N1675	A-3856	Sgl or PP Pl (4M to 14M) to VC.	Q	1.53
6N1663	A-3822	Sgl Pl (7M to 10M) to VC.	Q	1.29
6N1637	A-3823	Sgl or PP Pl (4M to 14M) to VC.	Q	1.62
6N1671	A-3850	Sgl or PP Pl (4M to 14M) to VC.	J	1.73
6N1670	A-3849	Sgl Pl (1,500 to 10M) to VC.	Q	1.53
6N1763	A-3880	PP Pl (4M to 14M) to VC.	Q	2.88
6N1574	A-2855	PP Pl (4M to 14M) to VC.	Q	2.47
6N1678	A-3890	PP Pl (4M to 14M) to VC.	TD	3.82
6N1673	A-3852	PP Pl (4M to 14M) to VC.	J	2.09
6N1666	A-3830	PP Pl (3M to 10M) to VC.	J	2.88

## FIXED OUTPUT TRANSFORMERS

Single Plate to Voice Coil. Class A.

No.	Type	Impedance in Ohms		Max. Watts	Mtg.	Each
		Pri.	Sec.			
6N1677	A-3865	1,500	6, 4, 2	5	A	1.38
6N1578	A-3330	2,000	3.5	5	A	1.23
6N1640	A-3876	2,000	4	5	A	1.03
6N1576	A-3328	4,000	3.5	3	A	.85
6N1571	A-2203	4,000	8	5	A	1.50
6N1645	A-3877	5,000	4	5	A	1.09
6N1659	A-3310	5,000	500, 15, 8, 4	20	C	4.09
6N1646	A-3878	7,000	4	5	A	1.06
6N1573	A-2313	7,000	8	10	A	1.59
6N1577	A-3329	8,000	3.5	3	A	.85
6N1648	A-3879	10,000	4	5	A	1.03
6N1575	A-3327	25,000	4	5	A	1.00

Push-Pull Plates to Voice Coil. All are Class AB except †—AB1.

No.	Type	Impedance	Max. Watts	Mtg.	Each	
6N1762	A-3872	5,000	15, 8, 4	18	TD	3.53
6N1661	A-3800	5,000	500, 250, 15, 8, 4	30	C	4.65
6N1662	A-3801†	6,600	500, 250, 15, 8, 4	35	C	5.41
6N1647	A-2201	8,000	6	10	A	1.82
6N1657	A-3304	10,000/7,000	500, 15, 8, 4	25	C	4.23
6N1660	A-3311	10,000	500, 15, 8, 4	25	C	4.41
6N1667	A-3831	10,000	8, 4, 2	5	A	1.59
6N1572	A-2312	14,000	4	10	A	1.65
6N1676	A-3857	25,000	4	5	A	1.32

## AUDIO TUBE TO LINE

No.	Type	Application	Impedance Ohms	Mtg.	Ea.
6N1599	A-3250	Sgl Pl or PP Pl to line	Pri—20M, 10M, 5M. Pri—20M CT. Sec—500, 333, 200, 125, 50.	Q	2.65

## AUDIO LINE TO VOICE COIL

No.	Type	Watts	Impedance Ohms	Mtg.	Ea.
6N1764	A-3882	25	Pri—500, 333, 250. Sec—15, 8, 4.	D	4.26
6N1765	A-3883	25	Pri—500. Sec—15, 8, 6, 4.	J	2.29
6N1595	A-3837*	15	Pri—500. Sec—8, 4, 2.65, 2.35, 2, 1.5, .7, .5, .3, .2, .1, .05.	J	2.94
6N1636	A-7949	12	Pri—2M, 1500, 1M, 500. Sec—6.8.	J	2.03

\*Designed to operate one or more speakers in parallel across a 500 ohm line. For line to line or line to V.C.

## INPUT TRANSFORMERS

Intercommunicator and Transceiver.

No.	Type	Impedance	Mtg.	HxWxD	Each
6N1693	A-4744	Pri—4, Sec—25,000	VE	1 3/8 x 2 3/8 x 1 1/2"	1.44
6N1643	A-3833	Pri—200 and 5,000 Sec—60,000	A	1 3/8 x 2 3/8 x 1 1/2"	2.00

## INTERSTAGE TRANSFORMERS

PUSH-PULL INPUT. Single Plate (7,000 to 20,000 ohms) to push-pull class "A" grid. All pri. are rated at 10MA-DC except A-4206 which is 15MA.

No.	Type	Mtg.	Ratio	HxWxD	Each
6N1619	A-52-C	A	2:1	1 3/8 x 2 3/8 x 1 3/8"	1.44
6N1691	A-53-C	A	3:1	1 3/8 x 2 3/8 x 1 3/8"	1.44
6N1690	A-63-C	A	3:1	1 3/8 x 2 3/8 x 1 3/8"	1.56
6N1654	A-73-C	A	3:1	2 x 3 1/4 x 1 3/8"	1.88
6N1589	A-4206*	C	3.25:1	3 1/2 x 2 3/8 x 2 3/8"	4.41

\*Has a pie-wound split secondary.

## REPLACEMENT POWER TRANSFORMERS

Most popular sizes and ratings of 2.5 and 6.3 volt types are represented below. All high voltage secondaries are CT.

Combination Plate and Filament Supply, Type "M" mounting.

No.	Type	Plate		Rec. Fil.		Amp. Fil.		Mtg. Area	Wt. Lb.	Ea.
		V	DC ma	V	Amp.	V	Amp.			
6N1706	P-6001	650	40	5.0CT	2.0	2.5CT	4.0	3x2 3/8"	3	3.53
6N1715	P-6005	700	70	5.0CT	3.0	2.5CT	9.0	3 3/8 x 4 1/4"	5	4.56
6N1716	P-6004	700	90	5.0CT	3.0	2.5CT	12.5	3 3/4 x 3"	4	4.56
6N1714	P-6006	700	120	5.0CT	3.0	2.5CT	12.5	3 3/4 x 3 3/8"	6	6.23
6N1785	P-6289	420	40	5.0CT	2.0	2.5CT	3.5	2 3/4 x 3"	3	4.12
6N1735	P-6297	480	40	5.0CT	2.0	6.3CT	2.0	3x3 1/8"	3	3.97
6N1720	P-6010	650	40	5.0CT	3.0	6.3CT	2.0	3x2 3/4"	2	3.38
6N1786	P-6119	600	55	5.0CT	2.0	6.3CT	2.7	3x2 3/8"	3	4.06
6N1746	P-6348	480	60	5.0CT	3.0	6.3CT	2.75	2 1/2 x 2 3/4"	2	3.50
6N1787	P-6120	630	70	5.0CT	3.0	6.3CT	3.5	3 3/8 x 3 3/8"	4	4.53
6N1721	P-6011	700	70	5.0CT	3.0	6.3CT	2.5	3x3 1/8"	4	4.29
6N1741	P-6312	580	90	5.0CT	3.0	6.3CT	2.8	3 3/8 x 3 3/8"	4	4.94
6N1722	P-6012	700	90	5.0CT	3.0	6.3CT	3.5	3 3/8 x 3 3/8"	4	5.03
6N1723	P-6013	700	120	5.0CT	3.0	6.3CT	4.7	3 3/4 x 3 3/8"	5	6.53
6N1743	P-6313	580	125	5.0CT	3.0	6.3CT	4.5	4 3/8 x 3 3/8"	6	5.59
6N1724	P-6014	750	150	5.0CT	3.0	6.3CT	5.0	3 3/4 x 3 3/8"	6	6.17
6N1744	P-6314	700	200	5.0CT	3.0	6.3CT	5.5	4 1/2 x 3 3/8"	8	7.23
6N1726	P-6165	800	200	5.0CT	4.0	6.3CT	5.5	4 1/2 x 4 1/2"	9	7.38
6N1745	P-6315	740	275	5.0CT	3.0	6.3CT	7.0	4 3/4 x 4 1/4"	9	9.41

## FILAMENT TRANSFORMERS

A wide range of voltage and current ratings is available for use with the commonly used types of receiving and transmitting tubes. Each transformer is designed to provide the best voltage regulation commensurate with its secondary current rating and physical size. All Primaries 115 Volts 60 Cycles. All are 2500 volt insulation except \*7500 V., †10,000 V., ‡5000 V.

No.	Type	Secondary		Dimensions HxWxD	Mtg.	Lbs.	Ea.
		V	Amps.				
6N1728	P-6133*	2.5 CT	5	2 1/4 x 3 1/8 x 2 1/4"	S	1.5	2.65
6N1711	P-4083	2.5 CT	6	3 3/8 x 2 3/8 x 2 3/8"	C	2	3.82
6N1707	P-3024	2.5 CT	10	3 3/8 x 2 3/8 x 2 3/8"	C	2.5	3.67
6N1774	P-3060†	2.5 CT	10	3 1/2 x 2 3/8 x 2 1/2"	B	2.5	3.35
6N1708	P-3026	5 CT	3	3 3/8 x 2 3/8 x 2 3/8"	C	2	3.53
6N1790	P-4088	5 CT	3	3 3/8 x 2 3/8 x 2 3/8"	B	2	2.82
6N1709	P-3062	5 CT	6	3 3/8 x 2 3/8 x 2 3/8"	B	2	3.23
6N1730	P-6135	5 CT	10	3 3/8 x 2 3/8 x 2 3/8"	N	3	3.53
6N1729	P-6134	6.3 CT	1.2	1 5/8 x 2 3/8 x 1 1/8"	A	1	1.56
6N1779	P-5014	6.3 CT	3	3 3/8 x 2 3/8 x 2 3/8"	B	2	2.65
6N1710	P-4019	6.3 CT	4	3 3/8 x 2 3/8 x 2 3/8"	C	3	3.38
6N1775	P-3064	6.3 CT	6	3 3/8 x 2 3/8 x 2 3/8"	B	2	3.23
6N1788	P-4089	6.3 CT	6	3 3/8 x 3 x 3 3/8"	C	3.5	3.82
6N1740	P-6308	6.3 CT	10	3 3/8 x 2 3/8 x 2 3/8"	N	3.5	3.76
6N1780	P-5015	7.5 CT	4	3 3/8 x 2 3/8 x 2 3/8"	E	3	2.65
6N1782	P-6138	7.5 CT	8	3 3/8 x 2 3/8 x 2 3/8"	N	5	4.47
6N1789	P-4093†	7.5 CT	24	5 1/8 x 4 1/4 x 10"	FB	21	14.70
6N1732	P-6139	10 CT	8	3 3/8 x 3 3/8 x 3 3/8"	N	5	4.38
6N1725	P-4097	10 CT	8	4x3 1/4 x 3 3/8"	C	5	5.00

## DC FILTER CHOKES

All are Type A Mtg. except \*L, †TD.

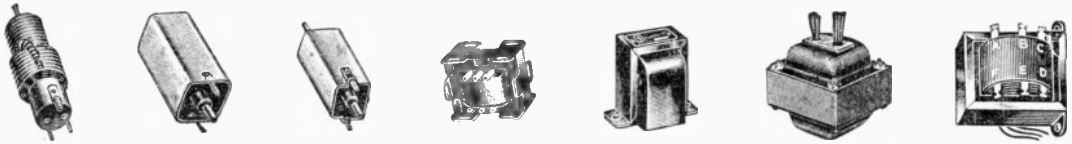
No.	Type	Hys.	Mn.	Ohms	HxWxD	Ea.
6N1856	C-1515	20	15	900	1 5/8 x 2 3/8 x 1 1/2"	1.06
6N1699	C-1707	7	50	550	1 3/8 x 2 3/8 x 1 3/8"	.94
6N1623	C-1003	16	50	580	2x3 1/4 x 1 3/8"	1.26
6N1700	C-1708	13	65	500	2x3 1/4 x 1 3/8"	1.38
6N1852	C-1355*	8	75	290	2 1/4 x 2 3/8 x 1 3/8"	1.47
6N1624	C-1002	15	75	400	2 1/4 x 3 3/8 x 2 1/4"	1.73
6N1701	C-1709	8	65	250	2x3 1/4 x 2"	1.62
6N1585	C-2305†	5	100	300	2 1/4 x 2 3/8 x 2 3/8"	2.35
6N1625	C-1001	10.5	110	225	2 3/8 x 4x2 1/4"	2.18
6N1584	C-2304	2.3	150	60	2x3 1/4 x 1 3/8"	1.53
6N1586	C-2309	3	150	90	2 1/4 x 3 3/8 x 2 1/4"	1.65
6N1702	C-1710	7	150	200	1 5/8 x 4x2 3/4"	2.06
6N1694	C-1080	3.5	50	200	1 5/8 x 2 3/8 x 1 1/2"	1.00
6N1696	C-1279	8.5	50	400	1 5/8 x 2 3/8 x 1 1/2"	1.03
6N1813	C-1333	8	50	450	1 5/8 x 2 3/8 x 1 1/2"	1.06

Free Stancor Catalog lists over 400 items, including audio and power transformers and reactors, power packs, radio transmitter kits and television components, for replacement and general purpose work. FREE 23N19969.



# TELEVISION REPLACEMENT PARTS

GENUINE  PARTS



## RCA TELEVISION IF AND VIDEO COIL KIT

Contains all coils necessary to build the picture, sound, and video circuits of a high quality television receiver. Shown below in tabular listing. RCA No. 204X1.

12N10156..... **11.47**

No.	RCA Type	No. in Kit	Description	Each
12N10157	201K1	2	Sound IF Transformer	1.29
12N10158	202K1	1	Converter Transformer	1.29
12N10159	202K2	1	1st PIX IF	1.38
12N10160	202K3	1	2nd PIX IF	1.06
12N10161	202K4	1	Cathode Trap	1.29
12N10162	203K1	1	Discriminator Transformer	1.62
12N10163	202L1	2	3rd and 4th PIX IF	.38
12N10164	203L1	1	Video Series Peaking Coil	.26
12N10165	203L2	1	Video Shunt Peaking Coil	.26
12N10166	203L3	2	Video Series Peaking Coil	.26
12N10167	203L4	2	Video Shunt Peaking Coil	.26

**Deflection Yoke Type 201D1** for use with direct viewing kinescopes requiring 50° magnetic deflection, such as RCA 7DP4 and 10BP4. Performance checked to close linearity limits. Provides required retraced time when used with typical deflection circuits using RCA Horizontal output transformer 211T1, 204T3 or 204T1 and Vertical output transformer 204T2.

6N5977..... Each **4.41**

**Focus Coil Type 202D1** for magnetically focused kinescopes having deflection angles up to 50° such as the RCA 10BP4. Large conductor size for corrosion-free operation.

6N5983..... Each **4.41**

**Horizontal Output Transformers Type 211T1** for use with deflection yoke type 201D1 and with direct viewing tubes such as 7DP4 and 10BP4. Auto-transformer primary provides voltage for pulse rectifier to supply kinescope anode potential. Filament winding for pulse rectifier is included. Secondary is tapped for connecting width control.

6N5975..... Each **5.59**

## TV PARTS FOR TRANSMITTING STATIONS

**TYPE 201D11 DEFLECTING YOKE.** For use with 5WP15 Flying Spot CR tube and 5WP11 Transcriber Kinescope.

6N6019..... **10.29**

**TYPE 201D75 DEFLECTING YOKE ASSEMBLY.** Includes keyed Jumbo Annular 7-pin socket. For use with Image Orthicons, types 5655, 2P23 and 5769.

6N6014..... **182.77**

**TYPE 201D76 DEFLECTING YOKE.** For type 1850-A Iconoscope.

6N6015..... **94.57**

**TYPE 201D77 DEFLECTING YOKE.** For type 2F21 Monoscope.

6N6016..... **80.36**

**TYPE 202D75 FOCUSING COIL.** For Image Orthicons, types 2P23, 5655 and 5769.

6N6017..... **104.37**

**TYPE 204D75 ALIGNMENT COIL ASSEMBLY.** For Image Orthicons, types 2P23, 5655 and 5769.

6N6018..... **48.51**

**TYPE 204T1 HORIZONTAL OUTPUT TRANSFORMER.** For deflection circuits using RF operated high voltage supplies. For RCA Image Orthicons (2P23, 5655, 5769), Flying Spot CR Tube (5WP15), and Transcriber Kinescope (5WP11). Used with RCA Deflecting Yokes 201D1, 201D2 or 201D3.

6N5985..... **11.76**

**Ion-trap Magnet Type 203D1.** A necessity wherever kinescopes with ion-trap guns are used. Construction is fool-proof—only two coils and a padded mounting yoke. Prevents ions from bombarding the sensitive kinescope screen.

6N5984..... Each **3.82**

Write for full information on these and other Television components you may require.

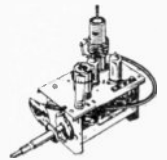
No.	RCA Type	Description	Each
6N5978	201D2	Deflecting Yoke	7.64
6N6002	201D3	Deflecting Yoke	8.76
6N6003	201D12†	Deflecting Yoke	4.41
6N5979	201R1	Width Control	.41
6N5980	201R2	Width Control	1.29
6N5981	201R3	Horizontal Linearity Control	.47
6N5877	201R4*	Width Control	.59
6N5878	201R5*	Horizontal Linearity Control	.71
6N6004	201T6†	Power Transformer (30-tube)	15.29
6N6005	201T7†	Power Transformer (24-tube)	12.35
6N6006	201T8†	Power Transformer (21-tube)	11.17
6N6007	201T9*	Power Transformer (27-tube)	12.35
6N6008	201T10*	Power Transformer (27-tube)	12.35
6N5982	201X1	Yoke Mounting Hood	.76
6N5876	202D2*	Focus Coil	6.47
6N6009	203D3†	Ion-Trap Magnet (PM type)	1.23
6N6010	203R1†	Hor. Osc. & Sync. Control Coil	1.06
12N10168	204L1	Filament Choke	.12
6N5986	204T2†	Vertical Output Transformer	2.94
6N5970	204T3	Horizontal Output	7.06
6N6011	204T9†	Vertical Defl. Output Transf.	2.65
6N5971	208T1†	Horizontal Block, Osc. Transf.	2.29
6N5972	208T2†	Vertical Block, Osc. Transf.	1.62
6N5973	208T3	Horizontal Block, Osc. Transf.	1.62
6N5974	208T8†	Horizontal Sync-Disc. Transf.	1.35
6N6012	208T9†	Ver. Blocking Osc. Transformer	1.47
6N5976	211T2	Horizontal Output Transformer	11.17
6N6013	211T3	Hor. Defl. Output & HV Transf.	5.99
6N5875	211T5*	Hor. Defl. Output & HV Transf.	7.35

\* For 16" set using 16AP4 TV Tube.  
† Used with both 16AP4 and 10BP4 Tubes.

## RCA FRONT END TUNER

**Type 201E1.** Designed especially for use with stagger tuned IF's. Handles all 12 TV channels and selects desired picture and sound carriers. Tuner includes RF amplifier stage, converter stage, oscillator stage, fine tuning control, channel switch, converter transformer and all their aligning adjustments. Units are mounted and aligned. Mount on 4" chassis.

31N24437—With Tubes, Wt. 4 lbs. **37.63**



## RCA TV DATA BOOK

Advanced study guide for TV servicing. Authoritative, easy to follow alignment procedures, circuit and service data. Diagrams, photos, parts list. Includes RCA 630TS & 648 PTK drawings.

23N19904—Approx. 100 pages..... **1.50**

## RCA TELEVISION COMPONENTS BOOK

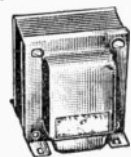
32 page booklet gives complete technical, installation and application data on RCA TV components for use with 16AP4. Includes schematic diagram and parts list of deflection and HV circuit fully described in 4 page section.

23N19903..... **.25**

## TV POWER TRANSFORMER

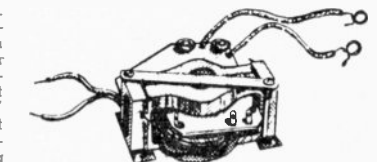
A top quality, precision made television power transformer with a rating of 2200 volts at 2 MA. Filament voltages are: 6.3 volts at 1 amp. and 2.5 volts at 2 amps. Upright mounting. Shipping weight 2½ lbs.

6N1501..... **3.75**



## HIGH VOLTAGE FLYBACK

Similar to RCA type 211T1. Horizontal deflection output transformer used with deflecting yoke 201D1 or 201D3. Provides approximately 9 KV for excellent picture brilliance in a 10" 10" or 12" tube. Filament winding included. Secondary tapped for connecting type 201R1 width control.



Powdered iron core insures quiet operation.

6N5889..... **3.45**

## 16-INCH FLYBACK

Similar to RCA type 211T5. Designed for use in pulse operated power supplies with no load kinescope anode potentials up to 13.5 KV. Ideally suited for conversion of 10 inch and 12 inch TV sets to the 16 inch size.

6N5888..... **3.90**

## REPLACEMENT PARTS FOR TRANSVISION SETS

Stock No.	Part No.	Description	Each
6N10220	16	250 MicroH. Video Peaking Coil	.38
6N10221	17	73 MicroH. Video Peaking Coil	.38
6N10222	174	1st Pix IF, Trap 21.9-27.9 MC	1.32
6N10223	174	3rd Pix IF, Trap 21.9 MC	1.32
6N10224	175	2nd Pix IF, Sound 21.9 MC	1.59
6N10225	176	4th Pix IF, Fixed	1.32
6N10226	177 & 318	Sound IF, 21.9 MC	1.47
6N10227	317	Sound Discriminator, 21.9 MC	1.62
6N10228	319	500 MicroH. Video Peaking Coil	.38
6N10230	365	Slug Coil	.44
6N5889	308	9 KV Hor. HV Output (Flyback)	3.45

# ANTENNA - IF - RF - OSCILLATOR COILS

## MEISSNER COILS



### "PLASTIC" IF TRANSFORMERS

Trimmer base and coil form are moulded in one piece. Trimmers "floated" away from the base with an air gap between the bottom plate and the plastic base. Wide range Frequency adjustable either side of Pre-set frequency, double-tuned. Metal shield can and Litz wire. Unaffected by temperature or humidity. Size 1 1/4" square by 2 1/2" high.

INPUT			OUTPUT		
No.	Type	Set at	Type	No.	
12N10373	16-6649	175 KC	16-6651	12N10375	} <b>82c</b>
12N10376	16-6652	262 KC	16-6654	12N10378	
12N10382	16-6658	456 KC	16-6660	12N10384	

### HI Q IRON CORE "PLASTIC" IFs

12N10152	Type 16-6662	Input, peaked at 455 KC.....	<b>1.23</b>
12N10153	Type 16-6663	Output, peaked at 455 KC.....	<b>1.23</b>

### "TWEET" FILTER OUTPUT IF

Type 16-6670. New output transformer with built-in "tweet" filter in secondary circuit. For replacement use in late model receivers that have "tweet" filter enclosed in IF output shield. Plastic, air-core construction. Shield can 1 1/4x1 1/4x2 1/2". Spade bolt mtg. on 1 3/16" centers.

12N10154..... **1.32**

### FM IF AND DISCRIMINATOR TRANSFORMERS

Model 16-6665 IF Transformer. For the new ultra-high FM frequencies. Permeability tuned to 10.7 MC. Mounted in rectangular shield can measuring 1 7/16"x7/8"x1 29/32" with screw type mtg. lugs.

12N10329—Shpg. wt. 8 oz..... **1.73**

Model 17-3484 Discriminator Transformer. Permeability tuned to 10.7 megacycles. For use on New FM range. Same size as above.

12N10333—Shpg. wt. 8 oz..... **2.29**

### STANDARD ANTENNA AND RF COILS

Designed to cover the BC band from 545 to 1580 KC (190-550 meters) with a 365 mmfd tuning condenser. High impedance primaries, wound with Litz wire. Shielded coils are in black crackle finished non-magnetic can. 1 7/8" dia., 2 1/2" high.

**UNSHIELDED**  
12N10046—Ant. Coil type 14-1010..... } **56c**  
12N10047—RF Coil type 14-1011..... }

**SHIELDED**  
12N10044—Ant. Coil type 14-1004..... } **73c**  
12N10045—RF Coil type 14-1005..... }

### "UNIVERSAL ADJUSTABLE" UNSHIELDED COILS

Replace BC band coils in most receivers, accurately track other coils when adjusted. Matches inductance of burned out coil with screwdriver adjustment. Osc. Coil adjustable from 175 to 520 KC. For use with either cut plate or padding condenser circuits.

12N10007—type 14-1026 ant..... } **1.03**  
12N10008—type 14-1027 RF..... }  
12N10009—type 14-1028 Osc..... }

### OSCILLATOR COILS FOR 190-550 METER BC BANDS

Used with 365 mmfd. condensers. IF xformers and RF and antenna coils. Shielded type is 1 1/4"x1 1/2". Padders not supplied.

No.	Type	Freq. KC	Padder Mmfd.	Each
*12N10029	14-4242	175	900	<b>79c</b>
*12N10031	14-4243	456	350	
#12N10028	14-3732	175	900	<b>62c</b>
#12N10030	14-4034	456	350	

\* Shielded # Unshielded

### PHONO OSC. COIL FOR WIRELESS RECORD PLAYERS

Type 17-9373 knob adjustment permits selection of clear freq. in BC band.

12N10010—1 3/8" square by 3 1/2" high..... **1.65**

### 456 KC OSC. COIL

Type 14-1033. For type 6SA7. Unshielded, 456 KCIF. Requires 350 mmfd. padder cond. 365 mmfd. tuning cond.

12N10332..... **50c**

### BFO COIL

Type 17-6753. To supply beat note necessary for CW reception. Range, 290-650 KC; peaked at 456 KC. 1 9/8" sq x 3 1/2" high.

12N10171..... **1.44**

## STANWYCK COILS

### MIDGET IF COILS

Iron core 455 KC midgets. Compression tuned, exceptionally high gain due to specially designed powdered iron cores. For general replacement use and new set construction of small AC-DC receivers, auto radios and portables. Overall dimensions of can 3/4" square x 1 7/8" long.

12N10350—Wt. 2 oz..... **97c**

Midget AM Coil similar to above but with the addition of a plastic base with lug terminals and spade bolt mounting lugs.

12N10358—Wt. 2 oz..... **97c**

### MIDGET FM COILS

Newly designed slug tuned FM coils. High quality iron cores assure maximum "Q" and gain when tuned to 10.7 MC. Band width 200 KC peak to peak. Symmetrical response curve. Poly-styrene base, lightweight aluminum can 3/4" square by 1 7/8" high. Spade bolt mounting.

12N10355—Shpg. wt. 2 oz..... **1.23**

FM Discriminator. Tunes to 10.7 MC Bandwidth 330 KC peak to peak (plus or minus 165 KC). Output 9 volts with input of 2 volts. Physical dimensions same as above.

12N10356—Shpg. wt. 2 oz..... **1.41**

FM Ratio Detector. For new FM circuits which eliminate limiter tube. 10.7 MC, band width 330 KC.

12N10357—Shpg. wt. 2 oz..... **1.50**

### FM IF AND DET. COILS

Newly designed Slug Tuned FM coils, maximum "Q" and gain at 10.7 MC. Low loss ceramic and quality iron cores. Response curve symmetrical, extreme stability. Aluminum case. 1 3/8" square by 3".

12N10351..... **1.91**

FM Discriminator same as above electrically and mechanically. Electrically centered secondary gives perfect symmetry between peaks. For 10.7 MC.

12N10352..... **2.15**

FM Ratio Detector coil, same const, as above.

12N10359—Wt. 3 oz..... **2.26**

## CARRON COILS

### UNSHIELDED 456 KC OSCILLATOR COIL

Color coded, dowel type wound with cotton covered enamel wire, dehydrated, treated, flash-dipped.

12N10238—Padder value 360-470 mmfd..... **50c**

### UNSHIELDED UNIVERSAL ADJUSTABLE COILS

Exact inductance of replaced coil covering 550-1715 KC matched easily. Oscillator coil adjustable from 175 to 520 KC. Universal mtg. facilities.

12N10307—Antenna. 12N10309—RF. 12N10310—Osc. Any Type Above, Each..... **73c**

### PEE WEE TYPE ANTENNA AND RF COILS

Secondaries "progressive" wound with Litz wire on 1/2"x1 1/2" impregnated forms. BC band covers 540-1500 KC with 365 mmfd. condenser. Hi impedance primaries and coupling turns, complete with ear plugs and mtg. brackets.

12N10315—Antenna. 12N10316—RF. Each..... **51c**

### RF CHOKES



All purpose RF chokes wound on seatite dowels. Both winding and dowel impregnated, sealed permanently against humidity. Mounted on 6/32" screw placing lugs in easy connecting position.

No.	Induct.	Each	No.	Induct.	Each
12N10208	2.5 mh	<b>29c</b>	12N10211	10.0 mh	40c
12N10209	5.5 mh		12N10212	30.3 mh	44c
12N10210	7.5 mh		12N10213	60.0 mh	51c

### LITZ WOUND ANTENNA AND RF COILS

New type bank winding for practically constant gain and selectivity over BC band. High impedance primaries. Tune 540-1500 KC with 356 mmfd. condenser. Unshielded type have univ. bracket, stand-off mtg. 1 3/4" centers. Size: 1 7/8"x2 1/4".

**SHIELDED TYPE**  
12N10317—Antenna..... } **68c**  
12N10318—RF..... }

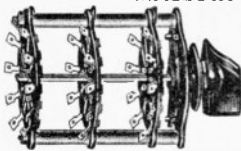
**UNSHIELDED TYPE**  
12N10319—Antenna..... } **50c**  
12N10320—RF..... }

NOTE: SEE PAGE 94 FOR RCA AND OTHER TELEVISION COILS.



# MALLORY & CENTRALAB SWITCHES

## MALLORY GANG SWITCHES



Contact members heavily silver plated, and given a smooth hard finish. Contact shoe, of the self-cleaning type, is of silver alloy. Switches provided with one permanent stop and one adjustable stop. Bushings  $\frac{3}{8}$ " and extend  $\frac{3}{8}$ ". Pointer type, Bakelite knob is supplied also.

Shorting		Non-Shorting		Gangs	Total No. Circuits	Positions Per Cir.	Ea.
Stock No.	Type	Stock No.	Type				
9N6248	1211L	9N6264	1311L	1	1	11	.91
9N6249	1215L*	9N6265	1315L*	1	2	5	.97
9N6250	1213L*	9N6266	1313L*	1	3	3	1.06
9N6261	1212L*	9N6267	1312L*	1	4	2	1.12
9N6253	1221L	9N6269	1321L	2	2	11	1.35
9N6254	1225L*	9N6270	1325L*	2	4	5	1.53
9N6255	1223L*	9N6271	1323L*	2	6	3	1.65
9N6256	1222L*	9N6272	1322L*	2	8	2	1.73
9N6258	1231L	9N6274	1331L	3	3	11	1.82
9N6259	1235L*	9N6275	1335L*	3	6	5	1.94
9N6261	1241L	9N6277	1341L	4	4	11	2.32
9N6262	1245L*	9N6278	1345L*	4	8	5	2.70
9N6281	1261L	9N6283	1361L	6	6	11	3.41
9N6286	1266L	9N6287	1366L	6	12	6	4.35

\* Provided with OFF position.

## "3100" SERIES SINGLE-GANG SELECTOR SWITCHES



Tap and circuit selector switches with same features as gang switches above. For use in many types of test circuits. 2" notched shafts,  $\frac{1}{4}$ " dia. With black bar knob and mounting nut.  $\frac{1}{8}$ " bushings. \*Indicates adj. stop.

Shorting Stock No.	Type	Non Short'g Stock No.	Type	No. of Circuits	Contacts per Cir.	Base Diam.	Each
9N6878	3115J	9N6888	3215J	One	5	1 1/4"	.68
9N6879	31112J	9N6889	32112J	One	12	1 1/4"	.68
9N6890	3122J	9N6890	3222J	Two	2	1 1/4"	.68
9N6891	3123J	9N6891	3223J	Two	3	1 1/4"	.68
9N6890	3126J	9N6892	3226J	Two	6	1 1/4"	.68
9N6881	3134J	9N6893	3234J	Three	4	1 1/4"	.71
9N6882	3142J	9N6894	3242J	Four	2	1 1/4"	.71
9N6883	3143J	9N6895	3243J	Four	3	1 1/4"	.71
9N6884*	31117J	9N6896*	32117J	One	17	1 1/4"	1.06
9N6885*	3129J	9N6897*	3229J	Two	9	1 1/4"	1.06
9N6886*	3136J	9N6898*	3236J	Three	6	1 1/4"	1.15
9N6887*	3163J	9N6899*	3263J	Six	3	1 1/4"	1.15

## HARD ALUMINUM ETCHED PLATES

Numbers in white. Fit  $\frac{3}{8}$ " bushings. 30° spacing for all switch types 1200L, 1300L and 1 1/4" base 3100J and 3200J. 20° spacing for all type 3100J, 3200J switches with 1 1/4" base.

Marking	30° Space Cat. No.	20° Space Cat. No.	Marking	30° Space Cat. No.	20° Space Cat. No.
1 to 2	9N6224	.....	Volume	9N6244	.....
1 to 3	9N6225	9N6303	Off-1 to 3	9N6235	9N6313
1 to 4	9N6226	9N6304	Off-1 to 4	9N6236	9N6314
1 to 5	9N6227	9N6305	Off-1 to 5	9N6237	9N6315
1 to 6	9N6228	9N6306	Off-1 to 6	9N6238	9N6316
1 to 7	9N6229	9N6307	Off-1 to 7	9N6239	9N6317
1 to 8	9N6230	9N6308	Off-1 to 8	9N6240	9N6318
1 to 9	9N6231	9N6309	Off-1 to 9	9N6241	9N6319
1 to 10	9N6232	9N6310	Off-1 to 10	9N6242	9N6320
1 to 11	9N6233	9N6311	.....	.....	.....
1 to 12	9N6234	9N6312	Any above, each.....	.....	.....
1 to 15	.....	9N6243	9N6223—"O-100". Each.....	.....	.....

## MALLORY PUSH-BUTTON SWITCHES

Non-locking types with black bakelite knob. For mounting in  $\frac{3}{16}$ " hole, panels up to  $\frac{1}{4}$ ".

No.	Type	Contacts	Cost
9N6460	2001	SPST*	.76
9N6461	2002	SPST	.76
9N6462	2003	SPDT	.82
9N6457	2004	DPST*	.94
9N6463	2006	DPDT	1.15

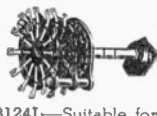
\*Normally open.

## SPECIAL SWITCHES



No. 1400L—12 positions; opens one line at a time while maintaining circuit through others. 1 1/2 x 2 1/2" wide. 3/8" bushing 2" notched shaft. Complete with knob & dial plate. **3.47**

## 24 POINT TAP SWITCH

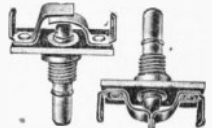


No. 13124L—Suitable for use in test circuits, tube checkers, analyzers. Special single-circuit 24-point non-shorting switch. 3/8" bushing, 2" grooved shaft. Complete with dial plate and bar-type knob. **2.06**

## CENTRALAB ALL-PURPOSE SWITCHES

### MOMENTARY PUSH TYPE

For light duty applications. 1 amp. at 110 v. a.c. Silvered contacts. Insulated 3/8" bushing, 3/8" long. Button extends 3/8" from end of bushing. Available with contacts normally closed or open.



9N12867—Type 1471—Norm. open..... 24¢  
9N12862—Type 1470—Norm. closed..... 24¢

### "POSITIVE" AND "SPRING RETURN"

Lever Action. With knob. Plates available for vertical mounting singly or in groups up to five. 1 1/8" high, 3/8" wide, 1 1/8" deep behind panel. Mtg. centers 1 3/8".

Shorting		Poles	Posi-tions	Action	Non-Shorting	
Stock No.	Type				Stock No.	Type
9N12825	1452	2	3	Positive	9N12799	1454
9N12826	1453	2	3	Spring	9N12800	1455
9N12801	1456	4	2	Spring	9N12802	1457
9N12804	1459	4	2	Positive	9N12803	1458
9N12805	1466	2	3	Pos. Spr.	9N12806	1467



Any Type Above..... **73¢**

## MOUNTING PLATES FOR LEVER SWITCHES

Black trackle finished steel.

Stock No.	Gangs	Dimensions	Each
9N12794	1	2 5/8 x 3/8"	21¢
9N12795	2	1 5/8 x 3/8"	24¢
9N12796	3	2 1/4 x 1 1/2"	29¢
9N12797	4	3 x 2 1/4"	39¢
9N12798	5	3 3/4 x 3"	44¢

## STONE SWITCHES

Rotary action shorting type (except those marked †); have 3/4" dia. bushing with 1/4" insulated steel shaft, 2 1/4" long. No knobs or plates.

Stock No.	Type	Description	Each
9N12768*	1460	S.P. 2 pos.	44¢
9N12769*	1461	S.P. 3 pos.	44¢
9N12770*	1462	D.P. 2 pos.	44¢
9N12820*	1473	D.P. 3 pos.	59¢
9N12771†	1463	S.P. 2 pos.	44¢
9N12772†	1464	D.P. 2 pos.	59¢

\*Pos. action

†Spring return. Non shorting



No. 1465. Single pole, four pos. selector sw. with single pole, single throw AC line sw. attached. Three active pos. and one "off". Pos. index. Shorting contacts. **73¢**

## UNIVERSAL FLAT SWITCHES

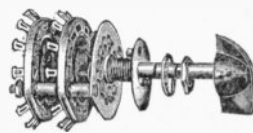
Use many ways, from single pole single throw to 4 pole double throw. Bakelite insulation, non-shorting teeth. Requires 3/8" depth for mounting. With 2 1/4" shaft and bar knob.



9N12764—Type 1450..... **59¢**  
9N12773 With spring return—Type 1451..... **1.03**

## MALLORY 170-C CERAMIC SELECTOR SWITCHES

For radio receivers and low power transmitter circuits. "Snap" indexing assembly with adjustable stop. Heavy silver, plated contacts. With knob.



No.	Type	Gangs	Cir.	Pos.	Each
9N6625	172C	1	1	11	1.32
9N6626	173C	1	2	5	1.32
9N6627	174C	1	3	3	1.32
9N6628	176C	2	1	11	2.06
9N6629	177C	2	2	5	2.06
9N6630	178C	2	3	3	2.06
9N6631	180C	3	1	11	2.94
9N6632	181C	3	2	5	2.94

## MALLORY 160-C CERAMIC SWITCHES

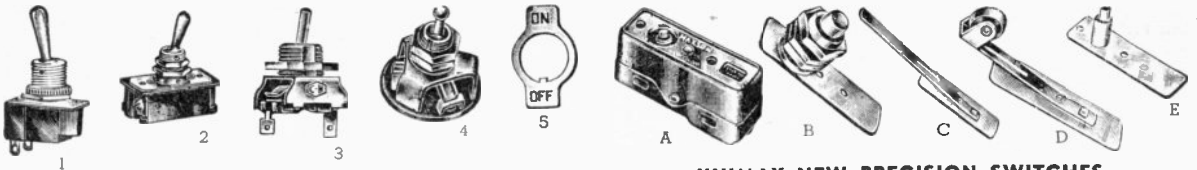


Low loss ceramic insulation, wide contact spacing, improved heavy silver plated contacts. For transmitters with power up to 100 watts. 4 contacts per circ. With knob.

No.	Type	Gangs	Cir.	Each
9N6647	161C	1	1	1.32
9N6643	162C	2	2	2.06
9N6644	163C	3	3	2.94
9N6645	164C	4	4	3.53
9N6646	165C	5	5	4.41

9N6647—Special dial plate for above numbered from 1 to 4. Each..... **12¢**

# SWITCHES FOR EVERY PURPOSE



## CUTLER-HAMMER NEW DESIGN SWITCHES

Approved type with nickel-plated metal parts. Fast action—excellent for appliances, radio receivers, etc. Underwriters Appr. Stem length, fig. 1 and 2, 1 1/2"; fig. 3 and 4, 1 1/4".

Stock No.	Type	Fig.	Poles	Amps @ 125v.	Each	Lots /10 Each	Lots /21 Each
9N12836	8280K16	1	SPST	6	.29	.26	.23
9N12834	8282K14	1	SPDT	3	.35	.31	.28
9N12833	8363K7	1	DPDT	6	.59	.53	.48
9N12817	8360K7	1	DPST	6	.55	.50	.45
9N12813	7321K3	2	SPST	12	.69	.62	.56
9N12814	7320K3	2	DPST	10	.69	.62	.56
9N12837	8097K3	3	SPST	3*	.20	.18	.16
9N12832	7140K6	4	SPDT†		.26	.23	.21

\*Midget Rated AC †With Dead Center Position  
5. On-Off switch plate for toggles. With locating projection.  
9N12818—Each.....3¢ 10 for.....27¢

## HEAVY DUTY SWITCHES

Underwriters approved. Nickel-plated metal parts. Fast action. Handles motor rated 1 hp. at 125/250v. Fig. 2—Stem 1 1/2".

Stock No.	Type	Poles	Amps @ 125v.	Amps @ 250v.	Each	Lots /10 Each	Lots /21 Each
9N12815	7361K5	SPST	15	10	1.10	.99	.89
9N12816	7360K8	DPST	15	10	1.10	.99	.89



## H & H ROTARY PANEL SWITCHES

Rated 3 amps., 125 volts. Approved type. With locknuts. Shaft extends 1"; bushing 3/4" in diameter. With lug terminals.

No.	Type	Each	10 For	No.	Type	Each	10 For
9N12779	S.P.S.T.†	.28	2.52	9N12782	D.P.S.T.*	.63	6.67
9N12693	S.P.S.T.	.35	3.15	9N12783	D.P.D.T.*	.66	5.04
9N12780	S.P.S.T.††	.35	3.15	9N12784	D.P.D.T.*	.64	5.76
9N12781	D.P.S.T.	.52	4.68				

\*Bushings extends 1". Others, 3/8". †3 amp., 250 volt.

## ROTARY SWITCH PLATE

"Off-On" switch plate. Etched aluminum and black. Size: 1"x1 1/4". Clean cut lettering.

9N9657—10 for 85¢. Each..... 9¢

"Off-On" Switch Plate. Etched aluminum, black. 1 1/4"x1 1/4".

9N9859—10 for 85¢. Each..... 9¢



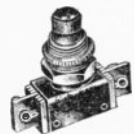
## H & H TWO CIRCUIT PUSH SWITCHES

In normal position, with plunger out, one circuit is "on," and the other "off." When plunger is depressed, circuits are reversed: Slow make, quick break momentary contacts. Rated 1 amp. at 125V. AC. Bushing 1 1/2" dia., 3/8" long.

### METAL PLUNGER

Used on Supreme instruments and other popular makes.

9N12774—Your Cost..... 46¢  
10 For..... 4.14



### BAKELITE TIP

9N12777—Red. } Each..... 57¢ 10 For 5.13  
9N12778—Black. }



### BAKELITE BUTTON

9N12775—Red. } Each..... 50¢  
9N12776—Black. }  
10 For..... (Specify Color)..... 4.50



### BAKELITE KNIFE SWITCHES

Heavily plated metal parts, bakelite base. Single pole types 1 1/2" long; double pole 2 1/2". Excellent for use for switching high and low sections of television antennas.



No.	Type	Each
9N16830	S.P.S.T.	.50
9N16831	S.P.D.T.	.59
9N16832	D.P.S.T.	.68
9N16833	D.P.D.T.	.79
9N16834	3-P.S.T.	1.09
9N16835	3-P.D.T.	1.18
9N16836	4-P.S.T.	1.47
9N16837	4-P.D.T.	1.76

## UNIMAX NEW PRECISION SWITCHES

Actuators attached to removable, interchangeable "adaptaplates". Operating pressure, approx. 8 oz. All units SPDT, except MXO-1, which is SPST. Ratings: 15 amps, 125 volts; 5 amps, 250 volts; 60 cyc. Units vary only in style of actuator.

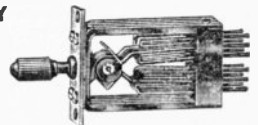
9N12653—MX-1 Basic Pin Type (A)	1.00
9N12654—MXL-1 Leaf Spring Type (C)	1.10
9N12655—MXO-1 Top Reset, Plunger Type (B)	1.10
9N12656—MXU-1 Bottom Reset, Plunger Type (B)	1.10
9N12657—MXT-1 Hinged Leaf Spring Type	1.25
9N12658—MXW-1 Leaf Spring Roller Type (D)	1.40
9N12659—MXO-1 Plunger, Small Spring Type (E)	1.25
9N12660—MXA-1 Hinged Arm, Roller Type	1.60
9N12661—MXY-1 Reverse-Acting, Hinged Type	1.25
9N12662—MXF-1 Reverse-Acting, Hinged Roller Type	1.60
9N12663—MXJ-1 Plunger Type, For Panel	2.25

## UNIMAX DESIGN KIT

Fills many needs in the drafting room, model shop and maintenance dept. Makes available diversified switch types for quick determination of size, shape, mounting and method of actuating, for particular application. Complete with two MX-1 SFDT base switches, one MXT-1 base switch with direct acting hinge arm. Adaptaplates, one style "W" spring plunger with threaded burhing for one hole panel mtg., one "W" leaf spring with steel roller, two "L" standard leaf springs, one "T" direct acting with leaf, one "T" style direct action with roller, roller assembly to fit "L" and "T" adaptaplates. Screws and rivets for attaching a adaptaplates.  
9N12758—Complete..... 3.00

## FEDERAL ANTI-CAPACITY SWITCHES

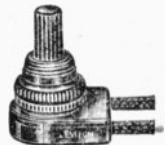
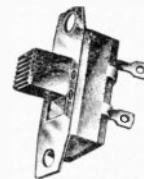
Springs are phosphor bronze silver-plated, actuated by a cam roller. Dimensions: 2 1/2"x5x3/4".



No.	Type	Each	No.	Type	Each
9N12852	D.P.S.T.	1.90	9N12850	4-P.D.T.	2.25
9N12851	D.P.D.T.	1.90			

## CANOPY SWITCH

Rotary type, composition top. Very shallow. Wire leads. Rated 3 amp. at 125 volts.  
9N13342—10 for 1.35..... Each 15¢

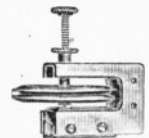


## SLIDE SWITCHES

Compact slide silver plated switches in cadmium steel housings. All rates at 125 V. AC-DC. 1 1/2" mtg. ctrs.

No.	Type	Amp.	Term.	Ea.	No.	Type	Amp.	Term.	Ea.
9N12842	SPST	.75	2	.16	9N12844	DPST	.50	4	.22
9N12843	SPDT	.75	3	.19	9N12840	DPDT	.50	6	.28

## STANDARD MU-SWITCH THERMOSTAT-TYPE SWITCH



Light pressure, quick action precision units. Require only 4 oz. pressure and .001" of movement to operate. Underwriters approved. Rated 15 amps. at 125 volts AC; 1/2 H.P. inductive loads at 125-460 V. AC. Screw terminals with lugs. 1 1/16"x1 1/16"x1 3/16".

No.	Type	Normal	Each
9N12725	SPST	Closed	.90
9N12726	SPST	Open	.90
9N12727	SPDT		1.08

MU switch designed for automatic control of temperature in electrically heated brooders and incubators, or wherever an automatic electric heat control is desired. Maximum efficiency between 80° and 120° F. Has double ether-filled water and adjusting screw. Rated 15 amps. 125 V.; 5 amps. 250 V. AC only. Non-inductive loads.

9N12753..... 1.35



# AMPHENOL AND JOHNSON SOCKETS

## AMPHENOL 78 SERIES STANDARD TUBE SOCKETS



(1): Type RS, for replacement work. Steel adaptor plate for mounting centers from 1 1/2" to 1 7/8". (2): Type S, for new work. Single 1 3/16" hole; firmly held by simple retainer ring. 9 and 11 prong sockets for Amphphenol connectors. 7C fits small & large base tubes.

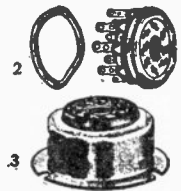


Fig. 1 Type RS	Fig. 2 Type S	Prongs	Ea.
13N13057	13N13207	4	8¢
13N13058	13N13208	5	8¢
13N13059	13N13209	6	8¢
13N13060	13N13210	7S	8¢
13N13061	13N13211	7L	8¢
13N13066	13N13237	7C	10¢
13N13050	13N13212	8 Oct	10¢
13N13040	13N13045	8 lok	13¢
13N13041	13N13213	9	12¢
13N13042	13N13214	11	17¢

(3): RECEPTACLE SHELL: For all type S above except 7L & 7C.  
13N13110—Amphphenol 23-1S Receptacle Shell.....7¢



**AMPHENOL "77-MIP" SERIES SOCKETS**  
Molded from high-dielectric black bakelite, with molded-in plate for 1 1/2" mtg. centers. Superior quality, strong and dependable. Firmly held. Won't rattle or come loose.

No.	Prongs	Each
13N13164	4	7¢
13N13165	5	7¢
13N13166	6	7¢
13N13167	7S	7¢

No.	Prongs	Each
13N13168	7L	8¢
13N13169	8 Oct	8¢
13N13223	9	11¢
13N13224	11	14¢

MIDGET "MIP" SOCKETS: Smaller, with 1 5/16 mtg. centers.  
13N13225—Octal, 8-prong Type 88-8.....8¢  
13N13243—Loktal Type 88-8X.....12¢

## AMPHENOL MINIATURE TUBE SOCKETS



Type 78-7P for all 7-pin miniature tubes. Mounts in 5/8" hole. Retainer ring included. Black bakelite. Requires no mounting screws, nuts, or washers; permits compact layouts.

13N13173—Miniature Tube Socket.....13¢

For Photo Cells: Fits RCA Pee-Wee and the Cetron CE-5BB, CE-20 photoelectric cells. Sturdily made of black bakelite.  
13N11599—3 prong socket Type 78-535.....10¢

## MINIATURE 7 AND 9 PIN SOCKETS



Newest miniature sockets for use with television, FM, auto radios, portables and other installations. 147 Series mount in 5/8" chassis hole, mounting centers 7/8", screw holes 1/8". 59 Series mount in 3/4" chassis hole; mounting centers 1 1/8". Top mountings have base shield.

Number	Pins	Mat'l	Type	Mtng.	Ea.
13N12576	7	Bakelite	147-500	Bottom	14¢
13N12577	9	Bakelite	59-409	Bottom	23¢
13N12578	7	Mica-filled	147-913	Top	24¢
13N12579	9	"	59-407	Top	34¢

## Tube Shields and Spring Assemblies for Above

- 13N12580—for 7-pin socket. Ht. 1 3/8".....8¢
- 13N12581—for 7-pin socket. Ht. 1 1/4".....8¢
- 13N12582—for 9-pin socket. Ht. 1 1/2".....12¢
- 13N12583—for 9-pin socket. Ht. 1 15/16".....14¢
- 13N12584—for 9-pin socket. Ht. 2 3/8".....14¢



**AMPHENOL "49-RSS" STEATITE SOCKET**  
For high temperatures. Won't absorb moisture. Low losses. Silver-plated, phosphor-bronze, low-resistance contacts.

No.	Prongs	Each	No.	Prongs	Each
13N13194	4	28¢	13N13197	7S	28¢
13N13195	5	28¢	13N13198	7L	35¢
13N13196	6	28¢	13N13199	8 Oct	28¢

## AMPHENOL FLOATING OCTAL SOCKETS



Live rubber grommets fit into mounting holes - cushion-socket for vibration-free operation. Black bakelite dielectric. Mounts in 1 3/16" hole above or below chassis. Two 1/4" screw holes on 1 1/2" centers. Complete with 4 rubber grommets, 2 mtg. screws, plus nuts and washers; nothing else needed for assembly. Type 77-MIP-8FK  
13N13158—Floating Octal Socket, .....23¢

Kit for making floating connections using MIP type sockets. Contains 4 grommets, 2 mounting screws, nuts and washers.  
13N13159—Floating Octal Kit, .....14¢

## AMPHENOL POLYSTYRENE SOCKET

For extremely low losses at Ultra-High-Frequencies. Molded polystyrene base. Requires 1 1/8" hole. Mounting centers 1 1/2". Sharp ribs on mounting plate for perfect ground to chassis.

13N13170—Octal, Type 54-8.....28¢  
13N13160—Loktal, Type 54-8L.....32¢



## AMPHENOL TV SOCKETS



Extremely efficient, low-loss sockets for TV and cathode-ray tubes. Magnol Type CR socket has 11 silver-plated contacts; substantial barriers to reduce leakage losses, prevent voltage breakdowns. Duodecal, Diheptal sockets have individual contact wells.

No.	Amphphenol Type	Size	Each
13N13185	49-SS11L	Magnol Type CR	71¢
13N13190	59-402	Duodecal—Circle Dia. 1.063"	92¢
13N13191	59-415	Diheptal—Small for 2.050" Base	98¢
13N13192	59-417	Diheptal—Med. for 2.250" Base	98¢

## JOHNSON SOCKETS

### MINIATURE SOCKETS AND SHIELDS

Sturdily constructed miniature sockets for use with all 7-pin miniature tubes. Contacts are of phosphor-bronze, heavily silver-plated—self-aligning type. Unusual construction insures exceptionally low losses, with minimum capacitance and leakage between contacts.

13N13186—Miniature Socket Type 267.....29¢



STEATITE SOCKET WITH SHIELD BASE: Includes metal ring which extends upward to form a shield base.

13N13219—Shield Base Socket Type 277B.....44¢  
13N13220—Shield Base Only, Type 277S.....9¢  
13N13221—1 3/8" Shield 278A for types 277B or S.....12¢  
13N13222—1 3/4" Shield 278B for types 277B or S.....12¢

### STEATITE UHF SOCKET 122-101

7-pin wafer socket with base shield, retainer spring, provision for mounting mica capacitors on socket for short leads. Small grid coils may be mounted on terminal ends. 4 mtg. holes 2.312" bet. centers. For tubes 826, 829, 832, etc.

13N14159—Shipping Weight 1/2 lb.....1.76

### 122-237 SOCKET FOR 813 & HK257 TUBES

Low loss steatite socket excellent for use at high and ultra high frequencies. Cadmium plated contacts reinforced with recessed cadmium plated steel springs. 1 7/8" mounting centers.

13N14158—Size: 2 5/8" Square. Each.....65¢

### LOW-ABSORPTION BASE SOCKETS

Ceramic base with cadmium-plated heavy phosphor-bronze contacts. Double filament springs; heavily nickle-plated brass shells. Very low losses.

13N14160—UX 4-prong Base Socket, type 123-210.....88¢

13N14161—50-watt Base Socket, type 123-211.....1.09

Giant 5-prong Type 123-216, for 803, RK 28, etc.  
13N14157.....1.76

### 122-275 STEATITE INSULATED SOCKET

For Eimac type 4-125A and 4-250A tubes. Contacts cadmium-plated, reinforced with cadmium-plated springs. Metal parts counter-sunk: mounting holes bossed for panel mounting. 5 prong, 2-27/32" square, with 3/8" mounting holes on 2 1/4" centers. Ideal for high frequencies, and high-temperature operation.

13N14156—Each.....1.03

### 122-247 STEATITE WAFER SOCKET

7-pin socket for 829, 826, etc. Alum. base shield.

13N13187—Each.....73¢

### MIDGET WAFER SOCKETS

Laminated Bakelite. Heavily plated, self-aligning, one-piece rugged, floating contacts. 1 1/2" mtg. centers.

13N13114—4 prongs  
13N13115—5 prongs  
13N13121—6 prongs  
13N13122—7, small  
13N13125—7, large  
13N13127—8, octal  
13N13075—8, loktal

Your cost.....10 for 54¢.....Each.....6¢



MINIATURE WAFER for compact glass tubes (3/8" dia-meter), 7-pin type. Mounting centers are 7/8" apart.

13N13097.....8¢ 10 for.....72¢

# PLUGS-CONNECTORS-TERMINAL STRIPS

## AMPHENOL MINIATURE SHIELDED CONNECTORS



Fig. A. Shielded miniature connectors. Molded bakelite in cadmium plated brass shells. For cables up to 1/4". Shield can be soldered to shell where shielded cable is used. 1/16" dia.; 1 3/8" L. Fig. B. Shielded miniature chassis receptacles and plugs for use with shielded miniature connectors. Mount in 7/8" dia. hole on 1 1/4" centers.

Miniature Connectors Fig. (A)

Male	Type No.	Female	Type No.	Cont.	Each
13N13335	91-MPM-3L	13N13337	91-MPF-3L	3	21c
13N13336	91-MPM-4L	13N13339	91-MPF-4L	4	24c
13N13338	91-MPM-6L	13N13340	91-MPF-6L	6	26c

Shielded Sockets Fig. (B)

Female	Type No.	Male	Type No.	Cont.	Each
13N12704	78-PCG-3F	13N12696	86-PCG-3M	3	21c
13N12705	78-PCG-4F	13N12697	86-PCG-4M	4	21c
13N12707	78-PCG-6F	13N12698	86-PCG-6M	6	24c

## MINIATURE PLUGS AND SOCKETS

Interchangeable with miniature type connectors. Sockets have push-on mounting rings. Excellent for speaker connections.



Sockets	Type No.	Plugs	Type No.	Contacts	Each
13N11599	78-S3S	13N12708	71-3S	3	9c
13N12701	78-S4S	13N12709	71-4S	4	9c
13N11542	78-S6S	13N12711	71-6S	6	12c

## CABLE CONNECTORS

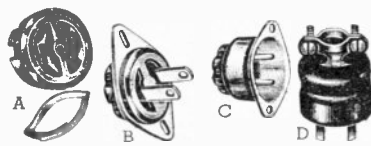
Shielded cap, rubber grommet end opening. Consists of "S" type tube sockets and "CP" plugs.



Female	Type No.	Male	Type No.	Cont.	Each
13N11475	78-PF-4	13N11471	86-PM-4	4	18c
13N11476	78-PF-5	13N11472	86-PM-5	5	18c
13N11477	78-PF-6	13N11473	86-PM-6	6	18c
13N11478	78-PF-7S	13N11474	86-PM-7S	7S	18c
13N11491	78-PF-8	13N11490	86-PM-8	8	21c
13N11508	78-PF-9	13N11506	86-PM-9	9	23c
13N11509	78-PF-11	13N11507	86-PM-11	11	28c

Amphenol Type 79-CC4. Cable-clamp used with above connectors to relieve strain on soldered connections.  
13N12712..... 7c

## AMPHENOL RECEPTACLES AND PLUGS



Molded black bakelite insulation. 2-pole receptacles with one elongated hole. May be used with either standard or polarized type plugs. Underwriters Laboratory approved. Ratings: 15A-125V or 10A-250V. Dimensions: (A) Holes—1.172"; (B) Mounting Centers—1 1/2" to 1 3/4"; (C) Hole—1 3/8", Mounting Centers 1 3/4".

Retainer Ring Type (A)

Stock No.	Type No.	Pole	Type	Each
13N11502	61-F	2	Receptacle	18c
13N11503	61-M	2	Standard plug	18c
13N11624	61-MP	2	Polarized plug	18c
13N11625	60-F	3	Receptacle	25c
13N11626	60-M	3	Polarized plug	25c

With Plate (B)

Stock No.	Type No.	Pole	Type	Each
13N11500	61-F1	2	Receptacle	20c
13N11501	61-M1	2	Standard plug	20c
13N11627	61-MP1	2	Polarized plug	20c
13N11640	60-F1	3	Receptacle	27c
13N11641	60-M1	3	Polarized plug	25c

Flush Type (C)

Stock No.	Type No.	Pole	Type	Each
13N11504	61-F10	2	Receptacle	28c
13N11505	61-M10	2	Standard plug	28c
13N11635	61-MP10	2	Polarized plug	28c

Shielded Cable Connectors (D)

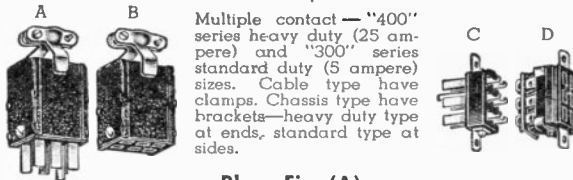
Stock No.	Type No.	Pole	Type	Each
13N11546	61-F11	2	Receptacle	32c
13N11545	61-M11	2	Standard plug	32c
13N11647	61-MP11	2	Polarized plug	32c
13N11648	60-F11	3	Receptacle	39c
13N11649	60-M11	3	Polarized plug	39c

## TERMINAL STRIPS

Superior quality bakelite terminal strips. Solder lugs mounted on 1/8" thick insulation. Available with 2, 3, 4 or 6 solder terminals. Single 6-32 mounting hole.

Stock No.	Term.	Ea.	10 for	Stock No.	Term.	Ea.	10 for
13N13145	2	6c	54c	13N13112	4	11c	.99
13N13123	3	9c	81c	13N13113	6	16c	1.44

## JONES PLUGS, SOCKETS



Multiple contact—"400" series heavy duty (25 ampere) and "300" series standard duty (5 ampere) sizes. Cable type have clamps. Chassis type have brackets—heavy duty type at ends, standard type at sides.

Plugs Fig. (A)

Contacts	Standard Duty			Heavy Duty		
	Stock No.	Type No.	Cost Each	Stock No.	Type No.	Cost Each
2	13N12460	P-302-CCT	31c	13N12400	P-402-CCT	.52
3	13N12418	P-303-CCT	34c			
4	13N12461	P-304-CCT	36c	13N12401	P-404-CCT	.64
6	13N12462	P-306-CCT	40c	13N12402	P-406-CCT	.74
8	13N12463	P-308-CCT	44c	13N12403	P-408-CCT	.85
10	13N12464	P-310-CCT	49c	13N12404	P-410-CCT	.96
12	13N12465	P-312-CCT	54c	13N12405	P-412-CCT	1.08

Sockets Fig. (B)

Contacts	Stock No.	Type No.	Cost Each	Stock No.	Type No.	Cost Each
2	13N12466	S-302-CCT	31c	13N12412	S-402-CCT	.56
3	13N12419	S-303-CCT	35c			
4	13N12467	S-304-CCT	37c	13N12413	S-404-CCT	.71
6	13N12468	S-306-CCT	42c	13N12414	S-406-CCT	.86
8	13N12469	S-308-CCT	49c	13N12415	S-408-CCT	1.01
10	13N12470	S-310-CCT	55c	13N12416	S-410-CCT	1.16
12	13N12471	S-312-CCT	62c	13N12417	S-412-CCT	1.30

Chassis Type Plug (C)

Contacts	Stock No.	Type No.	Cost Each	Stock No.	Type No.	Cost Each
2	13N12472	P-302-AB	14c	13N12426	P-402-AB	33c
3	13N12420	P-303-AB	17c			
4	13N12473	P-304-AB	19c	13N12427	P-404-AB	40c
6	13N12474	P-306-AB	23c	13N12428	P-406-AB	49c
8	13N12475	P-308-AB	26c	13N12429	P-408-AB	56c
10	13N12476	P-310-AB	30c	13N12430	P-410-AB	64c
12	13N12477	P-312-AB	34c	13N12431	P-412-AB	71c

Chassis Type Socket (D)

Contacts	Stock No.	Type No.	Cost Each	Stock No.	Type No.	Cost Each
2	13N12478	S-302-AB	15c	13N12406	S-402-AB	37c
3	13N12421	S-303-AB	18c			
4	13N12479	S-304-AB	20c	13N12407	S-404-AB	49c
6	13N12480	S-306-AB	24c	13N12408	S-406-AB	59c
8	13N12481	S-308-AB	30c	13N12409	S-408-AB	71c
10	13N12482	S-310-AB	36c	13N12410	S-410-AB	82c
12	13N12483	S-312-AB	42c	13N12411	S-412-AB	93c

## JONES HEAVY BAKELITE STRIPS

Type 140: 3/8" wide, 1 3/4" high. Terminals are mounted on 3/8" centers, 1/4" metal to metal spacing over bakelite body. Type 141: 1 1/8" wide, 1 1/2" high. Terminals mounted on 3/8" centers with 3/8" metal to metal spacing over bakelite. Type 142: 1 1/8" wide, 3/4" high. Terminals mounted on 3/8" centers, 3/8" metal to metal spacing over bakelite.

Term.	No. 140		No. 141		No. 142	
	Stock No.	Each	Stock No.	Each	Stock No.	Each
2	13N12527	14c	13N12539	18c	13N12714	.22
3	13N12528	20c	13N12540	24c	13N12715	.31
4	13N12529	25c	13N12541	31c	13N12716	.39
5	13N12530	30c	13N12542	38c	13N12717	.46
6	13N12531	34c	13N12543	44c	13N12718	.54
7	13N12532	40c	13N12544	52c	13N12719	.63
8	13N12533	45c	13N12545	58c	13N12720	.71
9	13N12534	51c	13N12546	65c	13N12721	.78
10	13N12535	56c	13N12547	72c	13N12722	.87
11	13N12536	61c	13N12548	78c	13N12723	.95
12	13N12537	66c	13N12549	84c	13N12724	1.03

## BAKELITE MOUNTING STRIP

Mounts parts on chassis.

Stock No.	Lugs	Each	10 for	Stock No.	Lugs	Each	10 for
13N13124	1	2c	14c	13N13135	4	4c	31c
13N13133	2	3c	16c	13N13137	6	5c	45c
13N13134	3	3c	19c				

## SCREW COLLAR TERMINALS

3/8" wide, 3/4" thick.

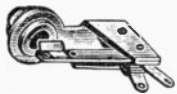


Stock No.	Terminals	Each	10 For
13N13140	2	7c	.63
13N13141	3	12c	1.08
13N13142	4	16c	1.44
13N13143	5	19c	1.71
13N13144	6	22c	1.98
13N13230	7	24c	2.16
13N13231	8	29c	2.61
13N13232	9	32c	2.88
13N13233	10	35c	3.15



# PHONE PLUGS - CONNECTORS

## MALLORY JUNIOR JACKS



Compact, extend only 1 1/8" behind the panel. Equipped with heavily-plated springs.

- No. 701—Open Circuit. **32c**
- 13N6450—Each.....
- 13N6451—No. 702. Circuit clos. **44c**
- 13N6449—No. 702A. Two circuit.
- 13N6435—No. 702B. Three circuit microphone jack.
- Each, any type.....
- 13N6452—No. 703. Single circuit filament control. **50c**
- 13N6459—No. 703A. cir. reverse.
- 13N6466—No. 703B. 3 circuit mike, 1 circuit closing.
- Each, any type.....
- 13N6453—No. 704. Interstage. **59c**
- 13N6478—No. 704A. Two circuit filament control..
- Each.....
- 13N6479—No. 705. Two-circuit filament lighting. **68c**
- Each.....
- 13N6448—No. 706. Interstage, filament control. **73c**
- Each.....

## MALLORY MIDGET JACKS



Extremely compact. Mount in 3/8" hole. Type A-1 "Infant" jack is not illustrated.

No.	Part	Type	Ea.
13N6182	A-1	Open circuit	18c
13N6183	A-2	Cir. closing	29c
13N6184	A-2A	2 circuit	32c
13N6185	A-3A	Cir. Reverse	47c

## LONG FRAME JACKS



Extend 3/8" behind panel. Have pure silver contacts as well as bakelite separators. No. 1 Open Circuit.

- 13N6400—Each..... **38c**
- 13N6401—No. 2 Circuit Closing.
- 13N6402—No. 2A. Two circuit long frame jack.
- Either type, Each..... **47c**

## SIGNAL CORPS TYPE JACKS



Phone Jack: Type SC1A. Like Sig. Corps type JK-34A. Open circuit. Takes Mallory 75; W. E. 47A, 47B; Sig. Corps No. PL-47, PL-48, PL-55, PL-148, PL-155.

- 13N6300—Each..... **32c**
- Mike Jack: Type SCA2B. Three circuit. Like Sig. Corps No. JK-33A. Takes W. E. 109; Sig. Corps No. PL-46, PL-68, PL-168.

13N6301—Each..... **38c**

## FLAT PLUG



Ultra-compact type for use where space is limited. Molded bklt. body, 1 1/4" dia., 1/4" thick. **38c**

100

## MALLORY PLUGS, JACKS



- No. 75. Two way. Bakelite shell. Tie cord anchor included. **38c**
- 13N6295—Each.....
- No. 75N. As above, but nickel shell. With tie cord anchor **59c**
- 13N6293—Each.....
- No. 75A. As above, with built in cable clamp included. **97c**
- 13N6346—Each.....
- No. 100. 2-Way Extension jack. Is equipped with fibre shell. **76c**
- 13N6348—Each.....
- No. 100N. As above, but comes with nickel shell. **97c**
- 13N6342—Each.....
- No. 100A. As above, but with nickel shell and cable clamp. **1.35**
- 13N6349—Each.....

### Microphone Plugs

- No. 76. 3-way mike plug. Bakelite shell. **59c**
- 13N6296—Each.....
- No. 76A. Same, but with nickel shell. **1.15**
- 13N6347—Each.....

## MIDGET JACKS



Fine grade bakelite insulation and tempered nickel silver springs: Mounts in 3/8" dia. hole in panels up to 1/8" thick. With mtg. nut and wsrh.

- 13N6548—Closed cir. jack **16c**
- 13N6549—Open cir. jack **13c**
- Improved short jack. Fits standard 3-circuit mike plug. **24c**
- 13N6550—Each.....

## POPULAR PHONE PLUGS



For 1 or 2 phone or speaker cords. Molded bakelite shell 2 3/4" long, 3/4" diameter. With screw connections.

- 13N14974—Black. Ea.... **27c**
- 13N14971—Red. Ea....
- 10 for..... **2.43**

### Metal Shell Type

Same with nickeled brass shell. Dimensions: 3 3/8 x 3/4".

- 13N14970—Each..... **49c**
- 10 for..... **4.41**

### "Stubby" Metal Shell

As above but with short metal shell. 2 1/4" overall.

- 13N14959—Each..... **42c**
- 10 for..... **3.75**

### Midget Bakelite Plug

Bakelite shell. 2 1/4" x 9/16" dia. Solder lug connections.

- 13N14960—Black. Ea.... **27c**
- 13N14963—Red. Ea....
- 10 for..... **2.43**

### Midget Metal Shell

Same with metal shell. 2 1/4" overall x 9/16" diameter.

- 13N14958—Each..... **38c**
- 10 for..... **3.40**

## CANNON TYPE XL CONNECTORS



Designed for use on all types of mikes, PA systems, standard radio equipment and for electrical installations requiring up to 3 wires with 15 amps. capacity. Patented latchlock device permits easy and positive insertion and removal. \* Zinc shells—Steel shell

### STRAIGHT PLUGS

Stock No.	Type	Illust.	Description	Each
13N13321	XL-3-12*	1	Male (pin insert)	.71
13N13322	XL-3-11*	1	Female (socket insert)	.73

### CLAMP TYPE PLUGS

13N13345	XL-3-12SC†	4	Male (pin insert)	1.62
13N13346	XL-3-11SC†	4	Female (socket insert)	1.65

### WALL RECEPTACLE

13N13323	XL-3-14*	2	Male (pin insert)	.59
13N13341	XL-3-13*	2	Female (socket insert)	.73

### PANEL RECEPTACLE

13N13343	XI-3-14N*	3	Male (pin insert)	.68
13N13344	XL-3-13N*	3	Female (socket insert)	.73

### ADAPTER RECEPTACLES



Adapts microphones for use with Cannon plugs.

13N13347	XL-3-50*	For Universal D20A mike, etc.	.62
13N13348	XL-3-50T*	For Turner 211 mike, etc.	.68
13N13349	XL-3-50N*	For Shure, Astatic, E-V, etc.	.76

## AMPHENOL 83 SERIES UHF CONNECTORS

UHF low-loss single contact connectors and adaptors for use with RG type cables. Small and large sizes for coax and twinax cables. Constructed of die cast zinc and machined brass shells, silver plated. Made for all practical applications.

2-pc. straight plug with low-loss mica-filled insert.

13N11550—Straight Plug 83-1SP

**82c**



Receptacle chassis or box type. Low-loss mica-filled insert.

13N11551—Receptacle Chassis 83-1R

**1.21**

Angle plug adapter. Polystyrene insert, pin and socket.

13N11552—Angle Plug Adapter 83-1AP

**1.46**



"T" connector for receptacle chassis above. Factory wired.

13N11553—"T" Connector 83-1T

**1.80**

Junction for use with straight plug above. Double contact.

13N11554—Junction 83-1J

**1.14**



Feed Thru Connector, similar in appearance to junction above but threaded full length. 2 hex. nuts plus polystyrene insert.

13N11555—Feed Thru Connector 83-1F

**1.72**



Hood for RG cables 8/U, 10/U, 11/U, 22/U, 63/U, 65/U.

13N11556—Hood 83-1H

**14c**

Adapter for small cable RG59/U. Use with straight plug.

13N11557—Adapter 83-168

**21c**

Adapter for small cable RG58/U. Use with straight plug.

13N11558—Adapter 83-185

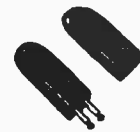
**21c**

## WALSCO MINIATURE PLUG AND JACK

Two-Conductor precision army type. Needs no screws; molded plastic case cements together. Ideal for hearing aids, speaker, extensions, etc.

13N14961—Plug only (type PL-291). Each **32c**

13N14962—Jack only (type JK-48). Each **44c**



### PL-54, PL-55, PL-68 PLUGS

Meet exacting government requirements. Will fit all standard jacks.

PL54—Short 2-way plug. **75c**

13N14965—Each.....

PL55—Long 2-way plug. **39c**

13N14966—Each.....

PL68—3-way Mike Plug. **25c**

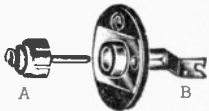
13N14967—Each.....



RELIABLE EQUIPMENT AT REASONABLE PRICES

# BINDING POSTS—PHONE TIPS—PLUGS

## PHONO TIP PLUG AND JACK



Single prong shielded plug used extensively for mike or phono pickup, other connections. Phono jack mounts in rear of panel through  $\frac{3}{8}$ " hole and is  $\frac{1}{16}$ " between centers.

13N11773—Plug. (A), Each **5c**  
10 for.....36c  
13N11774—Jack. (B) Each **7c**  
10 for.....63c  
Double Phono Jack mounted on  $\frac{1}{16}$ " bakelite panel..... **10c**  
13N12964 (C)  $\frac{1}{2}$ " Centers



## EBY BINDING POSTS NON-REMOVABLE TOPS

Specially designed for use on metal chassis. Post has hole for wire or phone tip.

Junior Post. Has 6-32 stud,  $\frac{1}{2}$ " long.  
13N13082—Each..... **15c**  
Ensign Post. Has 6-32 stud,  $\frac{5}{8}$ " long.  
13N13083—Each..... **23c**  
Commander Post. Has 8-32 stud,  $\frac{7}{8}$ " long.  
13N13084—Each..... **29c**

## EBY TWIN POST UNITS

Two binding posts molded into a heavy Bakelite base.  
13N13062..... **42c**

## INSULATED POSTS

Red or Black composition top. Plated ferrule. Specify color.  
13N13163—Each..... **11c**  
10 for..... 99c

## PLAIN TIP JACKS

For test equipment. Powerful spring.  $\frac{1}{4}$ " mounting hole.  
13N12918—Each..... **6c**  
10 for..... 54c

## ALL INSULATED TIP JACK

Countersunk  $\frac{1}{2}$ " d. head.  $\frac{3}{8}$ " overall. Fits  $\frac{3}{8}$ " hole. Bronze spring.  
13N12934—Red..... **15c**  
13N12935—Black..... **15c**  
Either Type, 10 for..... 1.35

## SPRING CLAMP BINDING POSTS

Insulated top. Spring clamp holds wire. Overall length 1".  
13N13046—Each **15c**  
10 for..... 1.35

## BINDING POST WITH BANANA JACK TOP

Hole in top takes banana plug. Hole in stem for wire. Red or Black. Specify color.  
13N12945—Each..... **15c**  
10 for..... 1.35

## PLAIN BANANA JACKS AND PLUGS

Plug is  $\frac{1}{8}$ " long. Jack is  $\frac{5}{8}$ " long and fits  $\frac{1}{4}$ " hole in panels up to  $\frac{3}{8}$ " thick.  
13N12919—Plug. Each..... **7c**  
10 for..... 60c 100 for..... 5.40  
13N12923—Jack. Each..... **4c**  
10 for..... 35c 100 for..... 3.25

## MOLDED BAKELITE INSULATED TIP JACKS

Large diameter molded Bakelite heads take all phone tips. Phosphor bronze springs. With insulating washer.  
13N12877—Red..... } **12c**  
13N12878—Black..... }  
Either Type, 10 for..... 1.08

## COMBINATION JACK

New type, takes both phono tips and banana plugs. Fully insulated, with insulating washer. In Red or Black. Specify color desired.  
13N12925—Each..... **11c**  
10 for..... 99c

## INSULATED TIP JACKS

Have new type springs which provide sure grip contact. Mounts in  $\frac{3}{8}$ " hole. In Red or Black. Specify color.  
13N12879—Each..... **9c**  
10 for..... 80c

## AMPHENOL PHONE TIP JACKS

Type 78-IP. Bakelite body. Takes standard plain or solderless phone tips. Mounts securely by means of snap ring. Requires  $\frac{3}{8}$ " hole. Red or Black—specify color desired.  
13N12765—Each..... **5c**

## TIP JACKS

Mounted on  $\frac{3}{8}$ " Bakelite. Contact springs grip cord tips securely. Double jack type.  
13N13037—Each..... **9c**  
10 for..... 81c  
Same as above. Triple jack. **14c**  
13N13036—Each..... 1.26  
10 for.....

## ALLIGATOR PHONE TIP JACK

Alligator clip fitted with standard phone tip jack. Fits test prods equipped with phone tip ends. Red or Black—specify color.  
13N12880—Each..... **25c**  
10 for..... 2.24

## CINCH STAND-OFF TERMINALS

Insulated; for TV and other high voltage electronic equipment. Mica-filled low loss bakelite. Mounts in  $\frac{5}{16}$ " diameter hole. Provides excellent insulation for passing HV wires through chassis.

Stock No.	Type	Length	Each
13N12965	16S	$\frac{9}{16}$ "	<b>44c</b>
13N12966	16L	$\frac{13}{16}$ "	



## ALLIGATOR CLIPS

Powerful grip. 2" clip is  $\frac{1}{4}$ " wide,  $2\frac{3}{4}$ " clip is  $\frac{3}{16}$ " wide. Steel non-rusting finish.

No.	Length	Each	10 for
13N12955*	2"	5c	44c
13N12956	2 $\frac{3}{4}$ "	12c	1.08

\*End takes banana plug. Copper with bronze spring. For RF work. Set screw 2" long.  
13N12947—Each..... **9c**  
10 for..... 78c

## INSULATED ALLIGATOR CLIPS

Plated metal grips with insulated handles that take banana plugs. Handles in Red or Black; specify. Steel non-rusting finish.

No.	Length	Ea.	10 for
13N12911	2 $\frac{1}{4}$ "	8c	78c
13N12909	3 $\frac{1}{2}$ "	15c	1.35
13N12949*	2 $\frac{1}{4}$ "	12c	98c

\*Copper—with bronze spring.

## INSULATED BANANA JACKS AND PLUGS

Plug has set screw for solderless wire connection. Jack fits  $\frac{1}{4}$ " hole and panels up to  $\frac{3}{8}$ " thick. Red or Black insulation on both. Specify color desired.  
13N12915—Plug. Each..... **12c**  
10 for..... 1.08 100 for..... 9.70

13N12916—Jack. Each..... **9c**  
10 for..... 81c 100 for..... 7.60

## BERYLLIUM BANANA PLUGS

Signal Corps approved. Used on all government equipment. Made of Beryllium copper. Rivet shank of plug can be turned over without splitting. Shank  $\frac{1}{4}$ " long,  $\frac{1}{8}$ " diam. Overall size:  $\frac{13}{16}$ ".  
13N13183—Each..... **9c**  
13N13184—Overall size:  $\frac{11}{16}$ ". Same but with 6-32 threaded stud  $\frac{3}{8}$ " long. Each..... **15c**

## STANDARD PHONE TIPS

Heavily plated. Takes up to No. 18 wire. 1" long.  
13N14881—10 for..... **12c**  
100 for..... 1.00

## PHONO NEEDLE PLUG

Insulated sleeve fits banana plug, and makes contact with prod. Tip holds replaceable phono needle.  $1\frac{1}{4}$ " long. Red or Black.  
13N12917—Each..... **12c**  
10 for..... 1.08

## PHONE TIP AND LUG ADAPTERS FOR PRODS

For use with any banana plug. Fits tip jacks or binding posts. Red or Black.  
13N12913—Phone tip end } **10c**  
13N12914—Spade lug end }  
Either Type, 10 for..... 90c

## PLAIN SOLDERLESS PHONE TIP PLUGS

All metal tip plug for tip jack use. Solderless connection.  $1\frac{1}{8}$ " long.  
13N12943—10 for 54c Each..... **6c**  
As above but  $1\frac{1}{8}$ " long.  
13N12944—10 for 54c Each..... **6c**

## SOLDERLESS INSULATED PHONE TIP PLUGS

Solderless type: fit all standard tip jacks. Used on test leads. In Red or Black.  
13N12973—2" long..... } **10c**  
13N12974—1 $\frac{1}{2}$ " long..... }  
Either type, 10 for..... 90c

## AMPHENOL BAKELITE JACKS AND PLUGS

Mount in  $\frac{3}{8}$ " hole with retainer ring included. Contacts recessed  $\frac{1}{8}$ ". Body may be used as a feed-thru. State choice, Red or Black.

JACKS				PLUGS			
Stock No.	Type	For Plug	Each	Stock No.	Type	For Jack	Each
13N12920	78-1S	$\frac{3}{8}$ "	5c	13N12900	71-1S	$\frac{3}{8}$ "	3 $\frac{1}{2}$ c
13N12921	78-1L	$\frac{3}{8}$ "	5c	13N12901	71-1L	$\frac{3}{8}$ "	3 $\frac{1}{2}$ c
13N12922	78-1M	$\frac{1}{8}$ "	5c	13N12903	71-1M	$\frac{1}{8}$ "	3 $\frac{1}{2}$ c



# CLIPS-KNOBS



## MUELLER CLIPS AND RUBBER INSULATORS

Spring-actuated clips Type 27 and 27C are laboratory types with mesh teeth on three sides, others have teeth in front only. Insulators listed opposite proper size clips. Clips marked † and - (5 each, 10 to a box). Insulators come 5 red and 5 black.

Clips				Insulators			
No.	Type	Size	Each	No.	Type	Each	10 For
17N16029*	45	1 1/2"	6c	17N16031	47	11c	.73
17N16030†	45C	1 1/2"	8c	17N16031	47	11c	.73
17N16032*	48B	2"	6c	17N16033	49	11c	.73
17N16034‡	24A	3"	11c	17N16035	26	23c	1.57
17N16026*	27	2 1/2"	8c	17N16028	29	17c	1.18
17N16027†	27C	2 1/2"	14c	17N16028	29	17c	1.18
17N16018†	21A	4"	16c	17N16019	23	32c	2.25

\* Cadmium plated steel. ‡ Lead coated steel. † Solid copper.

## No. 85T CROCODILE TIP CLIP

For connecting Bridges, Voltmeters, or anything having binding posts with non-removable heads.

- 17N16023—12c each..... 10 for **1.08**
- No. 85. As above, less phone tip.
- 17N16020—06c each..... 10 for **49c**
- Plastic insulator for either of the above No. 87.
- 17N16021—10c each..... 10 for **65c**

## MUELLER WEE-PEE-WEE CLIP

Non-ferrous R.F. Clip. Will not heat in high frequency circuits. Ideal for tapping coils. Length 1 1/4". Completely insulated with Red or Black jacket (specify color desired. No. 88-98).

17N16022—10 for 1.47..... Each **16c**

## MUELLER "TWIN-CLIP"

Special type clip—has jaws on both ends. Makes a quick splice, re-connects a broken lead, etc. Can be used for holding or racking parts in industrial processing or holding

articles for display.  
17N16025—10 for 69c..... Each **8c**



## FAHNESTOCK CLIPS

Grips wire with right pressure for good electrical contact without injury to wire. All are nickel-plated brass except † which are nickel-plated bronze. All are 3/8" wide except † which are 1/2".

Stock No.	Fig.	Lgth.	Max. Wire	Mtg. Hole	10 For	1000 For
17N14824	B	1"	No. 10	No. 8	8c	6.40
17N14828	C	1 1/8"	No. 10	No. 8	14c	9.40
17N14826	A	1 3/8"	No. 10	No. 8	36c	29.00
17N14823*	B	3/4"	No. 14	No. 6	7c	5.60
17N14825*	A	1 1/2"	No. 14	No. 6	30c	24.80
17N14820†	D	1 5/8"	No. 10	Copper lug	44c	34.20
17N14821	E	3/4"	No. 12	No. 6-32	13c	8.50

## SCREEN GRID CLIPS

Miniature type for metal tubes. With wire ferrule.

17N14985..... **2c**

Per Doz..... 10c

For Glass Tubes

17N14827..... **2c**

12 For..... 10c

100 For..... 75c

## BATTERY CLIPS

Heavily plated steel body. Strong spring.

17N16061—2" long. Each..... **3c**

17N16062—2 1/2" long. Each..... **5c**

17N16063—3 3/8" long. Each..... **8c**

## G-C AMO MINIATURE TUBE PULLER

Designed to prevent tube breakage and burned fingers—speeds servicing of radios using miniature type tubes. Easily removes or inserts miniature tubes such as 6AG5, 50B5, etc. Works on suction and vacuum principle—gets into places where fingers alone could not reach.

18N15584—Shpg. wt. 2 oz..... **97c**

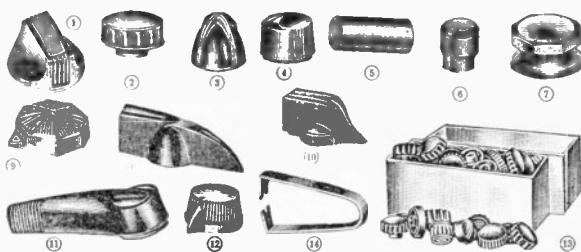
18N15594—For 9-pin tubes..... **97c**

## MINIATURE TUBE PIN STRAIGHTENER

Precision constructed steel die. Quickly straightens and aligns pins on types such as 50B5, 35W4, etc. Can be carried in tool box or fastened to bench.

18N15261—For 7-pin Miniature Tubes..... **59c**

18N15262—For 9-Pin Miniature Tubes..... **59c**



## BAKELITE KNOBS

Molded and polished walnut bakelite knobs for 1/4" shafts. All are set screw type except those marked with \* which are brown push-button knobs; † is knurled hole mtg.; \*\* have recessed tops.

No.	Type	Dia.	Ea.	10
11N9655	1	1"	8c	72c
11N9693	2†	3/8"	4c	33c
11N9736	3	3/8"	5c	44c
11N9737	3	3/8"	6c	54c
11N9692	4	3/8"	5c	44c
11N9694	5*	3/8"	3c	27c
11N9695	5**	3/8"	3c	27c
11N9661	6*	15/16"	4c	33c
11N9696	6**	15/16"	4c	33c
11N9657	7	3/4"	7c	63c
11N9660	8	15/16"	7c	63c

## Pointer and Lever Knobs

Polished Black bakelite. All have filled pointers except "M" (has ridged top). For 1/4" shafts.

No.	Lgth.	Ht.	Type	Ea.	10
11N13027	2"	5/8"	9	9c	72c
11N13028	1 1/2"	5/8"	9	6c	54c
11N13053	1 1/2"	3/4"	10	5c	44c
11N13024*	1 1/2"	3/4"	*10	7c	63c
11N9650	1 1/2"	1 1/2"	11	9c	81c
11N9651	2 1/2"	5/8"	11	11c	99c

\* Red Bakelite.

## MIDGET KNOBS

12. With and without the pointer illustrated. For small sets. 1 1/8" dia. Set screw. 1/4" shaft.

Color	With Pointer	Without Pointer	Ea.	10 For
Walnut	11N9676	11N9680	6c	54c
Ivory	11N9677	11N9681	6c	54c
Red	11N9678	11N9682	6c	54c
Black	11N9679	11N9683	6c	54c

## KIT OF 50 KNOBS

13. Assorted sizes and colors in new, modern designs as used on the latest post-war sets. All standard shaft size openings. Four each of 12 different designs, two each of one design. Kit consists of 12 set screw type, 18 knurled shaft type and 20 flatted shaft spring type.

11N9662..... **2.48**

## G.C. KNOB PULLER

14. Knobs that are hard to grip can be easily removed with this knob puller. Simply slip the G.C. puller behind the knob and pull it off. Saves time, the cabinet, and the knob.

18N15042..... **24c**

## TV KNOBS FOR RCA 630TS CHASSIS

Exact replacements for the RCA 630TS chassis

Stock No.	RCA Type	Description	Each
11N9669	71598	Escutcheon Dial for Channel Sel....	1.00
11N9670	71534	Station Selector.....	.32
11N9671	71535	Picture, Brightness or Ver. Hold....	.21
11N9672	71537	Dummy Brightness.....	.18
11N9673	71533	Fine Tuning.....	.24
11N9674	71536	Horiz. Hold or Volume Control....	.18



## TRANSMITTER KNOBS FOR 1/4 IN. SHAFTS

All black bakelite but 11N13018 is a black lacquered wood

No.	Type	Size	Ea.	10 For	No.	Type	Size	Ea.	10 For
11N13022	1	1 1/2"d.	30c	\$2.70	11N13005	3	1 3/8"d.	20c	\$1.80
11N13018	1	1 5/8"d.	12c	1.08	11N13013	3	1 1/8"d.	21c	1.89
11N13004	1	1 3/4"d.	31c	2.79	11N13012	3	2 3/8"d.	26c	2.34
11N13011	1	2 1/4"d.	32c	2.88	11N9885	4	1 1/2"d.	11c	.99
11N13010	1	3"d.	41c	3.69	11N9886	4	1 1/2"d.	12c	1.08
11N9896	2	1 1/2"d.	44c	1.96	11N13007	5	1 1/2"d.	19c	1.71
11N13014	3	1 1/8"d.	13c	1.17	11N13008	5	1 1/2"d.	24c	2.16
					11N13009	5	2 3/8"d.	32c	2.88

## G-C AUTO RADIO KNOBS

Fig. 1. 1 3/8" dia., 7/8" high. For either 1/4" or 3/8" shafts; bushing included.

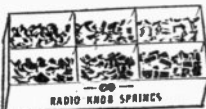
Pearl Gray. 11N9667—10 for 1.62. Ea... 18c

Maroon. 11N9668—10 for 1.62. Ea... 18c

Fig. 2. Chrome plated knob. Set screw mounting.

11N9665—10 for 1.62. Ea... 18c

3/4" Shaft. 11N9666—10 for 1.62. Ea... 18c



## KIT OF 100 KNOB SPRINGS

A handy kit for every serviceman. 12 different type knob springs and wedges to take care of all replacements. Made of tempered spring steel.

11N9675—Kit of 100 Springs..... **97c**

# SMALL HARDWARE

## DELUXE HARDWARE ASSORTMENT



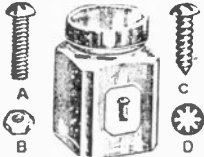
Our most popular hardware assortment conveniently boxed. Contains over 1000 pieces of the most frequently used hardware: assorted machine screws, nuts, bolts, rivets, etc.  
17N14831—Wt. 4 lbs..... **97c**

## PICKUP CARTRIDGE MTG. SCREWS



Contains small machine and self-tapping screws of various lengths, sizes, styles for fast-acting cartridge to pickup arm. Pkg. contains approx. 30 screws, spacers.  
17N15483 ..... **24c**

## RADIO HARDWARE IN JARS



Most convenient way to keep your small hardware—glass jars with screw-on caps. Any jar below..... **33c**  
17N14675—jar only..... **6c**

## Round Head Machine Screws (A)

No.	Quantity	Size
17N14650	100	4-36x1/4" long
17N14651	100	4-36x1/2" long
17N14652	75	4-36x3/4" long
17N14653	90	6-32x1/4" long
17N14654	80	6-32x1/2" long
17N14655	70	6-32x3/4" long
17N14656	75	8-32x3/8" long
17N14657	70	8-32x1/2" long
17N14658	65	8-32x3/4" long
17N14659	60	10-32x1/2" long
17N14660	50	10-32x3/4" long

## P-K Tap Screws (C)

No.	Quantity	Size
17N14665	50	No. 4x1/2"
17N14666	50	No. 6x1/4"
17N14667	45	No. 6x3/8"
17N14668	40	No. 7x1/2"
17N14669	35	No. 10x3/4"
17N14670	45	No. 10x3/8"

## Hexagon Nuts (B)

No.	Quantity	Size
17N14661	110	4-36x1/4"
17N14662	110	6-32x1/4"
17N14663	90	6-32x5/16"
17N14664	90	8-32x5/16"

## Washers (D)

No.	Quantity	Size
17N14671	150	No. 6 Plain
17N14672	150	No. 8 Plain
17N14673	100	No. 6 Lock washer
17N14674	100	No. 8 Lock washer

## ESCUTCHEON PINS

Fastens any type of escutcheon or nameplate. 5/16" long.  
17N14811—Per 100..... **14c**

## RIVET AND EYELET ASST.

Special assortment of 55 popular size rivets and eyelets to fasten sockets, etc.  
17N14840..... **24c**

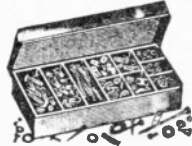
## BUMPER FEET

Felt, with No. 6 P-K screw for mounting. Felt is permanently clamped into place by metal ring 3/4" in dia.  
17N14757—Each..... **4c**  
10 For..... **35c**  
100 For..... **2.70**

## CABLE CLAMPS

Heavy gauge steel. No. 6 mounting hole. Plated.  
17N14951—1/4".....Gross 90c 4 for **3c**  
17N14952—1/2".....Gross 1.95 3 for **5c**

## "1000 PLUS" HARDWARE KIT



Here is a hardware kit to fill the needs of service men and home constructors. 100 and one items needed for different jobs every day. Each item is conveniently separated into its own compartment box. Over 1000 assorted pieces are included in the kit. There are 125 assorted lengths of 6-32; 100, 8-32 and 25, 10-32 machine screws. Also included are 100 each of 6-32 and 8-32 nuts, 100 assorted wood screws, 150 assorted rivets and eyelets, 10 each assorted lugs, flat washers and 100 grommets and fibre washers.  
17N14815—Shpg. wt. 4 lbs..... **1.49**



## ASSORTED BRACKETS

Pkg. of 28 most used angles, brackets.  
17N14838..... **41c**

## 1/4" METAL SPACERS



Raise components above chassis, etc. Pass Nos. 4, 6, 8 screws.  
17N9868..... **1.89**  
17N9869..... **2.25**  
17N9870..... **2.01**  
17N9871..... **32c**

Stock No.	Height Inches	For Ten	Lots of 100
17N9868	1/4	21c	\$1.89
17N9869	1/2	25c	2.25
17N9870	3/4	29c	2.01
17N9871	1	32c	2.88

## ASSORTED FIBRE WASHERS



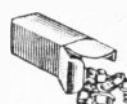
Contains 100 plain and shoulder type to fit No. 6, 8, 10 screws, and 1/4", 3/8" and 1/2" holes.  
17N14832..... **36c**

## ASST. SELF-TAPPING SCREWS



40 most often used sizes. No nuts needed—start hole and drive through.  
17N14687..... **35c**

## RUBBER GROMMET KITS



Kit "A" contains 12 asst. grommets in 4 sizes: 3/16-1/2". "B" has 30 in same sizes.  
17N14794—Asst. "A" 21c  
17N14795—Asst. "B" 43c

## RUBBER GROMMETS



Insulate holes in 1/16" metal panels, chassis, electrical appliances, etc.

Stock No.	Fits Hole	Inside Diam.	Per Doz.	Per 100
17N14765	1/4"	1/8"	9c	60c
17N14766	5/16"	3/16"	16c	65c
17N14768	7/16"	5/16"	20c	70c
17N14769	1/2"	3/8"	22c	75c

## RIGHT ANGLE BRACKETS

Made of heavy metal. Width 3/8".  
17N14895..... **11/2c**  
17N14896..... **2c**  
17N14897..... **21/2c**  
17N14898..... **3c**  
17N14899..... **31/2c**

## WING NUTS

17N12926—6-32 17N12928—10-32  
17N12927—8-32 17N12929—1/4-20  
Per 10..... **31c**  
Per 100 (assorted)..... **2.90**

## PLATED MACHINE SCREWS



Available in three types for all needs.

### 6/32 Round Head Screws

Stock No.	Length	Gross
17N14750	3/8"	39c
17N14751	1/2"	42c
17N14752	3/4"	46c
17N14753	1"	53c
17N14754	1 1/4"	68c

### 8/32 Round Head Screws

Stock No.	Length	Gross
17N14755	1/2"	53c
17N14756	3/4"	58c

### 6/32 Flat Head Machine Screws

Stock No.	Length	Gross
17N14760	3/8"	38c
17N14761	1/2"	41c
17N14762	3/4"	46c
17N14763	1"	53c
17N14764	1 1/4"	68c

## ANTIQUE FINISHED MACHINE SCREWS



No.	Size	Lqth.	Doz.	Gr. Lots
17N14680	6-32	3/4"	9c	95c
17N14681	6-32	1"	10c	\$1.02
17N14682	6-32	1 1/2"	11c	1.18

### Round Head Wood Screws

Stock No.	Size	Length	Gross
17N14780	4	3/8"	48c
17N14781	5	1/2"	50c
17N14782	5	3/4"	54c
17N14783	5	1"	60c

## NUTS & WASHERS—POPULAR SIZES



17N14804—6/32x1/4" hex nuts. Gr. **48c**  
17N14805—8/32x1/4" hex nuts. Gr.  
17N14806—6/32x5/16" hex nuts. Gr. **50c**  
17N14807—8/32x5/16" hex nuts. Gr.  
17N14803—10/32x3/8" hex nuts. Gross..60c  
17N14808—6/32x11/32" knurled nuts. Per 100..... **1.10**  
17N14809—No. 6 Washers  
17N14810—No. 8 Washers.....100 for **16c**

## (A) LOCKING WASHERS

17N14758—#6 washer. **20c**  
17N14759—#8 washer.  
Pkg. of 100..... **20c**

## KNOB SET SCREWS

(B) Case-hardened headless set screws.  
17N14786—1/8"x6/32"..... } 10 for **18c**  
17N14787—1/8"x8/32"..... }  
17N14788—1/4"x6/32"..... } 50 for **75c**  
17N14789—1/4"x8/32"..... }

## SOLDERING LUGS

In five types to fit all your soldering requirements.  
17N14812—No. 1  
17N14813—No. 2  
17N14814—No. 3, solderless type  
17N14816—No. 4, 5/8" long  
17N14818—No. 5, 7/8" long  
Any above, per 100..... **34c**  
Per 1000..... **3.08**

## TAPERED LUGS

(6) Fits over all screws up to No. 10; shank fits banana plugs. 1 1/4" long, 1/2" wide.  
17N12954—Per doz **44c**

## HEAVY DUTY SPADE LUGS

(7) Designed for battery terminals, etc. 1 inch long, No. 10 slot.  
17N14912—Per 10..... **8c**  
Per 100..... **69c**



# RADIO CHEMICALS

## CEMENT SOLVENT AND THINNER



Used for loosening cement on speaker cones, voice coils and other parts where cement has been applied previously. Recommended also for thinning radio cement, plastic cement and fabric cement.

17N15821—4-oz. Bottle..... **38c**  
17N15822—8-oz. Bottle..... **53c**

## WALSOCO CONTACTENE INJECTOR

Injector needle permits application of contact chemicals to most volume controls without unsoldering connections or taking control apart. This tool is made with highest quality surgical type needle, and an oil resistant rubber bulb.



17N15823..... **44c**

## G-C STRIP-X

Makes it easy to strip enamel from magnet wire. Simply dip the ends of the wire in Strip-X and the enamel will be removed; wire is then ready for soldering.

17N15826—2-oz. Bottle..... **35c**

## G-C MAGIC SCRATCH REMOVER POLISH

### Dark Shade

Something new! Polish contains the proper stains and other ingredients to eliminate scratches on cabinets while polishing to a gloss. Excellent for radio cabinets, furniture and woodwork.



17N15827—2-oz. Bottle..... **18c**  
17N15828—8-oz. Bottle..... **29c**

## NEW LIGHT SHADE SCRATCH REMOVER POLISH

For blonde maple, mahogany and all light woods. Removes scratches and makes the wood like new. Polishes at the same time.

17N15829—2-oz. Bottle..... **18c**  
17N15830—8-oz. Bottle..... **29c**

## CARBON TETRACHLORIDE

An excellent all around cleaner for terminals and controls. Dissolves dirt and grease.

17N15831—8-oz. Bottle..... **39c**  
17N15832—16-oz. Bottle..... **59c**  
17N15833—Quart Can..... **89c**

## RADIO SERVICE CEMENT

For cementing replacement cones and repairing torn cones. Used on glass to hold wires in place. Vibration-proof, waterproof, fast-drying.

17N15314—2-oz. bottle, brush attached to cap. Each..... **29c**  
17N15315—4-oz. Bottle..... **59c**  
17N15316—8-oz. Bottle..... **1.03**  
17N15317—1-pt. Bottle..... **1.94**

## LUMINOUS LITE-KOAT KIT



Long-life, non-poisonous coating that absorbs light in daytime and glows in dark. Ideal to coat or stripe dials, knobs, switch plates, meter boxes, key holes, panels, instruments, hallways, staircases, etc. Contains generous quantity of Lite-Koat powder, Mix-Koat Top-Koat to protect finish, handy small brushes and thinner. Complete instructions and suggestions.

17N15834—De luxe kit..... **1.76**

## LUBE-REX CONTACT CLEANER



Ideal for attenuators, push button switches, etc., as well as Philco Mystery Controls. Cleans contacts and prevents corrosion. Moisture-repellant, rust preventing—clings to metal.

17N15533—2-oz. Bottle..... **35c**  
17N15534—Pint Bottle..... **1.47**

## GRAFOLINE

Especially designed for noisy controls, switches, and wire wound controls. Merely apply to equipment and noises cease.

17N15535—2oz. Bottle..... **35c**  
17N15536—Pint Bottle..... **1.18**



## AIR DRYING FINISHES

Here's good news for servicemen! Now you can get truly professional-looking finishes in either crystal, wrinkle or smooth with these new, efficient air-drying finishes. Easy to handle—simply apply and let dry. Gives durable and lasting finish at a reasonable price. Air-dry or bake on metal or wood. Comes in handy 2-ounce or 8-ounce sizes.

### Wrinkle Lacquer (Crystal) 2-Ounce 8-Ounce

No.	Each	Color	No.	Each
17N15259	<b>35c</b>	Black	17N15309	<b>1.03</b>
17N15319		Gray	17N15387	
17N15320		Brown	17N15388	
17N15380		Red	17N15389	

### Wrinkle (Varnish) Finish

17N15381	<b>35c</b>	Black	17N15390	<b>1.03</b>
17N15382		Red	17N15391	
17N15383		Gray	17N15392	

### Telephone (Smooth) Finish

17N15384	<b>35c</b>	Black	17N15393	<b>82c</b>
17N15385		Gray	17N15394	

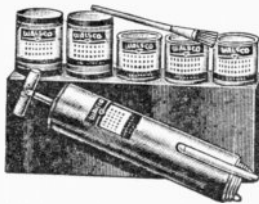
2-oz. thinner for wrinkle varnish listed above.

17N15396..... **29c**

Thinner for telephone black and crystal lacquer.

17N15820—2-oz. Bottle..... **29c**

## FLOCK SPRAY OUTFIT



Easy to operate. Beginners can turn out professional velvet-like flock jobs. Contains spray gun, ivory and brown felt flock, undercoats to match, thinner, brush. 17N15489—Outfit. Shpg. wt. 3 lbs..... **6.17**  
17N15490—Spray Gun Only..... **2.55**  
1/2 oz. can felt flock.

17N15479—Brown 17N15481—Ivory  
17N15480—Red 17N15482—Green  
Any above, each..... **59c**

EXTRA CONTAINERS of felt flock, 3 1/4 oz. each (1 oz. covers 1 1/2 to 2 square feet).  
17N15491—Brown 17N15492—Ivory  
17N15493—Red 17N15494—Green  
Any above, each..... **97c**

EXTRA UNDERCOATS—acts as colorbase, etc. 1/2 pint cans—cover appr. 10 sq. ft.  
17N15495—Brown 17N15496—Ivory  
17N15497—Red 17N15498—Green  
Any above, each..... **97c**

EXTRA THINNER—use to clean brush and thin out undercoat. 1/2 pint can.  
17N15499—Thinner..... **32c**

## BAKELITE CEMENT



For cementing bakelite to bakelite and to other material.  
17N15310—2-oz. size..... **35c**  
17N15311—8-oz. size..... **1.29**  
17N15312—1-pt. size..... **2.45**

## WALSOCO PLASTIC CEMENT



Cements plastics, metal, wood, glass, etc. Dries fast. Strong bond. Waterproof and heat resisting. Especially made to repair broken plastic cabinet knobs, grid caps, etc. Brush attached to cap. Walsco No. 42, 2-oz. bottle.

17N15321..... **35c**

## "WALSOLUB B"

New chemical lubricant that instantly eliminates noise on band-switches, controls and other air-exposed contacts. Superior to graphite. Comes in convenient dispenser tube.

17N15378..... **32c**



## DUCO CEMENT

Excellent for repairing speaker cones, cementing grille cloths, etc.

17N15257—Each..... **21c**  
Lots of 12..... **ea. 19c**

## CONTACT CLEANING FLUID

Prepared to clean tuning condenser springs, volume controls, band switches, etc. Prevents corrosion of contacts. With brush.

17N15377—2-oz. bottle..... **29c**

17N15824—4-oz. Bottle..... **44c**

17N15825—8-oz. Bottle..... **59c**



## RADIO CHEMICAL KIT



A complete kit of 8 chemical necessities for servicemen in leatherette pocket case. Service cement, Rubber Drive Cement, Carbon-X, Grafoline, Scratch Polish, Nonline, Scratch Polish, Nonline.

Slip Compound, Dial Oil, and Contact Cleaner. Applicator attached to cap of each container for ease in use.  
17N15529..... **1.94**

## COIL DOPE KIT

Has a polystyrene base and its power factor loss is negligible even if used for high frequency work. Will render articles moisture proof. May also be used for cementing parts made of polystyrene. Kit contains 2-oz. bottle of coil dope, 2-oz. bottle of special thinner and two brushes.

17N15313..... **59c**



## FELT-KOAT KIT

A "must" for every serviceman! Complete Flock Finish Kit for applying soft felt-like flock to phono turntables, displays, tool chests, lamp bases, and wire mesh on speaker, grilles, etc. Produces heavy soft velvet-like coat that prevents scratching. Easy to apply. Deluxe Kit containing Brown flock, applicator, undercoat, thinner and brush.  
17N15528..... **1.76**



## COLOR CODING ENAMEL



For color coding coils, terminals, etc. Green, blue, red, yellow and a bottle of thinner included, as well as two brushes. Employ your own system of coding—adds greatly to appearance of equipment.  
17N15258..... **50c**

## CARBON-X FOR CONTROLS

Useful both as an electrical conductor and as a practical method of touching up worn and noisy spots on carbon controls.

17N15531—1 oz. Bottle..... **44c**  
17N15532—2 oz. Bottle..... **59c**



# SPEAKER AND CABINET REPAIR NEEDS DIAL CABLE - SPRINGS

## TUFFLEX INSULATION



Sound absorbing insulating material with innumerable industrial and home applications. May be used for lining the interior of radio consoles, speaker cabinets and phonographs. The unusual thermal insulating qualities of this fabric make it applicable as well for automobile floor or dashboard insulation.

Tufflex insulation may be used to pad kneeling mats, children's play pens, bassinets pads, plus hundreds of other items. Tufflex is 1/2-in. thick, and is sold in widths of 11 inches. Minimum length sold: 7 feet.  
22N20941—7 ft. for.....**1.00**  
Longer lengths, per foot.....**14c**

## CEMENT KIT

An efficient cement kit for speaker cones, voice coils, r.f. coils and chokes. One bottle of all-purpose cement, one bottle of thinner, and brush.  
17N19499.....**44c**



## PLASTIC CABINET CEMENT

Quickly and easily repairs all Bakelite or Plaskon molded radio cabinets. Produces bond almost as strong as cabinet. Dries quickly and holds securely. 2-oz. bottle complete with brush attached to bottle cap.

17N15273.....**35c**

## SCRATCH STIK

Handy pocket stick for servicemen, removes scratches from radio cabinets in a jiffy. Contains filler and scratch polish.

17N15520—Each.....**24c**  
10 for.....**2.16**



## SCRATCH REMOVER KIT

Combination kit of 6 colors, popular shade of wood Scratch-Stik fillers and 2 bottles scratch remover liquid—walnut and clear. Works on all light and dark wood.

17N15530.....**82c**



## CABINET REPAIR KIT

Handy kit that may be used with excellent results in radio shops, stores, trucks, etc. Small brushes in caps of all bottles make quick patching of damaged cabinets easy. Kit contains bottle each of Ivory spirit enamel, light and dark; dark brown lacquer enamel, walnut spirit stain, polish renewer, French varnish; 3 sheets garnet finishing paper, steel wool, and cloth.

17N15527—Shpg. wt. 3 lbs.....**1.76**



## CABINET TOUCH-UP KIT

For use on plastic, bakelite or wood cabinets 9 shades of shellac sticks, bottles of light and dark oil stain, bottle of metal shading lacquer. Magic Scratch Remover, alcohol lamp, spatula, brushes, steel wool, etc.

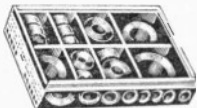
17N15521—Shpg. wt. 3 lbs.....**3.20**



## DRIVE RUBBERS

Kit of 24 contains eight different types of friction drive rubbers for replacement in popular receivers.

11N9400—Drive Rubber Kit.....**88c**



## DIAL CABLE ADJUSTER

Handy aid for replacing slipped-off dial cable over dial drum.

18N15061—Each.....**44c**



## DIAL LIGHT COLORING KIT

Red, Green, Blue and Amber, and a bottle of solvent. Each in screw top, wide mouth bottle. Dries in 1 minute. Color permanent.

18N15185—Cost, per Kit.....**50c**

## JFD RADIO DIAL BELT KITS

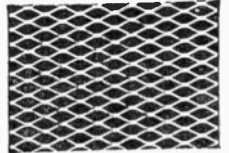
Assortments of the most popular sizes in use today.

11N9911—Asst. of 100.....**14.70** 11N9910—Asst. of 25.....**3.94**  
For individual belts give JFD belt No. and 11N9909 .15 ea.

## WALSCO ORNAMENTAL GRILLE

Heavy perforated grille, beautifully "brushed brass" plated and lacquered with gold finish effect. For use over cloth or screening in custom built radios, P.A. Speakers and juke boxes.

22N19493—Size 12"x18".....**1.62**  
22N19494—Size 18"x24".....**2.94**



## FLOCKED GRILLE SCREENING

Protective grille for radio, intercom, etc. Won't tear, fray.

Stock No.	Size	Color	Each
22N19487	8x11"	Brown	50c
22N19489	18x24"	Brown	1.71

## SPEAKER GRILLE CLOTH

Handsome frieze, 50" wide, cut to your specified length.

22N20949—Per Yard.....**1.85** 22N19496—12"x12".....**25c**



## SPEAKER SHIMS

Non-Magnetic Monel shims. 4 each .004", .006", .008", .010" shims. In plastic case with pencil clip.

22N19649—Each.....**35c**

## VOICE COIL DUST FELTS

Felt discs used on voice coils to keep dust out. Can be glued to any cone. Comes in a package of 25.

22N14745—Pkg. of 25.....**24c**



## WALSCO SPEAKER CONE PATCHES

Specially fabricated material and adhesive for repairs.

22N19647—12 Assorted Patches.....**24c**

## SCOTCH TAPE DISPENSERS

1. Desk Dispenser. Takes 1/2" or 3/4" tapes.

18N15035—Shpg. wt. 5 lbs.....**1.69**

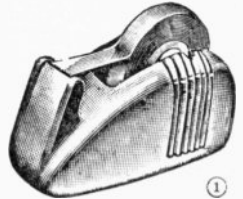
2. Plastic Hand Dispenser. 1/2" tape.

18N15033—Shpg. wt. 6 oz.....**29c**

## TRANSPARENT SCOTCH TAPE

1/2" size. 792" long. Fits both above.

18N15046—Each 50c 6 for 2.70



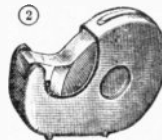
## FRICTION TAPE, 3/4" WIDTH

Rolls come packed in individual boxes.

18N14829—2 Oz. each 12c

18N14842—4 Oz. each 22c

18N14843—8 Oz. each 39c



## DIAL DRIVE SPRING ASSORTMENT

Handy kit for servicemen. Box contains 25 springs of six different sizes of hard-to-get tension springs. Offered to you now at an unusual low price!

11N9892—Shpg. wt. 1 lb.....**71c**

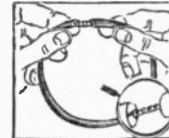


## DIAL DRIVE SPRINGS

High grade steel wire rust-proof springs. Kits offer five sizes to take care of all necessary requirements.

11N9890—Kit of 10 Assorted. Shpg. wt. 2 oz.....**24c**

11N9891—Kit of 10 Small Sizes. Shpg. wt. 2 oz.....**24c**



## WALSCO UNIBELT

Replacement for any dial belt. Cut to size—join ends with simple zipper-like connector. Breaking strength over 60 lbs. 5-foot spool with 10 connectors.

11N9888—Shpg. wt. 1 lb.....**1.62**

## DETROLA DRIVE SPRINGS

Exact replacements for 1946-47 Detrola-Utah Expansion spring with inserted core.

11N9893—Shpg. wt. 2 oz.....**24c**



## BLACK NYLON DIAL CABLE

Dia.: Special Thin .025"; Standard .032"; Medium .042".

Length	Spec. Thin	Each	Standard	Each	Medium	Each
Envelope*	11N9930	24c	11N9945	24c	11N9931	24c
25-foot	11N9889	73c	11N9943	73c	11N9928	73c
100-ft.	11N9927	2.65	11N9944	2.65	11N9929	2.65

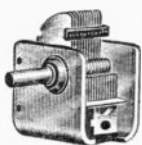
\* Special Thin 10-ft.

\* Medium and Stand. 8-ft.



# DIALS AND VARIABLE CONDENSERS

## MIDGET SINGLE GANG CONDENSERS



Firmly staked rotor and stator plates. Low-loss bakelite insulation. Ball bearing. Counter clockwise motion.  $\frac{1}{4}$ " shaft.  $1\frac{3}{4} \times 1\frac{3}{8} \times 1\frac{1}{16}$ " deep.

11N10189*	15mmfd	11N10194	100mmfd
11N10190*	25mmfd	11N10195	150mmfd
11N10191*	35mmfd	11N10196	250mmfd
11N10192*	50mmfd	11N10198	410mmfd
11N10193*	75mmfd	11N10199	450mmfd

**59¢** **59¢**

\*Double spaced.

## CROFLEX TUNERS AND CALIBRATIONS



Tuners are flexible—may be adapted to any chassis. Condensers clockwise or counter clockwise—may be located in various positions relative to tuner. Choice of 5 different knob locations. All with horizontal double channel calibrations, broad cast band 55 to 170 and short wave 6 to 18. Models 234 and 236 have third scale reading reverse, arbitrary 0 to 100. All have "3 dimension" edge lighted glass dial scales. Smallest size has one lamp socket, all others have two. Hubs  $\frac{3}{8}$ " dia. with  $\frac{1}{4}$ " adaptors.

Fully Adaptable—Choose for Size Only

Stock No.	Model	Escutcheon Overall	Panel Cutout	Pointer Travel	Cost
11N9818	231	2 $\frac{1}{4}$ x 4 $\frac{3}{4}$ "	1 $\frac{3}{8}$ x 4 $\frac{3}{8}$ "	3 $\frac{1}{2}$ in.	2.79
11N9819	232	2 $\frac{1}{2}$ x 6 $\frac{1}{16}$ "	1 $\frac{13}{16}$ x 5 $\frac{3}{8}$ "	4 $\frac{1}{16}$ in.	2.94
11N9820	233	3 $\frac{3}{8}$ x 6 $\frac{3}{16}$ "	2 $\frac{1}{4}$ x 6"	5 $\frac{1}{16}$ in.	3.15
11N9821	234	3 $\frac{1}{2}$ x 8 $\frac{1}{2}$ "	2 $\frac{3}{8}$ x 7 $\frac{1}{16}$ "	6 $\frac{3}{8}$ in.	3.53
11N9800	236	4 x 11 $\frac{1}{16}$ "	3 $\frac{3}{8}$ x 9 $\frac{1}{16}$ "	9" in.	4.56

Stock Calibrations: The glass dial scales may be removed and replacements put in easily.

### AM Broadcast Short-wave, double channel

### AM Broadcast only, single channel

For Model	Horizontal	Vertical	Horizontal	Vertical
231	†	11N9822	11N9826	11N9830
232	†	11N9823	11N9827	11N9831
233	†	11N9824	11N9828	11N9832
234	†	11N9825	11N9829	11N9833
<b>FM Broadcast Only</b>		<b>AM/FM Broadcast</b>		
231	11N9834	11N9838	11N9842	11N9846
232	11N9835	11N9839	11N9843	11N9847
233	11N9836	11N9840	11N9844	11N9848
234	11N9837	11N9841	11N9845	11N9849

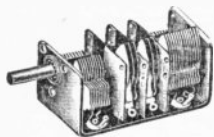
† All Horizontals supplied with respective dials.

Stock calibration as above..... Each **44¢**

### Crownname Horizontal Scales for Model 236 Dial

11N9801—Dial Scale, AM/FM Broadcast..... } Each **59¢**  
 11N9802—Dial Scale, AM Broadcast..... }  
 11N9803—Dial Scale, FM Broadcast..... }

## DEFIANCE GANG CONDENSERS FOR FM-AM



Each section contains a trimmer, aluminum plates, ball bearings, low-loss insulation plus  $\frac{1}{2}$ " shaft featured in each model.

5-Section: Ranges in mmfd. FM front section, 19.1-1.4. FM center section, 18.5-1.2. FM rear section, 18.5-1.3. AM RF section, 421-31.6 AM oscillator section, 161.6-21.1.

11N9792—Shpg. wt. 1 lb..... **1.65**

4-Section: Two FM sections, each 18.5-1.2. AM RF section, 420 maximum. AM oscillator section, 162 maximum.  
 11N9793—Shpg. wt. 1 lb..... **1.50**

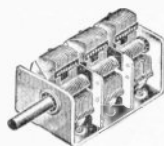
## FM GANG CONDENSERS SIMILAR TO ABOVE

3-Section: Each section 14.8-1.3 mmf.  
 11N9794—Shpg. wt. 1 lb..... **1.25**

2-Section: Each section 14.8-1.3 mmf.  
 11N9795—Shpg. wt. 1 lb..... **.89¢**

## DEFIANCE GANG CONDENSERS

With aluminum plates, ball bearing rotors and low-loss insulation, 2 and 3 gang units supplied with trimmers on bottom. Shafts  $\frac{1}{4}$ " dia.,  $1\frac{1}{2}$ " long, 3 mtg. holes tapped for  $\frac{3}{32}$  screws. All  $1\frac{1}{2}$ " high,  $1\frac{1}{8}$ " wide. All 365 mmfd per section except cut sections on 456 KC Super types.



T.R.F.		456 Kc Super				
No.	Each	Gangs	Length	Rotation	No.	Each
11N9780	.59	1	1 $\frac{1}{8}$ "	counter clock		
11N9781	.89	2	2 $\frac{3}{16}$ "	counter clock	11N9798	.89
11N9782	1.39	3	3 $\frac{3}{16}$ "	counter clock	11N9799	1.39
11N9783	.59	1	1 $\frac{1}{8}$ "	clockwise		
11N9784	.89	2	2 $\frac{3}{16}$ "	clockwise	11N9796	.89
11N9785	1.39	3	3 $\frac{3}{16}$ "	clockwise	11N9797	1.39

## 420-160 MMFD DEFIANCE GANG CONDENSERS

Two gang, 420, and 160 mmfd. condensers for use with 456 KC IF superhets. Counterclockwise rotation, with trimmers built onto frame. Total length 2 $\frac{3}{16}$ ". Shpg. wt. 1 lb.

11N9775—Two Gang, 420 and 160 mmfd..... **89¢**

11N9776—Three Gang, Two 420 and one 160 mmfd..... **1.39**

## MICA TRIMMER CONDENSER

Base of low-loss ceramic with India Ruby mica. Moisture resistant. Lugs bend easily.



No.	Plates	Range	Each
11N9537	1 $\frac{1}{2}$	2-30 MMF	12¢
11N9536	2	4-80 MMF	12¢
11N9535	3	9-180 MMF	16¢
11N9534	4	25-280 MMF	18¢
11N9533	5	45-380 MMF	20¢
11N9532	6	70-480 MMF	22¢
11N9531	7	100-580 MMF	24¢



## BRASS SHAFT COUPLINGS AND BUSHINGS

Fig. 1—Coupler type. Fig. 2—Extender type.

Sizes	Fig.	Insul.	Brass	Each
$\frac{3}{16}$ x $\frac{1}{8}$ "	1	11N15014	11N15000	<b>11¢</b>
$\frac{3}{16}$ x $\frac{3}{16}$ "	1	11N15006	11N15001	
$\frac{3}{16}$ x $\frac{1}{4}$ "	1	11N15008	11N15002	
$\frac{3}{16}$ x $\frac{3}{8}$ "	2	11N15017	11N15004	
$\frac{3}{16}$ x $\frac{1}{2}$ "	2	11N15018	11N15005	
$\frac{3}{16}$ x $\frac{3}{4}$ "	2	11N15009	11N15003	

Split Bushing: (3) Increase shaft dia.  $\frac{1}{4}$  -  $\frac{3}{8}$ "  
 11N9730— $\frac{1}{8}$ " long. Each..... **6¢** 10 for..... **54¢**

## Brass & Fibre Shaftings

For extensions,  $\frac{1}{4}$ " dia.  
 11N15010—6" Brass..... **12¢**  
 11N15011—6" Fibre.....  
 Each.....  
 11N15012—12" Brass..... **24¢**  
 11N15013—12" Fibre.....  
 Each.....

## Panel Bearing Assembly

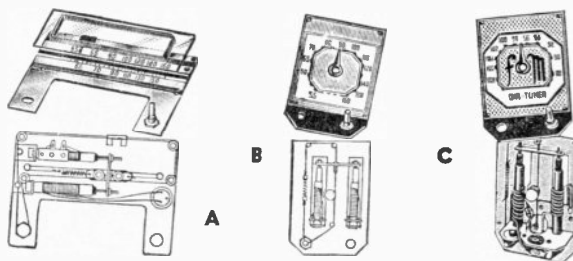
4. Use with rigid or -exible coupling when mounting. For up to  $\frac{3}{16}$ " panels.  
 11N9563—3" long.  $\frac{1}{4}$ " Shaft. **20¢**  
 11N9562—6" long.  $\frac{1}{4}$ " Shaft. **26¢**  
 11N9564—Bearing only..... **6¢**

## MAGIC EYE ASSEMBLY



6 prong type requires 6E5 or 6G5 tube for 6.3 volt sets; 2E5 for 2.5-volt sets. 8-prong type takes all octal base magic eye tubes. All types are easily installed. Complete with escutcheon. Instructions included.

13N1480—6-prong type. MEA-6..... **89¢**  
 13N12645—8-prong type. MEA-8..... **89¢**



## PERMEABILITY TUNERS AND DIALS

Complete assembly, includes dial, coils, knob shaft, cable, slug carriage, two High Q slugs, and clear plastic dial cover. Tunes RF and Oscillator coils. Superheterodyne circuit components pre tracked at factory. Use as the basis for compact receivers, no tuning gang capacitor needed. Gold, buff and brown finished dial scale. Covers 540 to 1600 KC.

11N10450—Fig. B—With rectangular dial..... **2.85**

11N10451—Fig A—With slide rule dial and window..... **4.05**

Regenerative Tuner: Ideal for experimenters and hobbyists. Replaces single gang variable condenser. Tunes from 540 to 1600 KC. Pre tracked at factory. Complete with coil, 3 color dial scale. Same as Fig. B, but with center knob.  
 11N10452..... **1.44**

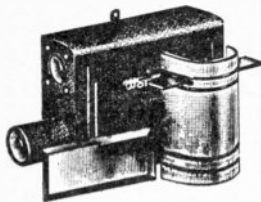
Fig. C—FM Dia-Tuner Head: Designed for use as tuning control and dial. For FM reception in the 88-108 MC band. Includes converter circuits necessary for changing VHF carrier freq. to 10.7 meg. intermediate ampifier freq.  
 11N10453—Fig. C..... **4.17**

11N10454—Antenna Coupler for Tuner Head..... **1.05**

11N10455—V.H.F. Choke, 4.5 Microhenry for Tuner Head..... **.51**

# PHOTO ELECTRIC EQUIPMENT & KITS

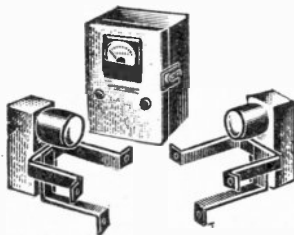
## WORNER FOTOELECTRIC ANNOUNCER



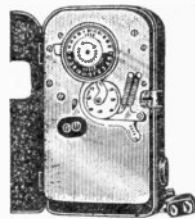
Model 61A. Complete light source and sensitive photo cell unit in one compact metal case. Mirror supplied for reflecting light beam back into photo cell window when placed up to 10 feet from the unit. Equipped with optical system to arrest unwanted light. Breaking of light beam activates chime or other warning device announcing entrance of persons through doors, passages, driveways, etc. Operates from 115-volt, 60-cycle A.C. source.  
21N15654—Wt: 7 lbs.. **20.14**

## DE-TEC-TRONIC SMOKE ALARM

Model AP-415. Low cost photo electric indicator of smoke density passing through the flue of a boiler. Indicating meter and lights on front panel show when density of the smoke exceeds a predetermined value. Insures perfect combustion as well as keeping within limits of local smoke ordinances. Accessory warning devices such as bell may be connected to relay circuit. Ideal for hotels, hospitals, factories, etc., where breeching of boiler does not exceed 10-ft. in width. 115-V. 50/60 cycles. List Price \$90.00.  
21N15723..... **67.50**

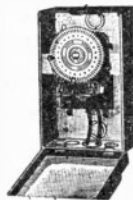


## PORTABLE "PLUG-IN" TIME SWITCH



AEMCO. Model 110. Designed especially for use with most electrical appliances such as refrigerators, fans, radios, electric cookers, etc. Removable dial for easy setting of trip levers. Self-starting synchronous motor with normal operation down to 200 below zero. Settings as close as 15 minutes between on and off positions. Can be preset up to 24 hours in advance. Attractive, compact steel cabinet; visible dials and trip levers. Tamper-proof cabinet can be padlocked. Equipped with five-foot extension cord for connection to the nearest convenient outlet, and with receptacle into which appliance can be plugged. 115-volt, 60-cycle A.C.  
21N15722—List Price \$11.50..... Each..... **8.75**

## TORK ELECTRIC TIME SWITCHES



Has innumerable applications in the home, on the farm, or in industry. May be used to turn on chicken brooders, oil or gas burners, any installation that may be turned on or off through the delivery or withdrawal of current. Self starting type, for automatic control of solenoid valves, signs, stokers, etc. Shown with cover off. Operates on 110 volts 60 cycles AC current. Model 191B has 2 1/2 minute ratchet dial. Capacity of 20 amps, 2000 watts. Designed for general use. Overall size: 8 1/2 x 5 3/8". Comes complete with single-pole on-off switch.  
21N15600—Shpg. Wt: 8 lbs. .... **9.10**

Model 962B—Double Pole. Capacity 4000W., 20 amp, per pole.  
21N15601..... **10.50**  
Model 191BP—Poultry House Lighting Timer. For morning and evening operation. Bright light circuit 2000 W.; dimmer 800 W.  
21N15602..... **12.95**  
Personal Model similar to Model 191B but in portable case, fitted cord and plug and a clock controlled receptacle. Automatic control at 15-min. intervals of fans, heaters, bedside radios. Minimum setting of 45 minutes between on and off positions.  
21N15603..... **8.40**  
21N15604—Same as above but 1320 watt capacity..... **9.45**

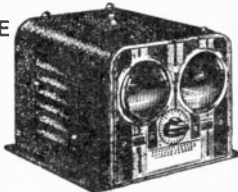
## WORNER BURGLAR ALARM SYSTEM



Model 5100. Light source projects beam of invisible infra-red light to condensing lens of receiver. Interruption of light beam or disconnection of power to the unit operates a relay which may be connected to any audible or visible alarm device. Alarm is continuous and can only be silenced by the possessor of key to pick-proof switch lock on the receiver. Mirrors can be used to project the light beam around a room to protect several entrances simultaneously. Operates with light beam up to 100 feet. For 110 volts, 60 cycles AC.  
21N15659—Shpg. Wt: 10 lbs. **55.12**

## DETECT-O-RAY ELECTRIC EYE

A labor-saving, life-saving device. Provides perfect burglar protection in addition to its numerous industrial applications such as safety devices on machines, conveyor controls, electric door operators and counters. Projects a light beam which is reflected by a small external mirror to the photo cell in the unit. Any object coming within the path and breaking either beam, instantly activates an alarm, bell, camera, safety device, or sets into action any other unit you may wish to perform work automatically. Effective range of the white beam is 60 feet; range of the "unseen" beam is approximately 35 feet. Switch offers selection of beams, depending on type of operation desirable. Sensitivity dial regulates reaction of unit to purpose and conditions for which it is employed. Also includes signal selector for choice between Continuous Action from one break-in beam until shut off—or Single Action with each break. For 110 V. 60 cycles AC. Steel case with black wrinkle finish. Dimensions: 5" x 6 1/2" x 7".  
21N15725—With Outside Mirror. Wt: 7 lbs..... **27.78**

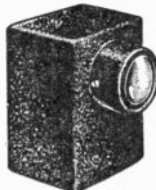


## ELECTRIC EYE AMPLIFIER KIT

Burglar alarm, door announcing, counting and sorting are just a few of the many applications of this easy-to-assemble photo electric eye amplifier. Operates with any light source. Kit contains all necessary parts, including case and easy-to-follow instructions for assembly. Case dimensions: 5 1/2 x 4 1/2 x 2 1/2". Operates on 115 volts, AC or DC current.  
21N15672—Shpg. Wt: 2 1/2 lbs. **9.75**



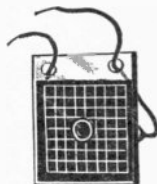
## PHOTO ELECTRIC LIGHT KIT



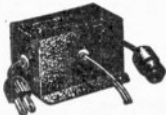
Dependable light source for above amplifier kit. Projects a beam of light 25 feet long. Light source kit includes light bulb, socket and all necessary parts including carrying case and simplified easy to follow instructions. Designed to operate on 115 volts, AC or DC current.  
21N15673—Shpg. Wt: 2 1/2 lbs. **5.83**

## IRIS ELECTRIC EYE PHOTOCELL

Self-generating, barrier-layer type, mounted on plastic window. Develops several hundred microamperes depending on intensity of illumination and resistance of external circuit. No external battery required. Standard model sensitivity 15 microamperes, Jumbo 100 microamperes using 100 watt frosted tungsten lamp at 1 ft. Soldered pigtail leads.  
21N10598—Stand. 1-3/16" sq. x 1/4".... **1.50**  
21N10599—Jumbo Model, 1 1/2" sq. x 1/4".... **3.00**



## DETECT-O-RAY L-205 POWER RELAY



Carries 1000 watts, at 110 volts AC. For controlling most motors, machinery, etc. Input plugs into socket, output into motor, etc. Shpg. Wt. 2 lbs.  
21N15724..... **6.86**

## CETRON PHOTOTUBES FOR USE IN WORNER UNITS

Type CE-23-C—Gas. 160 ma average sensitivity. **2.84**  
21N10580—Shpg. Wt: 8 oz.....  
Type CE-1-D—Gas. 100 ma average sensitivity.  
21N10581—Shpg. Wt: 8 oz..... **2.55**



## SELENIUM PHOTO-CELL

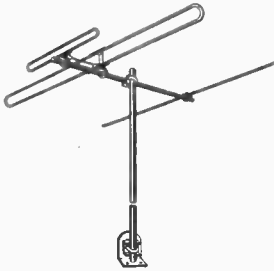
Barrier layer, self-generating type—light striking upon cell generates current sufficient to operate relays directly without the use of auxiliary power. Lifetime of cell is unlimited. 600 microamperes output at 100 foot candles. 2 inches in dia. mounted in handsome plastic housing.  
21N10576—Photo Cell. Wt: 8 oz..... **9.37**

FOR INDUSTRIAL EQUIPMENT CONSULT OUR INDUSTRIAL DEPARTMENT



# JFD TELEVISION ANTENNAS

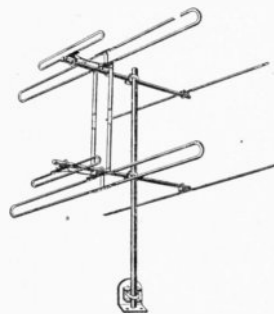
## STRAIGHT LINE ALL BAND FOLDED DIPOLE



Model TA150. Here's a new TV array covering channels 2-13 and FM band with exceptionally broad frequency response. Uni-directional antenna characteristics maintain high front-to-back and front-to-side ratios over all channels. Two broad-band folded dipoles and low band reflector operate off common 300-ohm transmission line. All elements constructed of corrosion-resistant aluminum alloy tubing. Exclusive crossarm clamp provides 4-point support; U-bolt clamp permits unlimited adjustment of elements for polarized and directed reception. Complete with 5-ft 1/4" steel mast, twin lead jumper and all-angle base mount. Shipping Weight: 8 1/2 lbs.

28N21827—List Price \$15.30.....Net..... **9.00**

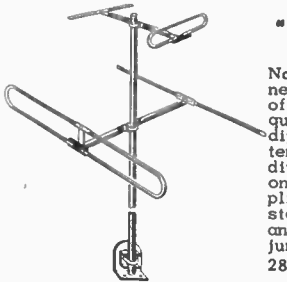
## DOUBLE STRAIGHT LINE FOLDED DIPOLE



No. TA151. High gain, 1/4 wavelength stacked array covers all TV channels and FM band. Duo-orienting bays separate overlapping signals and eliminate station interference. Gives more signal strength at greater distances, especially in fringe areas. Component parts include exclusive crossarm clamp providing 4-point support for mast and crossarm, and special U-bolt clamp permitting unlimited adjustment of elements for polarized and directed reception. Complete antenna includes 10-ft. (two 5-ft sections) 1/4" corrosion-resistant steel mast, twin lead jumpers and 1/4 wavelength aluminum jumper bars, and all-angle base mount. Shipping Weight 16 1/2 lbs.

28N21828—List Price \$32.10.....Net..... **18.87**

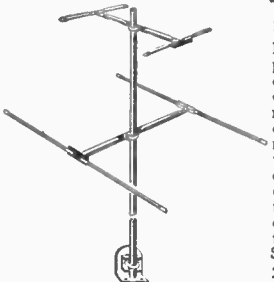
## "RANGER" DUO-ORIENTING FOLDED DIPOLE ARRAY



No. R5. TV antenna covers channels 2-13 and FM band. Consists of two separate units: a high frequency and a low frequency folded dipole with reflectors. Each antenna section can be oriented individually for maximum performance on high and low TV bands. Supplied pre-assembled, ready for installation. Includes 5-ft mast, all-angle base mount and twin lead jumper. Shpg. Wt: 8 lbs.

28N21826—List \$12.35. Net **7.26**

## "RANGER" DUO-ORIENTING STRAIGHT DIPOLE ARRAY



No. R3. High and low band dipoles with reflectors provide greater gain on all TV channels and FM band. 5-ft rugged steel mast set in newly designed all-angle base mount assures maximum durability under adverse weather conditions. Elements constructed of corrosion-resistant aluminum alloy tubing connected to mast with U-bolt clamp. Pre-assembled, ready for installation...no hardware necessary. Shpg. Wt: 7 1/2 lbs.

28N21832—List 11.05. Net **6.50**

## INDOOR TV/FM ANTENNA

NO. TA132. New! Superb performance on all TV channels and FM. Attractively designed and constructed "tip-proof" base of crystal glazed porcelain harmonizes beautifully with living room interiors. Felt pad protects furniture from scratches. The 3-section, polished brass telescopic dipoles extend to 44"; each measures 14" collapsed. Fully adjustable; orients simply and quickly in any direction. Unusually compact, portable antenna supplied complete with 10 feet of 300-ohm polyethylene twin lead. Shipping Weight: 1 1/4 lbs.

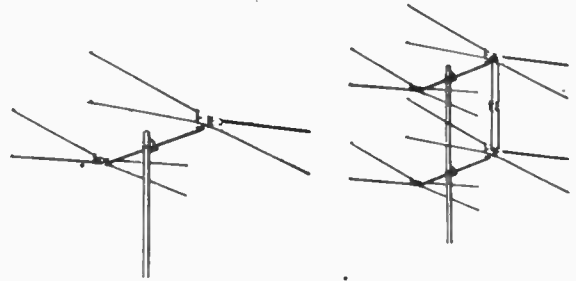
28N21833—List Price \$4.25..Net **2.50**



## 5-FT. EXTENSION ANTENNA MAST

New, corrosion-resistant steel mast made to fit all JFD antennas. One end is tapered. Specially designed "Jam Fit" construction with locking key. Fit readily into each other. 1/4" outside diameter. List Price \$1.40.

28N21978... 10 for 7.38..... **82c**



## ALL BAND CONICAL TV ARRAYS

No. TA160. Fine, biconical all band array gives excellent broadband and high gain response on all TV channels and FM. Lightweight, all aluminum construction - non-corrosive. Features a 20° broadside tuning angle and good front-to-back ratio on all TV frequencies. Low standing wave ratio permits direct coupling to 72, 150 or 300-ohm transmission lines with minimized energy transfer loss. Unique element bracket securely grips dipoles and reflectors which are completely pre-assembled for speedy installation. New crossarm clamp provides 4-point support for crossarm and mast; permits easy counter-balancing for antenna rotors. Shipping Weight: 6 1/2 lbs. Supplied less mast.

28N21829—List Price \$13.95.....Net..... **8.20**

## DOUBLE ALL BAND CONICAL

No. TA161. Stacking of TA160 TV array provides exceptionally high db gain on both bands. Particularly adaptable to fringe areas. Conical antenna design results in minimum noise, less fading and reduced multi-path reflections. 20° broadside tuning angle. In addition to other features described above for the TA160, this unit also includes 1/4 wavelength aluminum jumper bars. Shipping Weight: 11 1/2 lbs. Supplied less mast.

28N21830—List Price \$29.25.....Net..... **17.20**

## ECONOMY MODEL CONICAL

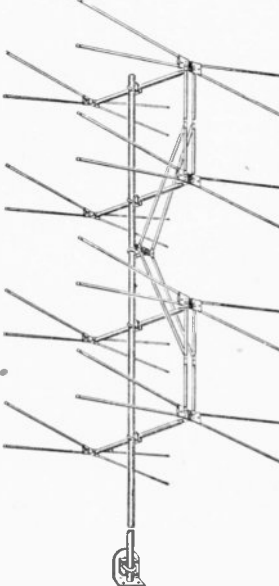
No. R60. Identical to No. TA160 except for galvanized steel crossarms and element brackets with aluminum elements. Has quick rig feature for easy assembly. Less mast.

28N21970—List Price \$11.30.....Net..... **6.64**

No. R61. Same as above except stacked array with jumper bar. Less mast.

28N21971—List Price \$24.00.....Net..... **14.11**

## DOUBLE STACKED CONICAL ARRAY



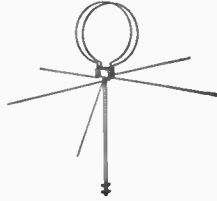
No. TA164. Double stacking of TA161 arrays offers unsurpassed db gain for pulling in weak signals from long distances. Especially engineered conical antenna design reduces noise, fading and multi-path reflections to a minimum; gives excellent high gain, broadband response on all TV channels, and produces clear, steady pictures with full brilliance. 1/2 wavelength stacked bays; 1/2 wavelength stacked sections. Low standing wave ratio permits direct coupling to 72, 150 or 300-ohm transmission lines with minimized energy transfer loss. Element brackets completely pre-assembled. Antenna includes dipole and reflector brackets, crossarm clamps, jumper harness, and aluminum jumper bars. Shipping Weight: 25 lbs. Supplied less mast. List \$61.80.

28N21831....Net..... **36.34**

# TELEVISION ANTENNAS

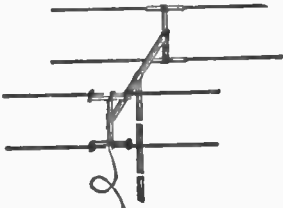
## QUAD-LOOP ANTENNA BY SQUARE ROOT

Quadrature-phasing antenna, achieves all the advantages of mechanically rotated antennas without any moving parts. Electrically controlled at the receiver by a single knob. Selects maximum gain for each channel regardless of the geographical location of the transmitting station. Requires no orientation. 90% assembled before delivery. Can be set up and installed in a short time. Sturdy all-metal construction has no moving parts to wear out or become defective. Constructed of two loops and four dipoles. Loops are used for high frequency reception and the dipoles for low frequency. When used on lower frequencies the loops act as resonated sections for the dipoles. Requires 4-conductor lead (two 300 ohm lines) from antenna. Less lead-in. Shpg. Wt. 00 lbs.



28N21821—List Price 27.50.....**16.17**

## TACO DOUBLE DEUTY TV ANTENNA WITH REFLECTOR



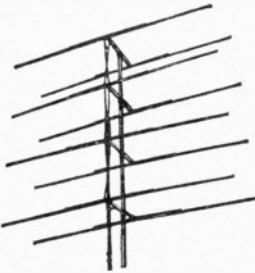
A rigid, all-metal, all-weather system that gives improved FM, TV and AM reception. One of the most dependable TV antennas on the market today! Broadband and with a very good gain. Uni-directional—has high signal-to-noise ratio. Antenna and reflector or each have two dipoles. Comes complete with 60 ft. 300-ohm transmission line, 5-ft. mast and mounting hardware. Wt. 15 lbs.

28N21990—List Price \$24.50.....**13.23**

## VEE-D-X TV ANTENNA

New, highly directional antenna provides increased gain and steadier, clearer reception from stations as far away as 100 miles. Consists of 4 phased antenna elements, 4 reflector elements, 4 cross-arms, a 10 1/2' mast, and all necessary parts and mounting hardware. Finest grade aluminum used throughout. Matching stub will match any impedance from 50 to 600 ohms. Less transmission line. Full instructions included. Wt. 28 lbs. List Price \$129.50.

28N21992.....**76.15**



## TRICRAFT TELEVISION & FM ANTENNA

Model 300—Designed to satisfy need for an all-purpose, all-wave antenna. Complete coverage of both television bands, as well as the permanent FM band. Comes complete with 65 feet of 300-ohm transmission line and all accessories for installation. Universal mounting bracket at base of 8-ft. mast for mounting on any roof or wall angle.

28N22036—Wt. 9 lbs. List Price 17.95.....**11.61**

Auxiliary Kit. Converts above into two element ultra-high gain antenna.

28N21985—Wt. 5 lbs. List Price 15.80.....**10.88**

## SLIDE RULE INDOOR ANTENNA

Dipole antenna arm calibrated with all TV channel numbers plus FM band. Simply extend one arm to desired channel...other arm extends automatically. Correct match for standard 300-ohm twin-lead transmission line minimizes "ghosts", inter-channel interference, etc. Instant push button closing retracts dipole arms into compact 4 1/2 x 2 1/2" case

28N21966—List Price 9.95.....Each.....**5.85**

## ICA ALL CHANNEL INDOOR TV ANTENNA

Ideal for apartments. Can be placed under rug, on molding, in attic, etc. Polyethylene insulation. Complete with 10-ft. lead-in, 300-ohm twin lead transmission line. Shpg. Wt. 1 lb.

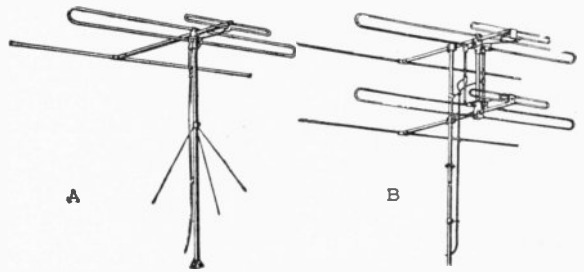
28N21984—List Price 2.95.....**1.73**

## 300-OHM TWIN LEAD-IN



Special low-loss 300 ohm twin lead transmission line ideal for use with FM or any Television antenna listed on this page.

Insulated line is water, acid, alkali and oil proof.  
19N17130—Cost per foot.....2 1/4¢ Per 100 ft.....**2.06**



## AMPHENOL BROADBAND TELEVISION ANTENNA

Fig. A. Model 114-009. Provides higher, more uniform gain and broader response on all channels. Gives excellent picture brightness and assures the best TV enjoyment. Single direction radiation pattern throughout entire TV spectrum. High front-to-back and front-to-side ratios. Matches 300-ohm input circuit. All aluminum construction except for heavy, rust resisting mast. With swivel mounting plate, guy clamp, stand-off insulators. Less twin-lead. Shpg. Wt. 9 lbs.

28N21817—List Price \$17.00.....Net.....**10.00**

Same as above, but with 75-ft. Amphenol 300-ohm Twin-Lead.

28N22044—List Price \$19.50.....Net.....**11.47**

## AMPHENOL TWO-BAY ANTENNA

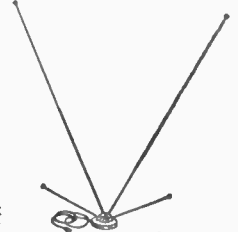
Fig. B. Model 114-302A. Provides added high forward directive gain and a single directional pattern over both upper and lower television channels, 2 to 6 and 7 to 13. Television set owners who live in fringe and outside areas can now get the same brilliant reception as set owners within the TV broadcasting areas. High front-to-back and front-to-side ratios. Efficient operation on all channels. High strength aluminum and aluminum alloy construction with rust-resistant steel mast. Complete with top and bottom bay connecting rods and two 5-ft. lengths of 1 1/4" mast. Without lead-in. Shpg. Wt. 17 lbs.

28N21818—List Price \$35.00.....**20.58**

## AMPHENOL "TELESTAR" INDOOR ANTENNA

Model 114-024. Specially designed to fill the needs of those television owners who are unable to erect an outdoor antenna. Unique all-channel television cross-over network. Can be rotated for highest efficiency and "ghost" elimination. Rods are cut to pre-tuned lengths, long rods for low band, short rods for high band stations. Base-weighted against tipping. Rubber feet prevent marring of finished surfaces. Fabricated of light weight aluminum rods with a low-loss wood finish polystyrene base; comes with 5-feet of natural color polyethylene low-loss 300-ohm twin-lead. Shipping weight 4 lbs.

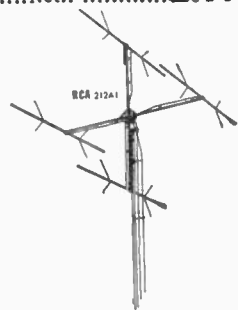
28N21819—List Price 4.95.....Net.....**2.91**



## RCA REVERSIBLE BEAM ANTENNA ARRAY

Model 212A1. Eliminates co-channel interference where stations are 180° apart. Also eliminates adjacent channel interference where receiver lacks selectivity. "Ghost" pictures caused by line mismatches are absorbed in diplexer. High overall front-to-back ratio. Reversible uni-directional beam. Flick of switch on diplexer reverses antenna directivity. Easily oriented for maximum directional gain. Uniformly directional on all channels. Aluminum construction throughout. Complete with 4 sets of dipole elements with "V" attachments; terminal board assembly; 3 five-ft. sections 1 1/4" dia. heavy-wall aluminum tubing; 2 crossarms; 2 guy rings; 12 harness standoffs; 10 lead-in standoffs; 1 diplexer; installation instructions. Shpg. Wt. 12 lbs.

28N21822—List Price 59.50.....Net.....**34.99**



## RCA "V" ATTACHMENT

Recommended for use in those locations where all stations are in the same general direction. Provides improved reception on all channels when mounted on low band dipole and dipole reflector antennas. Directional characteristics of such antennas will be uniform for all 12 channels. No adjustments are necessary except usual antenna orientation for maximum signal strength. Easily assembled and mounted on antenna.

28N21825—List Price 1.30. Per Pair.....**76¢**

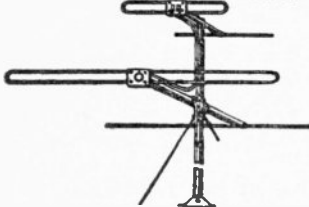




# TELEVISION AND FM ANTENNAS

## RELIANCE TV ANTENNAS

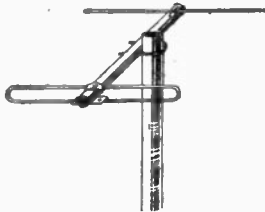
### 2-BAND ARRAY-13 CHANNELS



A new low price for this feature value! Excellently designed dual antenna receives all 12 television channels, plus the FM band. Range on the low frequency array: 44-108 MC.; 174-220 MC on the high frequency array. Average gain 2.5 db on low frequency array, 1.5 db on high frequency above tuned dipole. Each unit can be rotated individually for

maximum signal strength. Complete with 5 ft. mast.  
28N21983—Shpg. Wt. 14 lbs.....**5.65**

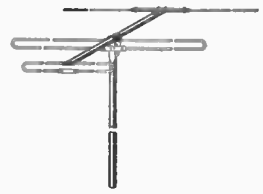
### HIGH BAND ADAPTOR



Precision engineered high frequency array consisting of a folded dipole with reflector. Covers 174-220 MC range. Can be stacked with your present low band antenna to provide all-channel coverage or used individually as a high band antenna. Constructed of durable tempered aluminum alloy which resists damage due to adverse atmospheric conditions. Supplied complete with 18" mast which can be

easily attached to your present antenna mast.  
28N21994—Shipping Weight 5 lbs.....**2.49**

### IN-LINE ALL BAND ANTENNA

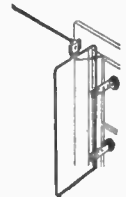


Here's an efficient antenna especially designed for fast assembly and installation. Developed for those areas where both low and high band stations are in the same direction. Has high gain on both bands making excellent for low signal strength areas. All metal construction for durable, long lasting installation. Supplied complete with 5-ft mast; high and low band antenna sections with low band reflector; mast swivel bracket and mounting hardware and insulators.

28N21954—Shipping Weight 6 lbs.....**6.35**

### AMAZING WIND-O-LOOP ANTENNA

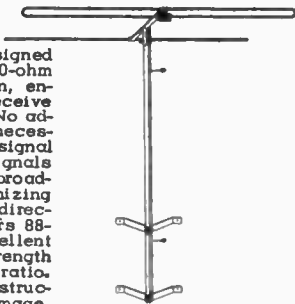
If the "landlord problem" is the only thing that stands between you and television pleasure—listen. Here is the ideal all-channel TV and FM antenna. It attaches to the window pane by means of two suction cups, or fits into wood with screws. Constructed of a single rectangular loop and one dipole. 25' of wire is permanently attached to antenna for convenience of installation.



28N21974.....**5.00**

## FM ANTENNAS

### RCA FM FOLDED-DIPOLE ANTENNA AND REFLECTOR



Model 228A2. Specially designed for FM receivers with 300-ohm inputs. Built for high gain, enabling the listener to receive more distant FM stations. No adjustments of elements are necessary. Gives unusually flat signal response, with strongest signals received from a direction broadside to the antenna—minimizing interference from opposite direction. Uni-directional. Covers 88-108 megacycle band. Excellent for use in low-signal strength areas. Low standing wave ratio. Lightweight aluminum construction resists wear and damage. Ready for mounting. Complete with 5 ft. mast. List price 9.50. Shpg. Wt. 5 lbs.

28N21816.....**5.59**

### AMPHENOL FOLDED DIPOLE AND REFLECTOR



For suburban and long distance, wide band, trouble-free reception. Rigid low-loss insulators and twin-lead transmission line prevent loss of signal. Swivel bracket permits installation on flat or peaked roofs. With 75 ft. 300 ohm twin-lead line and complete installation instructions.

28N21998—Wt. 5 lbs...**9.55**

### AMPHENOL DOUBLE FOLDED DIPOLE

Receives FM from all directions. Does not require rotation and will give crystal-clear reception over the entire FM band. Sturdy lightweight aluminum construction. Swivel mounting on flat or sloping roofs. With 75 ft. 300 ohm twin-lead, instructions.

28N21999—Wt. 5 lbs. **9.55**

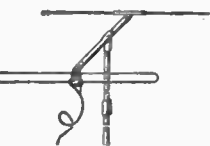
### TACO FM FOLDED DIPOLE

Directional front and rear. With 60-ft. coil of 300-ohm transmission line, antenna with terminal block, 5-ft. wood mast. With hardware.

28N22024—Wt. 6½ lbs.....**6.47**

Reflector Assembly for above—makes antenna unidirectional.

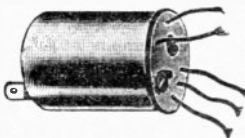
28N22025—Shpg. Wt. 3 lbs.....**3.23**



### TACO TRANSFORMER FOR FM ANTENNA

Permits use of FM antenna on either FM or AM without switching. Matches either band to antenna.

6N5968—Shpg. Wt. 1½ lbs...**1.91**



### FLEXIBLE FM DIPOLE

Consists of two folded dipole elements spliced to 300 ohm twin lead transmission line. Flattened end insulators permit use indoors under carpet, on room molding, etc. Losses in line measure only .85 db per 100 feet at 100 MC.

28N22038—Shpg. wt. 1 lb.....**88c**

### BELDEN FM POLY-POINT ANTENNA

Model 8322. Double-folded dipole that provides an essentially circular radiation pattern. It receives signals from all directions without turning. Carefully matched quarter-wave phasing stub provides high efficiency over the entire FM band. Strong, lightweight aluminum construction withstands severe ice loading and high winds. Easy to install. Special adjustable mounting base for flat or sloping surfaces. Factory assembled, ready for mounting. Complete with 65-feet of Belden 300-ohm Transmission line, 5 ft. mast and 4 three-inch Standoff Insulators. List Price 12.65.

28N21815—Shipping Weight 5 lbs.....**7.40**



### AMPHENOL 300 OHM TWIN LEAD-IN



Special low-loss 300 ohm transmission lead-in line is ideal for use with all TV and FM antennas shown on this page. Prevents loss of signal between antenna and receiver. Oil, acid, alkali and weather resistant.

28N17130—Per 100 ft.. **2.06** Per ft.....**2½c**

# TV BOOSTERS—MOUNTS—LENSES—FILTERS

## ADJUSTABLE MAGNIFYING LENSES

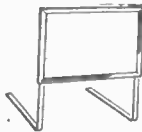


This remarkable new lens reduces glare, improves contrast, intensifies black and white and enlarges the screen as well. Filtered models contain no blue tinted oil like ordinary lenses. Made of special perfected material which enlarges and clarifies picture with brilliant intensity. Brackets fit any set—either console or table model—and adjustable for focusing and enlarging. Contact lens have cords.

- |   |              |
|---|--------------|
| 31N24383—Adj. Filter Lens—7" Tube. List 19.95.....          | <b>11.73</b> |
| 31N24384—Adj. Clear Lens—7" Tube. List 19.95.....           | 11.73        |
| 31N24385—Adj. Filter Lens—10" and 12" Tube. List 29.95..... | 17.61        |
| 31N24386—Adj. Clear Lens—10" and 12" Tube. List 29.95.....  | 17.61        |
| 31N24387—Contact Filter Lens—10" Tube. List 19.95.....      | 11.73        |
| 31N24388—Contact Clear Lens—10" Tube. List 19.95.....       | 11.73        |

## FLAT ENLARGING LENS

Increase your TV picture three times with this new magnifier. Lighter, because it's plastic without liquid filler. Flat surface makes it easier to look at. Attractively framed in mahogany. Lens may be suspended by its brackets or mounted under the set.



- |                                  |             |
|----------------------------------|-------------|
| 31N24427—8x10". List 13.95.....  | <b>9.30</b> |
| 31N24428—9x12". List 15.95.....  | 10.63       |
| 31N24429—12x16". List 19.95..... | 13.30       |

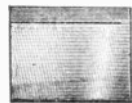
## SIG-MAX GIVES BETTER TV PICTURE



An amazing device for improving TV reception. Produces clearer, more noise-free pictures in low signal areas on higher channels. Clips easily to lead-in line.

- |                       |            |
|-----------------------|------------|
| 31N24404—Per Set..... | <b>59c</b> |
|-----------------------|------------|

## GENUINE POLAROID FILTERS



You can now enjoy a full evening of TV without eye strain. The famous polaroid principle eliminates glare, "softens" the TV image and yet gives better definition. Darks come out sharper, lights easier to look at. Easily mounted with special adhesive strip.

- |                               |            |             |
|-------------------------------|------------|-------------|
| 31N24422 For 7" Screen        | List 6.50  | <b>3.82</b> |
| 31N24423 For 10" Screen       | List 10.00 | 5.88        |
| 31N24425 For 12" Screen       | List 12.50 | 7.35        |
| 31N24424 For 10" Round Screen | List 13.50 | 7.94        |

## LUMARITH FILTERS

Low cost lumarith filters eliminate eye strain

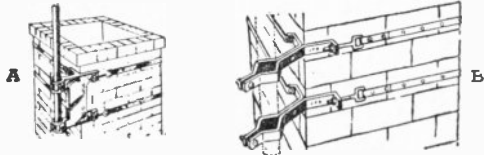
- |                              |                 |            |
|------------------------------|-----------------|------------|
| 31N24488 With adhesive strip | 7" Screen.....  | <b>49c</b> |
| 31N24489 With adhesive strip | 10" Screen..... | .59        |
| 31N24490 With adhesive strip | 12" Screen..... | .98        |
| 31N24432 With adhesive strip | 15" Screen..... | 1.69       |
| 31N24414 With adhesive strip | 16" Screen..... | 1.95       |
| 31N24491 With adhesive strip | 7" Round.....   | .69        |
| 31N24413 With adhesive strip | 10" Round.....  | 1.35       |

## SUCTION CUP FILTERS

Provides improved contrast, reduced glare. Held in place by four suction cups. Finest grade plastic.

- |                        |             |
|------------------------|-------------|
| 31N24486—10" size..... | <b>1.15</b> |
| 31N24487—12" size..... | 1.91        |

## CHIMNEY AND WALL ANTENNA MOUNTS



Adjustable mounting brackets to fit any chimney. Can be installed without tools in 5 to 10 minutes. Over 30,000 lb. tensile strength. Complete with strapping.

- |   |             |
|---|-------------|
| (A) Made of corrosion-resistant aluminum alloy..... | <b>3.95</b> |
| 28N21940.....                                       |             |
| (B) Made of heavy plated steel.....                 |             |
| 28N22046.....                                       | 1.49        |



Holds pole from 1" to 1 1/2" in diameter. 6" clearance between mast and wall. Heavily plated steel. With directions and hardware.

- |               |             |
|---------------|-------------|
| 28N21942..... | <b>1.39</b> |
|---------------|-------------|

Constructed of heavy galvanized steel. Clearance of 12 1/2" from mast to wall. Holds any pole from 1" to 1 1/2" in diameter.

- |               |             |
|---------------|-------------|
| 28N21943..... | <b>2.94</b> |
|---------------|-------------|

## POWER-PACKED ANCHOR BOOSTER

Model ARC-101-50. Recommended by famous consumer research organizations—gives 2 1/2 times more gain in signal strength across all channels! Eliminates noise and snow patterns—makes an outdoor antenna unnecessary in many cases. Features exclusive impedance matching of its output to input of set. List Price \$37.50.



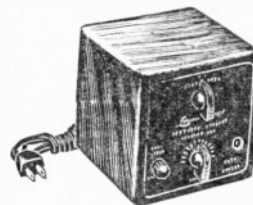
- |                           |              |
|---------------------------|--------------|
| 31N24438—Shpg. wt. 6 lbs. | <b>22.05</b> |
|---------------------------|--------------|

## NEW 2-STAGE ANCHOR BOOSTER

Same as above except two stages of amplification for extreme fringe areas. 1 1/2 to 2 times gain of single stage.

- |  |              |
|--|--------------|
| 31N24398—Model ARC-101-100. List \$44.95. Net..... | <b>26.43</b> |
|--|--------------|

## LAFAYETTE BOOSTER



Way ahead of the booster field in its dollar-value performance! Greatly increases signal strength of all 13 channels where signals are weak. Just plug into any 115 volt outlet and attach between the antenna and receiver. No internal connections are necessary. Ideal combination of economy and performance.

- |                                |              |
|--------------------------------|--------------|
| 31N24403 List Price 35.00..... | <b>19.95</b> |
|--------------------------------|--------------|

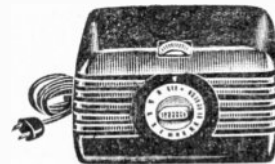
## MASCO 13-CHANNEL TELEVISION BOOSTER

Sensitive, all-channel booster that gives sharper, clearer reception in fringe and weak signal areas. Easy to install and operate—works on any receiver without internal connections. Shpg. wt. 6 lbs.



- |                          |              |
|--------------------------|--------------|
| 31N24448—List 35.00..... | <b>20.58</b> |
|--------------------------|--------------|

## JERROLD TV-FM BOOSTER



New model with Match-A-Tran variable step-impedance transformer, assuring best possible pictures on each channel. It pulls in weak stations in fringe areas and amplifies signals 20 to 30 times; the result is sharper, clearer pictures and brilliant FM sound. Helps eliminate interference and reduce "ghosts". Merely plug into 115V AC and connect between antenna and set.

- |   |              |
|---|--------------|
| 31N24397—Shipping Weight 5 lbs. List 37.50..... | <b>22.05</b> |
|---|--------------|

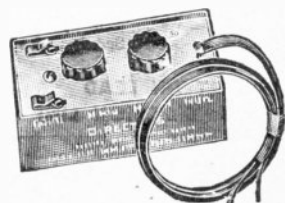
## JERROLD MATCH-A-TRAN

Variable step-impedance transformer improves TV reception wherever standing waves cause signal loss. Switch arrangement gives correct lead length for each channel. Attach to any booster.

- |  |             |
|--|-------------|
| 31N24396—Shipping Weight 2 lbs.—List 4.95..... | <b>2.91</b> |
|--|-------------|

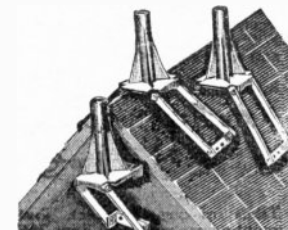
## TV INTERFERENCE ELIMINATOR

Dual absorption type wave trap that removes such complaints as FM and adjacent channel interferences, phase-shift, standing waves, and ghosts due to antenna mismatch, plus sound in pictures due to external causes. Has knob tuning, clips, and twin lead input.



- |                         |             |
|-------------------------|-------------|
| 31N24444—Wt. 2 lbs..... | <b>5.88</b> |
|-------------------------|-------------|

## SHUR ANTENNA MOUNT



Supports any standard FM or Television antenna array. Fits roof tops, and sloping sides, house sides—fits anywhere. Mounting brackets are easily adjustable to any angle. Sustains weight of fixed standard array without need of guy wires. Rugged, cast aluminum mounting base fits antenna poles up to 1 1/8" in diameter. Complete with all

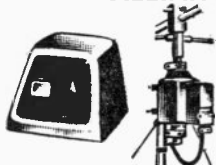
- |  |             |
|--|-------------|
| mounting hardware and full instructions..... | <b>5.25</b> |
| 28N21986—Shpg. Wt. 5 lbs.....                |             |

SEE PAGE 88 FOR TELEVISION WAVE TRAPS



# ANTENNA TOWERS—ROTATORS—ACCESSORIES

## ALLIANCE BEAM ROTATOR



Remote control mechanism for rotating amateur beam and TV antennas directly to signal. Compact, low cost unit that's easy to install and operate. Provides 360° rotation at 1 RPM. Instant Start-Stop or Reverse at any point. Automatically stops after completion of 360° rotation. Heavy duty, AC motor and gear mechanism mounted in waterproof housing. Has special clamps for attaching to masts up to 1 1/2" diameter. Supports up to 20 lbs. System includes Rotator, Remote Control and instructions. Less 4-wire connecting cable.

28N21980—List Price 39.95...Wt. 12 lbs.....NET...23.49  
New improved unit similar to above, except control unit has built-in meter to indicate position of antenna.  
28N21932—List Price 49.95.....NET 29.37  
4-Cond. flat cable for above.  
19N16064—Per 100-ft. 2.70.....Per Ft. .03

## MAGNE-ROTOR



Improved TV reception with a motorized push-button control unit (not an electric motor) that connects directly to any antenna. Sit in your living room and rotate your antenna for perfect peak reception on all channels. Locks at any point; cannot be turned by wind. Makes a complete 360° turn in either direction. Automatic signal light goes off when cycle is completed. Plugs into any 110-volt AC source.

28N21991—Ship. Wt. 8 lbs. List 29.95...NET 17.97

Three Conductor flat cable for above.  
19N16057—Per 100 ft. 1.80.....Per Ft. .02

## SOUND-POWERED PHONE



Self-powered system for inexpensive 2-way talking. Ideal when installing radio and TV antennas—the antenna itself may be used as the line. Use at home or office as an intercom. Provides excellent fidelity up to 25 miles.

32N14018—List 12.50.....Per Phone 8.75

## TELEMIRROR



Plate glass mirror gives non-distorted reflection of picture tube exactly where you want it. Permits one man to do and efficient service job. Sturdy and lightweight 8x10" mirror with nickel plate steel frame. Handy slide on 44" stand provides quick and easy means of adjusting mirror to desired angle. Non-tip base in black crackle finish.

31N21984—Shpg. Wt. 7 lbs. List 6.95.....4.09

## STEEL GUY WIRE



Six strands of No. 20 high tensile strength, galvanized steel wire.

28N21927—50-Ft. Roll... 39¢  
28N21928—100-Ft. Roll... 69¢  
28N21929—500-Ft. Spool... 2.95

## TWIN LEAD TRANSMISSION LINE



300-ohm flat twin lead transmission line for all TV installations.

19N17140—100 Ft.... 1.25  
1000-Ft.....11.25

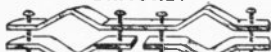
## 5-FOOT ANTENNA MAST



New, corrosion resistant steel mast. One end is tapered. Specially designed "Jam Fit" construction with locking key. Fit readily into each other. 1 1/2" outside diameter.

28N21978 82¢  
10 For.....7.38

## TV MAST COUPLER BRACKET



Versatile unit for extending and adjusting antenna poles to most efficient position. Flexible and easy to install. Fits all poles up to 1 1/2", also any 2 poles of different diameters. 3/8" thick alum. With zinc plated 3/4" bolts, nuts and washers, ready to use.

28N21948.....Per Pair 88¢

## STEEL TURNBUCKLES



Takes up guy-wire slack. Rust-proof galvanized steel. Size: 7/8" open, 5/8" closed.

28N21939.....Each 15¢  
10 For.....1.32

## STEEL ANTENNA TOWERS

Strong, durable towers for TV antenna installations that require plenty of height. Mast collars accommodate up to 1 1/2" tubing. Mast adaptor at the top and lower adaptor 24" below may be used for either locking the mast in directional position or as a bearing bracket for rotators. All towers are complete with bolts, screws, braces, clamps and mast pipe adaptors. Self-supporting types include feet; guyed tower includes guy wires.



## SELF-SUPPORTING TOWERS

5-Ft. Tower, 4 posts.  
28N21956—Shipping Weight 28 lbs.....7.63  
10-Ft. Tower, 4 posts.  
28N21956—Shipping Weight 43 lbs.....13.83  
15-Ft. Tower, 3 posts.  
28N21957—Shipping Weight 75 lbs.....22.40

## GUYED TOWERS

32 1/2-Ft. Guyed Tower. May be increased to approximately 75 feet by adding 5-ft. sections listed below.  
28N21958—Shipping Weight 160 lbs.....23.75  
5-Ft. extra sections for 32 1/2-ft. Guyed Tower.  
28N21959—Shipping Weight 18 lbs.....6.13

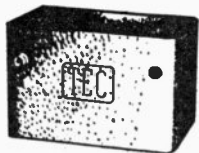
## ANTENNA COMPASS



Speeds up TV installations. Permits one man orientation of TV antenna. Pocket meter clips on to video input of cathode ray tube. By connecting an extension cord, compass can be carried to antenna site. With test pattern tuned in on weakest station, merely rotate antenna for maximum deflection of compass. Identifies "ghosts" and permits peaking of RF mixer and oscillator sections. Cable and clips included. 4 1/2"x4 1/2"x1 1/4".

28N21747—Shpg. Wt. 1 lb.....16.35

## TELECOUPLER FOR TV ANTENNAS

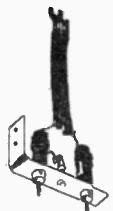


A low-cost solution to multiple installation of TV and FM receivers in radio stores, hotels and apartment houses. Small, newly designed electronic circuit, easy to install. Each one serves up to 8 TV sets. 3 units may be connected together for simultaneous operation of 24 TV receivers from one antenna. Provides greatest isolation between sets with very small loss; operation of each antenna outlet completely independent. Matches either 300 or 75-ohm sets in various combinations.

28N21968—Shipping Weight 6 lbs.....58.50

## SIGNAL KLEER WAVE TRAP

Especially designed to eliminate FM image interference and amateur harmonic interference. Does not decrease TV signal received by set. Installation is simple. Model 300-10-30. Eliminates harmonic interference from 14 and 28 MC bands.  
12N12442.....1.62  
Model 300-80-110. Eliminates FM image interference.  
12N12443.....1.62



## INTERLOCK TV LINE CORD



Replacement cord for RCA, Philco, GE, Admiral and others. It has regular molded plug on one end and special rubber plug on other to fit TV sets. U/L approved.

33N13319—6 Ft. Brown Cord... 39¢

## VEE-D-X LIGHTNING ARRESTOR



For TV and FM sets. High frequency, low loss unit that does not vary impedance. Unnecessary to cut transmission line or change spacing for installation. Made of low-loss plastic.

28N24442—Shipping Weight 1 lb.....1.47

## RCA LIGHTNING ARRESTOR



Specially designed to protect TV and FM receivers. Attaches to 300-ohm twin lead without soldering or strapping. May be mounted on any indoor water pipe from 1/2" to 2" diameter.

28N24443—Shipping Weight 5 oz.....66¢

## JFD LIGHTNING ARRESTOR



No. AT102. Twin lead type. Grounds lightning and all other static charges. Can be attached anywhere. No wire stripping necessary. Made of high quality glazed porcelain. U. L. app.

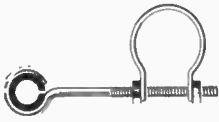
28N24433—12 for 14.26.....1.32

# J.F.D. ANTENNA ACCESSORIES

## INSULATORS

These economically priced insulators save time and effort on every TV/FM antenna installation. Mast lead-in and stand-off types keep cable lines secure and well anchored.

### MAST LEAD-IN



#### FOR 1" MAST

38N16862—3½" screw eye.  
Ea. 9c 10 for 81c 50 for 3.85  
38N16869—5½" screw eye.  
Ea. 12c 10 for 1.08 50 for 5.13  
38N16870—7½" screw eye.  
Ea. 12½c 10 for 1.13 50 for 5.37

#### FOR 1¼" MAST

38N16963—3½" screw eye.  
Ea. 9c 10 for 81c 50 for 3.85  
38N16964—5½" screw eye.  
Ea. 12c 10 for 1.08 50 for 5.13  
38N16965—7½" screw eye.  
Ea. 12½c 10 for 1.13 50 for 5.37

#### FOR 1½" MAST

38N16966—3½" screw eye.  
Ea. 11c 10 for 99c 50 for 4.70  
38N16967—5½" screw eye.  
Ea. 12c 10 for 1.08 50 for 5.13  
38N16968—7½" screw eye.  
Ea. 13c 10 for 1.17 50 for 5.58

### TWIN LEAD STAND-OFF



First choice for fast, secure anchoring of transmission lines. Single screw eye.

38N16957—3½" screw eye. Ea. 3½c  
10 for 32c 100 for 3.04  
38N16990—5½" screw eye. Ea. 5c  
10 for 45c 100 for 4.27  
38N16960—7½" screw eye. Ea. 5½c  
10 for 50c 100 for 4.75

### DRIVE-IN TYPE



Made of galvanized steel. For Twin Lead.

38N16994—3½" screw eye. Ea. 3½c  
10 for 32c 100 for 3.04  
For Coaxial Cable.

38N16995—3½" screw eye. Ea. 3½c  
10 for 32c 100 for 3.04

### PIPE STRAP



Fastens masts to walls, roofs, cornices, etc. Quickly secured, made of galvanized steel.

28N21938...Ea. 5c 10 for 45c

### U-BOLT



Made of galvanized steel. Supplied with nuts and washers in place.

28N21931...Ea. 15c 10 for 1.35

### COAXIAL STAND-OFF



Single screw eye for coaxial cable up to ½" diameter. Anchors cable lines securely.

38N16959—3½" screw eye. Ea. 3½c  
10 for 32c 100 for 3.04  
38N16991—5½" screw eye. Ea. 5c  
10 for 45c 100 for 4.27  
38N16961—7½" screw eye. Ea. 5½c  
10 for 50c 100 for 4.75

### DOUBLE MAST LEAD-IN



#### FOR 1" MAST

38N16974—3½" screw eye.  
Ea. 21c 10 for 1.89 50 for 8.98  
38N16975—7½" screw eye.  
Ea. 24c 10 for 2.16 50 for 10.26

#### FOR 1¼" MAST

38N16980—3½" screw eye.  
Ea. 21c 10 for 1.89 50 for 8.98  
38N16981—7½" screw eye.  
Ea. 24c 10 for 2.16 50 for 10.26

#### FOR 1½" MAST

38N16982—3½" screw eye.  
Ea. 24c 10 for 2.16 50 for 10.26  
38N16983—7½" screw eye.  
Ea. 26c 10 for 2.34 50 for 11.11

### DOUBLE SCREW EYE STAND-OFF

Same as above, but less clamp.

38N21850... 3" .....Ea. 14c  
10 for 1.26 50 for 5.98

38N21851... 5 1/2" .....Ea. 16c  
10 for 1.44 50 for 6.84

38N21852... 7-1/2" .....Ea. 17c  
10 for 1.53 50 for 7.27

### SNAP-ON TYPE



3½" screw eye.  
38N16992—1" Clamp. Ea. 6c  
10 for 54c 100 for 4.86  
3½" screw eye.  
38N16993—1¼" Clamp. Ea. 6c  
10 for .54 100 for 4.86

### MAST CLAMP



Notched retaining clamp holds two masts firmly together in sturdy U-bolt. Made of galvanized steel.

28N21922..Ea. 26c 10 for 2.34

### FLEXIBLE STRAPPING



Serves many uses in antenna installation work. Good for mounting masts on chimneys, posts, etc. Perforated steel.

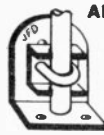
28N21947—12-Ft..... 44c  
28N21948—25-Ft..... 91c  
28N21949—100-Ft..... 2.91

### DRIVE RING



Acts as dependable anchor for guy wire when hammered in at an angle. Made of galvanized steel.

28N21930.....Ea. 5c  
10 for 45c 100 for 4.27

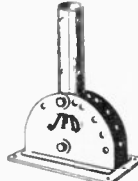


### ALL-ANGLE MOUNT

Permits setting of ½" to 1¼" masts at most suitable angle for maximum reception. Made of rust-resistant steel. W/ hardware.

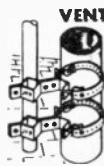
28N21842...4.75 dz.....Ea. 44c

### MOUNT MASTER



Solves almost all antenna mast mounting problems. Perforated flange permits setting of mast at any angle. Mounts anywhere—on walls, flat or slanted roofs. Pre-assembled with hardware in place. Heavy gauge steel.

28N21843..... 4.41

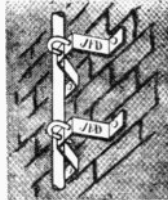


### VENT PIPE MOUNT

Fits snug on round-shaped objects. Firmly grips ½" to 1½" masts. Rust-resistant steel. Supplied with hardware.

28N21841..... Pr. 2.12

### U-BOLT BRACKET



One of the most popular and practical antenna mounts. Sturdy U-bolt securely grips all masts from 1" to 2" OD. Made of rust-resistant steel. Supplied with hardware.

28N21837—3" size ..... Pr. 1.06  
28N21838—4" size ..... Pr. 1.23  
28N21839—7" size ..... Pr. 1.47

### RING CLAMPS



Ruggedly constructed; easily adjustable. Made of corrosion-resistant steel.

For ¾" to 1" masts.  
28N21917..Ea. 6c 10 for 54c  
For 1¼" to 1½" masts.  
28N21918..Ea. 6c 10 for 54c

### "FLOATING" GUY RING



Free-floating. Will not bind. Retains guy wire securely. Made of galvanized steel.

For 1" mast.  
28N21919..Ea. 12c 10 for 1.08  
For 1¼" mast.  
28N21920..Ea. 12c 10 for 1.08  
For 1½" mast.  
28N21921..Ea. 12c 10 for 1.08

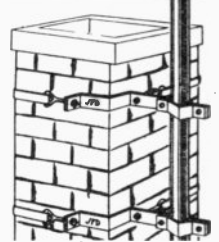
### BRIDLE RING



Anchors guy wire securely and permanently. Made of galvanized steel.

28N21923.....Ea. 5c  
10 for 45c 100 for 4.27

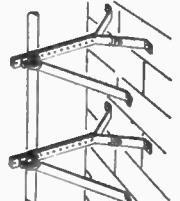
### CHIMNEY MOUNT



Can be erected in minutes... Without special tools or drilling. Adjustable, two-section design permits unlimited spacing between brackets for maximum support of masts ½" to 1½" OD. Complete with two 12-ft. lengths of ¾" galvanized steel bands and hardware.

28N21834..... 1.55

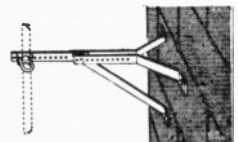
### WALL BRACKET



Anchors ¾" to 1¼" masts safely and securely. Adjustable 6" to 15" from walls. Heavy gauge rust-resistant steel.

28N21835..... 4.41

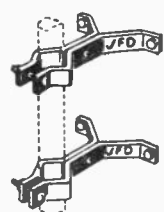
### EXTENSION BAR



Extension bar for above wall bracket. Extends range of wall clearance to 24".

28N21836..... 1.76

### VERTICAL BRACKET



Extends masts 6" from wall. Grips masts ½" to 1½" OD. Made of corrosion-resistant galvanized steel. With hardware.

28N21840..... 2.12

### MAST CONNECTOR



Joins masts quickly and securely. Made of rust-resistant steel.

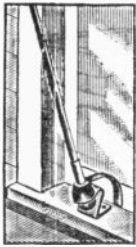
For 1" to 1½" masts.  
28N21915..... 58c  
For 1¼" to 1¾" masts.  
28N21916.....Ea. 58c

WE GUARANTEE SATISFACTION AT ALL TIMES



# AM ANTENNAS AND ACCESSORIES

## RELIANCE WINDOW MAST



Enjoy the benefits of an outside aerial without the inconvenience of a roof installation. This fast, easy window mast antenna improves reception on both standard broadcast and short wave. Easily installed in only three minutes. Attach lead-in strap, screw bracket down on sill, and the job is done. 3-section rod extends to 80 inches, telescopes to 40 inches. Cadmium plated steel construction. Includes mtg. screws, hardware and instructions.

28N22006—Shpg. wt. 1½ lbs.....**1.73**

## LOW-COST AERIAL KIT



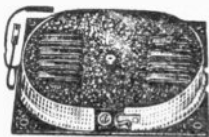
Has 100-ft. 7/26 aerial wire, 40 ft. insulated lead-in, 25 ft. ground wire, arrester, ground clamp, lead-in strip, 2 insulators, nail knobs.

28N16476—Shpg. wt. 6 lbs.**1.09**

**ECONOMY KIT:** 100 ft. 7/26 aerial wire, 25 ft. lead-in, lead-in strip, ground clamp, 2 insulators, nail knobs.

28N16478—Shpg. wt. 2 lbs.**69c**

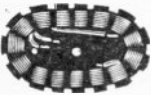
## ICA TENNA-SCOPE



New, built-in tuned radio antenna eliminates the use of an outside aerial and ground. Gives better selectivity and higher signal-to-noise ratio. May be connected to any radio without the necessity of making any circuit changes.

28N16452—Shpg. wt. 1 lb..**1.76**

## ANTENNA LOOP



For battery and midjet sets. Replaces antenna coil, high inductance permits removal of turns for adjustment. 4¾" x 8".

28N16450—Each.....**48c**

Lots of 10.....**3.95**

## ICA 3-IN-1 RADIO TUNER

Antenna tuner, wave trap, aerial eliminator all in one instrument, depending on the manner of its connections to the radio set. Operates on any make or model set—enhancing performance.

32N12678—Each.....**49c**

10 for.....**4.50**



## PLASTIC INSULATOR



Low-loss polystyrene insulator for use with 300 ohm twin-lead. Holds line securely but will not pinch and change impedance. Attaches with a single wood or metal screw.

38N16958.....100 for 4.50..... Each **5c**

## WARD STAND-OFF INSULATOR



Unique plastic design holds any flat transmission line securely, but absolutely cannot pinch line or change impedance. Does not have to be strung on line. One screw attachment. Clear plastic sheds water.

38N16956—Each.....**9c**

## MUELLER TWIN LEAD ANTENNA CLAMP

Here is a new standoff type insulator that clamps on masts, crossarms, pipes, beams, etc. up to 1½" thick. Easy to use; grips mast securely. It rigidly supports the twin lead transmission line lead-in 2½" from the mast or pipe. All metal parts are completely weatherproofed. Shipping weight 6 oz.

38N17107—For Twin Lead. 10 for 1.37..... Each **15c**



## VERTICAL HOME ANTENNA

Eliminates dangerous horizontal wires, insures clear, noise-free reception. Includes special 12-ft. 4 section antenna mast of rust-proof, flexible steel, 40-ft. lead-in wire, 10-ft. ground wire, arrester, insulators, screws, 2 pipe straps, one strap mtg. assembly.

28N21824—Shpg. wt. 4 lbs.....**3.70**



## ¾" PLATED GROUND RODS

Use if pipe ground is not available. Heavy steel yoke for head.

28N17187 4 ft. 48c 10 for 4.56  
28N17188 6 ft. 66c 10 for 6.27



## SINGLE LEAD-IN STRIP

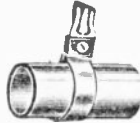
Clip terminal each end.  
28N17101—Each 5c 10 for..**45c**



## "GRIP" GROUND CLAMP

Makes a vise-like grip on pipe. Sharp pointed screws make perfect contact.

28N17105.....**10c**  
10 for.....**88c**



## PIPE GROUND STRIPS

Broad ground clamp adjustable to fit any size pipe up to 2" in diameter. Provided with clip for attaching ground lead.

28N17102.....Each **5c**  
SAVE MORE! 10 for.....**45c**



## BRACH NEON DUPLEX ARRESTER

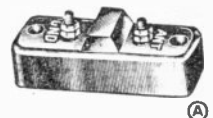
For sets having doublet antenna. Uses a Neon Tube instead of an air-gap or resistance. Glows during lightning storms. Carries heavy discharges safely. Fully Underwriters Approved.

28N16701—Shpg. wt. 1 lb.....**1.15**

## PORCELAIN ARRESTER

(A) Housed in brown glazed porcelain; approved.

28N16753—Each.....**19c**  
10 For.....**1.70**



## ARRESTER FOR DOUBLET

(B) An approved arrester for the doublet type of antenna. Air-gap type, insulated from ground. Porcelain case.

28N16950.....**43c**



## AERIAL INSULATORS

Dependable porcelain insulators. "C" is screw in type for holding lead-ins or grounds off walls; "D" is standard nail-knob; "E" is strain insulator.

No.	Type	Size	Each	10	100
28N16972	C	3"	5½c	50c	4.50
28N16986	C	7"	5c	45c	4.05
28N16977	D	2"	4c	35c	3.15
28N16802	E	2½"	5c	38c	3.45



## GLASS INSULATORS

(F) Special tempered glass, unaffected by heat or cold. Has a high tensile strength and gives long, dependable service. Choice of 2 sizes, 3" and 3¾" long.

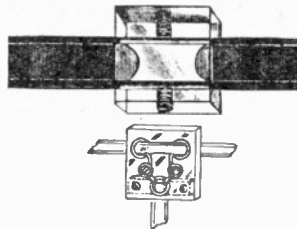
28N16850—3" long.....**5c**  
10.....**45c** 100.....**4.05**  
28N16851—3¾" long.....**7c**



## TWIN-LEAD SPLICE

Speeds splicing without the need for twisting or soldering.

28N16954.....**11c**  
10 For.....**99c**



## MOSELY DIPOLE CONNECTOR

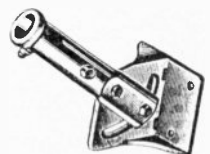
For center connecting 300-ohm line type folded dipole. Positive connection without soldering. Hardware included.

28N16953—Wt. 2 oz.....**34c**

## ANTENNA MOUNT

New "Universal" type for speedy installation. Fits pipes, masts, up to 1¼" diameter. Allows complete rotation and adjustment after installation. Cast aluminum base.

Shpg. wt. 2½ lbs.  
28N22045.....**3.96**



## CHIMNEY MOUNT BRACKET

Pair heavy plated steel brackets with sufficient binding to fit average chimney. Set up in 5 minutes without special tools.

28N22046—Shpg. wt. 2 lbs..**1.59**



# AUTO ANTENNAS, VIBRATORS, AND ACCESSORIES



## MALLORY REPLACEMENT VIBRATORS

Mallory replacement vibrators for auto radios and battery operated household receivers. Precision made, Mallory vibrators are noted for their long life and trouble-free service. All vibrators are rated at 6 volts except types W245A and W246 are rated at 4 volts and T4000, T4002 and T4003 are rated at 2 volts.

Stock No.	Type	Each	Stock No.	Type	Each	Stock No.	Type	Each
27N6114	922	4.88	27N6136	294	2.62	27N6084	852	2.62
27N6096	245	4.12	27N6137	298	3.38	27N6085	853	2.62
27N7278	245A	4.12	27N6093	505P	2.62	27N6086	854	2.62
27N6088	245C	4.12	27N7285	506P	3.38	27N7276	859	2.62
27N7280	W245A	4.12	27N6077	509P	2.20	27N6076	860	2.62
27N6097	246	4.12	27N6073	514	4.12	27N7293	870	2.62
27N7281	246A	4.12	27N6074	716	4.12	27N7287	903M	2.20
27N7283	W246	4.12	27N6062	725C	4.56	27N6079	952W	4.12
27N6169	247	4.12	27N6107	742	4.12	27N6080	953W	4.12
27N6098	248	4.12	27N7289	743	4.12	27N6081	954	4.12
27N6171	249	4.12	27N7277	748	4.12	27N7275	1100	2.62
27N6130	273C	4.88	27N6063	825C	3.67	27N7273	1501	3.38
27N6167	273D	4.88	27N6108	826C	3.38	27N7271	T4002	5.70
27N6135	292	3.38	27N7292	839	3.38	27N7272	T4003	5.23

## MALLORY REPLACEMENT GUIDE

Includes alphabetical listing of radio and vibrator power supplies by mfg. and model number. Gives Mallory replacement in each case. No charge with purchase of Vibrator.

23N19993..... **15c**

## MALLORY VIBRATOR DATA BOOK

A complete Technical manual on the operation and application of vibrators.

23N19992..... **98c**

## CORNELL-DUBILIER VIBRATORS



C-D, known to servicemen as one of the largest manufacturers of quality condensers, now offers a line of popular replacement vibrators built to the same rigid standards of quality for which they are famous. New "micro-metric" equipment permits easy production maintenance of high tolerances. New type pole coil and new type mounting. Completely enclosed in sponge rubber. Hermetically sealed.

Stock No.	C-D Type	Mallory Equiv.	Each	Stock No.	C-D Type	Mallory Equiv.	Each
27N6023	C00	294	2.62	27N6031	C31	294SW	2.62
27N6024	C01	510P	2.62	27N6032	C35	851	2.62
27N6025	C03	294C	2.62	27N6033	C42M	859†	2.20
27N6026	C14	1100	2.62	27N6034	D00	248	4.12
27N6027	C20P	505P	2.62	27N6035	D06	249	4.12
27N6028	C21	654	2.62	27N6036	D25	273C	4.88
27N6029	C23P	507P	2.20	27N6037	D26	716	4.12
27N6030	C26P	859*	2.20				

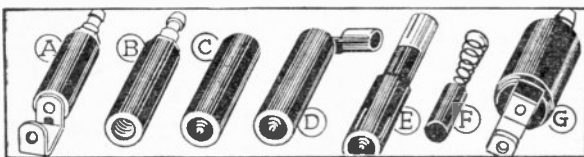
\* For Philco sets.

† For Motorola sets.

## CORNELL-DUBILIER VIBRATOR GUIDE

27N19728..... **FREE**

## RELIANCE AUTO RADIO SUPPRESSORS



Quality black molded cases.

No.	Type	Description	Each
27N5283	A	Standard Spark Plug	
27N5246	A	Special for Ford V8	
27N5278	B	Compact Spark Plug	
27N5247	B	Compact Spark Plug Type for Ford V8	
27N5253	C	Cable Type for Buick	
27N5285	D	Elbow Cable Type	
27N5279	E	Standard Distributor	
27N5293	F	Distributor Type for Ford 1936 and earlier	
27N5277	F	Distributor Type for Ford 1937-38-39-40	
27N5256	*	Elbow Type for 1938 Plymouth	

Each..... **14c**  
Per 10 Assorted..... **1.26**  
\* Like "A" with "L" connector.

## WIRE WOUND UNITS G

Efficient type, do not impair motor efficiency. Low d.c. resistance, high inductance. Acts as r.f. choke. Extra rugged. 27N5296—Spark Plug Type. 27N5297—Distributor Type. Each 35c; 10 for..... **3.15**

## MASTER DISTRIBUTOR UNIT

Hermetically sealed; impervious to moisture and heat. D.C. resistance is 10,000 ohms. 27N5284..... **39c**  
5 For..... **1.72**



## WHEEL STATIC ELIMINATOR



27N5294—Each..... **8c**  
10 for..... **72c**

Eliminates front wheel noise. Easy to install. Place in each hub cap. All rust-proof.

## ANTENNA CONNECTOR



Two piece metal container with fibre insulation. 27N16714..... **6c**  
10 for..... **54c**

## RELIANCE "UNIVERSAL TYPE" AUTO RADIO ANTENNAS

### ADJUSTABLE TELESCOPIC

3 section, 56" type. Single hole mount on any contour. Ball swivel with locking point permits adjustment to any angle and positive lock. Has excellent pickup with minimum noise. Permanently attached shielded moisture-proof 36" lead-in and bayonet adapter. Rust-proof chromium plated.

27N22007..... **2.19**  
Lots of 5..... **1.95**



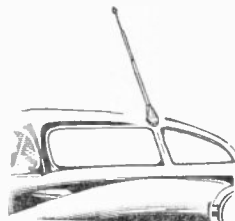
### DISAPPEARING

3 sections, 56". Telescopes to 4". Single hole mount. Triple chrome plate brass with bakelite insulation, static discharge tip. Has 48" coax lead-in with plastic insulation, outer shielded loom, bayonet and swivel connectors.

27N22009..... **3.19**  
Lots of 5..... **2.85**



## ANTENNA RODS



For Buicks and other cars using similar windshield mount type antennas. 3 sections, 36" maximum length. Easy to install—set rod in socket and tighten set screw. Triple chrome plated brass with static tip. 27N21967—For Buicks... **1.49**  
Lots of 5..... **1.35**  
27N21967—For Ford Cars... **1.49**

## SIDE COWL MOUNT

3 section, 62-inch, 2 stanchion mounting. Has rustproof triple chrome plated finish and streamlined insulators. Fits the latest streamlined bodies as well as older models. Complete with 36-inch moisture proof lead-in and bayonet type adapter. Shipping weight 2 lbs.

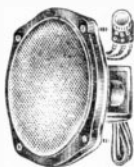
27N22000..... **1.79**  
Lots of 5..... **1.59**

Same features described above, except 106-inches long, 4 section.

27N22001..... **2.98**  
Lots of 5..... **2.75**



## AUTONE AUXILIARY SPEAKER



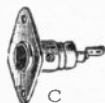
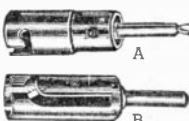
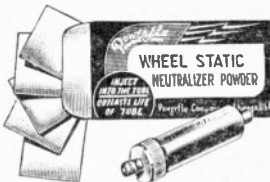
Large 6" PM Speaker mounts in shelf behind rear seat, enables passengers to enjoy clear reception without distracting driver. 3-way control switch mounts on dash, permits operation of front and rear speakers separately or together. May be used with home receivers also. Wire, escutcheon plate and grill included.

22N19106—Shelf, wt. 3 lbs. .... **5.88**

## TIRE STATIC NEUTRALIZER POWDER

Consists of simple injector and bags of anti-static powder. When injected into tire it eliminates car radio static, door handle shocks, and spark bites in inner tubes. Powder is packed in individual bags, one for each tire, including spare. Tire need not be completely deflated.

27N15586—Injector only..... **78c**  
27N15581—Powder only for 5 tires..... **49c**

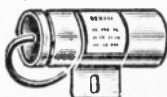


## ICA ADAPTERS

A. 27N16715—No. 2372—Lead-in Adapter—Converts Delco to Motorola Fitting..... **16c**  
B. 27N16716—No. 2375—Motorola Pin Plug..... **6c**  
C. 27N16717—No. 2378—Motorola Shielded Jack..... **12c**  
D. 27N16718—No. 2396—Adapter—Converts Motorola Pin Plug to Delco Type..... **5c**

## GENERATOR CONDENSERS

Standard auto radio condensers designed to eliminate generator noise. Fully shielded. Dirt and oil proof.



Stock No.	Mfd.	Each	10 For
27N14220	.25	25c	2.25
27N14215	.5	27c	2.43
27N14216	1.0	39c	3.50



# BELDEN QUALITY WIRE & CABLE

## TRANSMISSION LINE CABLES



8204

8204: 72 ohm twisted pair, No. 18, stranded (7x26) No. 26 tinned; cotton wrap, rubber ins. 2 cond. cable weather-resistant white cotton braid overall; .190" O.D. 21 mm/ft. VP 61% Atten./C' .53db at 1 mc, 12.3 db at 100 mc.

19N20860—Bulk. Cost per ft. . . . . 3¢  
19N16174—500 ft. spool. . . . . 10.88



8209

8209: 72 ohm shielded twisted pair, conductors and outer cotton like 8204, but cabling includes paper wrap and lined copper braid; .235" OD. 32 mm/ft. between conductors, VP 57% Atten./C' 1.1 db at 1 mc, 14.9 db at 100 mc.

19N20861—Bulk. Cost per ft. . . . . 6¢  
19N16162—500 ft. spool. . . . . 22.20



8205

8205: Twisted pair, No. 22, stranded (7x30) tinned, rubber ins. Cabled with weather-resistant cotton braid; .175" O.D. For use with extension speaker and control circuits.

19N20862—Bulk. Cost per ft. . . . . 2¢  
19N16171—500 ft. spool. . . . . 7.79

## Rubber Jacketed Portable Cord

No. 18, stranded (41x34) bare copper; cotton wrap, 1/4" rubber ins. Cabled with fillers, cotton wrap, 1/4" rubber overall.



8452



8453

Mfr's No.	Cond. OD.	Stock No.	Cost Ft.	Stock No.	Cost 100 Ft.
8452	2-245"	19N20910	4¢	19N20909	3.17
8453	3-275"	19N20880	5¢	19N20879	3.97
8454	4-265"	19N20881	6¢	19N20882	4.56

## SHIELDED AUTO & AIRCRAFT RADIO WIRE

8664: No. 26 solid tinned, copper shield polyethylene ins., tinned copper braid, vinyl cover; .245" OD., 15mm/ft.

19N20863—Bulk. Cost per ft. . . . . 8¢  
19N20884—100 ft. spool. . . . . 4.93

Flex. stranded tinned copper, cellophane wrap, rubber ins., lacquered cotton braid, lacquer coating, tinned copper braid shield. .170", .195", .225" OD.



8664



8656

Mfr's No.	Gauge	Per Ft. No.	Cost	100 Ft. Spool No.	Cost
8656	No. 16	19N16219	5¢	19N20864	3.67
8655	No. 14	19N16218	6¢	19N20865	4.41
8654	No. 12	19N16223	7¢	19N20866	5.44

## Shielded Cable, Rubber Overall

No. 20, stranded (26x34) tinned copper; cotton wrap, rubber ins. Cabled with cotton braid, tinned copper braid, cotton wrap, rubber overall.



8423

Pkg.	8423, 3-cond. Stock No.	Each	8424, 4-cond. Stock No.	Each
Per ft.	19N20869	.08	19N20870	.10
50 ft.	19N20843	2.94	19N20878	3.67
250 ft.	19N20845	15.47	19N20877	19.84

\*.280" OD. †.305" OD.

## LITZ WIRE, FOR RF COILS

19N16065—8817: 7 No. 41, 2 nylon wraps—100 ft. spool. . . . . 24¢

## TINNED BUS BAR, 100-ft. COILS

19N16111—8012, No. 14. . . . . 81¢ 19N16112—8011, No. 12. . . . . 1.14



8941



8943

## GENERAL USE HOOK-UP WIRE

Tinned conductor, cellulose acetate yarn wrap, cel. acet. braid, lacquer coating. 1000 V. breakdown. OD's from .072" to .087". Choice of black, blue, green, red, yellow.

Pkg.	No.	Each	8943—No. 18 stranded Pkg. No.	Each
25 ft.	19N16066	26¢	19N16068	28¢
100 ft.	19N16080	96¢	19N16081	1.05
1000 ft.	19N16067	7.87	19N16069	8.82
8945—No. 18 solid Pkg. No.	8947—No. 18 stranded Pkg. No.	Each	Each	
25 ft.	19N16070	29¢	19N16073	32¢
100 ft.	19N16071	1.12	19N16074	1.23
1000 ft.	19N16072	9.55	19N16075	10.66
8938: No. 14 stranded, red and black only.				
19N16158—25 ft. coil. . . . .		43¢		
19N16082—100 ft. spool. . . . .		1.70		
19N16157—500 ft. spool. . . . .		7.72		



8841



8839

## LOW-LOSS RF PUSH-BACK WIRE

Tinned conductor two cellulose acetate yarn braids, waxed. 1000 volts breakdown. OD's from .067" to .095". Black, blue, green, red, yellow. Specify color.

Pkg.	No.	Each	8839—No. 20 stranded Pkg. No.	Each
25 ft.	19N16246	.29	19N16249	.32
100 ft.	19N16247	1.09	19N16248	1.21
1000 ft.	19N16245	8.97	19N16250	10.29
8861—No. 18 solid Pkg. No.	8844—No. 18 stranded Pkg. No.	Each	Each	
25 ft.	19N16199	.31	19N16208	.35
100 ft.	19N16204	1.21	19N16205	1.32
1000 ft.	19N16203	10.00	19N16209	11.02
8863—No. 16 solid Pkg. No.	8862—No. 16 stranded Pkg. No.	Each	Each	
25 ft.	19N16220	.35	19N16230	.41
100 ft.	19N16221	1.43	19N16231	1.55
1000 ft.	19N16222	12.57	19N16232	13.90

## MICROPHONE CABLE, VINYL COVERED



8411

8411: No. 25 stranded tinned copper and steel mixed, polyethylene ins., tinned copper braid; 40 mm/ft., .140" OD.

19N20857—25 ft. coil. Cost. . . . . 91¢  
19N20858—100 ft. spool. . . . . 3.14



8401

8401: Same construction as 8411 but heavier ins. 25 mm/ft., .200" OD.

19N20846—25 ft. coil. Cost. . . . . 1.11  
19N20847—50 ft. coil. . . . . 2.20  
19N20844—100 ft. spool. . . . . 4.41



8422

8422: 2-cond. No. 22, stranded (16x34), Tinned copper, polyethylene ins. Cabled with cotton braid and tinned copper braid; .225" OD. 32 mm/ft. between one conductor and remaining conductor connected to shield. Vinyl overall.

19N20868—Bulk. Cost per ft. . . . . 6¢  
19N20874—25 ft. coil. . . . . 1.32  
19N20875—50 ft. coil. . . . . 2.65  
19N20876—100 ft. spool. . . . . 5.29

## RUBBER COVERED MICROPHONE CABLE



8410

8410: Tinned copper and tinned steel. Flexible stranding. Waxed, cellulose yarn braid; rubber insulation; rayon braid; tinned copper braid shield; rayon wrap; black rubber jacket.

19N20833—Bulk cost per ft. . . . . 7¢  
19N20834—Cost per 50 ft. coil. . . . . 2.94  
19N20835—Cost per 100 ft. spool. . . . . 5.66

## Indoor Aerial & Lead-in Wire

8414: Indoor aerial, flexible No. 25, 13 No. 36 tinned, vinyl ins.

19N16130—25 ft. card. Cost. . . . . 18¢  
19N16131—500 ft. spool. . . . . 1.84



8414



8200

8200: Lead-in, No. 18, 7 No. 27 tinned, rubber ins. .126" OD.

19N16228—100 ft. spool. Cost. . . . . 94¢  
19N16229—500 ft. spool. . . . . 3.67  
19N16227—1000 ft. spool. . . . . 6.91

8206: Same, but tinned copper braid shield overall, .155" OD.

19N20871—Cost per ft. . . . . 2 1/2¢  
19N20888—250 ft. spool. Your Cost. . . . . 5.29

## 300 Ohm Twin Lead Wire

8225: One bare, one tinned lead, parallel conductor. No. 20 (7x28) Flexible stranding; polyethylene ins.

19N17137—Price per ft. . . . . 3¢  
Price per 100 ft. . . . . 2.06  
Price per 500 ft. . . . . 9.41



8225

## Cathode-Ray Tube Lead Cable

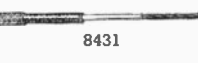
No. 20, 7 No. 28 tinned; polyethylene ins., red cotton braid, lacquer coating.

8869: 10,000 volts ins., .140" OD.

19N20889—25 ft. spool. Cost. . . . . 59¢  
19N20890—100 ft. spool. . . . . 1.70



8869



8431

8868: 20,000 volts ins., .200" OD.

19N20891—25 ft. spool. Cost. . . . . 90¢  
19N20892—100 ft. spool. . . . . 2.87

## SHIELDED PHONO-PICKUP CABLE

8431: Flexible and limp. No. 24, stranded (16x36) tinned; rubber ins., tinned copper braid, cotton braid overall; .095" OD.

19N20872—Bulk. Cost per ft. . . . . 3¢  
19N20848—100 ft. spool. . . . . 2.38



8838



8885

## Rubber-Insulated Push-Back Wire

No. 20 tinned, cotton wrap, vulcanized rubber ins., yarn braid, lacquer coating, 2000 volts breakdown. Solid type has .075" outer diameter. Stranded type has .080" outer diameter. Green, blue, red, yellow, and black. Specify color.

Pkg.	No.	Each	8837—Solid Pkg. No.	Each	8838—Stranded Pkg. No.	Each
25 ft.	19N16258	.29	19N16261	.32		
100 ft.	19N16259	1.15	19N16262	1.21		
1000 ft.	19N16260	9.93	19N16263	10.29		
Shielded Hook-Up for Grid Leads, etc.						
8885: No. 20, 10 No. 30 tinned; rubber ins. yarn braid; lacquer coat, tinned copper braid overall; .110" OD. 4000 volts breakdown.						
19N16293—25 ft. coil. . . . .		59¢				
19N16294—100 ft. spool. . . . .		2.35				

# BELDEN QUALITY WIRE AND CABLE

## CABLE FOR INTERCOMMUNICATION AND PUBLIC ADDRESS SYSTEMS

### INTERCOM AND SOUND SYSTEM CABLE



8740-42. 22 gauge solid copper; Formvar enamel coating; waxed cotton braid; color coded; conductors cabled in pairs; overall brown cotton braid; lacquer coating. 8743-45. As above but vinyl plastic insulation.

Type	No. Cond.	Diam.	Stock No.	Per Foot	Stock No.	Per 100 ft.
8740	2	.130	19N16134	2¢	19N16133	1.76
8741	4	.180	19N16136	4¢	19N16135	3.23
8742	6	.220	19N16138	5¢	19N16137	4.12
8743	12	.255	19N16140	7¢	19N16139	5.14
8744	18	.280	19N16142	9¢	19N16141	7.50
8745	30	.360	19N16144	15¢	19N16143	11.91

### SHIELDED INTERCOM AND SOUND SYSTEM CABLE



8734. 3-conductor; 22 gauge. Tinned copper, flex. stranding; vinyl ins.; waxed cotton braid; color coded; one conductor tinned copper braid shield; two conductors unshielded; brown cotton braid; lacquer coat.

19N16147—Per ft. . . . . 6¢  
19N16146—Per 100 ft. . . . . 5.08

### PA CABLE — AMPLIFIER TO SPEAKER



8799. 18 gauge 2 conductor bare copper; flexible stranding; Formvar enamel coat; cotton wrap; cotton braid; color coded; conductors cabled; tinned copper braid shield. 19N20867—Per ft. . . . . 4¢  
19N20914—Per 100 ft. spool. . . . . 2.79  
19N20911—Per 500 ft. spool. . . . . 13.96



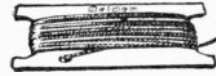
8483. 18 gauge 3 conductor bare copper; vinyl plastic insulation; color coded; conductors cabled. 19N16148—Per ft. . . . . 1½¢ Per 100 ft. . . . . 1.26



### COAXIAL CABLE

8229. 72 ohm. 22 Gauge solid. For use with television antenna. Bare copper; polyethylene plastic insulation; tinned copper braid shield; black vinyl plastic jacket. Breakdown voltage 2,000. 19N17138 . . . . . Cost per ft. 6¢  
19N17139 . . . . . Cost per 100 ft. 4.41

### VOICE COIL LEAD WIRE



8127. AWG No. 25. Bare copper wire braided. Stranding 32x40. Dia. .024". 10 ft. to a card. 19N16153 . . . . . 14¢

### Test Prod Wire, Flexible and Limp

No. 18, 65 No. 36 tinned; cotton wrap, rubber overall; red or black. Specify color. 8899: 5000 volts ins., .140" OD. 19N16336—14' pkg. (7' red & blk.) . . . . . 29¢  
19N16335—100 ft. spool. . . . . 1.47  
19N16337—1000 ft. spool. . . . . 12.05  
8898: 10,000 volts ins., .230" OD. 19N16332—Bulk. Cost per ft. . . . . 3¢  
19N16331—100 ft. spool. . . . . 2.35

### HEAVY RUBBER CORD

Type SJ. The thick belt of flexible rubber that covers the conductor is made of smooth oil-resisting, abrasion-proof high quality "jacket"



No.	Size	Ft.	100 Ft.
19N20945	18—2-wire	4½¢	4.05
19N20946	16—2-wire	5¢	4.50
19N20947	14—2-wire	14¢	12.60
19N20948	18—3-wire	5½¢	4.95

### PARALLEL RUBBER LAMP CORD



Both conductors sheathed in coating of tough live rubber. Groove between conductors allows easy separation without fear of ruining insulation. In Black and Brown—specify color desired. 19N20920—18 Gauge. Per Foot. . . . . 2¢  
Per 100 Feet. . . . . 1.90 Per 500 Feet. . . . . 9.25

# MICROPHONE & TRANSMISSION CABLE

### TWIN LEAD TRANSMISSION LINE



300 ohm Amphenol 14-056 represents the latest design in RF transmission line. Provides proper match of antenna to all standard 300 ohm input FM and television receivers. 300 ohm recommended by RMA or use with television receivers in broad

band operation. For use indoors or outdoors. Low-loss Polyethylene insulation is efficient, tough and weather resistant. Will withstand severe weather conditions. 19N17130—Per foot. . . . . 2½¢  
Per 100 feet. . . . . 2.06

### 300-OHM TUBULAR TWIN LEAD



14-271. Famous Amphenol quality. Particularly recommended for deluxe FM and TV installations. Durable. The tough polyethylene dielectric will resist weather, acids, alkalis and oils. Remains flexible at temperatures as low as -70°C. 19N17129 . . . . . Per foot 5¢  
Per hundred ft. . . . . 4.42

75-ohm Amphenol 14-080 Twin Lead. Especially for low impedance applications. 19N17131 . . . . . Per ft. 2¢  
Per 100 ft. . . . . 1.90

### AMATEUR TRANSMITTING TWIN LEAD

75-ohm Amphenol 14-023. For amateur transmitting antenna systems. Conservatively rated at 1000 watts, at 30 MC or lower frequency. 19N17132—Per foot. . . . . 7¢  
Per 100 feet. . . . . 6.48

300-OHM TUBULAR TRANSMISSION LINE: Type 14-076. For use up to 1 KW. Overcomes moisture effects on twin lead. ½" outside diameter. 19N17133—100-ft. Coil. . . . . 6.48 Per foot. . . . . 7¢

### SILICONE COMPOUND

Offers protection for radio transmission lines. Causes surface moisture to break up into isolated drops. Maintains high surface resistivity of line. 17N15361—1 oz. tube. . . . . 1.18  
\* Wire strippers can be found on page 68.

### FEDERAL SHIELDED 300-OHM LINE



Type K-111. Minimizes noise, "snow" and "ghosts" due to transmission line pick-ups. Also offers excellent protection against ignition, street cars, fluorescent lights, diathermy machines, etc. 19N17136 . . . . . Per ft. 12½¢  
Per 100 ft. . . . . 11.25

### AMPHENOL LOW-LOSS H F COAXIAL CABLE



Dielectric is a solid flexible low-loss mechanically stable thermoplastic of Polyethylene proven most efficient in high frequency transmission circuits. All cables listed below are impervious to acids, alkalis, oils and gasoline. All have a woven copper shield braid over the Polyethylene dielectric with a heavy Vinyl outer covering overall. Many other conductor types available.

Stock No.	Amphenol No.	Ohms Imped.	Cap. ft. mmf.	Wire Size	Dielectric O.D.	Cable O.D.	Cost Per Ft.
19N17120	RG/8U	52	29	7x21	.285"	.405"	13¢
19N17121	RG/11U	75	20	7x26	.285"	.405"	13¢
19N17124	RG/22U	95	16	No. 20	.116"	.184"	14¢
19N17122	RG/58U	53.5	28	No. 20	.116"	.195"	7¢
19N17123	RG/59U	73	22	No. 22	.146"	.242"	8¢

### Single Cond. Crystal Mike Cable



Flexible stranded tinned copper with tinned copper braid shield; cotton wrap and lacquered braid. Rubber overall. 19N20842—Dia. .280". Per foot. . . . . 5½¢  
50-Foot Roll. . . . . 2.40  
100-Foot Roll. . . . . 4.59

### Crystal and Veloc. Mike Cable



Low impedance, 2 conductors, color-coded, in abrasion-proof tinned copper shielding with outer covering rubber. 19N16079 . . . . . Per ft. 6½¢  
50-Foot Roll. . . . . 3.07  
100-Foot Roll. . . . . 5.49

### 3 Conductor Shielded Cable



Three color-coded stranded conductors in tightly woven tinned copper shield. ½" outer covering of rubber. 19N16145—Per foot. . . . . 8¢  
50-Foot Roll. . . . . 3.60  
100-Foot Roll. . . . . 7.00

LAFAYETTE WILL NOT KNOWINGLY BE UNDERSOLD!



# WIRE-CABLE AND SPAGHETTI

## PUSH BACK WIRE

### SOLID TINNED COPPER CORE TYPE

No stripping is necessary. Just push back the double cotton-covered moisture-proofed braid No. 20 wire. 4 colors for circuit identification. Weight 2 lbs. per 100 ft.



### STRANDED TINNED COPPER CORE TYPE

Very flexible wire of multi-strand tinned copper; equivalent to No. 20. Cotton braid pushes back easily. Available in 4 colors. Weight, 2 lbs. per 100 feet.

25-Foot Coils  
 19N16350-Red 19N16352-Black  
 19N16351-Grn. 19N16353-Yel.  
 Your Cost (10 for 2.25),  
 Per Coil..... **24¢**

50-Foot Coils  
 19N16358-Red 19N16360-Black  
 19N16359-Grn. 19N16361-Yel.  
 Your Cost (10 for 4.25),  
 Per Coil..... **47¢**

100-Foot Coils  
 19N16366-Red 19N16368-Black  
 19N16367-Grn. 19N16369-Yel.  
 Your Cost (10 for 8.19),  
 Per coil..... **91¢**

1000-Foot Spools  
 19N16374-Red 19N16376-Black  
 19N16375-Grn. 19N16377-Yel.  
 Your Cost, Per Spool..... 6.95

25-Foot Coils  
 19N16354-Red 19N16356-Black  
 19N16355-Grn. 19N16357-Yel.  
 Your Cost (10 for 2.43),  
 Per Coil..... **27¢**

50-Foot Coils  
 19N16362-Red 19N16364-Black  
 19N16363-Grn. 19N16365-Yel.  
 Your Cost (10 for 4.68),  
 Per Coil..... **52¢**

100-Foot Coils  
 19N16370-Red 19N16372-Black  
 19N16371-Grn. 19N16373-Yel.  
 Your Cost (10 for 8.91),  
 Per Coil..... **99¢**

1000-Foot Spools  
 19N16378-Red 19N16380-Black  
 19N16379-Grn. 19N16381-Yel.  
 Your Cost, Per Spool..... 7.95

### MULTI-CONDUCTOR CABLE



A high grade, heavily insulated cable. Each lead has a different colored rubber jacket for easy identification. 20 gauge, stranded tinned copper wire. Cotton braid overall.

No.	Wires	Per Ft.	100Ft.
19N16089	3	4¢	3.60
19N16090	4	5¢	4.50
19N16091	5	6¢	5.40
19N16092	6	7¢	6.30
19N16093	7	8¢	7.20
19N16094	8	9¢	8.10
19N16095	9	10¢	9.00
19N16096	10	11¢	9.90

### BELL WIRE



Excellent grade No. 18.  
 19N16338 — ½ lb. roll.  
 Your Cost..... 38¢  
 19N16051 — 25 ft. roll. Your Cost..... **15¢**

### ASSORTED SPAGHETTI 8" LENGTHS

Bundle of twenty-four pieces. Made of strong, cambric tubing. Comes in assorted diameters & colors.  
 19N15959....per Bundle **19¢**



### SPAGHETTI ON SPOOLS

High grade varnished cambric tubing. 4000 V. dielectric strength. On 3/8 spools, 8 and 12-yard lengths.

For No. 12 wire, in 8-yard lengths:  
 19N15951—Red 19N15952—Green 19N15954—Yellow  
 19N15955—Black  
 For No. 14 wire, in 8-yard lengths:  
 19N15750—Red 19N15752—Green 19N15751—Yellow  
 19N15753—Black  
 For No. 18 wire, in 12-yard lengths: 19N15754—Black  
 Any of Above Sizes,  
 Your Cost, Per Spool..... **67¢**



### COPPER SHIELDING

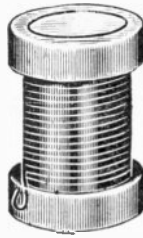
Flexible, heavily tinned copper shielding slides over cables, bunches conductors.



Stock No.	In. Dia.	Per Ft.	Per 100 Ft.
19N16233	1 1/4"	3¢	2.41
19N16237	1 3/8"	2 1/2¢	1.83
19N16238	1 1/2"	3 1/2¢	2.68
19N16239	1 3/4"	6¢	5.35

## FINEST GRADE MAGNET WIRE

Highest quality copper wire. Excellent for rewinding power transformers and chokes, winding coils or any other radio and electrical purpose. Ideal for use in shops, schools, laboratories, etc.



### Double Cotton

Popular with amateurs and experimenters. Highest quality.

Stock No.	Size B&S	Ft. Per Lb.	Your Cost	
			1/4 Lb.	1/2 Lb.
19N20973	16	122	\$0.27	\$0.46
19N20974	18	192	.27	.50
19N20975	20	298	.30	.57
19N20976	22	464	.37	.63
19N20977	24	711	.43	.73
19N20978	26	1080	.46	.80
19N20979	28	1630	.55	.97
19N20980	30	2420	.60	1.14
19N20981	32	3500	.80	1.37
19N20982	34	4920	.98	1.77
19N20983	36	6660	1.27	2.23

### Plain Enameled

Stock No.	Size B&S	Ft. Per Lb.	Your Cost		Stock No.	Size B&S	Ft. Per Lb.	Your Cost	
			1/4 Lb.	1/2 Lb.				1/4 Lb.	1/2 Lb.
19N20950	16	125	\$0.23	\$0.38	19N20956	28	2030	.33	.55
19N20951	18	202	.23	.40	19N20957	30	3220	.36	.59
19N20952	20	319	.25	.43	19N20958	32	5100	.41	.64
19N20953	22	506	.25	.44	19N20959	34	8080	.46	.78
19N20954	24	804	.27	.46	19N20960	36	12800	.59	.91
19N20955	26	1280	.30	.50	19N20961	38	20300	.78	1.15

### INDOOR ANTENNA WIRE



Multi-strand flexible copper wire covered by a brown mercerized cotton braid. For indoor or AC-DC antenna use. 25-ft. hank.

19N16155.....17¢ 19N16167—100-ft. Coil..... **53¢**

### TRANSMISSION CABLE



Consists of twisted rubber-covered conductors covered by a black weatherproof cotton outer braid.

19N17152—Per Foot..... **2 1/2¢**  
 Per 100-Ft. Coil. Wt. 4 lbs..... **2.00**

### COTTON TWISTED PAIR



18 gauge, 1/4" R.C. wire with a cotton covering. Yellow and green mixture..... **3¢**  
 19N20902—Per Foot..... **3¢**  
 Per 250-Ft. Coil..... **6.75**

### TELEPHONE WIRE



For general use and inter-com. phones. 2-Conductor No. 19 Gauge 1/4" R.C.  
 19N20895—Per Foot..... **3¢**  
 Per 100 Feet..... **2.45**  
 19N20896—3-Conductor No. 19. Per Ft. 4 1/2¢  
 Per 100 Feet..... **3.55**

### SHIELDED LEAD-IN, HOOK-UP WIRE



10-strand wire covered with live rubber, waxed cotton braid and woven tinned shield  
 19N16240—  
 Per Foot..... **3¢**  
 50-Foot Roll... 1.35 100-Foot Roll... **2.25**

### THERMOPLASTIC HOOK-UP WIRE

New thermoplastic insulation strips clean—is oil and acid resistant. Will withstand 180 F. Underwriters approved.  
 10,000 volt breakdown test. For use where high conductivity and low loss is essential. Available in Black, Red, Blue, Green, and Yellow. Specify color. Shipping wt. per 25 feet: 4 ounces.  
 19N16382—25 ft. No. 20 Solid..... **24¢**  
 19N16383—100 ft. No. 20 Solid..... **86¢**  
 19N16384—25 ft. No. 20 Stranded..... **28¢**  
 19N16385—100 ft. No. 20 Stranded..... **99¢**

### COPPER AERIAL WIRE

Made of the finest copper obtainable. All rolls guaranteed to be full length and standard gauge as specified. Fits any type aerial.

### BARE STRANDED—75-Ft. COILS

No.	Size	Per Coil	10 Coils
19N16041	7/26	32¢	3.14
19N16042	7/24	42¢	3.99
19N16043	7/22	59¢	5.60

### ENAMELED STRANDED—100-Ft. COILS

No.	Size	Per Coil	10 Coils
19N16117	7/22	1.08	10.26

### SOLID ENAMELED—100-Ft. COILS

No.	Size	Per Coil	10 Coils
19N16118	No. 14	81¢	7.70
19N16119	No. 12	1.17	11.15

# INSULATORS

## Johnson Thru-Panel Insulators



White glazed porcelain, non-hygroscopic. Specifically designed for high RF. Jack types have terminals for connection above and below panel—take standard banana plugs. All have longest possible leakage paths. Nickel-plated brass hardware.

Stock No.	Type No.	Top Ht.	Bot. Ht.	Panel Hole	Hardware	Ea.
38N16736	135-10	1 1/4"	1 1/4"	1 1/2"	10/32	21¢
38N16737	135-40J	1 1/4"	1 1/4"	1 1/2"	Jack	26¢
38N16738	135-42	7/8"	7/8"	1 1/2"	10/32	18¢
38N16739	135-12J	7/8"	7/8"	1 1/2"	Jack	24¢
38N16740	135-14	5/8"	5/8"	1 1/2"	6/32	15¢
38N16741	135-15	1 3/8"	1 3/8"	1 1/2"	10/32	26¢
38N16742	135-15J	1 3/8"	1 3/8"	1 1/2"	Jack	35¢

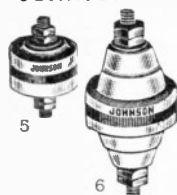
## Johnson Stand-Off Insulators



All-purpose stand-offs of white glazed porcelain. Supplied with nickel-plated hardware as listed below.

Stock No.	Type No.	Fig.	Ht.	Hardware	Each
38N16746	135-22	1	1"	8/32	11¢
38N16748	135-22J	4	1"	Jack	14¢
38N16745	135-20	1	1 1/8"	10/32	12¢
38N16744	135-20J	4	1 1/8"	Jack	15¢
38N17024	135-65	3	1 3/8"	10/32	18¢
38N17025	135-66	2	2 3/4"	1/4-20	41¢
38N17026	135-67	2	4 1/2"	1/4-20	50¢

## JOHNSON LEAD-IN BUSHINGS



For use where insulated mountings are needed. Type 5 of white glazed porcelain, Type 6 of Alsimag 196. All have long leakage paths. Cushion washers and necessary hardware furnished.

Stock No.	Type No.	Fig.	Ht.	Dia.	Lgt.	Each
38N17020	135-50	6	1 1/2"	3/4"	2"	21¢
38N17021	135-51	6	1 1/2"	1 1/4"	2 3/8"	29¢
38N17022	135-52	6	1 1/2"	1 3/8"	4 1/4"	47¢
38N17023*	135-55	5	1 1/4"	3/4"	1 1/4"	18¢

\* Made of Alsimag 196.

## JOHNSON FEEDER SPREADERS



Ideal for receiver and transmitter leads. High grade, low absorption, unglazed porcelain. Silicone impregnated for finest water repellent characteristics. Type 136-122 is provided with notches for 1 1/2" line spacing. All have 3/8x1 1/2" cross section.

Stock No.	Type No.	Lgth.	Each
38N17027	136-122	2"	.10
38N17028	136-124	4"	.14
38N17029	136-126	6"	.18

## JOHNSON CONES



Made of ultra steatite insuring minimum loss at high frequencies. Threads tapped directly into ceramic. Ideal for mtg. condensers, coils, tube sockets, other HF apparatus. Complete with mtg. hardware.

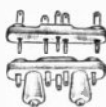
Stock No.	Type No.	Ht.	B. Dia.	Thread	Ea.
38N17005	135-500	5/8"	5/8"	6/32	.18
38N17006	135-501	1"	3/4"	8/32	.21
38N17007	135-502	1 1/8"	1"	8/32	.38
38N17008	135-503	2"	1 1/8"	10/32	.44

## ICA STAND-OFF INSULATORS



Made of white glazed insulex.  
38N16730—1" high..... 7¢  
38N16731—1 1/8" high..... 9¢  
38N16732—1 3/8" high..... 11¢

## NATIONAL ISOLANTITE PLUG AND SOCKET



For use with XR-16 coil forms.  
38N14614  
PB-16 Plug..... 45¢  
38N14615  
XB-16 Socket..... 45¢

## NATIONAL STEATITE "CONES"

GS-6 and GS-7 tapped 10/32; all others tapped 8/32.



Stock No.	Type	Ht.	Ea.
38N14493	GS-10	1 1/4"	9¢
38N14483	GS-5	1 1/4"	30¢
38N14484	GS-6	2"	42¢
38N14485	GS-7	3"	75¢

## National Isolantite Stand-Offs

Metal mounted top, bottom. Ideal for r.f. choke cores.



Stock No.	Type	Dia.	Ht.	Ea.
38N14479	GS-1	1 1/8"	1 3/8"	.24
38N14480	GS-2	3/8"	2 3/8"	.30
38N14481	GS-3	3/8"	2 3/8"	.60
38N14482	GS-4	3/4"	4 3/8"	1.75
38N14475	GS4A	3/4"	6"	1.05

## STRAIN INSULATOR



A 1 1/2" glazed porcelain strain insulator for antenna guy wires.

38N17175—Each 5¢  
10 For..... 40¢

## BIRNBACH

## X-MITTER LEAD-IN INSULATORS



Glazed porcelain 2 3/4" high. With hardware and washers for water tight seal.

Stock No.	Rod	Bushing	Each
38N17037	10"	Metal	1.03
38N17038	15"	Metal	1.18
38N17039	10"	Porcelain	1.32
38N17040	15"	Porcelain	1.68

## SMOOTH COIL FORMS

Special value for servicemen—Blank bakelite forms, suitable for winding coils to any specification you require. 4, 5, and 6 prong types.  
29N10060—4 prong type.  
29N10061—5 prong type.  
29N10062—6 prong type.

Any Above, Each..... 21¢

## RELIANCE RIBBED COIL FORMS

Made of high quality low-loss bakelite. Ribbed for air-spaced winding. Knurled flanges for ease in handling, grooved for wave band index. Eight ribs.

**Medium Size**  
Undrilled. 1 1/8" diameter. 3 3/8" high  
29N9630—4-Prong..... } Each 35¢  
29N9631—5-Prong..... }  
29N9632—6-Prong..... } 38¢

## Small Size

Undrilled. 1 3/8" diameter. 2 1/4" high.  
29N9988—4-Prong..... } Each 23¢  
29N9989—5-Prong..... }  
29N9990—6-Prong..... } 25¢

## AMPHENOL MINIATURE POLYSTYRENE FORMS



Undrilled. 3/4" dia., 1 1/16" long. Permanent mtg. form has raised hole in center for self tapping screws.  
29N11577—Permanent Mtg..... 10¢  
29N9629—6-Prong Form..... 28¢

## AMPHENOL "912" PLASTIC RODS SHEETS—TUBING—STRIPS



## "912-A" POLYSTYRENE RODS

Expertly molded from pure low-loss polystyrene. Available in 12" lengths for machining special coil forms and low loss parts.

Stock No.	Dia.	Type No.	Each
38N8015	1/8"	19R125	.02 1/2
38N8067	1/8"	19R250	.08
38N8068	3/8"	19R375	.17
38N8069	1/2"	19R500	.30
38N8016	3/8"	19R625	.48
38N8017	1/2"	19R750	.68
38N8070	1"	19R1000	1.26

## "912-A" SHEETS

Made of low-loss Polystyrene. 12"x16" size ideal for use when a window pane lead-in is desired.

Stock No.	Type No.	Dimensions	Each
38N8025	19-0628	4x8x1/16"	.16
38N8028	19-0938	4x8x3/16"	.20
38N8108	19-093	12x16x3/32"	2.18
38N8026	19-1258	4x8x1/4"	.24
38N8019	19-125	12x16x1/8"	2.71
38N8027	19-2508	4x8x1/2"	.39
38N8020	19-250	12x16x1/4"	5.44

## "912-A" TUBING

Polystyrene tubes 12" long with 1/8" wall thickness. For coil forms. Extremely low RF loss.

Stock No.	Type No.	Dia.	Each
38N8029	19T3-062	5/16"	.09
38N8030	19T4-062	3/8"	.11
38N8032	19T5-062	1/2"	.14
38N8031	19T6-062	5/8"	.19
38N8033	19T7-062	3/4"	.23
38N8034	19T8-062	1"	.30

## "912-B" STRIPS

A synthetic resin having transparency greater than most glass and with good insulation characteristics. Can be shaped (when heated), drilled, cut, etc. For coil supports, line spreaders, trimmer bases or binding post or tip jack mounting strips. 12" long strips.

Stock No.	Type No.	Width	Thick-ness	Ea.
38N8064	6ST31-500	1 1/2"	1/16"	.18
38N8066	6ST31-1000	1 1/2"	1/16"	.30
38N8085	6ST32-500	1 1/2"	3/8"	.22
38N8086	6ST32-1000	1 1/2"	3/8"	.37
38N8087	6ST34-500	1 1/2"	1/4"	.30
38N8088	6ST34-1000	1 1/2"	1/4"	.53
38N8089	6ST38-500	1 1/2"	3/8"	.58
38N8090	6ST38-1000	1 1/2"	3/8"	1.04



## AMPHENOL POLYWELD "912"

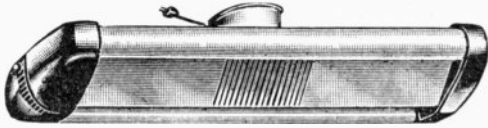
Colorless, transparent and ready to use. Pure polystyrene in solution. Matchless for "doping" coating, impregnating or sealing. Used as an adherent. Polyweld joins two sections of polystyrene. It contains solvents that actually "weld" surfaces into a single unit. Will not disturb circuit constants when used on coils, ceramics, wire or insulation. Recommended for VHF, UHF and general electronic applications. Applied by dipping, or with a brush. Dries sufficiently in 4 to 8 minutes leaving a hard transparent coating of pure polystyrene. Non-hygroscopic.

17N15362—2 oz. bottle..... 29¢  
17N15363—4 oz. bottle..... 38¢  
"916-2" Thinner for "912".  
17N15364—3 oz. bottle with brush..... 15¢



# FLUORESCENT FIXTURES FOR THE HOME

## ALL ADAPTOR TYPES SUPPLIED WITH CORD, PLUG AND 4" CUPS



### DRAKE FLUORESCENT FIXTURES

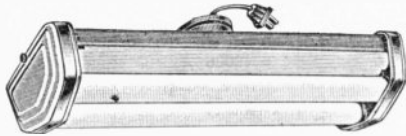
Gracefully rounded, rich modern styling makes these fluorescent fixtures ideal for kitchen, bedroom, hall or office. Scientifically designed and engineered for maximum lighting efficiency plus outstanding beauty. Steel reflector has baked-on white enamel finish. Streamlined, high-polish aluminum ends with choice of trim. Uses 2-20 watt lamps. Dimensions: 26x83/4x23/4". For 115-120 volts, 60 cycles AC. Shipping Weight 8 lbs. U/L approved. Less lamps.

#### ADAPTOR TYPE

Stock No.	Trim	Each, Lots of 3	Each
33N25594	Chrome	5.37	5.85
33N25596	Chinese Red	5.67	6.17
33N25598	Blue	5.67	6.17

#### FLUSH TYPE

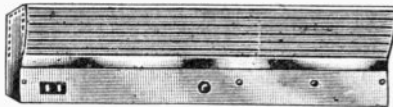
Stock No.	Trim	Each, Lots of 3	Each
33N25595	Chrome	5.97	6.50
33N25597	Chinese Red	6.27	6.83
33N25599	Blue	6.27	6.83



### FLUORESCENT KITCHEN UNIT

Maximum light without shadows or glare. End pieces completely cover body and sockets for protection, yet permit removal of lamps without disassembling unit. White baked-on enamel. Uses 2-T12 20 watt lamps. For 110-120 volt 60 cycle AC. 247/8x59/4". Less lamps.

33N25551—Shpg. wt. 7 lbs. Each ..... **5.35**  
Each, in lots of 3 ..... **4.80**

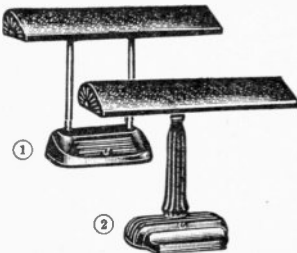


### NEW FLUORESCENT KABNIT-LITE

Scientifically designed to throw soft, glare-free fluorescent light all over the top of your range, sink or other work area. Has convenience outlet for plugging in other appliances. Finished in gleaming white, chip-proof, baked-on enamel with brilliant chrome trim. Matches the most modern kitchen. Non-static plastic shield won't crack and can be cleaned easily with soap and water. Shipping Weight 4 1/2 lbs. For 110 volts, 60 cycles AC. Less lamps.

33N25592—15-Watt 18 1/2" Long. List 7.95..... Net **5.19**  
Each, in lots of 3..... **4.77**

33N25583—20-Watt 24 1/2" Long. List 8.95..... Net **5.85**  
Each, in lots of 3..... **5.37**



### ATTRACTIVE FLUORESCENT DESK LAMPS FOR HOME & OFFICE

Fine quality lamps of durable construction and rich finish. Give excellent light coverage over work area.

#### DELUXE DESK LAMP

1. Lights entire desk area. Shade and base of one-piece pressed steel, baked wrinkle-taupe finish. Uses 15 W. lamp. 13 3/4" H., 19 1/4" shade. Less lamp. List 8.35.

33N25550—Wt. 8 lbs. **5.60**  
Each ..... **5.60**  
Each, lots of 3..... **4.98**

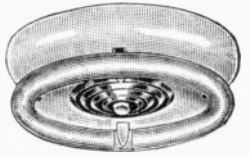
#### EXECUTIVE DESK LAMP

2. Blends with any decorative scheme—heavy cast base and column, bank bronze finish. Base has large pen and pencil well. Uses 15 W. lamp. 110 V. 60 cyc. AC. Less lamp.

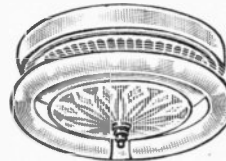
33N25563—Wt. 11 lbs. **9.54**  
List 14.60, Each..... **9.54**  
Each, in lots of 3..... **8.76**

### CIRCULAR FLUORESCENT LIGHT

Artistically designed fluorescent unit of heavy gauge steel. White baked-on enamel, chrome center trim. Flush type or adaptor type mounting. With glareless 32 watt circline lamp. 110-125 volt, 60 cycle AC. 12" x 3 3/4". Shpg. wt. 7 lbs. Fed. Excise Tax included.



Stock No.	Type	Ea. Lots of 3	Each
33N25556	Flush	7.02	7.64
33N25586	Adaptor	7.02	7.64



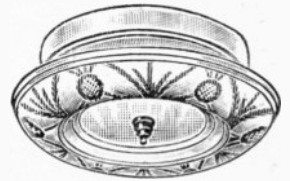
### DELUXE CIRCLINER

Fixture of unrivaled elegance—new circular fluorescent light adds beauty to any room. "Neptune" model features attractive etched glass center ornament with polished brass finial. Available in flush or adaptor type mountings. With lamp. 110 volts 60 cycles. AC. White baked-on enamel. 12" x 3 3/4". Wt. 7 lbs. Fed. Excise Tax included. List 16.45.

Stock No.	Type	Ea. Lots of 3	Each
33N25580	Flush	9.87	10.75
33N25581	Adaptor	9.87	10.75

### SHIELDED CIRCLINER

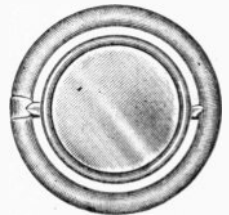
New, unusual lighting unit! Shielded fluorescent Luminaire finished in White baked enamel with beautiful etched design glass bowl. Available for flush or adaptor mounting. With lamp. 110-125 V. 60 cycle AC. 14 1/2" x 5". Wt. 8 lbs. Fed. Excise Tax included. List 20.90.



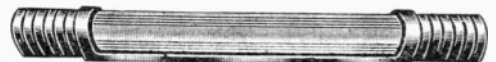
Stock No.	Type	Ea. Lots of 3	Each
33N25582	Flush	12.54	13.65
33N25583	Adaptor	12.54	13.65

### PIN-UP MIRROR LIGHT

Novel effect with excellent illumination—for homes, hotels and institutions. Finest 8-inch plate glass mirror circled with fluorescent light. With 12-inch diameter, 32-watt glareless circline and 6-ft. cord and plug. Buffers on back allow air circulation between wall and fixture 110 V. 60 cycles. AC. Shpg. wt. 9 lbs.



33N25558—List 19.95. Federal Excise Tax included. Each **13.03**  
Each, in lots of 3 ..... **11.97**



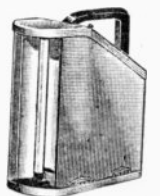
### ALL-PURPOSE PIN-UP OR BED LAMP

Ideal for every room in the house . . . under kitchen cabinets over mirrors, desks, on any wall. Perfect for reading or sewing in bed. One lamp is sufficient for a double bed. Plastic shield assures glare-free light. Has U.L. app. cord and plug. 14-watt size. Complete with detachable clamps for headboard. Overall dimensions: 2x2 5/8x21". Shipping weight 4 lbs. Less lamp.

33N25590—Ivory Trim.....Ea. Lots of 3 4.17' Singly 4.54  
33N25591—Grained Walnut Trim Ea. Lots of 3 4.17 Singly 4.54

### LAMPLIGHTER FLUORESCENT LANTERN

Provides brilliant flood light at the flick of a switch—wherever you want it, indoors or out. No connections necessary—operates on standard portable 45 volt "B" batteries. An ideal lantern for camping, hunting, fishing, home or industrial use. Contains shatter-proof plexi-glass window for absolute safety. Bottom is hinged for easy replacement of batteries and tube. Comes complete with standard 6-watt fluorescent type tube and two batteries. List 10.95.



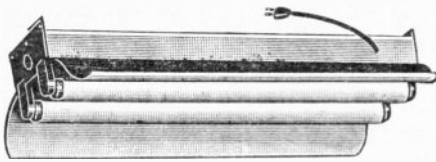
33N25564—Lantern Size: 4 1/8"x7 7/8"x9"..... **8.21**  
20N20614—Replacement Burgess Batteries, Each..... **1.82**

# FLUORESCENT FIXTURES FOR STORES, OFFICES

A good fluorescent light installation in commercial and industrial establishments increases the efficiency of workers. Better light and brighter work areas reduce eye strain and create pleasanter working conditions.

Power requirements are lower too, because fluorescent light gives illumination of greater intensity for the same wattage. Listed here are several industrial units attractively designed and carefully engineered to meet your needs.

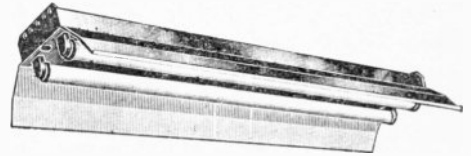
## INDUSTRIAL UNITS FOR 105-125 V. 50-60 CYCLE AC OPERATION



**INDUSTRIAL PLUG-IN FIXTURE**

Constructed for convenience—plugs into any socket. Adaptable for home or industrial use—provides intense glareless light where you need it. Engineered for continuous row lighting over benches and machines; knockouts at each end of steel channel makes it possible to mount units end to end in continuous rows of light. Latest type ballasts fully enclosed, with starters easily accessible on side. Uses 2-20 watt lamps. Gray steel housing, with high gloss Sno-white reflector. Complete with 6 ft. cord and plug, less lamps. Overall size: 4 1/2" x 24" x 9 1/2". Shipping weight 8 lbs.

**33N25567**—List Price 8.90..... Each in lots of 3 **5.34**  
Each, singly..... **5.81**



**DELUXE HEAVY DUTY FIXTURE—U. L. APPROVED**

Quality high power factor fixture for high intensity lighting. Flush, chain or stem mounting. Double knockouts at each end on top. Pressed steel housing and reflector of "glazenameal." 2-40 watt lamps. 48 x 13 1/2 x 5 3/4". Less lamps.

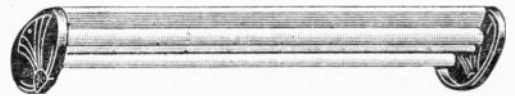
**33N25565**—Wt. 27 lbs. Each, lots/3..... **7.68** Each **13.69**  
**33N25566**—For 3-40 W. lamps, lots/3..... **12.57** Each **13.69**  
**33N25690**—U/L Approved cord and Plug Set, 6 ft. long..... **54c**  
**33N25691**—Levolier Switch with Pull Chain..... **75c**  
**33N25692**—8 ft. Galv. Tenso Chains with S Hooks, Pr..... **64c**



**ALL-PURPOSE STRIP LIGHT—U. L. APPROVED**

Ideal lighting units for stores, store windows, show cases, or homes and offices. Multiple knockouts for single unit or end-to-end mounting. Channel and cover White baked enamel. Supplied less lamps.

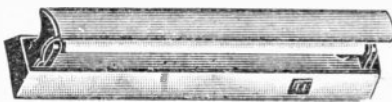
Cat. No.	Lamps	Wt.	Size	Lots/3 ea.	Each
<b>33N25572</b>	1-15 W	3 lbs.	19 x 2 5/8 x 1 7/8"	<b>2.01</b>	<b>2.19</b>
<b>33N25573</b>	1-20 W	3 1/2 lbs.	25 x 2 5/8 x 1 7/8"	<b>2.07</b>	<b>2.25</b>
<b>33N25574</b>	1-40 W	9 lbs.	49 1/4 x 2 5/8 x 1 7/8"	<b>3.54</b>	<b>3.85</b>



**ALL-STEEL LUMINAIRE FIXTURE—U. L. APPROVED**

Engineered for uniform rich lighting, yet distinctively designed for decorative effect. All-steel baked enamel fixture is constructed for flush mounting. Uses two 40 watt lamps. Attractive end plates finished in durable white baked-on enamel. 49 1/2" x 10" x 6". Fixture supplied less lamps.

**33N25568**—Wt. 21 lbs. Each, lots/3 **9.60**..... Each **10.46**  
Same as above, but for four 40 watt lamps. Less lamps.  
**33N25569**—Wt. 35 lbs. Each, lots/3 **14.34**..... Each..... **15.61**



**CHROME BRACKET FIXTURE—U. L. APPROVED**

For home or commercial use! Handsome, practical design is adaptable anywhere. Uses 15 watt lamp. Rustproof chrome finish on copper plated steel. Size: 19 1/2 x 3 1/4 x 3 1/2" high, less reflector; 4 1/2" high with reflector. Supplied less lamps.

Cat. No.	Description	Wt.	Lots/3 ea.	Each
<b>33N25576</b>	Bracket alone	3 lbs.	<b>2.64</b>	<b>2.87</b>
<b>33N25577</b>	With convenience outlet	3 lbs.	<b>2.85</b>	<b>3.11</b>
<b>33N25578</b>	With reflector	3 1/2 lbs.	<b>3.48</b>	<b>3.79</b>
<b>33N25579</b>	With reflector and outlet	3 1/2 lbs.	<b>3.69</b>	<b>4.02</b>

### MAZDA FLUORESCENT LAMPS

When purchasing lamps with any fluorescent fixture listed on these pages use 1st "Lots of" price instead of single price.

Fluorescent lamps for use with fixtures described on this and opposite page. "White" lamps provide a quality of light approximating that of the incandescent lamp. "Daylight" lamps approximate that of daylight. All supply several times the usable light of regular incandescent lamps.

Rated life of these lamps is better than 2500 hours. 85-watt lamps have mogul 2-pin base; all others have standard 2-pin base. "Circline" circular lamp (T10) requires special socket. Inside diameter is 9 1/2 x 1 5/8".

Approximate shipping weights: 6 and 8-watt lamps—1 1/2 lbs.; 14, 15, 20-watt lamps—2 lbs.; 30 and 40-watt lamps—3 1/2 lbs.; 85-watt lamps—6 lbs. Prices include Federal Excise Tax.

### MAZDA FLUORESCENT LAMPS

White Cat. No.	Daylight Cat. No.	G.E. No.	Size L. D.	Watts	Each	Lots of	Each	Lots of	Each
<b>33N25593</b>	<b>33N25534</b>	T5	9 x 5 5/8"	6	.75	7	.68	24	.64
<b>33N25527</b>	<b>33N25528</b>	T5	12 x 5 5/8"	8	.85	7	.77	24	.73
<b>33N25486</b>	<b>33N25497</b>	T8	18 x 1"	15	.62	8	.56	24	.53
<b>33N25525</b>	<b>33N25526</b>	T12	18 x 1 1/2"	15	.75	7	.68	24	.64
<b>33N25529</b>	<b>33N25530</b>	T12	15 x 1 1/2"	14	.75	7	.68	24	.64
<b>33N25535</b>	<b>33N25536</b>	T12	24 x 1 1/2"	20	.75	7	.68	24	.64
<b>33N25537</b>	<b>33N25538</b>	T8	36 x 1"	30	.75	7	.68	24	.64
<b>33N25539</b>	<b>33N25540</b>	T12	48 x 1 1/2"	40	1.00	5	.90	24	.85
<b>33N25531</b>	<b>33N25532</b>	T17	60 x 2 1/8"	*85	2.30	3	2.08	12	1.96
<b>33N25541</b>	<b>33N25542</b>	T10	12 1/4" Od.	32	1.85	3	1.67	12	1.56

\*85 Watt lamp replaces old 100 Watt lamp.

**FLEXO ADJUSTABLE FLUORESCENT LAMPS**

(A) General Model. Versatile industrial style fluorescent fixture with clamp-on base. Ideal for factory benches, tables and drafting-boards. Two bolts clamp base securely to any surface up to 3" thick. Spring-controlled swivel joints and double arm action permit easy manipulation of fixture to give you high, in any desired position. Arm extends 36". Uses two T8, 15-W. lamps. For 110-125V., 60 cycles AC. Shpg. Wt. 15 lbs. Statuary bronze finish, baked-on enamel.

**33N25560**—Less lamps ..... **16.75**

(B) Portable Desk Model. Has all the features of the model described above except for the difference in the base. This unit has a weighted base with pen and pencil grooves, for desks and tables where screw clamp cannot be used. Shpg. Wt. 23 lbs.

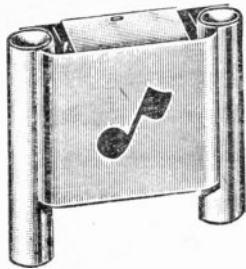
**33N25561**—Less lamp ..... **22.50**



# MODERN, LOW COST ELECTRICAL APPLIANCES

All the products listed below are high quality, low cost items designed to bring you the utmost in dollar value. Their smart appearance and precision construction is usually found only in more expensive ap-

pliances. Heavy duty type elements...chip-proof, baked-on enamel finish...heavy chrome plate are a few of the features that assure you of many years of faithful and dependable service.



## DUO-CHIME UNIT

Add a note of charm to your home with this attractive, melodious door chime. Rings differently for front and back doors. Operates from low voltage transformer (10-18 volts) or from six-volt storage batteries. Sturdy all metal construction. Handsome cream and gold finish. Size: 6½x6½". Shipping Weight 2 lbs.

33N25410—List \$4.95,  
Net..... **3.30**

10 V. Transf. for above  
33N1500..... 1.16

## PUR-AR-LITE AIR PURIFIER

An economical germicidal lamp. Excellent for use in kitchens and bathrooms. The Ozone producing ultraviolet lamp destroys germs and banishes unpleasant odors. Heavy aluminum construction. Wall type mounting. Operates from 110-volt A.C. only. Shipping Wt: 2 lbs. List Price \$6.95.

33N25419—Each, Lots of 3..... **4.63**  
Each, Singly..... 5.25



## CENTURY GLIDE-O-MATIC IRON



- Light Weight
- Tilt Up Heel
- Thermostat
- Side Mounted Cord

Light weight makes ironing faster and easier. Temperature control selector, side mounted cord, tilt up heel rest and cool plastic handle. Rated at 1000 watts, 110-volt A.C. Equipped with aluminum sole plate. U.L. approved. Shipping Weight: 6 lbs. List Price \$9.95.

33N25418—Each, Lots of 3..... **6.95**  
Each, Singly..... 7.45

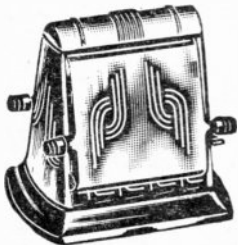
## ELECTRIC MIXER



Ideal for whipping pancake and waffle batters, cream, eggs, or other light batters—even mixes drinks. Full one quart capacity glass container with extra cover for storage. Self-lubricating, sturdily constructed electric motor with push-button control. Two interchangeable mixing blades. For 110 volt AC-DC operation. Shpg. Wt: 7 lbs. List Price \$7.95.

33N25414—Each, Lots of 3.. **5.45**  
Each, Singly..... 5.95

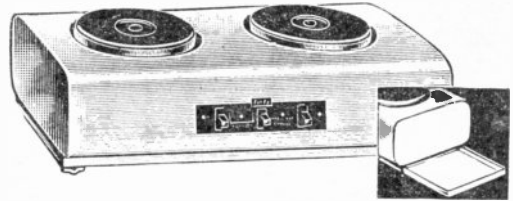
## RAINBOW 2-SLICE TOASTER



Produces evenly browned toast, quickly and easily. Slices of bread are automatically turned without handling when doors are opened. Pure Mica elements are wound with genuine Nichrome wire. Projecting base prevents tipping or shifting while in use. Chrome plated with black enamel base. 110 AC-DC. Shpg. Wt: 3 lbs. List Price 5.75. U.L. approved.

33N25420—Lots of 3,  
Each..... **3.95**  
Each, Singly..... 4.30

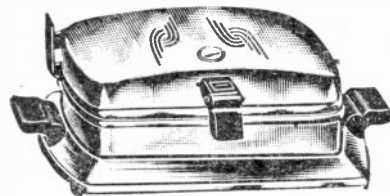
## KORD ELECTRIC STOVE



For quicker, cooler cooking. Offers a choice of four different heats. "Drip tray" catches grease, pulls out for easy cleaning. Maximum power drain 1650 watts. Attractive white baked-on-enamel finish with nickel trim. For operation from 115-volt AC-DC. 19x10x5½". U.L. approved. Shipping Weight: 13 pounds. List Price \$11.85.

33N25409—Each, Lots of 3..... **7.94**  
Each, Singly..... 8.89

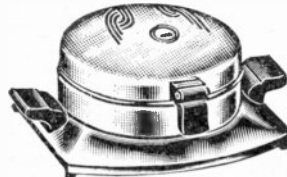
## GRILL AND WAFFLE BAKER



Combination grill and waffle baker toasts sandwiches, grills meats, and bakes waffles. Top and bottom grill plates turn over easily to form grids for two 4½" square waffles. Dial Indicator. Heavy chrome finish. For 110-115-volt AC-DC. U.L. approved. Shpg. Wt: 9 lbs. List Price \$14.10.

33N25423—Each, Lots of 3..... **9.85**  
Each, Singly ..... 10.55

## RAINBOW WAFFLE IRON



- Temperature Indicator
- Even Baking
- Non-stick Grids
- Heavy Chrome Finish

Equipped with dial indicator in top to show when proper temperature is reached to pour batter. Expanding hinges for even baking. Waffles will not stick to grids. Heavy chrome finish. Underwriters Laboratory approved. For 115-volt AC-DC. Shipping Weight: 5 lbs. List Price \$10.45.

33N25428—Each, Lots of 3..... **7.25**  
Each, Singly..... 7.85

## KORD COMBINATION FAN-HEATER

Provides fan blown heat in winter and fan only for summer use. 2-position switch offers choice of fan only or combination of fan and heater. Rated at 1320 watts, 115-volt AC. Tan finish. Size: 11½x9½". Shpg. Wt: 8 lbs. List \$14.95

33N25421—Each, Lots of 3.. **9.95**  
Each, Singly ..... 11.20  
Fan Blown Heater only. List \$10.95  
33N25422—Each, Singly..... **8.20**



## INFRA-RED HEAT LAMP

Lamp for heat therapy or general use where concentrated heat is desired. May be employed as well for drying clothes, freshly painted surfaces — an excellent therapeutic aid for aches, pains, or soreness. Needs no involved installation—just screw into ordinary socket. Operates on 110 volts AC-DC, 250 watts.

33N25503..... **1.25**



# ELECTRICAL ACCESSORIES



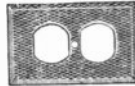
1. SINGLE SURFACE OUTLET. Brown bakelite. Wood mounting screw.  
33N13271—Ea., 8c.....10 for 72c



2. BAKELITE PLUG. Sturdy prongs.  
33N13306—Ea., 6c.....10 for 54c



3. CORD SWITCH. For ceiling fixtures and home appliances.  
33N13275—Ea., 24c.....10 for 2.16



10. WALL PLATES. Dual outlet. Ripple design stainless steel.  
33N13326—Ea., 7c.....10 for 63c



23. PLUG FUSES. U/L approved. 5 per box.  
39N13201—10 amperes  
39N13202—15 amperes  
39N13203—20 amperes  
39N13234—30 amperes  
Box of 5, either of above..... 24c



4. 3-WAY SURFACE OUTLET. Brown. Pin type terminals, wood screw.  
33N13279—Ea., 15c.....10 for 1.35



5. CUBE TAP. Brown. 3 outlets. Shipping weight 2 ounces.  
33N13282—Ea., 10c.....10 for 90c



6. HANDLE PLUG. Of soft rubber. Shipping weight 1 ounce.  
33N13301—Ea., 6c.....10 for 54c



11. MIDGET CORD CONNECTOR. Flat two-piece. Underwriters listed.  
33N13276—Ea., 20c.....10 for 1.80



12. POWER CORD AND PLUG. 6ft. rubber cord, brown bakelite plug.  
33N13285—Shpg. wt. 6 oz. Ea..... 15c



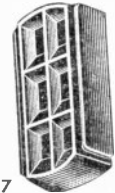
26. INSULATED STAPLES. No. 5. 1/4" x 3/8".  
17N15950—Package of 100.....14c  
10 packages for..... 1.26



27. PEARL PUSH BUTTON. 5/8" diameter clip mount.  
33N13313—.....Each.....20c  
10 For..... 1.80



28. MIDGET PUSH BUTTON. Brown. 15/16" diameter.  
33N13311—.....Each.....14c  
10 For..... 1.26



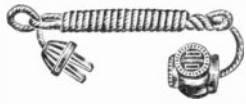
7. 3-WAY SURFACE OUTLET. Brown plastic. With wood mounting screw.  
33N13280—Ea., 15c.....10 for 1.35



8. CURRENT TAP. Bakelite. Straight socket with 2 plug outlets.  
33N13278—Shpg. wt. 4 oz.....15c



9. DUPLEX FLUSH RECEPTACLE.  
33N13329—Ea., 13c.....10 for 1.17



13. CUBE TAP EXTENSION. Trio tap, 9 ft rubber cord, AC plug. Brown.  
33N13318—Brown..... Ea., 37c 10 for 3.33



14. HEATER CORD SET. AC plug, 7 ft heater cord and screwless plug.  
33N13317—Shpg. wt. 7 oz.....49c



29. NO BLINK INSTANT STARTERS. U. L. approved. Eliminates blinking. Starter ceases to function and is not affected by deactivated lamp. When lamp is replaced, starter again functions normally. Starts within 1 second.

Cat. No.	Type	Lamp	Ea. 10 for
33N13825	FS2NA	15-20 W.	36c 3.24
33N13826	FS4NA	30-40 W.	36c 3.24

30. STANDARD FLUORESCENT STARTER. New, fast reliable starter switch. Underwriters' approved. Starts in one second or less. Lamps light in a flash.

Cat. No.	Type	Lamp	Ea. 10 for
33N13802	FS-5	4, 6, 8 W.	30c 2.70
33N13810	FS-2	15, 20 W.	18c 1.62
33N13811	FS-4	30, 40 W.	18c 1.62
33N13813	FS-6	85, 100 W.	49c 4.41
33N13827	FS-12	32 W. Circ.	22c 1.98

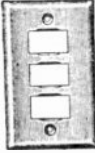
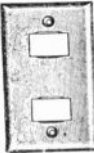
31. FLUORESCENT SOCKETS. For T8, T12 lamps. Heatproof plastic.  
33N13803—\*Black. Ea. 20c.....10 for 1.80  
33N13804—\*White. Ea. 21c.....10 for 1.89  
33N13805—Black. Ea. 12c.....10 for 1.08  
33N13806—White. Ea. 13c.....10 for 1.17  
33N13807—Starter. Ea. 12c.....10 for 1.08  
33N13808—Black. for T5. Pr..... 65c  
\*Comb. starter socket and lampholder.



15. FLUORESCENT BALLASTS. Underwriters' Listed. High power factor 90 to 100%. Normal 55 to 63%. For 105-125 volts 60 cycle AC operation.

Normal Power Factor			
33N25616	—15W	4 1/2 x 2 x 1 3/8"	—1 lb.....54c
33N25617	—20W	4 1/2 x 2 x 1 3/8"	—1 lb.....54c
33N25618	—30W	8 5/8 x 2 3/8 x 1 3/8"	—3 lbs.....2.10
33N25619	—40W	8 5/8 x 2 3/8 x 1 3/8"	—3 lbs.....2.10
33N25620	—(2) 20W	5 7/8 x 2 x 1 3/8"	—2 lbs.....1.06
33N25621	—32W	8 5/8 x 2 3/8 x 1 3/8"	—3 lbs.....2.10
High Power Factor			
33N25614	—30W	13 1/4 x 2 3/8 x 1 3/8"	—4 lbs.....3.89
33N25615	—40W	13 1/4 x 2 3/8 x 1 3/8"	—4 1/2 lbs.....3.89
33N25605	—(2) 40W	17 1/8 x 2 3/8 x 1 3/8"	—5 lbs.....4.15

## SNAP'N WALL PLATES



Durable, good looking. Many different switch and pilot light combinations are possible. Easily mounted. Supplied complete with all necessary hardware.

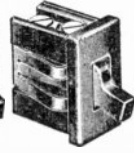


24. CONE ELEMENTS. 110 V heaters.  
33N13304—600 W. Ea., 42c.....5 for 1.89  
33N13305—1000 W. Ea. 69c.....5 for 3.11



25. FITS ALL IRON ELEMENTS. 110 V.  
33N13270—Ea., 45c.....10 for 4.15

## SNAP'N SWITCHES—OUTLETS—PILOTS



Gentle pressure snaps device quickly and securely into wall plate. Nos. 19, 20, and 21 rated at 15A., 125 volts; 10A., 250 volts. No. 22 rated at 125 V., 1/2-watt.

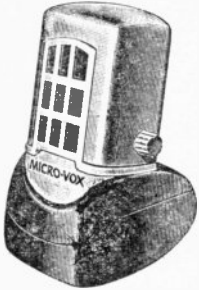
Brown Alloy	Each	White Alloy	Each	Description	Fig.
33N12350	6c	33N12351	7c	1 cut-out	16
33N12352	6c	33N12353	7c	2 cut-outs	17
33N12354	6c	33N12355	7c	3 cut-outs	18

Brown	Each	White	Each	Description	Fig.
33N12342	23c	33N12343	25c	SP Switch	19
33N12344	32c	33N12345	35c	3-way Switch	20
33N12346	15c	33N12347	18c	Outlet	21
33N12348	32c	33N12349	35c	Pilot Lite	22



# CRYSTAL SETS - MIKES - SPECIAL ITEMS

## MICROVOX MICROPHONE



Talk through your radio speaker with this battery-powered microphone. No wires necessary. Take it to any room in the house up to 75 feet from your radio. Broadcasts between 1000 and 1700 KC. Merely tune your radio to a non-interfering point on the dial within this frequency range. Lightweight plastic unit is entirely self-contained, with power supplied by one flashlight cell and a "Minimax B" battery. Uses a 1L4 type tube with extremely low power drain. Rubber rim on base protects furniture against scratching. Dimensions: 6 1/4" high x 5 1/2" deep x 5" base. Supplied complete with batteries and tube, ready for immediate use. Enjoy hours of real fun and entertainment.

32N22620—Shipping Weight 3 lbs.....**4.64**

Microphone with Sound Effects Kit listed below.  
32N22621.....**6.61**

Add a professional touch to your next party with a prepared radio program including script and sound effects. Sounds Effects Kit designed for use with the above mike includes 15 items for producing various sound effects. The kit also has three scripts (western, detective and historical), keyed to these sound effects.

32N22622.....**2.63**

## DESK MICROPHONE



Permanent magnet type mike equipped with 18' cable. Bullet shaped design finished in black and nickel. Has exceptional capabilities for amplifying sound with minimum distortion and maximum of fidelity. Size: 4 x 3 x 3". Shipping Wt. 9 oz.

32N13380.....**2.21**

## HANDY MICROPHONE



A handy mike any youngster will enjoy. Works through speaker of any radio set. Does not interfere with reception. Push-button switch for instant ON-OFF use. Handsomely finished.

32N13381—With cord.....**1.47**

## ELECTRIC MOTOR KIT & BOOK



The fascinating story of electricity told pictorially in 6 beautiful colors. 32 pages of the drama, history and principles of electricity in easy-to-understand language. Permanent metal binding and hard covers. 33 precision made parts and wire to assemble an electric motor that really runs. It's safe. Operates from flash light batteries.

32N24455.....**2.95**  
20N20622—Batteries (2 req.) Ea.....6½¢

## DETECTORS, CAT WHISKER, CRYSTAL



1. Glass Enclosed Detector. Dustproof. With supersensitive mineral & cats whisker. **29¢**  
32N13916—Each.....

2. Fixed Crystal Detector. Supersensitive point found by meters. Bakelite case with screws. **46¢**  
32N13913—Each.....

3. Cat Whisker. Finest wire—correct tension—holds that sensitive spot. **9¢**  
32N13921—Envelope of 3.....

4. Supersensitive Crystal. Extremely sensitive crystal assures picking up more stations and gets them louder. Each crystal is meter tested after selection. **12¢**  
32N13901—Each.....  
10 for.....**1.08**

5. Crystal Detector. Includes ball and socket swivel arm, crystal with holder, base and clips. **22¢**  
32N13917—Each.....

32N13906—Same as above, less base and crystal.....**12¢**

32N13900—Crystal only.....**6¢**

## RADIO PHONE WITH BATTERIES



### • A Real Portable Radio Set

More than just a toy! A real one-tube portable radio set that plays anywhere. Dials like a telephone, to tune in favorite radio station. A wonderful personal radio for any boy or girl—permits them to listen to the program of their choice without disturbing the rest of the family in the evening. Not a crystal set, but a real radio receiving set in a toy telephone. Operates on batteries, just like any other portable. Includes On-Off switch. Radio phone is shipped complete with one tube and all necessary batteries.

33N24545—Shipping weight 2 lbs.....**4.75**

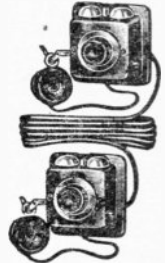
## CONNECTICUT DUPLEX TELEPHONE SET

Handsome green finished all metal phone cases with built-in bell ringers and black bakelite mouthpieces. Separate earphone with black bakelite earpiece. Uses 2 ordinary No. 6 dry cells at each station for lines up to 1000 ft. long. Longer lines up to 2000 ft. in length may be run by adding more batteries. Ideal for house to garage, basement to upstairs, farm-house to out-buildings. Complete with 160 ft. of 19-gauge white plastic insulated copper line wire, 2 phone stations and necessary hardware for wall mounting.

32N14002—Per set less batteries...**6.25**

Lots of 3. Each.....**5.65**

20N19858—Batteries for above. Ea.....**51¢**



## SUPERTONE CRYSTAL SET



A big seller and there is plenty of good reason for its popularity. Remarkable results have been obtained and its scientific construction gives loud, clear, distortion-free reception. A supersensitive crystal is utilized which is mounted in a glass enclosure.

32N13888—Supertone Crystal. Shpg. wt. 1 lb.....**1.26**

As above, without enclosed detector. Bakelite Housing.

32N13889—Little Wonder Crystal Set. Wt. 1 lb.....**1.04**

## SUPERTONE RADIO KIT

An interesting, educational, ready-to-assemble radio kit that is ideal for beginners. Includes molded bakelite base with contact slider, single headphone, and Supersensitive crystal as shown above. Complete directions for assembly and operation.

32N13870—Shpg. wt. 2 lbs.....**1.95**

## TEE-NEE RADIO—NO TUBES, BATTERIES, CURRENT



No fussing with batteries, tubes or plugging into power lines—new Tee-nee radio needs only an aerial and a ground. Housed in a beautifully finished mahogany crackle finished steel case. Tee-nee radio is supplied complete with single headphone with head band, but without aerial and ground wires. Size: 5 1/4" x 4 1/4" x 3".

32N13880—Model 250. Shpg. wt. 1 1/2 lbs.....**3.92**

## TEE-NEE PLASTIC CASE RADIO



Housed in a beautiful mahogany colored plastic case, just like the big sets. Earphone sets into case when not in use. Set is shipped complete with single earphone, but without aerial and ground wire.

Overall Dimensions: 4" long, 2 1/2" high, 1 5/8" deep.

32N13881—Model 100 Crystal Set. Shpg. wt. 1/2 lb.....**2.36**

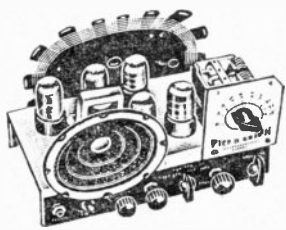
LIKE TO MAKE THINGS? SEE PAGE 72 FOR HOBBY TOOLS

PHONOGRAPHS FOR THE YOUNGSTERS SEE YELLOW SECTION

# POPULAR TRAINING KITS

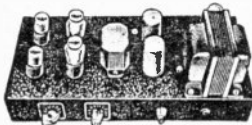
## 4-IN-1 RADIO KIT

An electronic kit that combines in a single unit almost every basic function performed in radio. Combines an amplifier, code practice oscillator, radio receiver and miniature radio transmitter. Ideal for use at home or school. The code practice oscillator and transmitter may be used to help obtain a radio operator's license. The amplifier input is for any high impedance mike or phono pickup. The radio receiver is a five tube set using the following tubes: 35Z5, 50L6, 12SL7, 12SK7, 12SA7. A loop antenna is used for both transmitting and receiving; no outside aerial is necessary. Kit supplied complete with tubes, Alnico V dynamic speaker and all necessary parts, plus detailed step-by-step instructions, Pict-o-Graphs, block diagram and schematic.



32N24364.....**19.11**

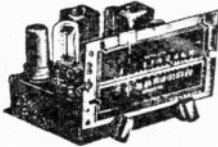
## HIGH QUALITY TEN-WATT AMPLIFIER KIT



Conservatively rated unit with negligible distortion—employs exceptional bass reproduction method which eliminates booming tones. Output stage resistance coupled with pair of 6A3 tubes in push-pull. Circuit includes phase inverter and simple feed back.

Tubes: 6C5, 6N7, 2-6A3, 5U4G. Less speaker and tubes.  
32N24512—Shipping Weight: 24 lbs. ....**20.65**

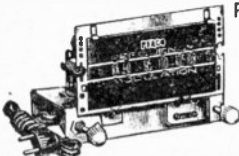
## 4-TUBE AM SUPER BROADCAST TUNER KIT



Unusually compact and efficient AC-DC AM broadcast-band tuner kit for use with PA systems, industrial sound installations, or as a remote tuner for any radio receiver equipped with phono input jacks, or standard audio amplifier units. Superheterodyne circuit consists of converter stage employing 12SA7 tube in an electron-coupled oscillator circuit, 12SK7-IF, 12SC7-Det & output, 35Z5GT-Rect. Complete with all 2-gang variable condenser, CroFlex dial assembly, and cadmium plated punched chassis. Less Tubes.

necessary parts including  
32N24532—Shipping Weight: 4 lbs.....**13.35**

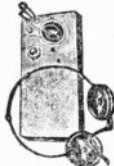
## PERCO FM BASIC TUNER KIT



Inexpensive FM tuner utilizes a new FM circuit that does away with limiters, discriminators, ratio detectors and the difficulty of peaking and tracking such circuits. Uses 14F8 and 35W4 tubes for earphone volume—or may be connected to any high impedance input audio amplifier or the audio circuit of any table or console radio. Complete basic kit consists of: punched chassis base; 15MMF tuning condenser; IF coil assembly; mounting hardware and tie lugs; full instructions.

32N24475—Shipping Weight: 3 lbs.....**5.50**  
Special Four-Inch Perco Dial Plate for the above tuner.  
32N24476—Shipping Weight: 1 lb.....**47¢**

## TWO-TUBE "POCKET" PORTABLE KIT



Operates on flashlight cells. Slips into your coat pocket with just enough extending out the top to tune. Built-in antenna, self contained batteries. Very good volume on local stations. Covers the broadcast band with additional range on each side of the dial. Uses two 1S4 miniature tubes in a standard regenerative-detector circuit transformer coupled to AF output stage. Case is easily made from cigar box. Less tubes, batteries, headset.

32N24516—Shpg. Wt: 5 lbs.....**5.85**

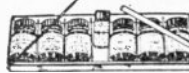
## "WIRELESS" OSCILLATOR KIT



One-tube oscillator when used with 1 to 1.5 volt output crystal pickup supplies sufficient modulated power to play records through radio receivers in other rooms at full volume without wired connections! Employs one 117N7-GT tube as both oscillator and rectifier. Easy-to-assemble kit includes all parts for oscillator, but less tube. For pickups, etc., see index. Shipping Weight: 4 lbs.

32N24531.....**3.65**

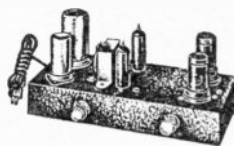
## PRINTED CIRCUIT KIT



Standard Basic Kit (4-25 cc bottles) for experimenting with printed circuit methods. Resistors of definite resistance and wattage can be painted on an insulating base by using these conducting and resistance paints. Printed circuits are electrically the same as those using individual wires, resistors, etc. Easy to use. Paints take full advantage of small size of miniature and subminiature tubes. Fast drying. Packed in durable, attractive box including copper conducting paint, low, medium and high resistance paints and manual "Design and Repair of Printed Circuits".

32N24365.....**4.70**  
Super Kit for professional worker. Includes paints, lacquer and solvent needed to build and repair printed electronic circuits quickly. Same as above plus ¼ oz. bottle silver conducting paint, insulating lacquer, and solvent and brush cleaner.  
32N24366.....**7.12**

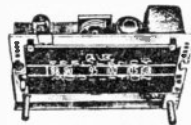
## 4-TUBE HI-FI MUSIC AMPLIFIER KIT



AC-DC amplifier, includes a built-in equalization network and pre-amp, for use with GE Reluctance or similar pickups. Separate low gain input for FM-AM tuner. Two 12SC7 tubes used as pre-amp, and audio driver tubes. Continuously variable tone control. 2-50B5 beam power amplifiers in push-pull.

provide audio output of over 4 watts with frequency response over 12,000 cps. Phase inverter circuit. Selenium rectifier power supply.  
32N24535—Less tubes. Shpg. Wt. 5 lbs. ....**12.95**

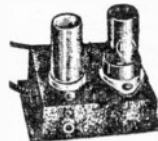
## FM TUNER KIT



Easy-to-build, inexpensive FM (frequency modulation) kit based on newly developed circuit design that makes possible the construction of FM tuner in a single evening! Circuit employs Fre Modyne FM detector using dual high freq. triodes (14F8) with one section as HF local oscillator, the other as a converter, IF amp. and detector. Excellent for use in Metropolitan areas. Supplied complete with pre-formed, punched cadmium plated chassis, large easy to read Cro-flex illuminated dial, all necessary mounting hardware, etc., with tubes 14F8 and 35W4.

32N24534—Shpg. Wt: 3 lbs. ....**14.39**

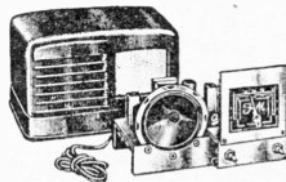
## PRE-AMPLIFIER KIT



Build your own pre-amplifier kit for use with the new General Electric variable reluctance or Pickering Pickup cartridges. The finished model is as fine a bass and treble compensated pre-amplifier as any available. Plate and filament power are received from associated receiver or amplifier. Kits are supplied complete with chassis, resistors, condensers, 6SC7 tube, and full instructions. Shipping Weight: 2 lbs.

32N24536.....**3.95**

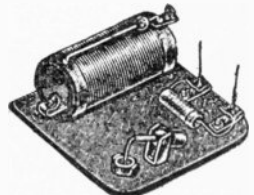
## FM RECEIVER KIT



Not just a tuner, but a complete receiver kit with its own wide range audio system and Alnico V PM speaker for full utilization of clear, static free reception! Employs 7 tubes and rectifier. May be operated either as a tuner or as a self-contained FM radio in both applications controlled by built-in switch. No expensive instruments necessary to make this set work. Operates from regular 300-ohm FM antenna and twin lead-in. Comes in brown plastic cabinet. Complete with tubes. Shipping Weight: 7 lbs.

32N24457.....**29.95**

## EAGLE CRYSTAL KIT



Includes fully wound tuning slide-coil, crystal detector, and "cats whiskers". No soldering—needs only screwdriver. Shpg. Wt: 1 lb.

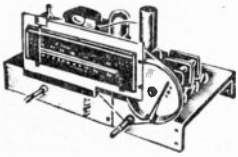
32N24465.....**88¢**

TECHNICAL INFORMATION GLADLY SUPPLIED



# RADIO KITS AND TRAINING SETS

## MEISSNER FM TUNER KIT

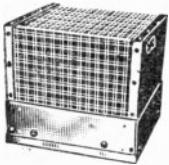


Model 8CK. The famous Model 8C in kit form. Covers 88 to 108 MC FM band. Recommended for use with Meissner model 4AK amplifier or any high quality amplifier which has an input of 100,000 ohms or greater and which produces full output with 3 volts R.M.S. audio input. Response is flat within  $\pm 2$  db from 50 to 15,000 cps. 300-ohm antenna in-

put. Slide rule dial,  $5\frac{1}{2} \times 1\frac{3}{8}$ " calibrated in MC and channel numbers. Uses (2) 6AU6, (2) 6BA6, (2) 6C4, 6AL5 and 6X5GT/G. Easily assembled from detailed pictorial diagram and simplified schematic. Front end and IF coils factory assembled and aligned. Complete with tubes, wire, hardware and solder. For 105-125 V. AC operation.

32N24355—Shipping Weight: 6 lbs. .... **29.37**

## MEISSNER PA KIT



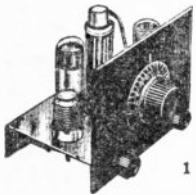
Model 4AK. High fidelity audio power amplifier with a response from 45 to 20,000 cps, flat within  $\pm 2$  db. 20-watt output. Used with model 8CK above, it provides excellent FM reception. 500,000 ohm input. 4,8,15,250 and 500-ohm output impedance. Uses 6SN7GT, (2) 6L6G and 5Y3GT. Easily assembled from detailed diagram and schematic. 110 V. 50/60-cycle AC.  $10\frac{1}{2} \times 8\frac{1}{2} \times 10$ ". Complete with tubes, wire, hardware, solder. Shipping Weight: 20 lbs.

32N24356..... **46.16**

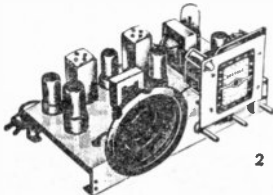
## MEISSNER "HOW TO BUILD" MANUAL

Contains a wealth of information on basic theory, design and construction of AM, FM and TV circuits, phono pickups, audio amplifiers, speakers, disc recorders, etc. Fully illustrated with charts, radio formulae, schematic and pictorial wiring diagrams.

23N19679..... **98c**



1



2

## MEISSNER RADIO KITS

Provide students with a sound, practical training in elementary radio. Easy to assemble with the complete step-by-step instructions included. Receivers are simple to operate and provide excellent reception on standard broadcast and short wave bands. Enjoy building and learning by using these regenerative receivers. Supplied with plug-in coils for broadcast band 180 to 550 meters.

1. TWO-TUBE AC-DC RECEIVER. Uses one 76 tube as a detector and one 76 tube as a rectifier. 110 volt AC or DC. Supplied less tubes and headphones.

32N10441—Shipping Weight: 2 lbs. .... **5.29**

1. THREE-TUBE AC-DC RECEIVER. Uses one 76 tube as a detector and one 76 tube as an audio amplifier and one as a rectifier. 110 volt AC-DC. Supplied with all necessary parts except tubes and headphones.

32N10442—Shipping Weight: 2½ lbs. .... **6.03**

Extra plug-in coils for use with above 2- and 3-tube kits.

32N10422—17 to 35 Meter Plug-in Coil..... 50¢

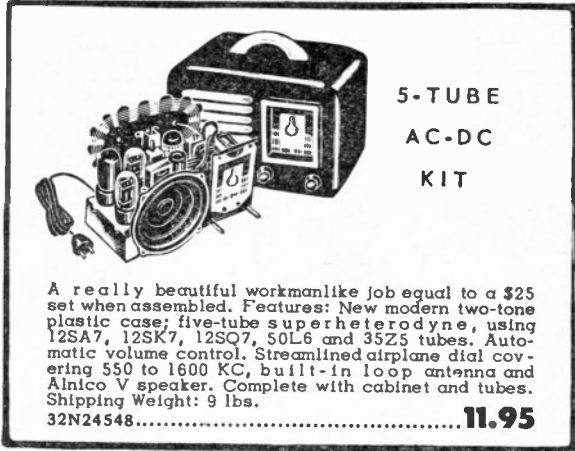
32N10421—35 to 70 Meter Plug-in Coil..... 50¢

32N10420—70 to 200 Meter Plug-in Coil..... 50¢

32N10423—545 to 1500 Meter (Long Wave) Coil..... 1.23

2. 6-TUBE TWO-BAND SUPERHET KIT. Calibrated to cover broadcast band of from 550 to 1600 kilocycles and shortwave band from 6 to 18 megacycles. Tuning control, band switch, and volume-control, with built-in On-Off switch beneath square illuminated dial. Untuned stage of RF amplification on both bands. Peaking circuit for added sensitivity on short wave. Filter choke for hum-free operation at max. output. Has 12SK7 RF amp., 12SA7 converter, 12SK7 IF amp., 12SQ7 detector, AVC, 1st Audio, 35L6GT Power Amp., and 35Z5GT Rectifier. With instructions and all other parts needed including tubes and speaker.

32N24499..... **24.70**



5-TUBE  
AC-DC  
KIT

A really beautiful workmanlike job equal to a \$25 set when assembled. Features: New modern two-tone plastic case; five-tube superheterodyne, using 12SA7, 12SK7, 12SQ7, 50L6 and 35Z5 tubes. Automatic volume control. Streamlined airplane dial covering 550 to 1600 KC, built-in loop antenna and Alnico V speaker. Complete with cabinet and tubes. Shipping Weight: 9 lbs.

32N24548..... **11.95**

## MEISSNER 3BK AND 2BK KITS

Model 3BK. AC-DC kits. Regenerative grid leak detector with resistance coupled pentode audio stage. 3-tubes, 6B16 and two 50B5. Uses any magnetic phones having an impedance of 2,000 ohms or more. Complete with coil covering broadcast band, 520-1530 KC, tubes, hardware, and solder. Additional coils for other bands listed below. For 105-125 V. AC-DC. Size:  $7\frac{1}{4} \times 4\frac{1}{4} \times 4\frac{1}{4}$ " H. x  $4\frac{1}{2}$ " D. Less headphones. Easily assembled from pictorial diagram and schematic.

32N24358—Shipping Weight: 2½ lbs. .... **10.88**

Model 2BK. Battery trainer kit. Same as above, but battery operated; uses only two tubes, 1T4 and 3V4. Batteries required: 4½ V. "A" battery and 90 V. "B" battery. Complete with coil covering broadcast band, 520 to 1530 KC, tubes, hardware and solder. Other coils to cover additional tuning bands listed below. Less phones and batteries.

32N24357—Shipping Weight: 2 lbs. .... **9.11**

## PLUG-IN COILS FOR ABOVE

32N24359—175 to 540 KC, Type 18-3500..... **1.23**

32N24360—1.35 to 4.5 MC, Type 18-3502..... .50

32N24361—3.2 to 8.2 MC, Type 18-3503..... .50

32N24362—7.9 to 18 MC, Type 18-3504..... .50

32N24363—15 to 34 MC, Type 18-3505..... .50

## 3-TUBE AC-DC STUDENT KIT



Simplicity of construction and foolproof operation will instill confidence in beginner's mind. Covers 550 to 1500 KC, operates on 110 V. AC-DC. Uses 2-6J5, 1-6SJ7 tubes. Less wire, tubes, solder and earphones. Simple to construct—all you need is a screwdriver, pliers, and a soldering iron. Complete

with instructions. Shipping Weight: 3 lbs. 32N24459..... **6.15**

## THREE-WAY PORTABLE KIT

Easy to assemble and simple to operate. Power switch conveniently located on front of set so that "AC-DC" or "Battery" may be selected without opening the case. 5" Alnico dynamic speaker. Leatherette covered case. Uses 1A7, 1H5, 1N5, 3Q5, 117Z6 tubes. Less tubes and batteries.

32N24541..... **17.95**

32N20617—45V Battery (2 required)..... Each..... 1.54

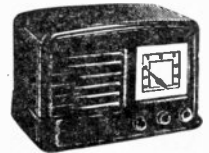
32N20610—4½V Battery (2 required)..... Each..... .56



## 2-BAND RECEIVER KIT

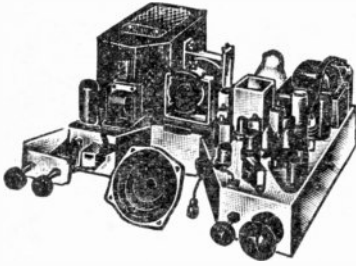
Ideal for elementary radio training. 6-tube, 2-band receiver kit equipped for operation on 110-volt AC or DC. Covers the following ranges: 550 KC to 1600 KC, 6 to 16 MC. Kit includes bakelite cabinet, complete, ready for assembly. Uses 12SK7, 12SA7, 12SQ7, 35L6, and 35Z5 rect. tubes. Less tubes.

32N24542..... **17.95**



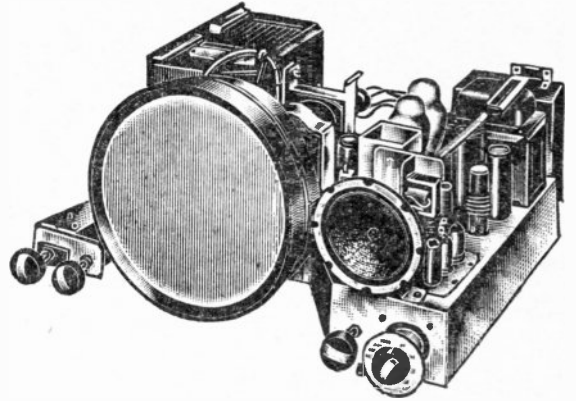
# TELEVISION KITS—CHASSIS—ACCESSORIES

## NEW TECH-MASTER 10" or 12" BLUE RIBBON KIT



Here's a fine new 10" or 12" TV kit, chock-full of advanced features for your complete viewing pleasure. It's economical and easy to build and gives results comparable to the best in television. One outstanding new feature is a clever keyed automatic gain control circuit which compensates automatically for variations in synchronizing pulse level to maintain constant picture level at all times. New contrast and brilliance control circuits rarely require adjustment once they have been set. Very high signal-to-noise ratio keeps pictures "locked-in" even with minimum signal input; annoying air plane "flutter" virtually eliminated. Circuit uses a phase discriminator for perfect results. Four stages of video IF provide full 4 MC bandwidth and picture detail. Three stages of sound IF, plus high quality discriminator using the latest 9-pin miniature tubes assure excellent FM television sound. Latest type all-channel turret tuner gives fast, precise channel selection. Uses the following latest type tubes: 6J5, (5) 6AG5, (2) 6BA6, (2) 6AU6, (2) 6AL5, (2) 6SN7, 6T8, 6K6, 6AC7, 12AU7, 6BG6, 1B3, 5U4 and 6W4. Supplied with stamped chassis, all parts, RCA tubes and step-by-step pictorial wiring instructions. All chassis components are already mounted. Shpg. Wt: 49 lbs.

32N24300—Less Picture Tube.....**119.95**



## TECH-MASTER 16" TV KIT "Circuit-Aligned" Components - 31 Tubes

Build your own duplicate of the famous RCA 630-TS circuit with this deluxe TV kit. Simplified wiring diagrams make it possible for practically anyone to wire the complete unit over a week-end. Now you can enjoy giant screen TV of superlative quality and save money at the same time. No special skills or knowledge is necessary to turn out a real professional job you'll be proud to show to your friends. A thoroughly sound voltage doubler circuit, using two 1B3's, has been designed to provide full voltage and current to drive up to a 20" picture tube and still give excellent brilliance, definition and sweep. The "circuit-aligned" components supplied with the kit keeps final adjustments down to a negligible minimum, and these can be made without additional equipment. A 211T5 flyback transformer, a 202D2 focus coil, 201R4 width control and other fine components are also supplied. Included too is the RCA 12-channel front end tuner, completely wired, aligned and tested. All chassis components already mounted. 630-TK Deluxe TV Kit, complete with tubes, speaker, parts and instructions. Shipping Weight: 67 pounds.

32N24557—Less Picture Tube.....**177.50**

### COMPLETELY WIRED TV CHASSIS

Here are completely wired, aligned and assembled TV chassis, ready for operation. For those who haven't the time or interest to build their own, yet want top quality television at a moderate price. Ideal for installation in your own cabinet or a choice of those listed in this catalog. This powerful 29-tube receiver brings in all channels with sharp, steady pictures of excellent brilliance and contrast. With tubes and speaker, but less picture tube and cabinet.

- 1N138—Chassis for 10" Tube..Wt: 68 lbs..**169.50**
- 1N139—Chassis for 12½" Tube..Wt: 68 lbs.... 179.50
- 1N140—Chassis for 15" Tube..Wt: 68 lbs.... 189.50
- 1N141—Chassis for 16" Tube..Wt: 75 lbs.... 199.50

### TECHMASTER 16" CONVERSION KIT

Here's good news for owners of 630TS type chassis. There's no longer any need to be satisfied with your present 10" or 12" screen because now, Lafayette makes it easy for you to enjoy giant size TV. Sit back and relax in any part of the room and watch your favorite programs without eyestrain or discomfort. No need to crowd around the set to see the picture properly. Here's 16" conversion kit that contains all the components required to adapt your old 630 type TV receiver to the huge 16" size. Do not confuse this with cheaper conversion kits that omit critical components and which give you compromise results. Kit contains everything you need to convert your present set to a 16" size: Flyback transformer, focus coils, width control, linearity control, 16" bracket, resistors, condensers, 1B3 rectifier and full instructions. Less picture tube.

32N24558.....**33.30**

### TELEVISION TUBE MASKS

High quality masks of crystal clear plastic. Protects tube and gives cabinet professional finish. Attractive gold bronze frame.

Stock No.	Type	Each	Stock No.	Type	Each
31N24415	10" Tube	3.75	31N24418	15" Tube	6.59
31N24416	12" Tube	4.19	31N24419	16" Tube	8.40
31N24417	12½" Tube	4.19	31N24420	20" Tube	10.85

### HOOD & RING FOR 16" TUBE

Constructed of durable plastic. Insulating sleeve and insulating mounting Ring for the new 16" metal TV tubes.

- 31N24410—Plastic Sleeve, with contact.....**1.89**
- 31N24411—Plastic Ring..... 2.29

FOR CABINETS TO HOUSE TV KITS, SEE PAGE 10  
FOR PICTURE TUBES, SEE PAGE 35

### LAFAYETTE 630-TS TELEVISION KIT 10" to 15" Model

Here's the kit to buy if you want a high quality television receiver in the 10" to 15" size. Precision-engineered RCA front end tuner is completely wired and aligned with factory assemble chassis components. Balance of the wiring necessary to complete the set takes only a few hours. All instructions are included - it's really easy to assemble! The powerful 31-tube circuit (including picture tube) assures sharp, clear, steady pictures of exceptional brilliance. Dual controls are provided for picture and FM sound, horizontal and vertical adjustments. Kit includes tubes, speaker, all parts and instructions. Shpg. Wt: 47 lbs.

- 32N24555—Less Picture Tube.....**161.95**
- Universal mounting bracket for 10 to 16 inch tubes.
- 32N24560..... 4.65

### TECH-MASTER STANDARD TV KIT

The 630-TK standard 10" to 15" TV kit is similar to the model described above, except that it is offered at a lower, economy price because no components except sockets are mounted. In every other respect it is the same as the deluxe model - same quality front end and components, plus complete instructions. Includes tubes, speaker, & all parts.

32N24561—Less Picture Tube.....**144.50**

### DIAL PLATES



Dress up your television kit; set with dial plates. Consists of etched plates in pleasantly contrasting tones of metal and maroon. One plate of each for contrast, off-volume, sensitivity control, vertical hold, horizontal hold, channel selector, and brightness control. Set of 6 plates as described above.

11N9895—Per set.....**79c**

### TV SECOND ANODE CONNECTOR

For television tubes. Silver plated snap button type plug, well insulated by 1½" diameter rubber protective cap. Snaps into opening on side of tube. Supplied with 12" wire lead.

31N24412.....**49c**



# RIDER'S MANUALS & TEXTBOOKS

## RIDER'S SERVICE MANUALS



Authoritative information on all the latest radio receivers. Now, more than ever before, is the time to buy the complete set of these practical manuals. Vol. 19.

Vol. 19—Over 2100 pages of servicing data of over 100 manufacturers. Cover sets to May 1949, record changers, etc. "How it Works" book. 23N20040..... **19.40**

Volume 1-5—Giant 2000-page volume abridging the first five manuals. Volume 1-5. 23N19684..... **19.40**

Cat. No.	Vol.	Year	Price	Cat. No.	Vol.	Year	Price
23N20039	18	1948	19.40	23N19898	11	39-40	16.17
23N20038	17	47-48	16.17	23N19738	10	1939	16.17
23N20036	16	46-47	8.23	23N19893	9	1938	16.17
23N20027	15	45-46	19.40	23N19892	8	1937	16.17
23N20025	14	1942	16.17	23N19951	7	1936	16.17
23N20026	13	41-42	16.17	23N19942	6	1935	12.25
23N19784	12	40-41	16.17				

MASTER INDEX: 204 pages covering Rider Manuals Vol. 1-15.

23N20037—Index with paper cover..... **1.47**

## FM TRANSMISSION AND RECEPTION



Over 400 pages of up-to-the minute information on Frequency Modulation. Tells just how FM signals are transmitted and received, covers the theory of FM and methods of operation of FM transmitters of all types. FM receivers and antennas are discussed, as well as solutions of servicing problems.

23N19734—Postpaid in U.S.A. .... **3.53**

## RIDER INSTRUCTION BOOKS

Learn radio theory and practice the "Hour a Day with Rider" way! Four convenient pocket-size textbooks make John Rider your personal instructor. Each book written in simple language, with detailed illustrations to supplement the text. Sturdy, handsomely bound hard covers. Each book 96 pages.

Alternating Currents in Radio Receivers. 23N20030..... **1.22**

Resonance and Alignment. 23N20031..... **1.22**

D.C. Voltage Distribution. 23N20032..... **1.22**

Automatic Volume Control. 23N20033..... **1.22**

CATHODE RAY TUBE AT WORK

New edition completely rewritten and vastly enlarged. The theory is greatly expanded—all scopes and syncoscopes manufactured during the last 10 years are described. Written to serve all users of scopes. Size 8½ x 11. More than 2,000 illustrations. 23N20043..... **7.35**

## THE METER AT WORK

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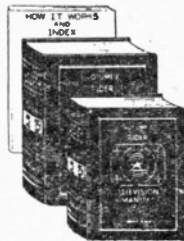
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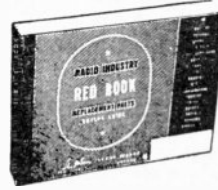
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By Nilson and Hornung. Latest edition of this classic text. Contains 1300 questions and answers usually asked on exams for radio operator licenses. Covers spark, arc and tube transmitters, batteries, generators, compasses, etc. 434 pages.

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Tells how to make your own short wave coils. Gives tried-and-true methods of computing wire size, turns, forms, spacing, etc. Illustrations, diagrams. 14 pages.

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Newest edition of this famous handbook by the American Radio Relay League. Contains complete fundamental data, constructional information on transmitters and receivers of latest design. Includes Code, Radio Telephony, Tube Characteristics, etc. 900 diagrams, charts. 548 pages.

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A new ARRL book offering a course of study, emphasizing the fundamentals on which practical communication is built. 36 study assignments with questions and answers cover Electricity and Magnetism, Ohm's Law, Resonant Circuits, etc. Use with ARRL Amateurs Handbook. 103 pages.

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Easy-to-read booklet thoroughly covers the subject of entering the amateur ranks. Explains elementary theory, construction of inexpensive stations, "code" laws, operating procedures, etc. Published by American Radio Relay League. 40 pages.

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Designed to train students to handle code skillfully using the accepted method of "sound" conception. Helpful home study material plus adequate practice sections make this a "must" for the progressive student or beginner. 32 pages.

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How to get your license made easy. Contains FCC's rules and regulations concerning Amateur stations. Question and answer section covers probable questions for Class A, B, and C license examination. Newest post-war edition. 29 pages.

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Hundreds of selected practical money-saving ideas developed by ingenious amateurs to solve problems of modern radio construction and experimentation. 128 pages.

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## A.R.R.L. ANTENNA BOOK

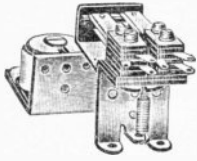
Comprehensive manual of antenna design and construction. Includes theory and practical data on all types. Contains 18 full chapters well illustrated. Approx. 100 pages.

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# ALL-PURPOSE RELAYS

## GUARDIAN SERIES 200 (UNIVERSAL) RELAYS



Consists of relay frames with either SPDT or DPDT basic switch assembly, nine interchangeable actuating coils for AC or DC circuits, plus a contact parts assortment for making switching combinations up to 4PDT. Contact points are silver with maximum non-inductive load rating of 8 amps at 115 volts, 60 cycles AC. Detailed instruction sheet shows how to make various combinations. May be used for all blade switch applications.

- 16N14283—Type 200-1 Relay Frame SPDT Assembly.....1.08  
 16N14284—Type 200-2 Relay Frame DPDT Assembly.....1.47  
 16N14305—Type 200-3 Contact Parts Assortment.....1.09

### AC RELAY COILS

- 16N14285— 6 volts.. }  
 16N14286— 12 volts.. } **1.32**  
 16N14288— 24 volts.. } Each  
 16N14289—115 volts.....1.65

### DC RELAY COILS

- 16N14290— 6 volts.. }  
 16N14292— 12 volts.. } **1.32**  
 16N14297— 24 volts.. } Each  
 16N14298— 32 volts.. }  
 16N14304—110 volts.....1.65

## SPST NORMALLY OPEN KEYING RELAY



Oversize silver contacts handle filament centertap keying of any stage up to 2000 volts on plate, and AC primary keying up to 1 KW. 3000 volt insulation. Provides clean make and break at highest keying speed. SPST double break. 6 volt AC coil.

- 16N14119—Series K-320. Size: 3 1/2"x1 1/2"x1 1/8". Wt. 4 oz..... **2.65**

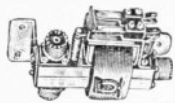
## ADJUSTABLE OVERLOAD RELAY WITH ELECTRIC RESET



Series X-300-ER.—Positive, precise protection against current surges or continuous overloads. Remote panel installation of the control potentiometer shunted across coil as current divider simplifies adjustment of relay to operate on any current value from 250 to 750 ma. Auxiliary contacts for pilot light. Reset relay uses 6.3 volt AC coil, draws 920 ma. 3000-volt insulation.

- 16N14120—4 3/4"x1 1/2"x2". Wt. 13 oz..... **5.44**

## PRICE COAXIAL ANTENNA TRANSFER RELAY



Type 6350 Relay. SPDT Relay, with a capacity of 750 watts RF if impedances are matched. Provided with three SO-239 female receptacles to accommodate plugs on RG-8/U cables to antenna, transmitter and receiver.

- Complete with coil for 110 volts, 60 cycles AC operation. **9.80**

- 16N14133—Shipping weight 1 lb.....  
 Type 6351, same as above with the addition of two sets of auxiliary contacts, one SPST normally open and one SPST normally closed, both rated at 250 ma., 300 volt DC. Use for ECO and receiver switching. Size with auxiliary contacts 4 1/2"x3x2". **10.78**

- 16N14134—Shipping weight 1 lb.....

## AMPERITE THERMAL RELAY



SPST, normally open, closed by heater after delay (in seconds). In octal tube envelope. Heaters draw approx. 2 watts. Contacts rated 115 volts, 3 amps AC or 440 volts, 2 amps AC. Breakdown voltage between contacts 1000 volts and between contacts and heater 1500 volts.

Delay	Type No.	6.3V Heater	Type No.	115V Heater
5	6N05	16N14400	115N05	16N14399
10	6N010	16N14409	115N010	16N14410
15	6N015	16N14401	115N015	16N14405
20	6N020	16N14411	115N020	16N14412
30	6N030	16N14402	115N030	16N14406
45	6N045	16N14413	115N045	16N14414
60	6N060	16N14415	115N060	16N14416
75	6N075	16N14403	115N075	16N14407
90	6N090	16N14417	115N090	16N14418
120	6N0120	16N14404	115N0120	16N14408

Any Type, Each.....2.35

## W.L. REMOTE CONTROL HEAVY DUTY MIDGET



Type 507-549. Single-Pole, double-throw, single break. 110 volt AC operation. Silver-to-silver self-cleaning contacts. Rating: 20 amps. AC normally open, 15 amps. AC normally closed. 2 3/8"x1 1/8".

- 16N14124—Weight 1 lb..... **3.50**

## ADVANCE 300-OHM LINE RELAY

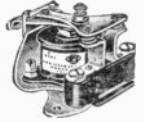


K1504. RF Efficient, D.P.D.T. midget type AC transmit-receive relay is well insulated for RF applications. Silicone glass material is used for insulation on armature and stationary contact assemblies. Line spacing maintained by solder lugs. 500 watt RF input. Overall: 1 1/2"x1 1/8"x3 1/8". Up to 115 V. AC or 40 V. DC. Consumption 4 VA.

- 16N14147..... **2.65**

## POTTER-BRUMFIELD RELAYS

### TYPE "PR" HEAVY DUTY POWER RELAYS



Will start motors up to 1 HP, high heater loads, etc. Cont. duty type—will not overheat because coils take only 2 watts on DC and 5VA on AC. Larger copper shaded pole-piece prevents AC chatter. Heavy contact pressure. Sturdy return spring and screw terminals. Metal parts heavy plated; coils impregnated with varnish. Contacts of double break types rated at 20 amps. and single break types at 15 amps., 110 volts AC non-inductive load. All ratings are for continuous duty.

No.	Type	Contact's	Coil Volts	Each
16N14254	PR3A	SPST-DB-NO*	6V/60cy AC	\$3.10
16N14255	PR3A	SPST-DB-NO*	110V/60cy AC	3.10
16N14100	PR3A	SPST-DB-NO*	220V/60cy AC	3.10
16N14256	PR4A	SPST-DB-NC*	6V/60cy AC	3.15
16N14257	PR4A	SPST-DB-NC*	110V/60cy AC	3.15
16N14258	PR5A	SPDT	6V/60cy AC	3.20
16N14262	PR5A	SPDT	110V/60cy AC	3.20
16N14101	PR5A	SPST	220V/60cy AC	3.20
16N14263	PR7A	DPST-NO	6V/60cy AC	3.65
16N14264	PR7A	DPST-NO	110V/60cy AC	3.65
16N14102	PR7A	DPST-DB-NO*	220V/60cy AC	3.65
16N14244	PR11A	DPDT	6V/60cy AC	4.90
16N14245	PR11A	DPDT	110V/60cy AC	4.90
16N14103	PR11A	DPDT	220V/60cy AC	4.90

\*NO—normally open. \*NC—normally closed.

## "MR" SERIES FOR LIGHTER LOADS

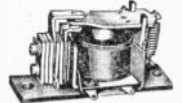
Double break contacts rated at 10 amps; Single break at 8 amps 110 V A.C. 60 cycle non-inductive load. AC coils require approx. 2 watts; DC 1 1/2 watts. Size: 1 3/8"x1 1/2"x2 7/8".



No.	Type	Contacts	Coil Volts	Each
16N14104	MR1A	SPST-NO	6V/60cy AC	\$2.00
16N14109	MR1A	SPST-NO	110V/60cy AC	2.00
16N14110	MR3A	SPST-DB-NO	6V/60cy AC	2.30
16N14111	MR3A	SPST-DB-NO	110V/60cy AC	2.30
16N14271	MR5A	SPDT	6V/60cy AC	2.15
16N14272	MR5A	SPDT	110V/60cy AC	2.15
16N14112	MR7A	DPST-NO	6V/60cy AC	2.60
16N14144	MR7A	DPST-NO	110V/60cy AC	2.60
16N14273	MR11A	DPDT	6V/60cy AC	2.80
16N14274	MR11A	DPDT	110V/60cy AC	2.80

## PLATE CIRCUIT RELAYS

Armature spring adjustable for applications requiring closing or opening on specified currents or voltages. Table below shows standard factory adjustments for current to energize, also minimum after readjustment of spring. (A) LS series. (B) LM series.

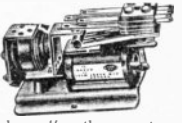


No.	Type	Amps.	Coil Ohms	Min. Cur.	Std. Cur.	Cost
16N14279	LS5*	4	2,500	6.0	9.0	\$1.90
16N14281	LS5*	4	5,000	4.3	6.3	2.20
16N14209	LM5*	5	2,500	2.4	6.3	2.30
16N14210	LM5*	5	5,000	1.7	4.5	2.55
16N14211	LM5*	5	10,000	1.2	3.2	2.95
16N14212	LM11†	5	2,500	5.3	9.0	3.40
16N14213	LM11†	5	5,000	3.7	6.3	3.65
16N14214	LM11†	5	10,000	2.7	4.5	4.05

\* Denote SPDT. † Denote DPDT.

## AUTOMATIC LOCK RELAY ELECTRIC RELEASE

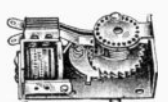
Employs two coils—one to operate relay and another to release the lock. Includes 3/16" fine silver dome-shaped contacts rated conservatively 4-20A. When circuit to operating coil is closed momentarily the normally closed contacts open and the normally open ones close with the relay in this position even when current is removed. To return positions to normal, current is applied to "release" coil removing automatic lock.



- EL11A—DPDT contacts, 110 volt, 60 cycle coils **4.30**  
 16N14142.....  
 16N14143—EL5A—SPDT contacts. Shpg. wt. 2 lbs..... **3.75**

## ADVANCE COUNTING RELAY

24 positions step relay. For "wired music," counting, switching applications. Manual reset. Has SPST switch for an indicator light; switch closes on first impulse. Coil voltages 110 V. AC. One neutral position. 1/4" diameter shaft extends 1 1/4". Size: 1 1/2"x1 1/8"x3 1/8".



- 16N14145..... **5.00**

## ADVANCE TIME DELAY RELAY

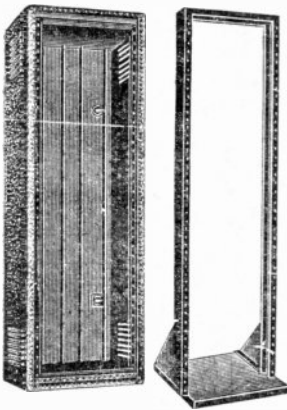
Type 304B. For preheating tube filaments and similar uses. Relay provides an adjustable delayed make (10-60 sec.) for the controlled circuit which remains closed until the initial circuit is broken. 1/4" pure silver contacts; 10 amps at 115 V. AC (non-inductive).



- 16N14146—DPDT..... **5.50**



# STURDY RACKS, PANELS AND ACCESSORIES



## STEEL CHANNEL RACKS

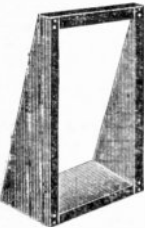
For standard 19" long panels. Universally drilled. Base 16x20". 1/4" steel with spot-welded corners. Holes tapped for 10-32 screws. Black ripple.

73 1/4" high, 71 3/4" panel space.  
24N22150—**17.05**  
Wt. 85 lbs. ....  
38 1/4" high, 36 3/4" panel space.  
24N22151—**14.26**  
Wt. 57 lbs. ....

## ENCLOSED RACKS

Deluxe all-steel enclosed racks, streamlined and finished in slate gray with trimming at top and bottom. (Black ripple also available—specify on order.) Universally drilled for all standard panels. Panel width 19". Models are 22 1/2" wide, 16 1/2" deep. Hinged back, 2 lbs. 57 lbs. Shipped flat.

Stock No.	Height in.	Panel Space	Weight, Lbs.	Cost, Each
24N22145	42"	36 3/4"	100	27.93
24N22146	66 1/2"	61 1/4"	150	41.45
24N22148	82 1/4"	77"	175	49.39



## 1/16" STEEL TABLE RACKS

Universal drilling accommodates all standard panels. Tapped for 10-32 screws. 25" high rack has panel space 21x19"; 32" high rack has panel space 28x19". Both 20" wide, 12" deep. Black ripple finish.

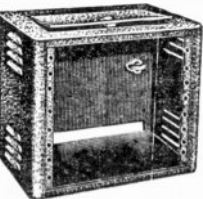
24N22102—25". Wt. 33 lbs. .... **5.29**  
24N22103—32". Wt. 36 lbs. .... **6.76**

## RADIO PANELS

Suitable for test instruments and radio applications.

1/16" STEEL PANELS Black Wrinkle Finish				3/16" BAKELITE PANELS Black Polished Finish			
Stock No.	Size	Lbs.	Each	Stock No.	Size	Lbs.	Each
24N22218	7x10"	2	.47	24N19600	7x10"	3/4	1.32
24N22219	7x12"	2	.53	24N19601	7x12"	1	1.62
24N22220	7x14"	3	.71	24N19602	7x14"	1	1.91
24N22221	7x18"	4	.81	24N19603	7x18"	1	2.41

## DELUXE STEEL CABINETS FOR RACK PANELS



- Standard Mounting
- Built-in Louvres

Heavy-duty cabinets built of 1/16" steel, finished in Black ripple. Welded construction, streamlined design. Neatly rounded corners. Universally drilled to fit all standard 19" rack panels. All have louvres, hinged doors with snap locks, and take chassis 13" deep. Also available in slate gray finish on special order.

Stock No.	Overall Dimensions	Panel Space	Door Location	Wt. Lbs.	Each
24N22188	10 1/2 x 21 x 13 1/2"	8 3/4 x 19"	Top Only	22	9.70
24N22071	14 x 21 x 13 1/2"	12 1/4 x 19"	Top Only	29	11.76
24N22191	19 1/2 x 21 x 13 1/2"	17 1/2 x 19"	Top & Rear	34	16.32
24N22198	28 x 21 x 13 1/2"	26 1/4 x 19"	Rear Only	69	18.82
24N22199	36 3/4 x 21 x 13 1/2"	35 x 19"	Rear Only	73	20.87

## RECESSED METER PANELS



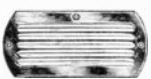
Meters can be recessed from front of panel and are protected by plate glass insert allowing 3/8" clearance in back of panel. Blank bakelite sub-panel provided. Accommodates 4—3" meters.

24N22204—Black 5 1/4 x 19" ..... **4.70**  
24N22205—Grey 5 1/4 x 19" ..... **4.70**

## CHROME HANDLES

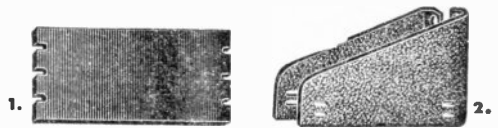


For cabinets, amplifiers, chassis, etc. Mtg. screws included.  
24N14563—5 1/4" Long Chrome Handles. Mtg. Centers 4 1/16" ..... **44¢**  
24N14562—4" Long Chrome Handles. Mtg. Centers 2 3/4" ..... **44¢**



## CHROME VENTILATING LOUVRES

Adds a distinctive touch to any receiver, amplifier, transmitter, or any other installation. Polished, chrome-finished steel "Air-Gate" made up of 5 ventilating louvres. Air space between louvre plates: 3/16". Distance between mounting hole centers: 4 1/2". Diameter of holes: 3/16". Length of louvres: 4 1/4". Size: 5" x 3" ..... **53¢**  
24N22234—Shpg. wt. 8 oz. ....



## HEAVY STEEL RACK PANELS

1. Heavy duty 1/8" steel panels for all standard 19" racks. Available with either black ripple or commercial slate gray ripple finishes.

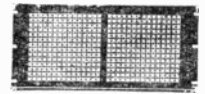
Black	Gray	Hght. In.	Lbs. Each	Black	Gray	Hght. In.	Lbs. Each
24N22169	24N22118	13 1/2	2 .65	24N22163	24N22124	12 1/4	12 1.59
24N22170	24N22119	31 1/2	5 .73	24N22164	24N22125	14	13 1.82
24N22171	24N22120	5 1/4	7 .85	24N22165	24N22126	15 3/4	14 2.12
24N22160	24N22121	7	8 .91	24N22166	24N22127	17 1/2	15 2.26
24N22161	24N22122	8 3/4	9 1.15	24N22167	24N22128	19 1/4	16 2.44
24N22162	24N22123	10 1/2	10 1.29	24N22168	24N22129	21	17 2.76

## 1/16" STEEL MOUNTING BRACKETS

2. Panels must be at least 7" high. Mounting holes drilled.  
24N15271—Black Ripple Finish. Base Size: 8" ..... Pair **68¢**  
24N15272—Black Ripple Finish. Base Size: 11" ..... Pair 1.00  
24N15269—Black Ripple Finish. Base Size: 13" ..... Pair 1.21

## GRILLE PANELS

Modern type ventilating grille panel made of 1/4" thick steel, 19" wide. Grille work is actually stamped into the panel; not a pieced assembly. Uniformly slotted.



Stock No. Black	Stock No. Grey	Panel Height	Grille Size	Each
24N22420	24N22421	5 1/2"	3 3/4 x 14 3/8"	2.26
24N22422	24N22423	7"	4 7/8 x 14 3/8"	2.41
24N22424	24N22425	8 3/4"	*3 7/8 x 14 3/8"	2.65
24N22426	24N22427	10 1/2"	*5 7/8 x 14 3/8"	2.94
24N22428	24N22429	12 1/4"	*7 3/8 x 14 3/8"	3.38

\* Allows 3 1/2" space at bottom for chassis mounting.

## RACK SHELVES

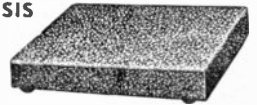
Designed to be mounted inside the rack, with side bolt mounting. 1" high, finished in black ripple enamel. Shipping weight 15 lbs.  
24N22157—17x21 3/8" ..... 2.21  
24N22158—15x21 1/2" ..... 2.79

## Chassis Supporting Angles

For heavy weight encountered in chassis construction. Distributes weight on sides of rack and relieves panel. 1/8" thick black painted steel. 3" wide x 14 1/2" long.  
24N22159—Per Pair ..... **1.47**

## STEEL AND ALUMINUM CHASSIS

Four solid sides, welded corners. Bottom edges flanged in and drilled for plates. Steel chassis No. 20 gauge with black ripple finish; Aluminum chassis .055" thick. Unfinished.



Size D. L. H.	Steel		Aluminum	
	No.	Each	No.	Each
4 3/4 x 8 1/2 x 1 1/2"	24N22391	.62	24N22237	.76
5 x 9 1/2 x 1 1/2"	24N22211	.67	24N22238	.95
7 x 7 x 2"	24N22212	.82	24N22239	1.06
7 x 9 x 2"	24N22213	.88	24N22243	1.14
7 x 11 x 2"	24N22214	.97	24N22244	1.22
7 x 13 x 2"	24N22215	1.06	24N22245	1.47
7 x 15 x 3"	24N22216	1.26	24N22246	1.47
7 x 17 x 3"	24N22217	1.26	24N22247	1.64
10 x 12 x 3"	24N22226	1.38	24N22248	1.79
10 x 17 x 3"	24N22227	1.29	24N22249	1.79
11 x 17 x 3"	24N22393	1.94	24N22395	2.35
13 x 17 x 3"	24N22394	2.44	24N22396	2.62

## BLACK RIPPLE STEEL BOTTOM PLATES

With holes to match steel chassis above. Pressed corner "bumpers."

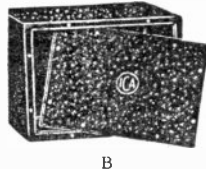
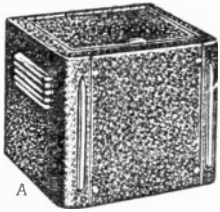
No.	Size	Wt.	Cost	No.	Size	Wt.	Cost
24N22228	5 x 9 1/2"	1 Lb.	.38	24N22260	7 x 17"	2 Lbs.	.65
24N22233	5 1/2 x 10"	1 Lb.	.41	24N22261	8 x 12"	2 Lbs.	.65
24N22241	7 x 7"	1 Lb.	.44	24N22265	10 x 12"	2 Lbs.	.68
24N22242	7 x 9"	1 Lb.	.44	24N22262	10 x 14"	3 Lbs.	.71
24N22249	7 x 11"	1 Lb.	.53	24N22266	10 x 17"	3 Lbs.	.82
24N22256	7 x 13"	2 Lbs.	.56	24N22397	11 x 17"	3 Lbs.	.82
24N22258	7 x 15"	2 Lbs.	.62	24N22398	13 x 17"	4 Lbs.	1.03

## STEEL CHASSIS WITH BOTTOM COVER PLATES

Heavy-duty 1-pc. 1/16" steel. Reinforced corners. Ends drilled to fit standard mounting bracket. Black wrinkle finish.

No.	W. L. D.	Lbs.	Ea.	No.	W. L. D.	Lbs.	Ea.
24N22155	8 x 17 x 2"	9	2.18	24N22156	11 x 17 x 3"	12	2.85
24N22229	8 x 17 x 3"	10	2.47	24N22230	13 x 17 x 2"	13	2.94
24N22231	11 x 17 x 2"	11	2.59	24N22232	13 x 17 x 3"	14	3.18

# FOUNDATION CABINETS, CHASSIS & METER CASES



## DE LUXE HINGED STEEL CABINETS

A. Attractive streamlined cabinets, with full-length piano hinged top and removable front panel. Slate gray finish with chrome trim molding, ventilators on side. All without chassis.

No.	H x L x D.	Panel	For Chassis	Each
24N22087	8x10x8"	8x8"	7x7x2"	4.26
24N22088	8x10x8"	8x10"	7x7x2"	4.41
24N22089	8x14x8"	8x12"	7x13x2"	5.29
24N22091	12x20x12"	12x18"	10x17x3"	8.23

## STANDARD HINGED STEEL CABINETS

Similar to above, less chrome trim, with ventilating louvers.

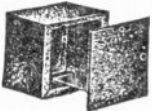
No.	H x L x D.	Panel	For Chassis	Each
24N22200	8x10x8"	8x8"	7x7x2"	2.94
24N22201	8x12x8"	8x10"	7x7x2"	3.23
24N22202	8x14x8"	8x12"	7x13x2"	4.12
24N22203	12x20x12"	12x18"	10x17x3"	7.64

## GENERAL UTILITY STEEL CABINETS

B. Streamlined, sturdily made steel cabinets designed for use in radio or other allied fields. All are made of sheet steel, constructed with spot welded reinforced corners. Tops and bottoms are easily removable and held firmly in place by means of self-tapping screws which are included with the cabinets. Handsome black ripple finish gives a neat, efficient appearance. Available in 10 sizes to fit all requirements.

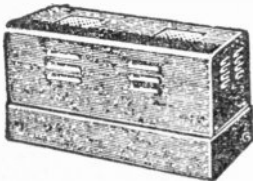
No.	Size	Shp. Wt.	Each
24N22209	4x2x4"	2 lbs.	.76
24N22210	4x3x5"	3 lbs.	.82
24N22174	6x6x6"	3 lbs.	.97
24N22175	9x5x6"	5 lbs.	1.47
24N22173	1 x 8x7"	6 lbs.	1.85
24N22176	10x8x10"	7 lbs.	2.35
24N22177	11x12x8"	9 lbs.	2.53
24N22181	12x7x6"	5 lbs.	1.82
24N22182	15x9x7"	10 lbs.	2.56

## Miniature Utility Cabinets with Attached Chassis



Indispensable when building electronic devices using miniature tubes. Front and rear panels are removable and fastened with self-tapping screws, permitting easy accessibility. Useful for HF converters, TV amplifiers and power supplies. Black wrinkle finish.

Stock No.	H x W x D.	Chassis Size	Each
24N22430	4x4x2"	1x3 1/4 x 1 7/8"	.93
24N22431	4x5x3"	1x4 1/4 x 2 1/8"	1.03
24N22432	5x4x3"	1 1/4 x 3 1/4 x 2 1/8"	1.03
24N22433	6x5x4"	1 3/4 x 4 1/4 x 3 1/4"	1.13
24N22434	5x6x4"	1 1/4 x 5 1/4 x 3 1/8"	1.13
24N22435	6x6x6"	1 3/4 x 4 1/4 x 5 1/8"	1.18



## AMPL. CHASSIS & COVERS

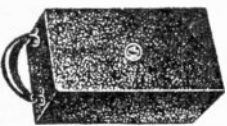
Chassis stamped from 1-pc. cold rolled steel, with black ripple finish. 6" deep covers are slate gray. 3" high chassis drilled for bottom plates (not supplied). Deluxe models similar to standard, but include chromium molding and handles.

Standard Models				DeLuxe Models			
No.	Size	Wt.	Each	No.	Size	Wt.	Each
24N22132	5 1/2 x 10 x 9"	9 lbs.	2.20	24N22183	5 1/2 x 10 x 9"	9 lbs.	3.62
24N22138	8 x 12 x 9"	10 lbs.	3.23	24N22139	8 x 12 x 9"	11 lbs.	4.70
24N22135	7 x 17 x 9"	11 lbs.	3.38	24N22185	7 x 17 x 9"	11 lbs.	4.85
24N22136	10 x 14 x 9"	11 lbs.	3.67	24N22186	10 x 14 x 9"	11 lbs.	5.29
24N22137	10 x 17 x 9"	13 lbs.	3.82	24N22187	10 x 17 x 9"	13 lbs.	5.59

## PORTABLE STEEL CABINETS

For oscillators, transceivers, etc. Removable front and back panels. Leather handle. Black ripple finish.

24N22273--Size: 12x7 1/2 x 7"..... **2.50**  
24N22274--Size: 15x7 1/2 x 7"..... **2.91**



## MINIATURE ALUMINUM CHASSIS

Open end chassis of hard aluminum. Has 1/4" flange on bottom to permit fastening down of chassis, or attaching it to a bottom plate. Extremely useful for small receivers, outboard uses such as narrow band FM adaptors or where space is limited. Etched aluminum finish.



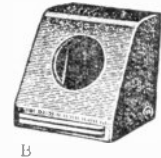
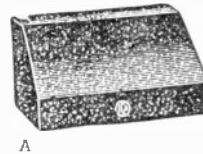
Stock No.	Dimensions (-L x W x D.)	Each
24N22436	2 5/8 x 2 3/4 x 1 1/4"	.29
24N22437	1 3/4 x 3 1/4 x 1"	.32
24N22438	3 1/4 x 4 1/2 x 2"	.35
24N22439	2 3/4 x 4 1/4 x 1"	.35
24N22440	3 3/4 x 4 1/4 x 1 1/2"	.35
24N22441	3 x 6 1/4 x 1 1/4"	.41
24N22442	5 3/4 x 4 7/8 x 1 1/2"	.44
24N22443	4 x 3 1/4 x 1"	.35
24N22444	4 x 4 1/4 x 1"	.38
24N22445	4 x 5 1/4 x 1"	.41
24N22446	4 x 6 1/4 x 1"	.44

## HINGED COVER CABINETS

Rugged steel cabinets with piano hinged lids so arranged that bottom, front or back panel may be removed for circuit wiring. Attractively finished in black ripple enamel.



Stock No.	Dimensions (W x D x H.)	Uses Chassis	Each
24N22385	9x5x6"	8 1/2 x 4 3/4 x 1 1/2"	2.35
24N22386	10x8x7"	9x7x2"	2.94
24N22387	12x8x7"	11x7x2"	3.38
24N22388	12x11x8"	11x10x3"	4.03
24N22389	14x8x7"	13x7x2"	4.03
24N22390	18x12x9"	17x11x3"	5.06



## SLOPING PANEL STEEL CABINETS

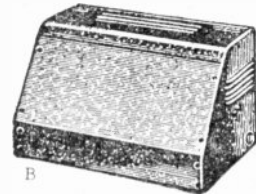
A. Serve as speaker cabinets, oscillator case, monitors, teletalk systems, etc. Round-d corners. Marine gray finish.

24N22097 Dimension: 4 1/4 x 4 1/2 x 4 1/2". Shpg. wt. 2 lbs. .... **1.26**  
24N22098--Dimensions: 7 1/2 x 4 1/2 x 4 1/2". Shpg. wt. 5 lbs. .... **2.26**

## DELUXE METER CASES

B. For 2" and 3" meters. Marine gray ripple finish, chrome trim.

24N22080--4 1/4 x 4 1/2 x 4 1/2". Meter Hole 2 1/8" ..... } **1.32**  
24N22081 4 1/4 x 4 1/2 x 4 1/2". Meter Hole 2 3/8" .....



## STANDARD SPEAKER CABINETS

A. Louvered back cover with slots for wall hanging. Made of durable sheet steel with black ripple enamel finish.

24N22140	6" Speaker	Cabinet Size: 10x10x6"	Wt. 8 lbs.	3.00
24N22141	9" Speaker	Cabinet Size: 12x12x7"	Wt. 9 lbs.	3.59
24N22142	10" Speaker	Cabinet Size: 14x14x8"	Wt. 15 lbs.	4.70
24N22143	12" Speaker	Cabinet Size: 16x16x8"	Wt. 20 lbs.	6.31

## SLOPING FRONT CABINETS

B. Front panel removable. Rear openings for leads and ventilation. Slate gray ripple finish with red-stripped trim. Less chassis.

24N22092	8x8x8"	For Chassis 7x7x2"	Wt. 9 lbs.	3.88
24N22093	8x10x8"	For Chassis 7x9x2"	Wt. 10 lbs.	4.26
24N22094	8x14x8"	For Chassis 7x13x2"	Wt. 11 lbs.	5.59
24N22096	12x18x12"	For Chassis 10x17x3"	Wt. 17 lbs.	7.50



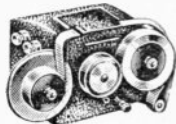
# TRANSMITTING KEYS-PHOTOFLASH EQUIPMENT



## Linguaphone Code Lesson Records

Learn code this easy way at your own convenience. Speed progresses from 2 to 15 words per minute. Operate on any 78 RPM phonograph or record player. Includes textbook and 5 double-faced 10" discs in album.

29N21895—Shpg. wt. 6 lbs. . . . . **9.80**



## Gardiner Automatic Tape Sender

Model "S", with silent 110 volt AC motor. Variable code speed from 4 to 60 words per minute. Three controls: motor switch, contact switch and speed control. Terminals for oscillator or buzzer. Comes with 10 rolls double perforated tape.

29N14060. . . . . **24.00**

## VIBROPLEX TRANSMITTING KEYS "CHAMPION"

inexpensive, yet exceptional sending qualities assure speed and ease of operation. Single lever, two pairs of contact points (one for dots and one for dashes). Bright finish parts with contrasting black base.

15N14058—Shpg. wt. 4 lbs. . . **9.95**

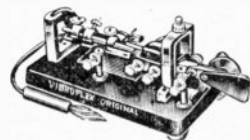
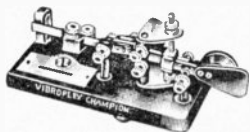
## "ORIGINAL"

For communications work where speed and perfect Morse are essential. Single lever. Two pairs of contact points: one for dots, other for dashes. Unlimited sending possibilities. Polished parts, black base. Complete with cord and wedge.

15N14057—Shpg. wt. 5 lbs. **15.95**

CARRYING CASE for above keys. Plush-lined, black morocco; reinforced corners, lock and key. Size: 6¼x3¼x4¼".

15N14059—Shpg. Wt. 3 lbs. . . . . **5.50**



## SPEED-X KEYS AND CODE SETS



## CODE PRACTICE SET MODEL 450

Constant frequency adjustable buzzer and a standard hand key with ¼" silver contacts, mounted on a brown bakelite base 6" x 4". Uses 2-1½ volt cells (not included). Metal parts plated. Code card included.

15N14027—Shipping weight 2 lbs. . . . . **2.65**  
20N20622—1½ volt cell for above. . . . . 6½¢

## BUZZER WITH BAKELITE BASE AND CAP

Model 400. Operates on 2-1V. cells or "C" battery.

15N14021—Adjustment on vibrator.

Resistance 2 ohms. . . . . **1.18**

20N20622—1½ V. cells 6½¢ 20N19867—"C" Batt. 57¢



## CODE PRACTICE KEYS

Model 300: provided with two adjustments. Has bakelite base, silver contacts, and machined parts.

15N14041—Shpg. wt. 1 lb. **1.03**

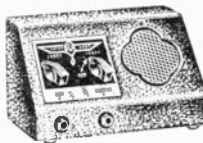


15N14053—Model 305. As above, with metal base. . . . . 1.12

## ICA DELUXE SIGNA-TONE

Audio Oscillator with 3 output frequencies and a continuously variable volume control. A number of phones and keys may be connected for classroom or radio club instruction. Will follow "bug" at all speeds. With tube and self-contained speaker. For 110 V. AC-DC. 7½x4½x4".

Shpg. wt. 4 lbs. **11.76**



## KEY WITH SWITCH

M-100 Telegraph key with switch to close contacts. Lacquered brass base.

15N14017—Wt. 1 lb. . . . . **2.90**

15N14005—Less switch. . . . . 2.69



# Photoflash Power Supplies - Lamps - Capacitors

## CONDENSER PROD.

### HI-VOLTAGE POWER SUPPLY TYPE PS-1

Completely enclosed and sealed-in housing provides safe, trouble-free service. Simple to use—only three terminals to connect. Large porcelain stand-off insulator on high voltage output terminal. Input 117 volt 60-cycle AC. Output will charge capacitors to 2500 volts DC. Maximum load 50 mfd. Size: 4¼x2¼x5¼".

21N1989—Shipping weight 3 lbs. . . . . **11.14**

Type PS-2. High voltage. 117 V. AC, 60 cycles input; 2400 V. DC maximum output. .005 amperes DC maximum. RC filter, 50,000 ohms, 2x. 1 mfd.

21N17260—Shipping Weight 2½ lbs. . . . . **15.14**



## CORNELL-DUBILIER PHOTO FLASH CAPACITORS

Type HKGT. For use in high-speed photographic equipment. Compact and light-weight. Heavy duty internal leads connected to bakelite cup insulated terminals.



Stock No.	C-D No.	Cap. Mfd.	Watt Sec.	Size, Inches L x W x H	Wt. Lbs.	Each
<b>2000 Volt DC Peak</b>						
SN3040	HKGT1A00	15	30	3¼x2¼x4¾	2¼	10.00
SN3041	HKGT1A01	28	50	3¼x4¼x4¾	4¼	11.17
<b>2250 Volt DC Peak</b>						
SN3042	HKGT115	28	71	3¼x4¼x4¾	4¼	18.23
<b>2500 Volt DC Peak</b>						
SN3043	HKGT1A02	15	50	3¼x2¼x6½	3¼	10.00
SN3044	HKGT103	25	80	3¼x4¼x6½	5¼	13.52
SN3045	HKGT104	32	100	3¼x4¼x6½	6	21.56

## AMGLO PHOTOFLASH LAMPS

Light intensity 100 times sunlight, 10,000 flashes per bulb, each 1/10,000 second. High color temperature of 6500° Kelvin with standard circuits. Mounts in standard 4-prong radio tube socket.

Type 5804X—40-150 watt sec. 12 to 18 MFD. 36N10584—Shipping weight 1 lb. . . . . **13.72**

Type 54R4X—60-200 watt sec. 18 to 36 MFD. 36N10585—Shipping weight 1 lb. . . . . **14.70**

Type 48U4X—100-600 watt sec. 50 to 300 MFD. 36N10586—Shipping weight 1 lb. . . . . **16.17**

Type 68N9T—200 watt sec. 100 to 400 MFD. 30N10587—Shipping weight 1 lb. . . . . **14.21**

Type 78M9T—300 watt sec. 100 to 600 MFD. 36N10588—Shipping weight 1 lb. . . . . **13.23**

Type 88M9T—300 watt sec. 100 to 600 MFD. 36N10589—Shipping weight 1 lb. . . . . **12.74**



## MALLORY PHOTOFLASH CONDENSER

FP240. For those photoflash lamps designed to operate in the 900 to 1000 volt range such as GE-FT220 and Amglo 68N9T, 78M9T and 88M9T. Made up of two separate capacitors of 50 mfd each, enclosed in one can. 450 volts DC rating. Two must be connected in series to withstand the 900 volts required for photoflash tube.

SN3046—Shipping Weight ½ lb. . . . . **2.65**

## Thordarson Photoflash Transformers

1. Type 22R42. Designed for use in 117 VAC operated photoflash power packs. Provides 2250 VDC when used with 2X2 rectifier. Application note and circuit diagram of a typical power pack supplied. Shipping weight 3 lbs. **3.88**

6N2140. Type 22R43. Same as above, but for 117 VAC or 4 volt battery-vibrator (180 cycles). Secondary 1100 volt AC at 1.5 ma. Size: 3¼" wide, 2¼" high, 2½" deep, 2¼" mtg. centers. **5.64**

6N2141—Shipping weight 3 lbs. . . . . **5.64**

2. Type 22R44. Supplies the high voltage ionizing pulse necessary to fire high pressure three electrode photoflash tubes. Primary is condenser discharge (.26 to .5 mfd at 200 VDC). Secondary 15,000 volts peak, 2¼" wide, 1½" high, 1½" deep. Single hole mounting. **3.18**

6N2142—Shipping weight ½ lb. . . . . **3.18**

Thordarson Photo-Flash Brochure. Theory, operation and construction of photo flash power packs and ignition circuits. **15¢**

23N19670. . . . . **15¢**



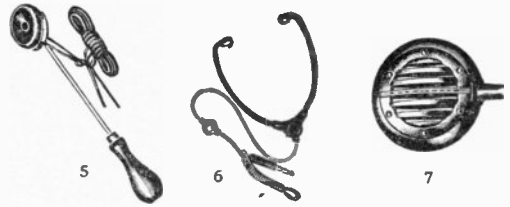
## POTTER-BRUMFIELD PHOTO-FLASH RELAYS

New alloy contacts discharge capacitor through lamp, handle hundreds of amps during flash. 2500 volt insulation.

Stock No.	Mfg. No.	Coil	Contacts	Each
16N14150	FR1A	6VAC	SPST, NO	3.00
16N14151	FR5A	6VAC	SPDT	3.25
16N14152	FR11A	6VAC	DPDT	4.25
16N14153	FR1D	2VDC	SPST, NO	3.00
16N14154	FR5D	2VDC	SPDT	3.25
16N14155	FR11D	2VDC	DPDT	4.25



# HEADPHONES AND ACCESSORIES



## RELIANCE DX TYPE SINGLE & DOUBLE HEADPHONES

1. Powerful bi-polar magnets, featherweight shells, adjustable cloth covered headband.  
 15N13892—2000-Ohm Headset. Each..... **1.42**  
 15N13893—3000-Ohm Headset. Each..... 1.56  
 2. SINGLE UNIT HEADSETS. With clock-steel band attached.  
 15N13896—1000-ohm single set. 4½-ft. cord..... .90¢  
 15N13897—1500-ohm single set. 4½-ft. cord..... .98¢  
 Caps and diaphragms fit all above phones.  
 15N13894—Cap..... 12¢  
 15N13895—Diaphragms..... 5¢

## ACME DE LUXE LIGHTWEIGHT HEADPHONES

1. Chrome steel magnets. Extremely light—weighs only 6 oz. complete with 2 units, 4½-ft. cord, metal headband.  
 15N13904—Double Headset. 2000 ohms DC resistance... **1.48**  
 15N13905—Single Headset. 1000 ohms DC resistance..... 95¢

## BRANDES "ADMIRAL" HEADPHONES

1. Powerful magnets. With 5 ft. cord, adjustable clips.  
 15N13928—2000 ohms..... **2.15**  
 15N13929—3000 ohms..... 2.30  
 15N13930—5000 ohms..... 2.75

## BRANDES "SUPERIOR" HEADPHONES

- Similar to above but with exposed screw terminals.  
 15N13925—2000 ohm Headset..... **1.99**  
 15N13936—Bakelite Cap—fits all models. Each..... 18¢  
 15N13935—Aluminum Cap—fits all models. Each..... 18¢  
 15N13937—Diaphragm only—fits all models. Each..... 5¢

## BRUSH "HUSHATONE"

- 7 Small, streamlined, modern, thoroughly dependable extension loud speaker designed to end "radio irritation" in your home. Provides individual listening choice by merely slipping it under bed or sofa pillows or under the puff of a loose, pillow-back chair. Hushed tone allows listener to enjoy radio without annoying others. Hushatone is made of molded plastic with attractive chromium trim. Compactly styled—measures only 4 3/16" in diameter and 1 1/16" thick. Loudspeaker comes complete with convenient detachable extension cord.  
 15N13911..... **9.55**

## HEARING AID FOR RADIO



New headphone type hearing device in-cases radio enjoyment for persons who find it difficult to hear radio programs properly, also for private listening without disturbing others. Quickly and easily attaches to any radio in 10 or 15 minutes; it can be wired into the set by a maintenance man or yourself, if you're handy with a few simple tools. The headset is supplied with a three-way switch device that permits you to listen with the speaker only, the phones only or both at the same time. Specially constructed low resistance headphone matches voice coil of the speaker.

- 15N13865..... **4.12**  
 15N13866—Same as above, but with single phone..... 3.37  
 15N13867—3-Way Switch Adaptor only..... 1.85

## TELEX TWINSET



Model 3725. An entirely new way to hear with a headset! Never before such comfort, lightness, all-day-long ease of use. Actual sound is piped directly into ear through a slender, tubular sound arm mounted on a locking ball-and-socket joint. Fully adjustable to fit any head shape, any ear size. Plastic ear tips effectively block out background noise. Ruggedly built, chrome-plated receivers are sealed against dust and corrosion. 2-nickel headband encased in Tenite plastic. Excellent sensitivity combined with superb full range high-fidelity makes the Twinset perfect for communications and experimental installations, as well as transcribing, theatre work, etc. Impedance: 1000 ohms. Supplied with single 5-foot Monocord which plugs into one receiver thus avoiding entangling cord.

- 15N13868..... **8.82**  
 Model 3735.—Same as above, but 64 ohm impedance  
 15N13869..... 8.82

## CANNON BALL "CHIEF" ALL BAKELITE PHONES

1. High grade, sensitive phones in molded bakelite housings; leather covered adjustable band; 5-ft. cord.  
 15N13948—2000 ohms imp. Shpg. Wt. 2 lbs. Per set..... **2.50**  
 15N13949—3000 ohms imp. Shpg. Wt. 2 lbs. Per set..... 2.82

## BRUSH CRYSTAL PHONES

3. Range 60 to 10,000 cps. High impedance. Light and comfortable. Padded adj. headband. With 5 ft. cord.  
 15N13924—Crystal phones..... **7.06**

## TRIMM HEADSETS

4. "Dependable" Model: Economy Bakelite set. Chrome-steel magnets.  
 15N13914—2000 ohms..... **2.44**  
 "Professional" Model: As above but 4000 ohms.  
 15N13915..... 2.94  
 "Featherweight" Model: Lightweight. Only 4 oz. Bakelite shell and cap. Forged cobalt-steel magnets. Adjustable steel headband.  
 15N13919—24,000 ohms impedance.  
 15N13918—4,000 ohms impedance. Either type. Ea..... 5.88  
 "Commercial" Model: De Luxe super-sensitive phones. Exceptionally rugged. 3-year guarantee. A favorite of commercial operators.  
 15N13908—17,000 ohms imp. with army navy type plug.  
 15N13939—Same but 600 ohms impedance.  
 Either Type, Each..... 9.41  
 15N13912—Same as 15N13908 but less plug..... 8.53  
 15N13938—Same as 15N13939 but less plug..... 8.53

## BRUSH CRYSTAL SINGLE UNIT HEADSET

2. Metallic headband, rubber end cushion. 5 ft. cord.  
 15N13922—Crystal Single Headset..... **3.79**

## BRUSH CRYSTAL LORGNETTE PHONE SET

5. Single phone—extends 12" to 17". 5 ft. cord.  
 15N13923—With chrome, black enamel handle..... **5.73**

## TELEX MONOSET WITH TENITE TUBES

6. Stethoscope type with replaceable ear pieces to hang above earlobes, instead of being inserted into ears. Lightweight, comfortable—gives excellent fidelity. Operates on 2000 ohms. Thru-line volume control clips to lapel, is easy to handle.  
 15N13890—Telex Monoset less Volume Control..... **7.35**  
 15N13891—Telex Monoset with Volume Control..... 9.70

## TELEX MINIATURE RADIO PILLOW SPEAKERS

- New, improved one-piece speaker designed for comfortable radio listening through a pillow, either in bed or in a chair. Small and compact—may be held comfortably in the palm of the hand. Coil assembly of molded polystyrene bobbin wound with heavy Formex insulated wire—won't short. Fully insulated detachable single jacket cord—5 ft. length. Speaker Dia: 2¼".  
 15N13874—Pillow Speaker: 6 ohms..... **6.44**  
 15N13875—Pillow Speaker: 2000 ohms..... 6.44

## EXTENSION CORD CONNECTOR

- Sturdy molded body with two openings, one at each end, designed for insertion of two pin tips.  
 13N13051..... **10c**

## HEADPHONE CUSHIONS FOR ALL PHONES

- Fits all type of headphones. Made of soft rubber.  
 15N13943—Pair..... 65¢ 10 Pairs for... **5.85**

## PHONE AND SPEAKER CORDS 4½ FT. LONG



- Sturdily made, with cotton-braid insulation. 4½-foot long.  
 15N13955—Double type. 1 end spade tip, other straight. **29c**  
 15N13956—Double type. Pin tips both ends..... 29¢  
 15N13957—Single type. Pin tips both ends..... 23¢

**WE WILL NOT KNOWINGLY BE UNDERSOLD**



# ANTENNAS-MOUNTS-DIALS

## PREMAX MOBILE ANTENNAS & MOUNTS

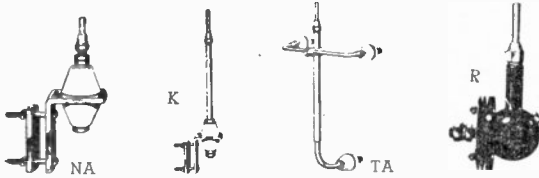
Designed to meet the most rigid transmission and reception requirements for police, fire, municipal, public utility, transportation, commercial, governmental and amateur services. Carefully designed and engineered to withstand the hard usage and trouble free performance these services demand.

### GRADUATED DIAMETER STEEL RODS

Stainless steel rods of varying diameters are joined securely and permanently into a single graduated length which provides high flexibility, minimum wind resistance and long life. "Whip" type with a 1/4-inch, plain base.

28N21845—Model AS-172. 72" long.....	<b>2.65</b>
28N21846—Model AS-178. 78" long.....	2.76
28N21847—Model AS-184. 84" long.....	2.88
28N21848—Model AS-190. 90" long.....	3.00
28N21849—Model AS-196. 96" long.....	3.09

### MOBILE ANTENNA MOUNTS



**Type NA.** Insulated Bumper Mounting. Plates are heavily cadmium-plated steel; white glazed ceramic cones.

28N21811..... **3.53**

**Type K.** Insulated Bumper Mounting. Antenna rod fits into section of heavy brass tubing attached to the insulator and permits 10" adjustment in height of antenna. Nut and compression sleeve lock antenna into place. White glazed ceramic insulator.

28N21812..... **4.12**

**Type TA.** Trunk or Panel Mounting. For Premax Style A or any 1/4" antenna. Fastens to car body or trunk or to any horizontal surface such as a roof. Lower support is solid brass rod joined to a 12" brass tube carrying antenna. Upper support is 24" brass rod adjustable on antenna tube and also in insulator assemblies to fit contour of car. Ceramic cone insulators. Maximum 10" adjustment. Cadmium-plated.

28N21813..... **9.70**

**Type R.** Insulated universal mounting of "split-ball" type. Solid cast bronze, which bolts directly to car panel or other surface through heavy plastic disc insulation with water-proof gasket and steel back-plate. Baked black enamel finish. Fits style A or any 1/4" antenna.

28N21814..... **6.76**

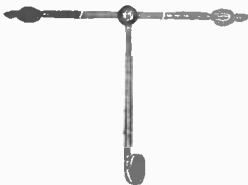
### 2-METER BEAM ANTENNA



Model 200-EA. Designed especially for use on 2 Meter amateur band. Unit is a hi-gain, broad band parasitic array. Precut for the middle of the 144 to 148 MC band. Uses a folded di-pole driven element with three directors and one reflector. Directors spaced .1 wavelength, reflector spaced .15 wavelength. Furnished with standard Elincor swivel bracket, can be mounted either in the vertical or horizontal plane. Designed to be fed with RG8/U 52-ohm coaxial cable. Boom is 1" aluminum tubing, all elements are 3/8". Complete with hardware and instructions.

28N21977—Shipping weight 3 lbs..... **8.23**

### AMATEUR FOLDED DI-POLE ANTENNAS

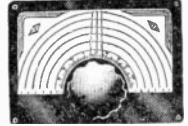


Easily carried, flexible antennas for transmitting and receiving on amateur bands. Exact frequency for flat line operation. Instructions included for cutting to any desired intermediate frequency. Has substantial gain as long wire radiator. Supplied complete with 75 feet of lead-in cable and two sturdy strain insulators.

Stock No.	Di-pole Length	Band	Application	Each
28N21960	137 ft.	80-meter	Use on all bands	8.08
28N21961	66.2 ft.	40-meter	Use on 40M, 20M and 10M	5.85
28N21962	33 ft.	20-meter	For low power DX	4.38
28N21963	17.1 ft.	10- and 11-meter	Broadband for shifting frequency to avoid QRM	3.50

### NATIONAL TYPE "ACN" DIAL

Designed for E. C. oscillator or U.H.F. receiver. 5-range scale for hand calibration, 0-100 linear scale as guide. 2 extra scales, lucite dial and pointer. 5:1 vernier, 1/4" shafts. Frame: 5"x7 1/4".



11N14474—Weight 1 lb..... **3.30**

"SCN" Dial. Same as above but smaller. 4 1/16"x6 1/4".

11N14473—Shpg. weight 1 lb..... 3.00

### NATIONAL TYPE "ICN" ILLUMINATED DIAL

2 dial lights provide illumination on all bands. Dial window blanked out in semi-circular shape to prevent shadow casting. Scales same as ACN. 5 1/8" x 7 1/4".

11N14477—Weight 2 lbs..... **6.00**

### NATIONAL "MCN" SMALL SCALE DIAL

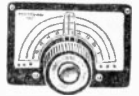
Ideal for mobile installations, small converters, tuners, and 3 1/2" rack panel mounting. Provides three calibrating scales and a 0-100 logging scale. Mechanism extends 1/4" below the dial frame. Size: 2 3/4" x 3 3/8".

11N14478—Shpg. wt. 1 lb..... **2.70**

### MILLEN 10039 PANEL DIAL

Compact panel dial with completely self-contained operating mechanism to eliminate back of panel interference. Ratio 8 to 1. Extremely compact for easy mounting. Features include finger-tip knob, 0-100 logging scale plus 5 blank scales. Handsome black art metal finish. 4x3 1/4".

11N8080—Shpg. wt. 1 lb..... **2.70**



### NATIONAL "B" VERNIER DIAL

Ratio variable from 6:1 to 20:1. Black Bakelite shell. 4" diameter.

11N14367—Clock 200-0 in 360°. } Each

11N14368—0-100-0; 180°. } **2.70**

Type "BM"—Without variable ratio. 3" dia. } Each

11N14371—0-100-0; 180°. } **2.10**

11N14372—Clock, 200-0; 360°. } **2.10**



### ICA MINIATURE DIALS

Chrome silver dials with black etched numerals. Equipped with finger-tip black knob. Only 1 1/8" in diameter. Fits 1/4" shafts. Ranges from 1-10 over 180 and 270°.

11N14234—0-10. 180°..... **50c**

11N14235—0-10. 270°..... 50c



### PRECISION VERNIER DIALS

Have etched calibrations graduated from zero to 100. Large flanged knob has bushing for 1/4" knob-shafts. Shpg. wt. 1 lb.

11N14236—4" Dia. 325° Rot..... **1.62**

11N14237—2 3/4" Dia. 325° Rot..... 1.23

11N14238—4" Dia. 180° Rot..... 1.62

11N14239—2 3/4" Dia. 180° Rot..... 1.23



### NATIONAL R & O DIALS

**Type O**—3 1/2" Dial. Nickel silver. Marked 0-100. 180° counter-clockwise. Large easy-to-grip central knob. For 1/4" shaft.

11N14567..... **1.00**

**Type R**—1 1/8" Dial. Etched nickel silver. 180°. Marked 0-10. 1/4" shaft.

11N14568..... 60c



### ICA CHROME DIAL PLATES

Black Etcho-Engraving on Chrome Silver Background. Grain satin finish. Calibrations 0-100.

11N14184 180° 2" Dia. 43c

11N14191 325° 2" Dia. 43c

11N14192 180° 3 1/2" Dia. 67c

11N14193 325° 3 1/2" Dia. 67c

11N14194 180° 4" Dia. 76c

11N14195 325° 4" Dia. 76c



### ETCHED METAL DIAL PLATES

Black dial plates, calibrated 0-10 in 300°. 2 1/4 x 1 1/8", with 4 mtg. holes. Specify Marking: Plain, Tone, Record, Gain, Mike.

11N9904—Each..... **15c**



### MILLEN PANEL TRANSFERS

1/3" Block letters for all rigs.

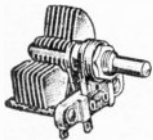
11N8012—Black on White..... 1.25

11N8013—White on Black..... 1.25



# TRANSMITTING VARIABLE CONDENSERS—CRYSTALS

## BUD MIDGET CONDENSERS



Small and sturdy with high mechanical and electrical efficiency. Insulation used is Steatite. Rotor and Stator plates are brass and are electro-soldered to their respective rods. All metal parts are cadmium plated.

parts are cadmium plated. Both front and rear bearings, with either mid-line type plates (straight line wave length), or semi-circular plates (straight line capacity).

### Semi-Circular Type—Double Bearing MMFD

Stock No.	Type	Max.	Min.	Gap	Each
11N10827	MC1861	15	4	.060"	1.31
11N10828	MC1862	35	5	.060"	1.71
11N10829	MC1863	50	7	.060"	1.89
11N10830	MC1864	75	9	.060"	2.20
11N10831	MC1865	100	12	.060"	2.60

### Two-Gang Variables

Capacities shown are per section.

Stock No.	Type	Max.	Min.	Gap	Each
11N10834	MC1882A	100	7	.024"	2.84
11N10832	MC1884A	20	4	.060"	2.69
11N10833	MC1885A	35	5	.060"	2.89

## HEAT RADIATING GRID AND PLATE CAPS

Use at terminals of transmitting tubes. Protects glass.

- 36N14377—For HK-24..... **35c**
- 36N14378—For 35-T, HK-54..... **35c**
- 36N14381—For 100-T, 807..... **49c**
- 36N14388—For 866, T-125..... **59c**

## MILLEN PLATE CAPS

Steatite covered cap, for transmitting tubes.

- Type 36001,  $\frac{3}{16}$ " for 866, etc. **21c**
- 29N8055
- Type 36002,  $\frac{3}{8}$ " for 807, etc. **21c**
- 29N8056
- Type 36011. Extra tight. Snap action top button to grip release. **21c**
- 29N8052— $\frac{9}{16}$ " dia..... **60c**

## NATIONAL GRID CLIPS

Easily removed. Tinned grip end for soldering. For transmitting tubes, 866, T20, 809, 812, etc.  $\frac{9}{16}$ " diameter.

- 29N14441..... **6c**
- Ceramic safety grip  $\frac{9}{16}$ " diameter for 866, T20, 809, 812, etc. **21c**
- 29N14598..... **21c**
- 29N14599—Ceramic as above but  $\frac{3}{8}$ " for 807, etc. **21c**

## BLILEY CRYSTALS



CF3 single signal filter crystal for IF filter. Frequency 455 kc.  $\pm$  5 kc. free of spurious responses  $\pm$  7 kc. **5.00**

SMC 100 dual frequency crystal provides either 100 kc. or 1000 kc. source. 1000 kc.  $\pm$  .05%. 100 kc. can be adjusted to zero beat. For alignment of receivers. **8.75**

## TYPE AX2 FOR AMATEUR USE

29N13849—160 Meter  $\pm$  1 KC specified frequency. 3.75  
29N13851—80 Meter  $\pm$  2KC specified freq. **2.80**  
29N13850 40 Meter  $\pm$  2KC specified freq. **2.80**  
29N13852—20 Meter  $\pm$  30 KC specified freq. **3.95**

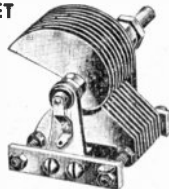
## CRYSTAL SOCKETS

- Millen 33002.  $\frac{3}{4}$ " spacing, .125" pins. Steatite insulation. **30c**
- 29N8050
- Millen 33102. .487" spacing, .095 pins. **30c**
- 29N8057
- Millen 33202.  $\frac{1}{2}$ " spacing, .125" pins. Steatite insulation. **30c**
- 29N8051
- Amphenol 54-2 Polystyrene.  $\frac{3}{4}$ " spacing, .125" pins. **22c**
- 29N8062

## CRYSTAL HOLDER ADAPTORS

- Mosley 5-75 adapts  $\frac{1}{2}$ " spaced holder to  $\frac{3}{4}$ " spacing. **34c**
- 29N8054
- Mosley 75-5 adapts  $\frac{3}{4}$ " spaced holder to socket with  $\frac{1}{2}$ " spacing or to octal socket. **34c**
- 29N8059

## NATIONAL MIDGET CONDENSERS



- A. "ST" types 180° straight-line wave-length plates.
- B. "SE" types 270° rotation straight-line frequency plates.  $\frac{1}{4}$ " shafts.

Stock No.	Type	Mmfd.	Plates	Each
11N14300	STHS15	15	3	1.65
11N14299	ST35	35	9	1.85
11N14291	ST50	50	11	1.90
11N14293	ST100	100	20	2.10
11N14295	ST140	140	27	2.30
11N14294	ST150	150	29	2.30
11N14296	STH250	250	32	2.70
11N14303	ST D-50	50-50	11-11	2.30
11N14280	SE-50	50	11	2.30
11N14282	SE-100	100	20	2.60
11N14287	SEH335	335	43	3.50

## BUD TINY-MITE CONDENSERS

Designed for u.h.f. circuits. Extremely compact. Have rigid construction, close fitting bearings, Steatite insulation. Soldered brass plates are bright cadmium plated. 3-way mounting. Shaft on single units permits ganging. Panel space  $1\frac{1}{2} \times 1\frac{1}{4}$ ".

### SINGLE-GANG CONDENSERS

Stock No.	Mmfd.	Plates	Each
11N9539	3-15	5	1.13
11N9540	4-25	9	1.18
11N9541	5-35	13	1.32
11N9542	6-50	19	1.42
11N9543	9-100	37	1.69
11N9545*	4-10	7	1.16
11N9546*	5-15	11	1.25
11N9547*	5.5-25	17	1.47
11N9548*	6-35	21	1.62

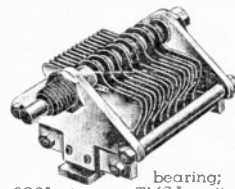
### 2-GANG CONDENSERS

Capacities are per section.

Stock No.	Mmfd.	Plates	Each
11N9512	3-15	5	2.30
11N9513	4-25	9	2.55
11N9514	6-50	19	2.67
11N9515	9-100	37	2.89
11N9516*	4-10	7	2.20
11N9517*	5-15	11	2.45
11N9518*	5.5-25	17	2.60
11N9519*	6-35	21	2.84

\* Double spaced.

## NATIONAL LOW POWER UNITS



"TMS" Aluminum plates and frames; Isolantite insulation;  $\frac{1}{4}$ " shafts,  $1\frac{1}{2}$ " long; both panel mounting and 2-hole base mounting; adjustable rear bearing; TMS units have .026" air gap, TMSA units, .065";  $1\frac{3}{4} \times 2\frac{1}{2} \times 2\frac{3}{4}$ ". All 100C Peck Volts, except 11N14555 and 11N14556 are 2000 Peak Volts.

Stock No.	Nat'l. No. and Cap.	No. of Plates	Each
11N14550	TMS-100	9	2.60
11N14551	TMS-150	14	2.80
11N14552	TMS-250	22	3.30
11N14553	TMS-50D*	5-5	4.40
11N14554	TMS-100D*	9-9	3.20
11N14549	TMS-300	27	3.80
11N14555	TMSA-35	7	3.90
11N14556	TMSA-50	11	4.40

\* Split stator models.

## NATIONAL NEUTRALIZING CONDENSERS

NC600. For use with 6L6s and similar output tubes. Thumb screw adjustment for varying capacity .5 to 4 mmfd. Isolantite insulation. NC800A. High voltage disc type for RCA 800, 35T, HK54, etc. Screw adjustment; 3-hole mounting.

STN. For 10, 45, 47, etc. 3000 VP; 18 mmfd.

Stock No.	Type	Application	Each
11N14252	NC600	For 6L6s, etc.	.32
11N14259	NC800A	For 800, etc.	3.00
11N14476	STN	For 10, 45, etc.	2.07

## BUD SINGLE BEARING MIDGET CONDENSERS



Constructed identical to Midget Condensers with the exception that these condensers have a front bearing only. .024" air gap.

### Semi-Circular Type—Single Bearing

Stock No.	Type	MMFD.	No. of Plates	Each
11N10835	MC-1870	15	3	3.88
11N10836	MC-1872	33	4	5.98
11N10837	MC-1873	50	5	7.108
11N10838	MC-1875	100	7	14.123
11N10839	MC-1876	140	8	19.137

## NATIONAL SHAFT COUPLINGS



- All take  $\frac{1}{4}$ " shafts.
- 11N8461—TX-8. Isolantite insulation. **60c**
- 11N8470—TX-9. Steatite insulation. **75c**
- 11N8471—TX-10. Phenolic insulation. **40c**

## NATIONAL FLEXIBLE SHAFT COUPLINGS



- 11N14530—TX-12. 4% **90c**
- 11N14529—TX-13. 7% **1.05**
- 11N14531—TX-11. Without isolantite insulation 4% **.42c**
- SOLID Isolantite couplings:
- 11N14501—TX-1.  $1\frac{3}{4}$ " **.65c**
- 11N14502—TX-2.  $3\frac{1}{4}$ " **.75c**

- Flexible Coupler for  $\frac{1}{4}$ " shafts or for extending a shaft at an offset angle. Insulated. **30c**
- 11N9751—Bakelite.
- 11N9750—Ceramic. **38c**

## TEKNI-CALS DECAL LABELS

- Provides the custom-set builder, the amateur, the manufacturer, and the experimenter with an ideal assortment of decal labels. Each set contains a wide variety of markings with ample duplicates. May be cut off, combined, or rearranged. Tekni-Cals are easy to apply, handsomely made and give long, satisfactory service.
- 11N19885—Television Markings. Set of over 1,000. **1.32**
- 11N19888—Audio Markings. Set of over 1,000.
- 11N19889—Dial Markings. Set of over 50.
- 11N19890—Transmitter Markings. Set of over 1,000.
- 11N19891—Receiver Markings. Set of over 1,000.
- Any Set Above, Each.





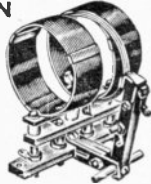
# HAM COILS & CHOKES

## BARKER AND WILLIAMSON

Type A



Type B



### JUNIOR AND TYPE B INDUCTORS

**Type A.** Juniors for powers up to 75 watts input with plate voltages up to 850. Fitted with standard 5-prong seatite base. Dimensions:  $3\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{4}$ .

**Type B** for powers up to 150 watts input with plate voltages up to 1500. Seatite base and plug-in jack mounting. Overall dimensions:  $3\frac{1}{2} \times 2\frac{3}{4} \times 4$ . Capacities shown (in mmf) to resonate the L.F. end of the band can actually be 5 to 20 mmf less because of tube and wiring capacities.

JUNIORS				TYPE B			
Band	Cap. Mmf.	Stock No.	Each	Cap. Mmf.	Stock No.	Each	

#### END LINKED

JEL				BEL			
6	15	12N10460	1.38	14	12N10479	2.41	
10	22	12N10461	1.38	21	12N10480	2.41	
20	34	12N10463	1.38	33	12N10482	2.48	
40	47	12N10464	1.38	36	12N10483	2.83	
80	60	12N10465	1.38	36	12N10484	3.16	
160	105	12N10435	1.38	105	12N10438	3.44	

#### CENTER LINKED

JCL				BCL			
6	15	12N10466	1.38	14	12N10485*	2.41	
10	16	12N10467	1.38	20	12N10486*	2.41	
20	16	12N10469	1.38	34	12N10483*	2.48	
40	33	12N10470	1.38	37	12N10489*	2.83	
80	53	12N10471	1.38	39	12N10490*	3.16	
160	100	12N10436	1.38	120	12N10440	3.44	

#### VARIABLE LINK

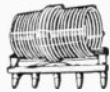
JVL				BVL			
6	15	12N10472	1.38	15	12N10491*	1.93	
10	22	12N10473	1.38	14	12N10492*	1.93	
20	21	12N10476	1.38	25	12N10494*	2.00	
40	31	12N10477	1.38	29	12N10495*	2.28	
80	46	12N10478	1.38	46	12N10496*	2.61	
160	95	12N10437	1.38	110	12N10444	2.88	

\* With center tap.

Seatite Jack Bar Assembly for end or center link Type B inductors (former type A56).

12N10497..... **85c**

Jack Bar and Swinging Link for variable link Type B inductors. 12N10498..... **3.44**



### B & W TYPES T AND HD

**Type T:** Up to 500 watts input. Link for variable center-linked models hinged on jack base—same link for plug-in coils on all bands. Matches load imp. of 72 ohms. Mtg.  $7\frac{1}{2} \times 6\frac{1}{4} \times 5\frac{1}{2}$ .

**Type HD:** Heavy duty, up to 1000 watts input. Similar to type T. Heavy seatite plug bar and jumbo banana plugs. Both types center tapped. Mtg. space  $11 \times 9 \times 7$ . Capacities: Can be 5 to 20 mmf less than shown, because of tube and wiring capacities.

TYPE T				TYPE HD			
Band	Cap. Mmf.	Stock No.	Cost Each	Cap. Mmf.	Stock No.	Cost Each	

#### CENTER LINKED

TCL				HDCL			
10	19	12N10499	2.89	20	12N10511	5.85	
20	21	12N10501	2.96	20	12N10513	6.54	
40	34	12N10502	3.30	20	12N10514	6.88	
80	55	12N10503	3.65	34	12N10515	7.56	
160	100	12N10445	3.93	105	12N10447	8.60	

#### VARIABLE LINK

TVL				HDVL			
10	17	12N10504	2.20	16	12N10516	4.48	
20	22	12N10506	2.28	18	12N10518	5.16	
40	29	12N10507	2.61	33	12N10519	5.50	
80	39	12N10508	2.96	41	12N10520	6.19	
160	85	12N10446	3.10	90	12N10448	7.23	

Seatite Jack Bar Assembly for center link Type T inductors (old type A54).

12N10509..... **1.25**

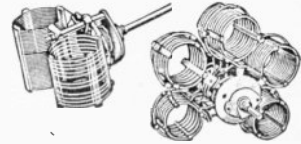
Base Assembly and Swinging Link for variable-link Type T Inductors. 12N10510..... **5.50**

Jack Bar Assembly for center link Type HD Inductors. 12N10521..... **1.75**

Base Assembly and Swinging Link for variable-link Type HD Inductors. 12N10522..... **6.88**

## BARKER & WILLIAMSON TURRETS

Fast, positive bandswitching for amateur rigs. Shorts unused coils, eliminates absorption effects. Cover 80, 40, 20, 15, 10 meter bands by shaft rotation.  $\frac{3}{8}$ " mtg. hole.



### BAND HOPPERS

For up to 75-watts. Uses same coil design as Juniors. Tunes with 50 mmf variable capacitor. For interstage coupling between 2 beam-power tubes or beam-power tubes and triodes. 12N10523—Type 2A. Mtg. space  $3\frac{1}{2} \times 2$ ". Depth 3"..... **4.81**

### 75 AND 150 WATT TURRETS

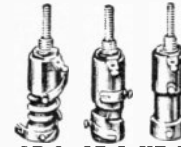
75-watt for link coupling single-ended or push-pull low-power stages with tubes at voltages up to 850. 6 $\frac{1}{2}$ " dia. 4" deep. 150 watt for single; double-ended circuits, voltages to 1000. } Each  
 12N10524—75-watt JTCL, center linked, center tapped.... } **9.38**  
 12N10525—75-watt JTEL, end linked, untapped..... }  
 12N10526—150-watt BCL, center linked center tapped, Each... } **11.69**  
 12N10527—150-watt BEL, end linked, untapped, Each..... } **11.69**

### TURRET DIAL PLATES

Sturdy aluminum with baked enamel finish. 2 $\frac{1}{4}$ " dia. For use with turrets and band hoppers listed above. 12N10449..... **25c**

### JOHNSON SPRING CLIP FOR INDUCTOR COILS

Takes No. 20 to No. 10 wire. Lock screw adjustment. 12N16749—Spring Clip. Each..... **9c**



### NATIONAL HI-FREQUENCY COILS

High Q permeability tuned RF coils, tune with capacities from 100 to 10 mmfd. Inductive winding replaceable. 12N14382—AR-2. 75 MC to 220 MC... **1.70**  
 12N14383—AR-5. 37 MC to 110 MC... **1.48**  
 Hi-Frequency Coil Form. Winding length  $\frac{1}{4}$ " dia.  $\frac{1}{2}$ ". Iron slug  $\frac{3}{8} \times \frac{1}{2}$ ". 12N14384—XR-50..... **90c**

### RELIANCE RF CHOKES

4 ple-wound sec. on Isolantite form. 12N10106—2.5 ohm; 150 ma. 50 ohms. **22c**  
 12N10109—2.1 ohm; 250 ma. HD type..... **25c**



### PARASITIC SUPPRESSOR

Non-inductive 50 ohm resistor with choke of 0.3 mh., .003 ohms DC. 12N10021—Each..... **1.15**

### OHMITE POWER LINE CHOKES

Stock No.	M.H. Tot.	Ohms.		Core Dim.	Cost Ea.
		A	D.C.		
12N10017	14	5	.15	4x $\frac{1}{2}$ "	1.26
12N10018	15	10	.07	6 $\frac{1}{2}$ x $\frac{3}{4}$ "	2.11



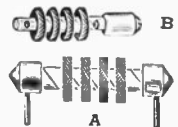
### BUD HF AND UHF R.F. CHOKES

12N10108—Fig. 1. 5.7 mh, 750 ma. 1.4 ohms DC... **21c**  
 12N10124—Fig. 2. 2.5 mh, 250 ma. 16 ohms DC.... **65c**



### NATIONAL CHOKES

12N14429—R100—2 $\frac{1}{2}$  mh, 50 ohms DC res. 125 ma. wire leads (A)..... **35c**  
 12N14421—R100U—As above, chas. mtg. (B)..... **42c**  
 12N14422—R300—1 mh, 10 ohms DC res. 300 ma. wire leads (A)..... **38c**  
 12N14423—R300U—As above, chas. mtg. (B)..... **42c**



### MILLEN HASH FILTERS

Eliminates interference from mercury vapor rectifiers. Type A for 82 or 83 tubes; Type B for 866's. Connect in plate leads, close to tube. 12N8060—Type A..... **1.00**  
 12N8061—Type B, Per Pair..... **1.25**

### OHMITE RF PLATE CHOKES

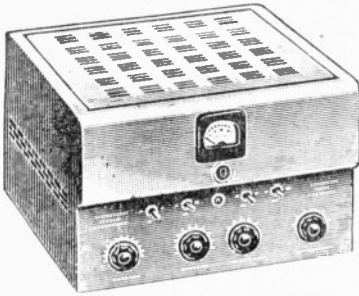
Single layer wound on low power factor seatite or plastic core. Non-magnetic mtg. brackets with Z-7.

Stock No.	Mod.	Range	M.H.	Dimen.	Cost
12N10084	Z-460	320 to 520 MC	0.20	$\frac{1}{2} \times \frac{1}{2}$ "	19c
12N10087	Z-235	160 to 350 MC	0.84	$\frac{3}{4} \times \frac{1}{2}$ "	19c
12N10086	Z-144	80 to 200 MC	1.8	$\frac{3}{4} \times \frac{1}{2}$ "	19c
12N10087	Z-50	35 to 110 MC	7.0	$\frac{1}{2} \times \frac{1}{2}$ "	19c
12N10092	Z-28	20 to 60 MC	21.0	$1\frac{3}{4} \times \frac{1}{2}$ "	25c
12N10093	Z-14	7 to 35 MC	44.0	$2 \times \frac{1}{2}$ "	40c
12N10094	Z-7	3 to 20 MC	84.0	$6 \times \frac{1}{2}$ "	92c



# LATEST LOW-COST HAM EQUIPMENT

## STANCOR 125-WATT TRANSMITTER KIT



Model ST-202-A. Build your own compact desk type transmitter to cover the 80, 40, 20, 15, 11 and 10-meter bands. Crystal controlled CW, AM and FM modulator units easily added if desired. Cabinet has built-in chassis, marked panel and bottom plate, plus all circuit and construction components, and instruction manual. The only extras needed are milliammeter, five tubes, crystals and set of 150 watt B & W standard PA tank-coils.

Simplified band-switching exciter circuit. Has adjustable link coil antenna coupling. Simultaneous screen keying of both exciter tubes. Break-in operation. Uses 6V6, 6L6, 5R4GY, 5Y3G7. For PA you can use a 35T, 35TG, HK54, 5514, 811 or 812 (wide range neutralizer provided). Terminals provided at rear of cabinet for key, antenna feed line, AM modulator and remote standby switch. Gray wrinkle finish case measures 14-1/16x9x13-3/16".

29N21020—Shipping Weight: 55 lbs..... **92.80**

## STANCOR MOBILE TRANSMITTER KIT



Model ST-203A. 25 watts plate power input. For mobile and fixed location phone, "Press-to-talk" operation. Covers 27 to 32 MC band. Tubes used: 6V6 harmonic oscillator working from 7 MC crystals, 2E26 Class C amplifier, 6J5 grounded-grid speech amplifier, 6V6's push-pull Class A modulator. Accessories needed: Tubes, crystals, single button mike with push-to-talk switch, dynamotor or vibrator pack to deliver 400-500 V. DC at 160-200 MA, 6.3 volts AC/DC at 2.8 amps, quarter wave whip antenna system and remote control components (SPST switch, mike jack, cables, etc.). Case measures 8-5/8x7-3/8x6-3/4". Supplied with punched chassis, transformers, coils, sockets, switches, metal cover and mounting base. Instructions included. Shipping Weight: 11 lbs.

29N21024—Transmitter Kit only, not wired..... **44.70**

29N21034—As above, wired and assembled..... **58.90**

## SPERTI TWO-WAY HAND TRANSCIVER



New, exclusive design stable oscillator and receiver. Covers 144-148 MC (2-meter band). Ideal for transmitter hunts, emergency work, boating, flying or racing. Maximum performance has been packed into the smallest possible size and weight. Push-to-talk switch. Frequency is set at the factory and will stay in band unless tampered with. Slide-rule dial can be locked. Folding dipole antenna. Case measures 10x3x2". Shpg. Wt: 5 lbs.

29N22450—Per unit, less batteries **33.81**

20N20627—(2) "B" Batt. for above. Ea. 1.74

20N20622—"A" Batt. (2 required) Ea... 6½¢

## HARVEY WELLS 50-WATT PHONE & CW TRANSMITTER

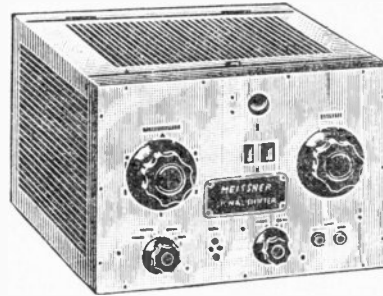


No plug-in coils! Covers 8 bands from 80 to 2 meters at the flick of a switch. Crystal controlled on all bands. No oscillator or multiplier tuning necessary except to resonate the antenna. For fixed station or mobile operation from AC, Vibrapack or dynamotor. Use as exciter when increasing output. Includes the following tubes: 6AQ5 crystal oscillator, 6AQ5 buffer-multiplier, 807 final amplifier, (2) 6L6 Class B modulators. Controls include: band switch, excitation, antenna loading, amplifier tuning, power-on, carrier-on, meter switch and phone-CW switch. Dimensions: 12½x7½x9". Shipping Weight: 20 lbs.

20N21038—With Tubes..... **99.50**

30N21039—Power supp. for above. 39.50

## MEISSNER SIGNAL SHIFTER KIT



Amateurs, save money! Build this newly designed precision signal shifter. Features built-in 10, 11, 15, 20, 40 and 80 meter turret mounted coils; 6-position band switch, no coils to change. ECO or crystal 6V6 oscillator, 807 doubler amplifier. Eye tube key and tuning indicator. Factory assembled shielded turret unit. Voltage regulation. Built-in

power supply uses VR150, VR75, (2) 5Y3 and delivers 6 watts output. Vernier dials. With instructions, tubes and all necessary parts including solder and wire. Over-all dimensions: 13-13/16x13-1/4x8-3/4". Shpg. Wt: 23 lbs.

29N21042..... **64.75**

Model EX. As above but all wired ready for use.

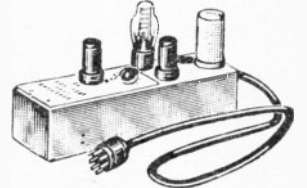
29N21044—Shipping Weight: 23 lbs..... **99.50**

29N10394—6-meter coil strip for above kit..... **4.00**

29N10384—160-meter coil strip for above kit..... **4.00**

## MEISSNER FMX PHASE MODULATOR

Designed exclusively for use with Model EX signal shifter. Combination of two gives amateur a complete low power phone and CW transmitter at a low price. Deviation control of modulator allows a swing of 5 to 10 KC at 28 MC. Input for high impedance crystal or dynamic mike is provided. Any Class C amplifier the signal shifter can drive becomes a phase modulated amplifier. Fits in place of power supply. Plate and filament voltages are secured from signal shifter power supply. Tubes required: 6SL7, 6SG7 and VR-150.



29N21099—Shipping Weight: 4 lbs. Less tubes..... **12.00**

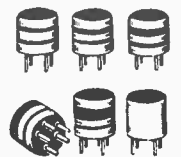
## SILVER ABSORPTION WAVEMETER

Model 903. 1600 KC to 500 MC. Low-loss tuning capacitor, inductor socket, resonance-indicating lamp. Wide frequency—two tuned circuits. On six ranges inductor is paralleled with capacitor, seventh (400-500 MC) is quarter-wave transmission line with series tuning (no lamp coil). Size: 3½x3½x3¼". Less inductors.

29N21291—Shpg. Wt: 1 lb..... **3.30**

Plug-In Inductors—Each 65¢

MC	MC
29N21292...1.6-3.7	29N21296... 40-100
29N21293... 3.5-8	29N21297...100-300
29N21294... 8-15	29N21298...400-500
29N21295.....17-40 MC	



## SILVER FIELD STRENGTH METER

Model 903A. Converts the Model 903 Absorption Wavemeter described above to a field strength meter by adding a 1N34 rectifier, 0-1 milliammeter sensitivity control and phone jack to the unit. Shpg. Wt: 2 lbs.

29N21290..... **14.50**



## SIMPSON MODEL 240 HAMMETER VOM



Complete, wide range AC-DC VOM to check high voltages and components of transmitters and receivers. No external multipliers needed. Sensitivity: 1000 ohms/volt. Rugged, accurate 3" meter. Ranges: 0-15/150/750/3000 AC volts; 0-15/75/300/750/3000 DC volts; 0-15/150/750 DC MA; 0-3000/300,000 ohms. Size: 3x5-7/8x2-1/2". Shipping Weight: 3 lbs. Supplied with, test leads and attached alligator clips.

29N21579..... **24.11**





# hallicrafters AMATEUR RECEIVERS

## SX-42 HI-FI FM-AM RECEIVER

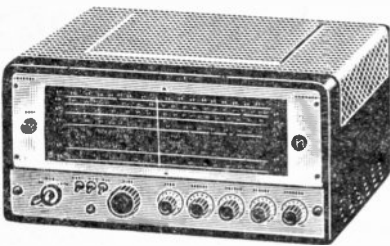


This model combines in one superbly engineered unit, a top-flight standard and VHF communications receiver covering all frequencies from 540 KC to 110 MC. The tremendous frequency range is made possible by "split-stator" tuning system and the use of dual IF transformers. A discriminator and two limiter stages are available on bands 5 and 6 (27 to 110 MC) to permit reception of FM signals. True high fidelity is assured by the powerful 8-watt audio system with flat response from 50 to 15,000 cycles. Controls are arranged for maximum convenience and simplicity of operation. Freedom from drift and maximum stability are provided by temperature compensation and the use of Type VH-150 voltage regulator. Crystal filter circuit combined with variable IF channel width offers six point selectivity on four lower bands. Band-spread dial calibrated for 3.5, 7, 14 and 28 MC bands plus logging scale. Crystal phasing, CW pitch, sensitivity, four-position tone control for low, medium, HI-FI and bass are all conveniently located on the front panel. External connections include 500 and 5000-ohm speaker outputs, phone jack, phono input jack, socket for external power, doublet and single wire antenna and remote control connections. Red dot markings for broadcast reception and green for FM reception, simplify operation for general use. Tubes: (2) 6AG5, 7F8, 6SK7, 6SG7, (2) 7H7, 6H6, 7A4, 6H6, 6SL7, (2) 6V6, VR-150, 5U4G rectifier.

Attractive, modern styled cabinet harmonizes with the most luxurious surroundings. Finished in a rich, deep gray with satin chrome trim. Top opens on piano hinge for easy accessibility to tubes and chassis. Dimensions: 20 x 10 1/4 x 16" deep. Shipping Weight 71 lbs. Complete with tubes. For 105-125 volts, 50/60 cycles AC.

30N21070—Model SX-42, Less Speaker and Adjustable Base.....Net.. **275.00**  
30N21069—Model SX-42U. As above but 115-250 v., 25-60 cyc.....287.50

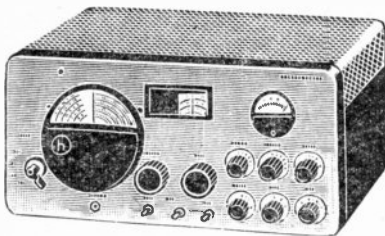
## SX-62 FM-AM "SWL" RECEIVER



Outperforms any ordinary broadcast receiver on any frequency—standard broadcast, short-wave or FM. It represents an outstanding achievement in all-wave receiver engineering. Simplicity of operation combined with superb reception never before found in this type of equipment. A single tuning control covers the wide-visibility dial. Only one band lights up at a time. In addition, a 500 KC crystal calibration oscillator is built in enabling you to adjust the dial pointer for pin-point accuracy. The SX-62 gives you continuous coverage from 540 KC to 109 MC on 6 bands. Push-pull output delivers a full 10 watts of audio power, flat from 50-15,000 cycles. A bass-boost circuit and 4-position tone control permit enough variation of tone to please the most critical listener. Two IF and two tuned RF stages assure maximum sensitivity and improved signal-to-noise ratio on VHF. A 6-position selectivity switch with crystal filter operates on frequencies between 540 KC and 30 MC. Other features include separate RF and AF gain controls, temperature compensated and voltage regulated oscillator, 500 and 5000-ohm outputs, 300-ohm antenna input and a special socket for external power. Piano hinged, gray steel cabinet with satin chrome trim measures 20 x 10 1/4 x 16" deep. Shipping weight 70 lbs. Tubes: (2) 6AG5, 7F8, 6SK7, (2) 7H7, 6SG7, (2) 6H6, 7A4, 6SL7, (2) 6V6, 6C4, VR-150, 5U4G rectifier. For 105-125 volts, 50/60 cycles AC.

30N21079—Model SX-62. With Tubes, but less speaker..... Net.. **269.50**  
Model SX-62U. Same as above except for 110/220 volts, 25/60 cycles AC.  
30N21105.....NET.....282.00

## SX-43 FM-AM SHORTWAVE RECEIVER

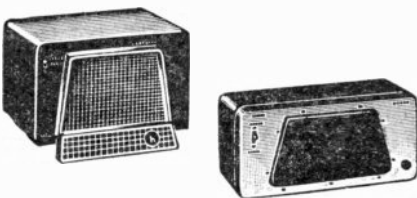


Here is all you would expect from a truly fine communications receiver plus extra coverage to include the 6-meter and FM broadcast bands. Offers continuous coverage from 540 KC to 55 MC with an additional band from 86 to 109 MC. One tuned RF stage and 7F8 dual triode converter assure an exceptionally good signal-to-noise ratio. Dual IF transformers provide a 455 KC IF channel for operating frequencies below 44 MC, and a 10.7 MC IF channel for the VHF bands. Audio response to 10,000 cycles. Switching of IF frequencies is automatic. Separate electrical bandspeed dial is accurately calibrated for the amateur 3.5, 7, 14, 28 MC bands. Other important performance features include temperature compensation for freedom from drift, series type noise limiter, permeability-adjusted inductances in the RF circuits, separate RF and AF gain controls, and adjustment on rear for "S" meter. Speaker output is tapped for 500 and 5000 ohms. Uses the following tubes: 6BA6, 7F8, 6SG7, (2) 6SH7, 6H6, 6AL5, 6J5, 6SQ7, 6V6, 5Y3GT rectifier. Handsome gray steel cabinet with satin chrome trim and piano hinge top, fits into any surroundings. Dimensions: 18 1/2 x 8 7/8 x 12" deep. Shipping weight 44 lbs. For 105-125 volts, 50/60 cycles AC.

30N21064—Model SX-43. With Tubes, but less speaker.....NET..... **159.50**  
Model SX-43U. Same as above except for 110-220 volts, 25-60 cycles AC.  
30N21065.....NET.....169.50

## R-42 and R-44

## MATCHING SPEAKERS



MODEL R-42 SPEAKER. Features the bass reflex principle of sound reproduction in a sleek, highly functional design cabinet to match the SX-42 and SX-62 receivers shown above. An 8" heavy duty PM speaker gives excellent full range response. Two-position tone switch on front panel permits rapid changeover for communications or high fidelity reception. Terminals on rear for 500-ohm input. Satin-finish, gray metal cabinet measures 17 x 11 1/2 x 12 1/2" deep.  
30N21072—Shipping Weight 30 lbs.....NET.. **34.50**

MODEL R-44 SPEAKER. Large oval size in a professional style cabinet with ample baffling, gives excellent low frequency response. Especially designed as a companion unit for SX-43 receiver shown above. Heavy duty, PM speaker in 6 x 9" size. Two-position tone switch. Dimensions of rich satin-gray finish cabinet: 18 1/2 x 8 1/2 x 9 5/8" deep.  
30N21066—Shipping Weight 19 lbs.....NET. **24.50**



## S-52

### 7 TUBE AC-DC RECEIVER

Superior performance at moderate cost. Frequency range in 4 bands, continuous from 540 KC to 43 MC. Variable pitch BFO and 3-step tone control. "Microset" permeability tuned RF coils for high sensitivity. Special break-in terminals operate to cut out receiver when your transmitter is in operation. Has latest series noise limiter, AVC, CW-Phone switch, phone jack, RF sensitivity and volume controls. Bandsread control with full electrical bandsread. For either single wire or doublet antenna. 7 tubes plus rectifier and ballast tube: 6SG7 RF Amp., 6SA7 Conv., 6SA7 1st. IF Amp., 6SK7 2nd. IF Amp., 6H6 2nd. Det., 6SC7 BFO and AF Amp., 25L6GT Output, 25Z6GT Rectifier and Ballast tube. Attractive satin black steel cabinet with brushed chrome trim. Top opens on piano hinge. Size: 18½ x 9 x 9½" deep. Complete with speaker. 115 V. 25-60-cycle AC-DC.

30N21087—Shipping Weight 30 lbs..... **79.95**



## S-53

### 7 TUBE AC RECEIVER

Employs new 2 MC IF for improved image rejection. Positively eliminates amateur images or repeat points within the amateur bands. Incorporates the latest series type noise limiter circuit. Voltage stabilized oscillator, iron core IF transformers. Built-in PM dynamic speaker, 2½-watts output. Slide rule type dial. Separate bandsread control and scale for fine tuning with full electrical bandsread. Frequency range: 5 bands from 540 KC to 54.5 MC. External connections for phone tips, phono input, single wire or doublet antenna. 7 tubes plus rectifier: 6C4 Osc., 6BA6 Mixer, two 6BA6 IF Amps, 6H6 Det., AVC, ANL, 6SC7 BFO and 1st Audio, 6K6GT Audio Output, 5Y3 Rectifier. Satin black steel cabinet with brushed chrome trim. Top opens on piano hinge. Size: 12 7/8 x 7 x 7¼" deep. 115-volt 50/60 cycle AC.

30N21063—Shipping Wt. 19 lbs..... **69.95**

Model S53U same as above but 115/220-volt, 25-60-cycle operation.

30N21104..... 78.95



## S-51

### "SEA FARIER" RECEIVER

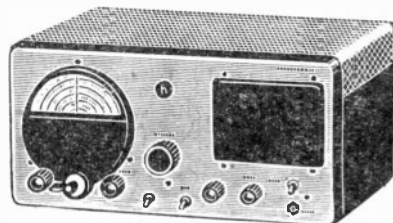
A specially designed and constructed receiver with built-in speaker. Components are made to withstand the effects of sea air and humidity. Temperature compensation assures drift-free reception. Permeability adjusted "microset" inductances in the RF circuits add to the stability and high quality. Besides the four tuning ranges, from 132 KC to 13 MC there are three pre-tuned channels for fixed frequency operation. Has a 1020-cycle range filter for better voice reception on ranges. Equipped for 110-volt AC operation; provision is also made for the addition of power supply combinations listed below permitting operation from either 6, 12 or 32-volt batteries. 9 tubes plus rectifier: 6SS7 RF Amp., 7A8 Conv., two 6SS7 IF Amp., 7C6 Det., 7A6 ANL, 6SS7 BFO, 35L6-GT Output and 35Z5GT Rect. Functional gray steel cabinet with piano hinge top. With doublet or single wire antenna connection, phone jack and 6, 12 or 32-volt sockets. Size: 18½ x 8½ x 9 5/8".

30N21059—Shipping Weight 31 lbs..... **149.50**

30N21060—6-volt Vibrapack for above..... 22.50

30N21061—12-volt Vibrapack for above..... 22.50

30N21062—32-volt Vibrapack for above..... 22.50



## HT-18

### MASTER OSCILLATOR

Directly calibrated variable master oscillator. Complete in one case: narrow band FM and calibrated five band VFO, with built-in power supply. Power output from 4.5 watts at 3.5 MC to not less than 2.5 watts at 29.7 MC. Dial directly calibrated in 7 ranges to all amateur bands from 3.5 to 29.7 MC. NBFM available on all ranges. FM deviation 1200 cps on all frequencies. Audio response flat from 100 to 5000 cps. Provision for oscillator keying for break-in operation. Check switch for beating oscillator against incoming signal without putting transmitter on air. Built-in pre-amplifier for high impedance crystal or dynamic microphones. 3 crystal sockets for spot frequency operation. Tubes used: (3) 6BA6, 6L6, VR105, VR150, 5Y3GT rectifier. 105-125 V. 50/60-cycle AC. With tubes, less crystals. 12½ x 7 x 7¼".

30N21074—Shipping Weight 25 lbs..... **110.00**



## HT-19

### 125 WATT TRANSMITTER

Offers narrow Band FM and CW, plus provisions for AM, to give maximum flexibility on 5 bands. A completely self-contained, medium power unit for the modern amateur. Consists of a crystal controlled or VFO oscillator, a frequency modulator with speech amplifier and a buffer and final amplifier. High stability and low FM distortion. The 4-65A type tube in the final stage is cooled by a 3-inch 800-RPM fan. Plate input 185-watts for approximately 125-watts output. Operation switch has 3 crystal positions plus VFO and NBFM; band selector switch changes multiplier coils 3.5-4, 7-7.3, 14-14.4, 21-21.45 and 27.16-29.7 MC. Check switch turns on oscillator for spotting signals on receiver. Plate switch controls all "B" power and makes connections for remote control. Deviation control adjusts for 0.4 ratio on all bands. 5 tubes plus 2 voltage regulators and 3 rectifiers: Three 6BA6—Osc., Freq. Modulator and Speech Amp., 6L6 Buffer, 4-65A Final, VR-150 and VR-105 Regulators, 5Y3GT and (2) 866 Rectifiers. Attractive gray steel cabinet with satin chrome trim. Piano-hinge top with interlock. Size: 20 x 10½ x 16" deep. For 115-volt, 50/60-cycle AC operation.

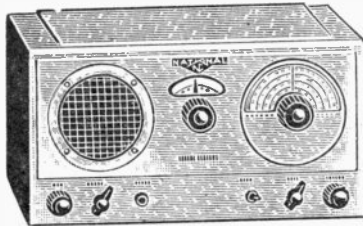
30N21347—Shpg. Wt. 98 lbs..... **359.50**





# MODERATELY PRICED NATIONAL RECEIVERS

## NC-33 COMMUNICATIONS RECEIVER



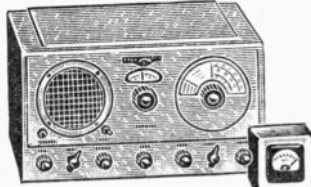
A top performer in National's fine line of quality receivers—packed with expensive set features yet priced within the modest budget. Four tuning bands provide continuous coverage from 500 KC to 35 MC. Main tuning and bandspread capacities connected in parallel on all bands

for bandspread operation at any frequency within tuning range. Fully calibrated dial—stations can be readily separated and logged. Amateur, police and foreign broadcast bands clearly identified. Band-switching achieved with 4-position switch. Other big set features include Automatic Noise Limiter, CW oscillator and pitch control for adjustment of beat note, Send/Receive Switch, and choice of two audio output circuits, 5" PM Speaker. Phone-Jack cuts out built-in speaker when headphones are in use. Antenna input designed for any single wire or doublet antenna. Tunes to ship calibrating and international SOS band. Front-panel mounted controls include: Main tuning, band selector switch, beat oscillator pitch control, code-phone switch, noise limiter switch, and audio gain.

New superhet circuit uses latest type high efficiency tubes: 12SA7, 12SG7, 12H6, 12SL7, 35L6GT, 35Z5GT, Rectifier. For 105-125 V, 50-60 cycles AC or 105-125 V DC. Cabinet has Gray enamel finish. 16½" x 8¾" x 8¾".

30N21267—With Tubes. Shpg. wt. 24 lbs.....**57.50**

## NC-57 RECEIVER



Sets a new high for performance in the moderate price field! Provides Phone and CW reception over the entire frequency spectrum of 550 KC to 55 MC in 5 bands. Built-in power supply, PM speaker and front panel mounted controls assure accurate, stable operation. Voltage stabilized oscillator circuit holds short wave signal steady when voltage changes. Controls include Main Tuning, Bandspread Tuning, Band Switch, RF Gain, RF Trimmer, BFO-MVC-AVC, ANL Switch, AF Gain, BFO Pitch, Tone Control and On-Off Switch.

Superhet uses: 6SG7RF amp., 6SB7Y conv., 2-6SG7 IF amp., 6H6 Det., AVC, ANL, 6SN7 Audio amp., BFO, 6V6GT Audio amp., 5Y3GT rect., VR-150 voltage rect. Antenna terminals for single, double or co-ax antenna lead-in. Provision made for connecting external "S" meter plus other accessories. 105-120 V, 50-60 cyc. AC. Gray enamel finish. 16½ x 11½ x 8¾". Wt. 33 lbs. Complete with tubes.

30N21266—NC-57 Receiver.....**89.50**

30N21274—"S" Meter Wt. 2 lbs.....14.95

## NC-173 COMMUNICATIONS RECEIVER

Appearance identical to NC-183 at right. Latest model for amateur and commercial use, with complete coverage 540 KC to 31 MC, plus 48-56 MC for Amateur 6-meter band. Separate bandspread tuning knob and dial for 80, 40, 20, 10 and 6-meter amateur bands. New "double-action" type noise limiter with variable threshold control for both CW and phone signals. Separate AVC amplifier permits using AVC on phone and CW. New wide range crystal IF filter offers six positions to meet all receiving conditions.

Other features include "S" meter in AVC circuit for use with phone and CW signals, continuously variable tone control, headphones and phono jacks on front panel. 3.5 watts audio output at 8 or 500 ohms for speaker operation. Antenna input circuit equipped with panel trimmer for maximum performance with any antenna. Superhet circuit with 11 tubes and rectifier—1 R.F. Amp., separate stabilized HF osc., 1st det., 2 IF's, diode 2nd det., AF limiter, AVC amp., stabilized BFO, 2 AF stages. For 110-120 or 220-240 v., 50-60 cycles. Gray metal cabinet, 19½ x 10 1/8 x 12½". Complete with tubes.

30N21254—Table Model Receiver. Wt. 70 lbs.....**189.50**

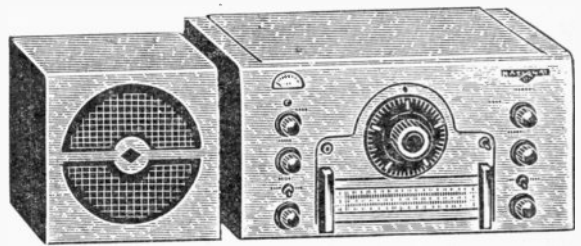
30N21256—Rack Mounting Receiver. Shpg. wt. 70 lbs.....189.50

30N21255—Table Model Speaker. 8 ohms imp. Wt. 12 lbs....10.00

30N21257—Rack Mntg. Speaker. 8 ohms imp. Wt. 12 lbs....10.00

30N21279—NBFM Adaptor for Receiver above. Wt. 3 lbs...17.95

## HRO-7 COMMUNICATIONS RECEIVER



Ultra-modern HRO receiver with many new features! Wide-range adjustable selectivity with 6-position switch for crystal filter operation. Calibrated dial for complete coverage plus maximum bandspread on amateur bands. Plug-in coil sets for 1.7-30MC—adjust for radio range, communications, marine, and broadcast-band frequencies by adding coil sets for 50-430 KC and 480-1700 KC. Automatic noise limiter clips noise on both positive and negative peaks, provides AVC for code reception. Two new miniature tubes, high frequency oscillator and voltage regulator for extreme oscillator stability. Accessory socket gives 6.3 volts AC, 150 volts DC regulated, and 240 volts DC unregulated for FM adaptor, crystal calibrator or HF converter.

Radio-Phono switch, 2 tuned RF, 2 IF stages, manual and AVC, calibrated "S" meter, micrometer-type dial with 20-to-1 precision gear drive, receiver disabling terminals for transmitting, 1-tube plus voltage regulator circuit assures high signal-to-noise ratio, image rejection, sensitivity. Requires power supply listed below. Gray enamel cabinet. 19½ x 10 x 10".

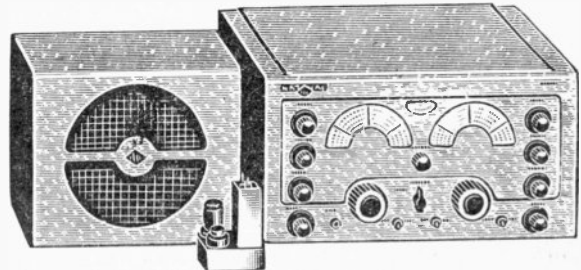
30N21253—HRO-7 Rec., tubes, coils. Wt. 60 lbs...**292.50**

30N21252—Matching MCR Speaker. Shpg. wt. 10 lbs.....12.00

30N21265—Power Supply for Receiver above. Wt. 15 lbs. (Operates from 115-230 volts 50-60 cycles).....20.36

30N21280—NBFM adaptor for Receiver above. Wt. 3 lbs...16.95

## DELUXE NC-183 COMMUNICATIONS RECEIVER



Latest engineering and radio circuit developments in a modern high gain superhet circuit. Complete frequency coverage 540 KC to 31 MC plus 48 to 56 MC amateur bands. Two tuned RF stages provide extremely high sensitivity and image rejection. Minimum drift for phone or CW reception assured by voltage regulated oscillator and BFO. Separate main tuning and bandspread dials, calibrated directly in frequency and with separate logging scales. Six-position crystal filter ranging from "Broad" to "Sharp" permits reception of phone or CW signals at maximum level of intelligibility despite channel interference. Noise limiter suppresses electrical interference on both phone and CW.

Illuminated signal strength meter with adjustable sensitivity. Output circuit uses two 6V6 tubes providing undistorted output of 8 watts, with 11 watts maximum. Output terminals for 8-ohm speaker or 500-ohm line. Provision for connecting high-impedance record-player pick-up plus Narrow Band FM adaptor unit. Highly-efficient low-drain tubes include: 2-6SG7 RF, 1-6SA7 det., 1-6J5 oscillator, 2-6SG7 IF's, 1-6H6 2nd det., 1-6SJ7 BFO, 1-6AC7 AVC amplifier, 1-6H6 noise limiter, 1-6SJ7 AF, 1-6J5 phase inverter, 2-6V6GT audio output, 1-VR-150 and 1-5U4G Rectifier. For 110-120 or 220-240 v., 50-60 cycles AC. Smooth Gray enamel steel cabinet. 19½ x 10 1/8 x 15".

30N21268—Receiver with Tubes. Wt. 80 lbs.....**268.00**

30N21269—Matching 10" Speaker. Shpg. wt. 12 lbs.....14.00

30N21270—Narrow Band FM Adaptor. Shpg. wt. 3 lbs....16.95

## OTHER NATIONAL RECEIVERS & ACCESSORIES AVAILABLE

30N21271—HFS Receiver/Converter. Wt. 25 lbs.....**142.00**

30N21272—Power Supply for above. Shpg. Wt. 15 lbs....22.43

30N21259—NC-46 Receiver. Shpg. Wt. 50 lbs.....97.50

30N21258—Speaker for above, in cabinet. Wt. 9 lbs.....9.90

30N21273—NC108T FM Receiver-Tuner. Wt. 24 lbs.**99.50**

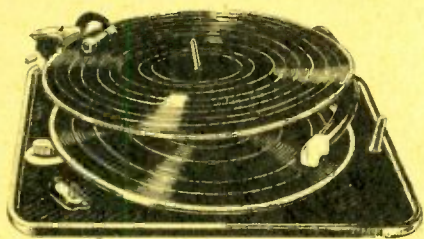
30N21275—Tilt Base for NC-57. Wt. 5 lbs.....3.95

30N21276—Tilt Base for NC-33, NC108, HFS, HR07.....3.95

30N21277—Tilt Base for NC-173. Wt. 5 lbs.....3.95



# LAST MINUTE SPECIALS



## JUST RELEASED! NEW GARRARD "TRIUMPH" 3-SPEED CHANGERS

The famous Garrard changer—"BUILT like a battleship with the precision of a watch"—now with three speeds. Too late for inclusion in the regular section of our catalog. Plays all records of all sizes and all speeds, automatically (78-45-33-1/3 RPM in 7-10-12" sizes). No records of any type need be played manually. Features a fully automatic stop regardless of the type of record being played. The motor is heavy-duty, quality engineered to assure constant speed with no wows, wavers or variations. Record may be rejected at any time. True-tangent pickup with minimum tracking error. Specially designed tonearm eliminates disturbing resonance. Mounting dimensions: 15 1/2" x 13 1/2"; requires 5 1/2" clearance above base plate and 2 1/2" below.

Model C. 100-130-volt, 60-cycle AC. With turnover crystal cartridge and needles.

34N22604—Shipping Weight: 21 lbs. .... **49.50**

Model E. As above but supplied with two GE plug-in professional series variable reluctance cartridges.

34N22605..... **59.50**

Model P. As above, but with two Pickering high fidelity cartridges.

34N22606..... **69.50**

NOTE: Models E and P require preamplifiers. See page 48.



## TRIONIC 16" TRANSCRIPTION ARM

New type slide cartridge holder allows instantaneous mounting. Any cartridge not over 1/4" wide may be used with the arm. Leaf spring clamp connects the pickup to ground. Quick twist of the thumbscrew and the cartridge is held securely until released. Can be used with all records up to 17". Installation of cartridge is simple and efficient, silver-plated, spring loaded plungers maintain positive electrical contact. Height adjustment from 1-11/16" to 2-5/16" above base plate. Weight adjustment from 5 grams up. Arm rest. Grey wrinkle finish, brushed chrome trim.

34N13516..... **22.05**



## LIVINGSTON "UNIVERSAL" PICKUP ARM

New curved reproducer arm accommodates practically any cartridge, including LP types that use a 1 mil stylus. For use with new Columbia LP records plus regular or studio recordings. Tracks well on 12" or 16" table. Complete with two sliding counterweights—one to vary stylus weight to 6 or 8 grams pressure for LP records, other for regular records.

34N13484—Shipping weight 3 lbs. .... **14.95**

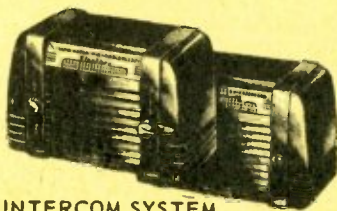
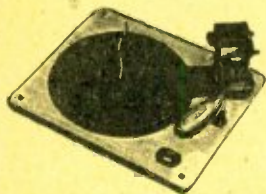
## QUANTITY LIMITED!

### SPECIAL VALUE RECORD CHANGER

Improved automatic record changer. Jam proof and child proof—tone arm can be moved at any time without jamming unit or changing adjustments. Plays records manually or automatically—plays ten 12" or twelve 10" records at one setting. Single control for simplified

operation. Lightweight crystal tone arm assures hi-fidelity reproduction. Constant-speed 110 volt 60 cycle AC motor. Base plate 11 1/2" x 13 1/2". Requires 6" above and 2" below panel board.

99N9593—Shpg. wt. 12 lbs. .... Only **10.95**



## TWO-WAY INTERCOM SYSTEM

Complete two-way system! Ideal for nurseries, restaurants, factories and homes. Units quickly installed without special tools. Remote stations can be placed up to 2,000 ft. from Master stations. Uses 50L6 and 12SJ7 audio amplifiers plus selenium rectifier. Plastic cabinet. 8 3/4" x 6 1/4". With tubes, AC cord and plug and 50 ft. of hookup wire.

99N9582—Shipping Weight: 8 lbs. .... **12.95**

19N16013—Extra wire..... Per ft. .... **1 1/4¢**

## MICROGROOVE DUAL SPEED ADAPTER

Adapt your standard 78 RPM record player to play the new 33-1/3 and 45 RPM LP records. Complete kit, including a speed reducing table which rests on top of the regular turntable. Has a simple planetary mechanism to reduce rotation. Special pickup assembly with switching arrangement to engage or release the speed reducing mechanism. Complete with Astatic FLC LP crystal pickup.

34N22619—Shipping Weight: 5 lbs. .... **11.95**



## LOUDNESS CONTROL

Livingston Model MB. A new superb tone-compensated unit that will increase your listening pleasure. Combines the best features of conventional tone and volume controls to provide the proper aural balance at all levels. Compensated for 22 intensity levels. Designed for chassis or panel mounting; shielded, compact and requires a mounting space of only 2 1/2" deep by 2-1/8" in diameter.

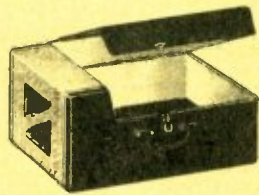
34N13517..... **9.95**



## PORTABLE RECORD CHANGER CASE

Lightweight, compact portable changer case with convenient, easy-opening cut-away top. Handsomely styled in Tan and Brown simulated leather fabricoid over all-wood construction. Attractive Ivory plastic trim throughout. Insides covered with Tan simulated leather fabricoid. Bright contrasting metal fittings and durable plastic handle. Ample room for mounting 3 or 4 tube amplifier and up to 8-inch speaker. Takes the Webster 156, 256, and 356 changers. Motor and amplifier boards uncut. 19 1/2" x 15 9/16".

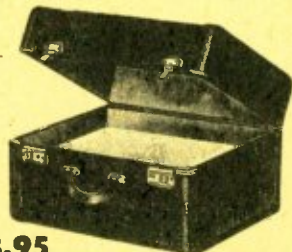
22N22063—Portable Changer Case. Shpg. Wt: 15 lbs. **11.95**



## DELUXE RECORD CHANGER CASE

Handsomely styled, lightweight and compact record changer case. Rugged construction with covering of extra-fine simulated alligator fabricoid. Strongly sewn edges reinforced with sturdy leather. Nicked locking snaps with key included. Blank covered motor board. Inside dimensions: 17x14 1/2x11".

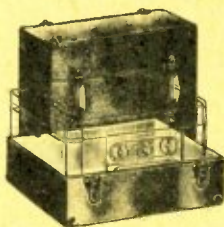
22N22064—Wt. 10 lbs. .... **13.95**



## PORTABLE AMPLIFIER CASE

Covered with handsome Tan simulated rawhide leather to match reflex speaker enclosure. Top can be completely removed for easy access to amplifier. Two sturdy simulated leather handles. All corners protected by metal shields. Bottom is equipped with metal bumper slides. Overall Size: 15x15 1/2x20" wide.

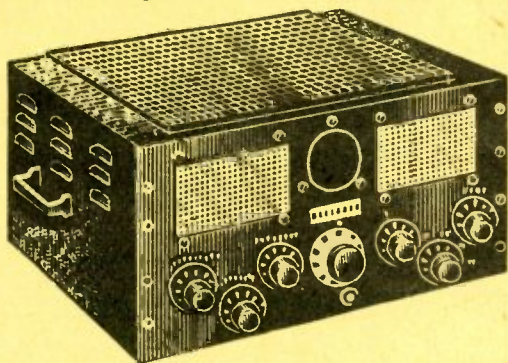
22N22057—Wt. 17 lbs. .... **9.75**



INQUIRIES WELCOMED ON ITEMS NOT IN CATALOG



# MORE FOR EVERY DOLLAR



## 20 WATT DELUXE HIGH FIDELITY AMPLIFIER

You can save up to \$30 on this 20-watt deluxe amplifier, with the assurance that you are getting a quality amplifier of reputable make. Lafayette had a chance to buy these fine amplifiers from a well known manufacturer at a remarkably low price and we are able to pass the saving on to you. Here is a unit capable of superb reproduction of both voice and music with a frequency range of 50 to 15,000 cycles. It's ready for rack installation or use as an individual unit. Equipped with a master gain control to regulate all channels without resetting individual controls. Output impedances 2, 4, 8 and 500 ohms. The dual tone controls provide independent adjustment of base and treble. All connections are easily made at the rear of the amplifier. Convenient ON-OFF switch located on front panel. Screw-in type fuse easily replaced. Tubes used are two 12SJ7, 6S17, 6SL7, two 6L6G and a 5Z3 rectifier. Sturdy functional type cabinet with side mounted carrying handles, is made of heavy-gauge steel finished in handsome black crackle. The amplifier fits any standard relay rack. Dimensions: 19 1/4" wide by 17 1/4" deep by 9 1/4" high. Operates on 105-125 volts, 60 cycles AC only. Underwriters Laboratory Approved.

2N410—Shpg. Wt. 60 lbs..... **47.50**



## 25-WATT AMPLIFIER WITH RECORD CHANGER TOP

Take advantage of these terrific buys for excellent quality amplifiers and record players. They're compact, and light in weight...ideal for either fixed or portable P.A. use in orchestras, churches, schools and carnivals, where reliable performance at a low cost is important.

Check these important extra features: Two microphone inputs with separate volume controls; two phono inputs with 2-way volume control; and illuminated panel. Four speaker outputs with selector switch; tone control.

25-WATT AMPLIFIER with efficient, smooth-operating automatic record changer for 10 and 12" records. Dimensions: 14 x 14 x 11 1/4".

2N407—Shipping Weight 45 lbs..... **44.50**

As above, except 16-WATT AMPLIFIER with automatic record changer. Dimensions: 14x14x11 1/4".

2N409—Shipping Weight 36 lbs..... **37.50**

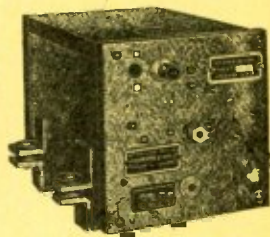
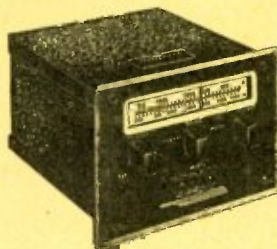
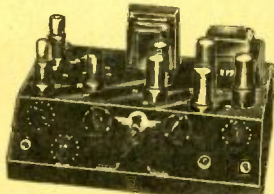
## LAFAYETTE HI F1 AMPLIFIER AND ROLL-OFF CONTROL

A 10-watt Hi-F1 amplifier, specially designed to handle even the critical requirements of wire recorders and as an amplifier for GE and Pickering pickups. Frequency response flat from 40 to 15,000 cps at  $\pm 2$  db. Only 5% distortion. Output impedances: 4, 8, 15, and 50 ohms. Special features include separate high and low gain inputs; base and treble tone controls; built-in wire recording erase and bias oscillator and a Neon recording level indicator. A separate, high frequency "roll-off" control is available for switching from microphone to GE reluctance pickup; 6-step compensation. Sturdy burgundy crackle chassis. For 115-volt, 60-cycle AC operation only. Dimensions: 10 5/8 x 14 x 7".

2N190—Shipping Weight 25 lbs..... **59.50**

Roll-Off control for above.

2N192—Shipping Weight 3 lbs..... **5.95**



## AIRCRAFT COMMUNICATIONS SET TRANSMITTER-RECEIVER-INTERCOM BRAND NEW!

Pilots the world over realize the great safety value in maintaining "two-way" radio communication during cross-country flight. Through a special purchase, Lafayette is able to offer you this outstanding two-way communication system, which also furnishes broadcast reception and intercommunication within the plane itself. This is a brand new set...not surplus, made to sell originally for \$200. The receiver and combination transmitter and power supply are divided into two separate units and joined by an interconnecting cable for easy installation. Equipment operated from controls located on the receiver: 3-position control for Tower-Voice-Range; ON-OFF switch and volume control, tuning control and band switch.

The receiver has a choice of two bands, controlled by a positive interlocking band switch with positions "A" (aircraft) and "B" (broadcast). "A" covers the transmission frequencies from 195 KC allotted to aircraft radio range and tower stations. "B" covers the standard broadcast band from 550 to 1600 KC enabling pilots to "home" on broadcasting stations, in addition to receiving entertainment programs. Sensitivity rating 3 microvolts, or better, at 50 milliwatts. A tuned RF section produces high selectivity. Undistorted output 300 milliwatts, maximum output 500 milliwatts, provides strong volume for any number of headphones in the aircraft. Tubes: (2) 14A7, 14Q7, 14B6, 14A4. Overall dimensions: 3 3/4" x 5 11/32" x 5 23/32" D. Transmitter is crystal controlled, power amplified and employs high level modulation 10 watt output. Operates on any single frequency between 2 and 7 mc making it applicable for marine and ham use as well as aircraft. Side tone and automatic change-over relay are provided. Power supply utilizes a vibrator and is completely shielded. Overall dimensions of transmitter and power supply: 5 5/8" H x 7 1/8" W x 8 3/4" D.

Complete set includes the following: Receiver, Transmitter, 3105 KC Crystal, Power Supply, Loading Coil, Interconnecting Cable, antenna Lead and Cable, Headphone and Microphone Cable, Tubes, Fixed Wire Antenna Kit and Shock-mounts.

For 6-volt operation—requires 10.25 amps. Transmitter uses (3) 7C5 tubes.

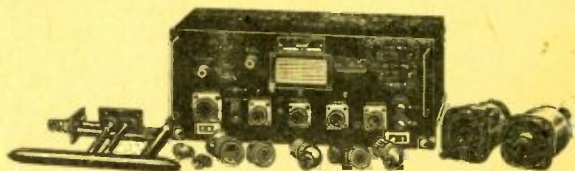
99N9613—Shpg. Wt. 11 lbs.....List \$200.00. .... **49.50**

As above except for 12-volt operation—requires 5.2 amps. Transmitter uses (3) 14C5 tubes.

99N9614—With tubes..... **49.50**

As above except for 24-volt operation—requires 2.5 amps. Transmitter uses (3) 14C5 tubes.

99N9615—With tubes..... **49.50**



## NEW! MODEL APN-1 ALTIMETER MEETS CAA REGULATIONS

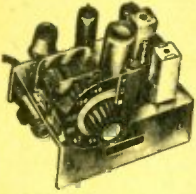
An invaluable aid for pilots making blind landings. Conforms to CAA requirements of Feb. 1949. Made to sell originally for six hundred dollars. This is a brand new 14-tube electronic altimeter consisting of a receiver, transmitter, altitude meter, altitude limit switch, two 11" antennas, plugs and sockets. Measures absolute altitude from 3 ft. to 4000 ft. and also gives an alarm if the height of the plane varies more than ten feet from the setting on the altitude limit switch. Has indicator zero, outer-low range, inner-high range, limit indicator, and calibration adjustments. Range and ON switches on altitude meter. Altitude limit switch has 11 positions in 25 ft. steps from 50 to 300 ft. Provision is also made for connection to control an automatic pilot. Other sockets include limit switch, limit indicator, battery input, transmitter antenna and receiver antenna. 3 amp. fuse with spare mounting. Front and chassis can be easily removed by releasing locking screws for easy inspection and maintenance. Measures only 18"x9"x17". Shipping Weight: 32 lbs.

99N9616—For 24 to 28-volt DC operation..... **32.50**



# SUPER SPECIAL VALUES

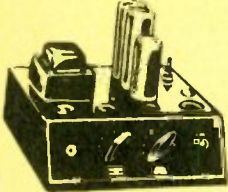
## 4-TUBE AM SUPERHET TUNER



A miniature type tuner (540-1600 KC.) with big unit design. Here's an easy way to add an AM radio to your P.A. system, portable amplifier, record player with built-in amplifier, wire recorder, etc. Measures only 5" W. x 4" D. x 4 1/2" H. Self-contained 115 V AC-DC, hum-free power supply with approximately 10 V. high impedance audio output. Permeability tuned IF transformers. Maximum output adjustable in 3 steps: 10-5-1 volts. Supplied complete with 4 tubes (12BE6, 12BA6, 12AT6, 35W4), operating instructions, circuit diagram, attached 5-ft antenna and 2 1/2-ft shielded output cable. Tested and aligned.

12AT6, 35W4, operating instructions, circuit diagram, attached 5-ft antenna and 2 1/2-ft shielded output cable. Tested and aligned.  
30N22479—Shipping weight 6 lbs. **12.85**

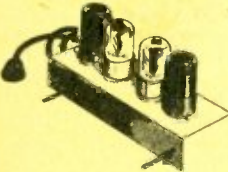
## HIGH GAIN AUDIO PREAMPLIFIER



This 5-tube, 4-stage preamplifier is an excellent item for service shops and various installations requiring additional gain. Uses 6S17 1st stage, 2-6SN7 2nd and 3rd stages, 6J5 as 4th stage and 5Y3GT rectifier. Additional equipment includes 65 mil power transformer, 2 heavy duty chokes and 35 mfd. condenser. Input suitable for high impedance microphones and high impedance low output pickups. Has single circuit mike jack, volume and tone control, and replaceable fuse on front panel. Dimensions: 7 1/2" high, 9" wide and 9" deep. For 110-volt, 60-cycle AC. Shipping weight: 10 pounds.

99N9604—Less Tubes **8.95**

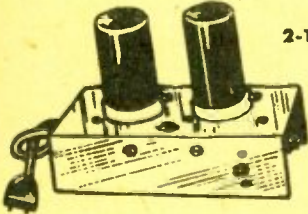
## 4-TUBE AMPLIFIER



Push-pull output circuit designed for use with crystal pick-up. 4-tube amplifier wired on right angle metal chassis includes volume control, pilot light, shielded lead and power line cord and plug. Tubes used (2) 35A5, 14B6, 35Y4. Shipping weight 3 lbs.

99N9608—Less Tubes **2.95**

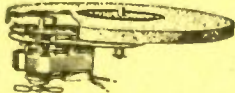
## 2-TUBE PHONO OSCILLATOR



Play music from your record player through your radio without connecting wires. Recorded music is sent by radio waves to radio. Aluminum chassis, (2) EF-50 tubes. Wt. 2 lbs.

99N8006 **3.75**

## SINGLE SPEED PHONO MOTOR



New low price on this rim-driven phono motor, complete with turntable. Constant single speed (78 RPM). Self starting. Forced draft air-cooling. 110 V., 60 cycles, A.C.

99N8003—Shipping weight 6 lbs. **2.25**

## 3-SPEED PHONO MOTOR

Feature bargain! Plays 33 1/3, 45 and 78 RPM records. Has 9" turntable and external speed regulating lever.

99N8009—Shipping weight 6 lbs. **5.49**

## TOPE ARM AND HEAD

Replacement for 95% of all non-electronic reproducers. Takes standard needles, plays up to 12" records. Black and nickel finish.

34N13415—Head only **98c**  
34N13416—Arm only **1.25**



## MLP1 CARTRIDGE

Crystal. Wide frequency range; .75 V. output

99N8010 **1.19**



## CARRON PORTABLE PHONO

Low-priced acoustic phonograph with fine tone and plenty of volume. Improved type mechanical reproducer requires no tubes. Constant speed 78 RPM motor operates on 110 volts, 60 cycles AC and plays all size records including 12". Fully enclosed motor. Housed in sturdily constructed, easy-to-carry case finished in attractive blue, baked-on enamel. Size: 14 1/2 x 12 x 7". Shipping weight 14 lbs.

34N22668 **9.75**  
Lots of 6, each 9.25



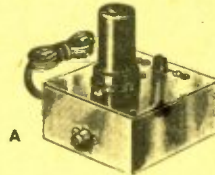
## ELECTRIC KIDDY PHONO

Thrill any youngster with this colorful electric phono with acoustic tone arm. Plays all size records including 12" with good, clear tone. Constant speed 78 RPM motor with 9" turntable, plugs into 110 V., 60-cycle AC. Attractive pink motorboard equipped with ON-OFF switch and needle cup. Sides finished in bright blue with decorative front. Has 6-ft cord and plug. Dimensions: 13" wide, 12" deep, 6 1/4" high overall.

34N22693—Shipping weight 7 lbs. **5.95**



## HI-FI CARTRIDGE AND PREAMP



Now, the famous Hi-Fi variable reluctance cartridge is yours, at a fraction of the usual cost. A—The PREAMP permits the use of the cartridge in any phono that has a crystal pick-up. High impedance output connects to any phono input. 2-position switch for high or average frequency response. With tube. B—The CARTRIDGE gives Hi-Fi response, 50-10,000 cps. 80 millivolt output; force of 15-30 grams. Retractable sapphire stylus with replaceable, felt, record cleaning pad.

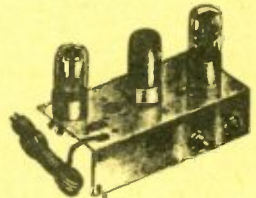
34N13478—Cartridge. Wt. 2 oz. **2.95**

34N13479—Preamp. Wt. 2 lbs. **4.85**

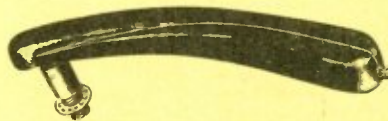
## THREE TUBE PHONO AMPLIFIER

Build your own hi-fidelity record player or changer. Variable tone control, 2 watts output. 50L6, 12SQ7, 35Z5 rect. Phono motor connects to amplifier. Less tubes, output transformer. Shpg. wt. 2 lbs.

99N9584 **2.98**



## L.P. PICKUP



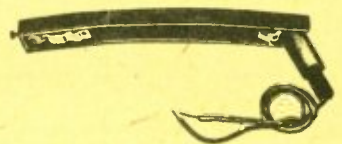
A Long Playing pickup for the 33-1/3 and 45 RPM, long-playing records. Excellent frequency response. Approximately 1 volt output. Low tracking force.

99N3577—Shipping weight 12 oz. **1.99**

## STANDARD PICKUP

Standard crystal phono pickup for playing the conventional 78 RPM records. Curved arm for best tracking.

99N8002—Shipping weight 1 lb. **1.79**

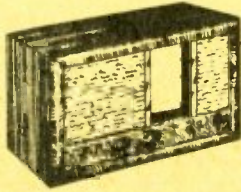


FOR INDUSTRIAL EQUIPMENT CONSULT OUR INDUSTRIAL DEPARTMENT



# DOLLAR-SAVING VALUES

Beautifully Finished Cabinets at Sensational Prices



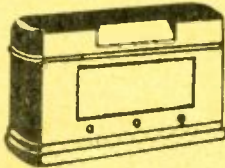
### WALNUT CABINET

A Really Terrific Buy! Handsome walnut cabinet, heavy construction. Dimensions: 20" wide x 13 3/4" high x 9" deep. Ornamental brass strip around esutchon panel. Ideal for replacing old style cabinets and for kits. Supplied with bumper feet to protect furniture. Made to house a truly fine set. Panel drilled and cut out. 99N7087—Shipping Weight 14 lbs. **1.59**



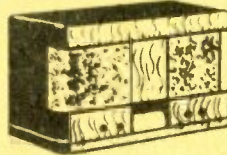
### INTERCOM CABINET

Handsome walnut cabinet. Excellent for use as a master intercom station. Sturdily constructed of fine seasoned woods. Dimensions: 12 1/4" wide x 7 1/4" high x 7 3/4" deep. Cabinet is slotted for speaker. Holes for switches and controls have already been drilled. 99N7086—Shipping Weight 5 lbs. **99c**



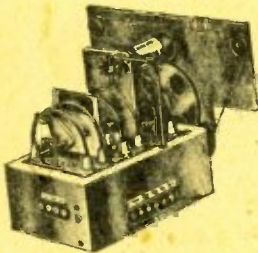
### ROSEWOOD CABINET

Handsome rosewood cabinet. 15" wide x 9 1/4" high x 7" deep. Slide-rule dial opening. Ideal for replacing old style cabinets and for kits. Handsomely finished. Supplied complete with three holes drilled for volume and tuning controls. 99N7088—Shipping Weight 4 lbs. **1.19**



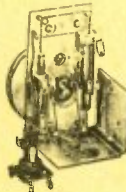
### RADIO CABINET

Beautiful walnut or mahogany cabinet (please specify type). Dimensions: 19" wide x 10 1/2" high x 8" deep. Dual grilles for use with one or two speakers. Heavy flocked wire mesh grille. Supplied complete with four holes drilled for tuning and volume controls. 99N7089—Shipping Weight 6 lbs. **1.95**



### SPECIAL VALUE! FM FRONT END

Newly designed with latest circuit developments for extremely stable and sensitive operation. Ideal for use with PA systems or for remodeling AM receivers. Frequency coverage from 88 to 108 MC. Large easy-to-read slide-rule dial for fast tuning. Antenna provision for 300 ohm line. IF frequency is 10.7 MC. Tubes used: 6AK6 RF amplifier, 6I5 oscillator, mixer, detector, 6U5 tuning eye indicator. Dimensions: 8" x 5" x 3". Supplied complete with tubes, dial and instructions. 30N22484—Shipping Weight 10 lbs. **14.95**



### PERMEABILITY TUNER

For use in standard broadcast receivers to replace variable condensers and associated coils with a single unit. All are simultaneously slug tuned. Each can be individually adjusted for tracking alignment. Complete with antenna coil, oscillator, padder coil and schematic diagrams for building 5 and 6-tube superhet receivers. 4" x 2 1/2" x 2 1/4". Dial drum 2 1/2". 99N3574—Shpg. Wt. 2 lbs. **1.09**



### LOOP ANTENNA

Matches input impedance of permeability tuner above. Finest copper wire on sturdy fibre board. 99N3575—Shpg. Wt. 1 lb. **19c**



### SBP1/5GP1 C-R TUBES

Brand new SBP1/5GP1 cathode ray tubes perfect for oscilloscope use. Green fluorescence with medium persistence. Large five-inch screen, medium shell maginal 11 pin base. 6.3 volt heater, anode No. 2 voltage 2500 volts. Each tube is individually boxed. 99N9559—Shpg. Wt. 3 lbs. **2.95**



### RECORD CHANGER MOTOR

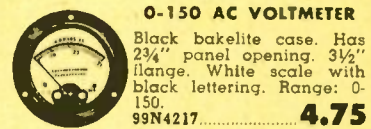
Heavy duty record changer motor. Exact replacement for Seeburg Model L record changer. 4-pole motor is vibration isolated from mounting bracket by three live rubber grommets. Motor turns at approx. 1700 RPM; heavy rubber covered idler wheel at 318 RPM. Bracket has flange holes on 2" x 5" centers for mounting 12" insulated leads. 99N7082—Shpg. Wt. 5 lbs. **2.25**

### RCA ISOTAP TRANSFORMER

Permits speedier servicing of AC-DC receivers, provides greater safety in servicing and many other advantages. Has voltage tapped primary and secondary—primary is set to power line voltage and secondary receptacles give choice of 117V, 105V, or 130V supply. 6N1600—Shpg. Wt. 15 lbs. **8.95**

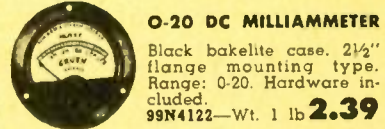
### SPECIAL FEATURE! THROAT MICROPHONE

Carbon mike works into any 200 ohm impedance input circuit. Adjustable strap fits any neck. Full freedom of hands and head. Ideal for ultra-high frequency mobile work. With strap, 10" cord, plug. 99N7060—Shpg. Wt. 1 lb. **19c**  
10 for..... **1.70**



### 0-150 AC VOLTMETER

Black bakelite case. Has 2 3/4" panel opening. 3 1/2" flange. White scale with black lettering. Range: 0-150. 99N4217..... **4.75**



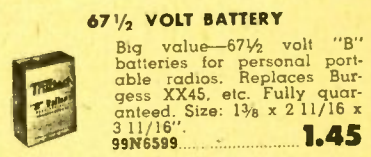
### 0-20 DC MILLIAMMETER

Black bakelite case. 2 1/2" flange mounting type. Range: 0-20. Hardware included. 99N4122—Wt. 1 lb **2.39**



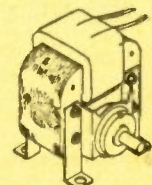
### "MINI-VOLT" METER

Indicates voltage of available power lines, warns of voltage drop due to faulty equipment, checks for blown fuses, grounds, transformer and capacitor breakdowns, open choke coils, etc. For use on AC from 65 to 660 volts. DC voltage readings use simple conversion factor. GE neon lamp indicates AC or DC power supply. Insulated plastic case and dial panel. Furnished with 12" test prods and leads. 25N12982—Shpg. Wt. 1 lb. **1.83**



### 67 1/2 VOLT BATTERY

Big value—67 1/2 volt "B" batteries for personal portable radios. Replaces Burgess XX45, etc. Fully guaranteed. Size: 1 3/8 x 2 11/16 x 3 11/16". 99N6599..... **1.45**



### ELECTRIC MOTOR

Makes the handiest tool on your workbench. Attach a flexible shaft for grinding, sanding and buffing operations. Great for model-makers. 1/20 h.p. motor turns at 2900 RPM—does the job in half the time! 1/4" shaft, 3/4" long. Motor is 3 1/4" x 2 3/4" x 3 1/2" high. For 115 V, 50/60-cycle AC. 99N7079—Shipping Weight 3 lbs. **3.89**



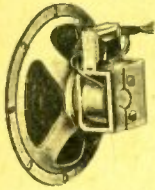
### LIVE RUBBER MOUNTS

Excellent live rubber mounts for floating variable gang condensers, sockets, and record changers to prevent microphonics. 5/16" diam. x 3/8". 98N14798—10 for..... **9c**  
100 for..... **60c**



# BEST BUYS OF THE YEAR

## 225 OHM 5" DYNAMIC SPEAKER



For replacement in radio receivers, intercommunication and paging systems. 225 ohm 5" dynamic heavy pot, hum bucking coil and double shielded transformer to match output impedance of 50L6. Excellent for voice and music.

99N7013 ..... **99c**  
99N7032—Same, less transtl. ....69c

## 3" 450 OHM SPEAKER



A quality speaker for general replacement. In call systems, hearing aids, small radios. Has 450 ohms field coil. Flat response, when properly baffled, from 100 to 4500 c.p.s. Formed 1 pc. cone. Less transformer.

99N7029—Wt. 3 lbs. .... **1.19**

## 5" 3000 OHM SPEAKER

5" dynamic speaker for general replacement. Flat response covering from 100 to 4500 c.p.s. Formed one piece cones, 3000 ohm field. Less transformer.

99N7031—Shpg. Wt: 3 lbs. .... **95c**

## 5" 450 OHM SPEAKER

For general replacement purposes in radios, record players, paging, intercom systems. Response 100 to 4500 cps. Rated 2½ watts. Field coil 450 ohms.

99N7030—Shpg. Wt: 3 lbs. .... **1.39**

## ALNICO V OVAL SPEAKER

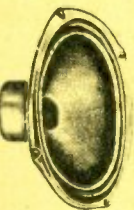


Alnico V 1.47 oz. 4x6 rectangular mount with 3¾ x4¾" mounting centers. Dustproof spider and voice coil. 3.4 ohms V.C. impedance. Rated 3 watts. 4½" peak. Voice coil terminals on transformer mounting. Less transformer.

99N7012 ..... **1.29**

3 for..... 3.50

## 6 x 9 OVAL PM SPEAKER



Ruggedly built, 6 x 9" oval PM speaker. Designed to rigid specifications, with permanently aligned cone and coil construction. Seamless, felted cone; dustproof. Voice coil impedance 3.4 ohms. Rectangular mount with 6½ x 4¾" mtg. centers.

99N7033..... **2.39**

## OUTPUT TRANSFORMERS



Single 1DS, 1LB4, 1J5, 1T5, 12A7, 38 to voice coil. Pri. 16,000 ohms 10 ma. DC max. Sec. 3.2 ohms, 2 watts. Mtg. 2".

99N6591..... **39c**

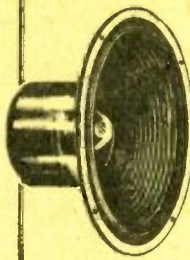
## OUTPUT TRANSFORMER



Single ended secondary, with impedance of 4 ohms. Unshielded strap type mounting. Color coded leads. 2000-ohm is for 50L6.

99N5151—2000 ohms..... } Each  
99N5152—7000 ohms..... } **39c**  
99N5153—10000 ohms..... }

## 15" PM SPEAKER



A deluxe, heavy-duty speaker for public address, auditoriums and all high quality radio-phonograph installations. Features 1½ lb. Alnico V magnet and a power handling capacity of 25 watts. Voice coil impedance 6-8 ohms. Permanently aligned coil and cone construction....

moisture and dustproof. Equipped with mounted leads and speaker plug for easy installation.

99N7034..... **12.95**

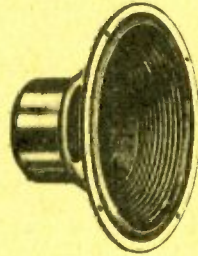
## 12" RCA SPEAKER



Genuine RCA replacement speaker gives top quality reproduction of bass and treble frequency range. Handles up to 15 watts. Uses strong 6.8 oz. Alnico V magnet; voice coil impedance 3.2 ohms. Also ideal for new installations requiring quality at low cost. Precision engineering and parts have been built into this speaker to give it years of trouble-free service.

99N7023..... **4.75**

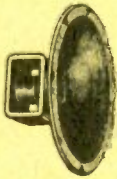
## 12" ALNICO "V" SPEAKER



Replacement for FM-AM receivers 12" PM dynamic speaker with Alnico V permanent magnet. Magnet weight of 6.8 oz. is equal to 20 oz. of conventional magnets. 1" voice coil with 6-8 ohms impedance. Capacity is 14 to 18 watts.

99N7010.. **5.95**

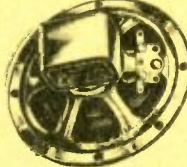
## 10" PM SPEAKER



Here's an excellent replacement speaker at low cost. Rugged, dustproof construction. 6.8 oz. Alnico V magnet. Voice coil impedance 3.4 ohms.

99N7019..... **3.15**

## ALNICO PM SPEAKERS



New Alnico V magnet provides max. performance with min. weight. Ideal as replacements in radios, record players and auto radios. Voice coil terminals on transformer bracket. 3.2 ohms V.C. imp. Less transformer.

99N7011—3-inch PM ..... **1.29**

99N7009—5-inch PM ..... **1.39**

99N7028—6-inch PM..... **1.69**

## OUTPUT TRANSFORMER



500-ohm line, 8-ohm voice coil output transformer. Multiple taps. 18 watts. Color coded leads. Mounting center 2-7/16".

99N5154..... **69c**

## PLATE TRANSFORMER



Fully cased, electrostatically shielded plate rectifier transformer. Heavy duty model with 117 V., 50/60-cycle primary. Secondary: 625 V. CT at 160 MA and 5V. at 3A. Color coded leads. Mounting centers 2¾x2-7/8".

99N5157..... **2.69**

## POWER TRANSFORMER



A real bargain special power transformer. Single shell mounting, electrostatically shielded. Has extruded shell for two-hole mounting. Primary 117V., 50/60 cycles. Secondary outputs: 600 V. CT at 50 Mill, 6.3 leads.

V. at 2A, 5V. CT at 2A. Color coded leads.

99N5156..... **1.39**

## 15 HENRY, 50 MA. TOTALLY ENCLOSED CHOKE



120 ohms D.C. resistance. Fully shielded, strap type mounting. Compact, efficient; has many uses. Size: 1½"x2"x1¼".

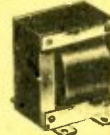
99N6550..... **69c**

## 30 HENRY CHOKE

50 ma. 450 ohms DC resistance. Unshielded, strap type mtg. Size 2½x1¼x 2-1/8".

98N246—Shpg. Wt: 2 lbs..... **59c**

## 4 HENRY 500 MIL. CHOKE



Heavy duty. 500 ma. 12 ohms DC resistance. Wax coated to withstand effects of moisture. Overall size: 3½" x3½"x4". Mtg. centers 1¾"x3".

99N6594..... **2.39**

## 25 HENRY FILTER CHOKE



Excellent quality 25 Henry Filter Choke; 60 MA, 200 ohms DC resistance. Unshielded, strap type mounting. Overall dimensions: 2-3/8x2x 1-5/8". Mtg. center 2-7/8".

99N5155..... **49c**

## VIBRATOR TRANSFORMER



Primary 24 V CT. Secondary 300 V CT. 60 MA. Hermetically sealed in Black crackle metal case. Eight 5/32" mtg. holes for upright or inverted mtg. 3¾"x3¾"x 2½".

99N5097..... **37c**

## SPECIAL TV REPLACEMENT

### Vertical Output Transformer



Equivalent to RCA Type No. 204T2. Couples output tube to deflection yoke. Specially impregnated. Strong, rigid mounting brackets with 2x2-3/8" mounting centers. Color coded leads.

99N5158..... **1.29**



# "LIMITED QUANTITY" SALE



## HANDY TERMINAL STRIP KIT

Kit of 10 assorted terminal strips with from 2 to 28 terminals. Hi-quality phenolic insulation with either screw or solder lug terminals. Mounting holes or brackets on each strip.  
99N6975—Kit of 10.....**29c**



## KIT OF 25 MICA CONDENSERS

Kit of most popular size bakelite mica capacitors for servicemen, amateurs, and experimenters. Unmarked, but all guaranteed perfect. High quality units at an unusually low price.  
99N277.....**49c**



## KIT 25 TUBULAR CONDENSERS

Top quality brand tubular condensers at a real bargain price. Wax impregnated, non-inductively wound. Standard working voltages and capacities range from .002 mfd. to .5 mfd. With long flexible pigtail leads. Individually tested to meet RMA standards.  
99N278—Shpg. wt. 1½ lbs.....**97c**



## KIT 100 ASSORTED RESISTORS

An exceptional resistor value for the radio serviceman, experimenter and amateur. Kit contains 100 assorted popular resistor sizes with wattage ratings from ¼ to 2 watts. All resistors are RMA color coded.  
99N155—Shpg. wt. 1 lb.....**1.19**



## VITREOUS ENAMEL RESISTOR KIT

Bargain assortment of 20 high quality vitreous enamel and cement coated wire wound resistors. From 5 to 25 watts. Wide assort. of values.  
99N245.....**1.59**



## KIT CERAMICON CONDENSERS

10. Kit of 25 popular sizes. All condensers color coded. Flexible pigtail leads. Shpg. wt. 1 lb.  
99N279.....**69c**

## BAKELITE RADIO KNOBS

Molded and polished walnut bakelite knobs for ¼" shafts. "A" is spring clip push on type, 1⅞" dia. "B" is for knurled shafts, 1" dia.

No.	Type	Each	10 for	100 for
98N9625	A	4c	30c	2.00
99N249	B			



## KNOB KIT

20 assorted popular knobs in a variety of sizes.  
99N6984.....**39c**

## BURGLAR-PROOF CABINET LOCK

Threaded stud; suitable for wooden or metal cabinets. Strong construction; chrome plated. 2 keys and necessary hardware.  
99N300.....**29c**



## CATHODE-RAY TUBE SOCKET

Bakelite television tube socket especially made for 10BP4, 12KP4 and 7JP4 picture tubes. 5 tinned colored leads.  
99N301.....**39c**

## TELEVISION ION TRAP

Prevents ions from bombarding sensitive TV tube screen. Fool-proof construction. Only two coils and padded mounting yoke.  
99N5160.....**69c**

## TELEVISION FOCUS COIL

For magnetically focused kinescopes having deflection angles up to 50° such as the RCA 10BP4. Large conductor size for corrosion-free operation.  
99N5159.....**1.95**



## BELDEN 60-WATT SOLDERING IRON

Here's a nationally known make iron of excellent quality; for rapid, light duty soldering. Has 1¼" long copper screw-on tip. Long-life element. 6" long shaft permits easy access to far corners. 12" long. 6-ft cord, plug and stand included. 120-v. AC-DC. U/L app.  
**1.49**



99N8007.....**1.49**  
99N8011—Extra Tip for above.....**.22c**  
99N8012—Extra Element for above iron.....**.69c**

## STEATITE NEUTRALIZING CONDENSER

Variable from 3 to 11 mmfd. by plunger action. For neutralizing low power amplifier stages. Mounts in 3/8" hole.  
99N3171—10 for 45c..... Each **5c**

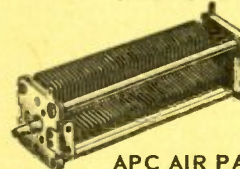


## 4-SECTION CONDENSER FOR FM-AM



Two FM sections, each 18.5-1.2. AM RF section, 420 maximum; AM oscillator section 162 maximum. Each section has a trimmer; also featured are aluminum plates, ball bearings, ¼" shaft and low-loss insulation.  
99N3579.....**98c**

## SINGLE SECTION CONDENSER



Capacity 500 mmfd. Ideal for low or medium power transmitters, and test equipment. Steatite insulation. 2x1-7/8x6-5/8".  
99N3571—Shpg. Wt. 2 lbs..**69c**

## APC AIR PADDER CONDENSERS

Ceramic insulated air padder condensers ideal for oscillator circuits, IF transformers, fixed tuned circuits, etc. which require constant capacity. Screwdriver slot adjustments.  
99N3511—25 mmfd.....**14c**  
99N3206—35 mmfd.....**14c**



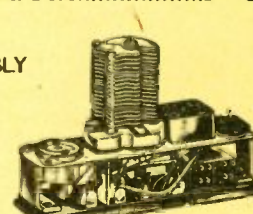
## JOHNSON VARIABLE CONDENSER



Rugged compact unit for use in medium, low power transmitters. .032" thick aluminum plates. Steatite insulation. Heavy phosphor bronze contact springs. Capacity 12 mmfd. to 244 mmfd. .045" spacing. Approximate breakdown voltage is 2000 volts. Slotted shaft ¼" dia. ¼" long.  
99N3572—Shpg. Wt. 2 lbs.....**79c**

## SPECIAL FOUNDATION ASSEMBLY

For transmitter or receiver. Metal frame, 10 contact female receptacle. 140 mmfd. variable condenser at top. Coil socket, dual crystal socket, male contact. Spring locking clip. Size: 4 x 1¼ x 2¼".  
99N3553—Shpg. Wt. 1 lb....**22c**



## WIRT VARIABLE REGULATOR



Use with any 110 volt AC instrument to compensate for irregular line voltage. 65 watt unit adjustable to five positions.  
98N12521—65 Watt.....**59c**

## VOLTAGE DIVIDER KIT

Kit contains 10 wire wound resistors with moulded bakelite cases. Metal mounting strap conducts heat from unit without shorting. This kit will fill your need for voltage dividers at a low price.  
99N265.....**69c**





# HARD-TO-BEAT BARGAINS

## LINE CORD RESISTORS



Rated at .3 amps for radios, phonograph oscillator, etc.  
 99N2938—135 ohms..... **39c**  
 99N2939—180 ohms..... 39c  
 99N2940—220 ohms..... 39c

## 220 TO 110 VOLT LINE CORDS



Standard plug and receptacle. 300 ohm for sets using .3 amp tubes, 50 ma plate supply. Total capacity 350 ma.  
 99N2941..... } **98c**  
 99N2942—Same but foreign plug... }  
 560 ohm for sets using .15 amp tubes, 50 ma plate supply. Total cap. 200 ma. **98c**  
 99N2943..... **98c**

## ATTACHMENT PLUG BASE

Brown bakelite in the usual strong Rodale construction. "Female" type. Screws into standard socket.  
 99N299..... Each, **6c**  
 10 for..... **54c**



## AC RECEPTACLE

Quality standard single AC receptacle. Fits 1 1/2" dia. hole. Metal mtg. strip. 1 3/8" ctrs.  
 99N281..... Each **12c**  
 10 for..... **1.08**



## SUPER SAVINGS

### Octal Base Tube Sockets

#### 6-PIN SOCKET

Octal socket. 1 1/2 inch mounting center. Pins number 4, 6, blank.  
 99N13180—Each **4c**  
 10 for..... **30c**



#### COMPOUND TYPE

Flush mtg. phenolic compound socket in steel saddle. With 4 grounding lugs, silver-plated contacts.  
 99N6979—Each..... **5c**  
 10 for..... **43c**



#### CERAMIC SOCKET

Heavy-duty, octal socket. 1 1/2" mounting centers. Silver-plated cylindrical pin contacts. Ceramic body in steel shell. 4 lugs.  
 98N13109—Each..... **7c**  
 10 for..... **63c**



#### TUBE SHIELDS

Highest quality all aluminum tube shields for use with 154, 1R5, 1T4, etc. Has retainer spring inside. 3/4" dia. x 1 3/4" deep.  
 99N7020—Each..... **4c**  
 10 for..... **30c**




**SPECIAL FEATURE!**

**UNIVERSAL 6 VOLT VIBRATOR**  
 Popular brand name vibrator. Replacement for Mallory 294, 4-4, Radiart 5300, SO-1, Utah NP-42, Delco 5,040,000, 5,052,378 and Meissner EO1.  
 99N3950..... **98c**

## VIBRATOR REPLACEMENTS



High-quality vibrator replacement for General Electric 2-vol' sets, Model 530. A real bargain price!

Stock No.	Replaces		Each
	Mallory	Radiart	
99N3951	854	5331	<b>98c</b>
99N3952	505P	5320P	
99N3953	249	5406	
99N3954	246	5411	
99N3958	245	5409	
99N3971	1100		

99N3969..... **1.25**

## 12-VOLT VIBRATOR

Amazing value in a vibrator replacement brought to you by Lafayette's tremendous purchasing power. 12-volt, 4-prong non-synchronous. Replaces the Mallory G826 or equivalent. Can size, 1 1/2" dia., 3 1/4" ht.  
 99N3970..... **19c**

## 24-VOLT VIBRATOR

Here's the celebrated Mallory vibrator at a give-away price! M561C replacement vibrator. 5-prong base, 24-volt battery synchronous vibrator. Long-life and trouble-free service. Can size: 1 1/2 x 3 1/2".  
 99N3967..... **19c**

## AUTO SPEAKER SPECIALS

These speakers are ideal for auto replacement. Field coil type, 6 v. Shpg. wt., 2 1/2 lbs.  
 99N7024—6" Speaker **2.47**  
 99N7026—8" Speaker..... **2.25**



## AUTO RADIO ANTENNA

Bargain special, three section, triple chrome-plated side cowl auto antenna. Stainless steel rod section and solid brass tubing. Brass tubes tapered to keep moisture and dust out. Extends from 25-inches to 66-inches. High quality bakelite mounting insulators prevent signal shorting to car body. Complete with 32-inch fool-proof low loss shielded cable and necessary mounting hdwe.  
 99N9596..... **1.49**



## AUTO RADIO SUPPRESSORS

High quality, elbow cable type, spark plug noise suppressor. In black molded case.  
 99N302—10 for 72c..... Each **8c**



## ANTENNA CABLE

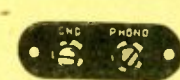
Heavy phosphor bronze antenna cable at special bargain price. Approximately 115 foot roll of 42 strand cable with strong linen core.  
 99N5140—5 for 3.00..... Each **69c**



## 50-FT. ROLL CABLE

Durable plastic insulated 4 conductor intercom cable. Color codea conductors are of No. 22 solid wire. Can be easily unstranded and used as radio hookup wire.  
 99N5139—Shpg. Wt. 1 lb..... **99c**

## TERMINAL STRIP



High quality Phenolic insulation with two screw type lug terminals. Terminals marked Gnd. and Phono.  
 99N280—10 for 35c..... Each **4c**

99N280—10 for 35c..... Each **4c**

## TWIN TIP JACK

High-quality twin tip jack on laminated strip.  
 99C4231..... Each **5c**  
 10 for..... **45c**



## DPDT SLIDE SWITCH



Double pole, double throw slide switch with spring return. Spring may be easily removed if desired.  
 99N4230—Each..... **10c**  
 10 for..... **90c**

## Z-O TWO METER CHOKE



High frequency solenoid choke. Designed to prevent resonance in the 2 meter band. Rated at 2 mh. and 1 amp. DC resistance 0.19 ohms. 1 3/4" lg. and 1/4" dia. Pigtail leads 1 1/2" long. Insulated and protected by moisture proof coating.  
 99N3576—6 for 25c..... Each **5c**

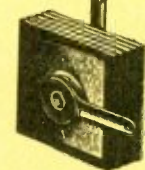
99N3576—6 for 25c..... Each **5c**

## SPRING LID LIFT



Heavy duty spring type lid lift. Spring tension adjustable to counter-balance any type lid. For right hand cabinet mounting.  
 99N6995..... **99c**

## SELENIUM RECTIFIER



No warm-up period. Saves space. Only 1 1/4 x 1 1/4 x 1 1/16". Fits where tubes won't. Two rectifiers may be connected as a voltage doubler to supply 250 V. at 80 ma from 117 V. AC power supply.  
 98N10560..... **65c**

98N10560..... **65c**

## INTERMEDIATE FREQUENCY TRANSFORMER

High gain, permeability tuned. 375 KC normal peak, satisfactory operation at 455 KC peak. Screwdriver slot adjustments—one on top, one on bottom. 5 solder lug terminals on bottom. 1 1/2 x 1 1/2 x 2 1/4". 2 spade mounting studs 6-32 x 3/8" on 1 3/8" mounting centers.  
 99N5129—Each..... **39c**  
 10 for..... **3.50**





# OUTSTANDING BARGAINS

## DELCO VOLUME CONTROLS

Ultra compact controls featuring quiet composition elements, attachable switches and plug-in type shafts. All are 1/2" thick, 1 1/16" dia. Complete with 4" shaft.

### DELCO VOLUME CONTROL TAPERS

- For audio or antenna shunt circuits.
- For series circuits.
- Linear taper; for volt. div. circuits.

Stock No.	Delco Type	Ohms	Taper	Each	Lots/6 Ea.
99N2150	8101	12,000	1	<b>22c</b>	<b>19c</b>
99N2151	8104	15,000	1		
99N2152	8106	25,000	1		
99N2153	8108	25,000	4		
99N2154	8109	45,000	1		
99N2155	8110	50,000	2	<b>24c</b>	<b>22c</b>
99N2156	8112	75,000	1		
99N2157	8116	100,000	4		
99N2159	8119	250,000	1		
99N2161	8114	500,000	1	<b>27c</b>	<b>24c</b>
99N2162	8124	600,000	4		
99N2164	8123	750,000	1		
99N2165	8128	1 Meg.	1		
99N2167	8130	2 Meg.	1		
99N2168	8075	3 Meg.	1		

### TAPPED CONTROLS

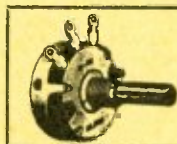
No.	Delco	Ohms	Tapped at	Each	Lot/6 Ea.
99N2170	8151	250,000	50,000	<b>29c</b>	<b>27c</b>
99N2172	8156	500,000	100,000		
99N2173	8159	500,000	150,000		
99N2175	8162	1 Meg.	50,000		
99N2176	8163	1 Meg.	100,000		
99N2178	8165	1 Meg.	250,000		
99N2179	8168	1 Meg.	500,000		
99N2180	8173	2 Meg.	250,000		

### SWITCHES FOR ABOVE

- 99N2181—SPST Snap Switch ..... lots of 6, 7c ea. .... Each 8c  
 99N2182—SPST With Tie Lug Switch ..... lots of 6 7c ea. .... Each 8c  
 99N2183—DPST Snap On Switch ..... lots of 6, 7c ea. .... Each 8c

Following Delco controls are same as above except that they have fixed covers—and do not take the attachable switch.

No.	Delco	Ohms	Tapped at	Taper	Each	Lots/6 Ea.
99N2158	8117	125,000		1	<b>22c</b>	<b>19c</b>
99N2160	8121	300,000		1		
99N2163	8125	600,000		1		
99N2166	8129	1 Meg.		1		
99N2169	8154	150,000	80,000		<b>27c</b>	<b>24c</b>
99N2171	8164	350,000	50,000			
99N2174	8161	500,000	200,000			
99N2177	8166	1 Meg.	200,000			



### 1/2-MEG CONTROL WITH SWITCH

Full length shaft. Compact, sturdy construction. 500,000 ohms resistance, with switch. Three solder lug terminals.

99N2140 ..... **29c**

### DUAL POTENTIOMETER

Enclosed smooth action carbon type controls. Front section 2 megohms, rear section 40,000 ohms. 3/8"-32 threaded bushing.

99N8137—Lots/10 Ea. 19c Each, Singly **15c**

### POPULAR SIZE VOLUME CONTROLS

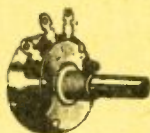
Servicemen, experimenters stock up now on these popular size volume controls at these unbelievable low prices. Standard 1/4" dia. shafts, approx. 1 1/2" long.

99N2114—500 ohms ..... Each  
 99N2116—75,000 ohms ..... **8c**  
 99N2117—100,000 ohms ..... )  
 99N2118—200,000 ohms ..... ) 10 for  
 99N2119—Dual 600 ohms ..... **72c**

### 25-WATT POWER RHEOSTAT

Popular brand power rheostat at a special bargain price. Ceramic and glazed porcelain construction throughout. 3/8" dia. bushing. 1/4" dia. x 1/2" shaft.

99N2122—20 ohm ..... **49c**  
 99N2121—5000 ohm ..... **69c**

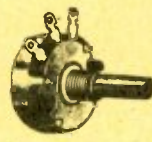


## SPECIAL FEATURE!

### RELIANCE VOLUME CONTROLS

Full length shft. Stand. 3/8" bushing. Switches are affixed, SPST.

Less Switch	With Switch	Res. Ohms	Taper
98N8112	98N8123	25,000	Linear, for voltage-divider circuits
98N8115	98N8119	50,000	Linear, for voltage-divider circuits
98N8114	98N8129	100,000	Linear, for voltage-divider circuits
98N8116	98N8120	250,000	Linear, for voltage-divider circuits
98N8117	98N8121	500,000	Linear, for voltage-divider circuits
98N8113	98N8126	500,000	For audio or antenna shunt circuits.
98N8118	98N8122	1 megohm	Linear, for voltage-divider circuits.
98N8105	98N8127	1 megohm	For audio or antenna shunt circuits.
98N8111	98N8133	2 megohm	For audio or antenna shunt circuits.
Less Switch—Each			<b>32c</b>
With Switch—Each			<b>42c</b>



### WIRE WOUND VOLUME CONTROL

1. Smooth acting wire wound 1000 ohm, 4 watt, 3/8"-32 threaded bushings, 1/4" x 3/8" shafts. Body dia. 1 3/8" x 5/8".

99N2096—Each, **19c** ..... Each, Lots of 10, **17c**

### POTENTIOMETER

2. Fully enclosed carbon type control. 3/8"-32 threaded bushing. 13,000 ohms, 1 1/8" dia. x 1/2". Shaft 1/4" dia. x 1/2".

98N8158—Each, **10c** ..... Each, Lots of 10, **8c**

### POTENTIOMETER WITH SWITCH

3. 160 ohm 4 watt, insulated rotor and switch. Straight taper. 3/8" thr. bush. 1/2" shaft. 3/8" bush. Snap-on switch.

98N8142—Each, **15c** ..... Each, Lots of 10, **12c**

### CARBON VOLUME CONTROL

1. Compact 1 1/8" dia. 1/2" deep. 1 Megohm, less switch. 1/2" shaft 1 1/2" lg. Potentiometer taper. Requires 1/2" behind panel.

99N2041—Each, **19c** ..... Each, Lots of 10, **17c**

### 9 WATT POTENTIOMETER

4. Smooth acting 185 ohm control, with S.P.S.T. switch. 2 1/8" dia. x 1". Shaft 1/4" lg. 3/8"-32 threaded mounting bushings.

98N8143—Ea. **12c**; Lots/10, Ea. **10c**

### 1000 OHM POTENTIOMETER

5. Fully enclosed smooth action carbon type control. Body 1" diameter x 1/2" deep. Shaft 1/4" diameter x 1 3/4" long.

98N8108—Each **18c** ..... Lots of 10, Each **15c**

### 1000 OHM POTENTIOMETER

6. Nationally known. With S.P.S.T. switch. 3/8"-32 threaded mounting bushings, solder lug terminals. Body 1" dia. x 7/8". Shaft 1/4" dia. x 1 3/4" long.

98N8124—Ea. **25c**; Lots/10, Ea. **22c**

### WIRE WOUND POTENTIOMETER

7. Smooth acting control. 200 ohm, 2 watt wire wound potentiometer. Body size: 1 1/4" diameter x 3/8" deep. Shaft: 3/4" x 1/4" diameter. Standard 3/8"-32 threaded mounting bushing.

98N6350—Each **10c** ..... Lots/10, Each **8c**

### 3 WATT RHEOSTAT

An exceptional value, smooth acting 20 ohm wire wound control. 1/4" dia. x 3/4" long flattened shaft. 1 1/8" dia. x 3/8".

98N8163—Each **6c** ..... Lots 10/, Each **5c**



# MORE FOR EVERY DOLLAR

**WARD TV ANTENNA**

Special Value!

ONLY **6.45** List Price \$27.00

Receives all TV channels plus FM. Range 44-108 MC on LF Array; 174-220 MC on HF Array. Average gain, 2.5 D.B. on LF Array; 1.5 D.B. on HF Array. Aove tuned dipole. Arrays electronically separated by patented divider network, and individually rotatable for maximum signal strength. Lightweight tempered aluminum alloy.

99N9612—Wt. 14 lbs. **6.45**

## SENSATIONAL PRICE SLASH!



STRONGER TV SIGNAL WITH "TELEMATCH"

Was 5.559

NOW **1.95**

Gives the maximum transfer of television signals by matching the antenna to the receiver. Simple to install. Just fasten to antenna posts on back of your set and rotate control knob for most satisfactory picture.

99N24439—New Low Price **1.95**



### THREE-CONDUCTOR CABLE

3-circuit mike plug PL-68 connected to rubber-covered 3-conductor 4' cord. Terminates in two connecting lugs, tinned ground lead, and tie cord fastened to eye-hole lug. Flexible and durable.

99N5145 **19c**

### LOW-COST JACK BOX

Consists of one 3-circuit jack, one 150M potentiometer and 5 position rotary switch enclosed in aluminum case 4 1/2" long, 3" wide, 3" high. Complete with knobs.

99N3959—Shpg. wt. 2 lbs. **25c**

### SHIELDED PHONO CABLE

High quality flexible #24 shielded phono pickup cable. Cotton braided overall.

99N5161—1.50/100 ft. Per Ft. **2c**



### TRANSMITTING KEY

General purpose transmitting key on a heavy die cast base, all mounted on a swinging bracket with high clamp. 1/8" pure silver contacts. Key can be easily removed from clamp. Adjustable bearings. Supplied with 5-foot cable and PL-55 phone plug.

99N4034—Each **39c**



### POWER WIREWOUND RESISTORS

Excellent quality; include famous brand names. Some cement coated; others vitreous enameled.

No.	Watts	Ohms	Each	Lots 10/ea.
99N135	5	1,000	.06	.05
99N268	8	10,000	.08	.06
99N122	10	10	.09	.07
99N123	10	100	.09	.07
99N310	10	400	.09	.07
99N311	10	500	.09	.07
99N312	10	1,000	.09	.07
99N124	10	4,000	.09	.07
99N313	20	500	.15	.13
99N314	20	2,250	.15	.13
99N315	20	5,000	.15	.13

### 50-WATT ADJUSTABLE RESISTORS



WIRE WOUND

Vitreous enameled on porcelain cores with a strip of wire exposed to form contact. With slider and mtg. brackets.

99N316—2 Ohms **59c**  
99N317—1000 Ohms **59c**

### INSULATED CARBON RESISTORS



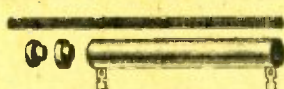
Insulated. RMA color coded. Guaranteed 10% tolerance.

Stock No.	Watts	Ohms	Each	Lots 10
99N318*	1/2	470	02c	1.50
99N319*	1/2	33000	02c	1.50
99N320	1/2	1 Meg.	02c	1.50
99N321	1	1000	03c	2.25
99N322	1	12000	03c	2.25
99N323†	2	68	08c	7.00

\*Allen Bradley

†Wirewound

### KOOL OHM 120-WATT RESISTOR



Heavy duty, 10,000 ohm, 120-watt wirewound resistor. Large surface area for heat dissipation. 1 1/16" dia. x 8 15/16". With rod and mounting hardware.

99N269 **19c**

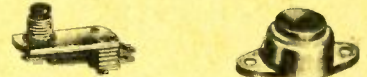
### UNSHIELDED R. F. CHOKES

All-purpose chokes. Universal wound, accurately rated. Thoroughly impregnated. Give trouble-free service.



99N10133—2.5 Mh. **16c**

### PUSH BUTTON SWITCHES



7. Solder lug term. Leaf spring momentary action. Requires 3/8" behind panel. **17c**  
99N4175—SPDT

99N4181—DPDT **29c**  
8. Mounts on surface. 1 3/4" mtg. centers. 2 1/8 x 3 1/8 x 7/8" high screw terminals.  
99N4176—Shpg. wt. 2 oz. **12c**

### MINIATURE SOCKET



Molded bakelite; for 7 pin miniatures. Fits 1R5, 1T5, 1S4, 1S5. Metal mtg. shell, 22-mtg. holes on 7/8" ctrs.

99N282—Each **7c**  
10 for **63c**

### CERAMIC SOCKETS

Low loss. Top and sides glazed. Reinforced springs 2 1/4" long, 1 5/8" wide. Centers 1-27/32".



No.	Prongs	Each	10 for
99N13065	5	9c	80c
99N13067	7s	9c	80c

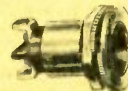
### MOLDED SOCKETS



Sockets are made of molded bakelite for top mounting or sub-panel mounting. Positive contacts have 1-11/16 inches mounting centers.

No.	Prongs	Each	10 for
99N13090	4	9c	80c
99N13091	5	9c	80c
99N13092	6	9c	80c
99N13093	7L-S	9c	80c

### PILOT LIGHT SOCKET



Two-contact bayonet-type socket. Requires 3/4" dia. hole for mounting flange. With retaining ring, 2 solder lugs.

99N247—Each **15c**  
10 for **1.35**

### NEON GLOW LAMP



1/4 watt. Two-contact bayonet-type base. Resistorless type for 105-125 V. AC-DC. AC starting voltage 65, DC, 90. For test instruments.

99N303—Each **10c**

### ARGON BLUE GLOW LAMP



Blue glow 2 1/2 watt lamp. Used in newest photographic contact printers, useful as nite-lite. Starting voltage AC 65, DC 90. For Edison type socket.

99N12279 **19c**

### 1/4" SHAFT FLEXIBLE COUPLING



Four coupling two 1/4" dia. shafts or for making shaft extensions. Insul. **18c**  
99N246—Ea **18c**  
10 for **1.60**

### DIAL SCALE

2 1/2 x 3 1/4" rectangular dial scale for right hand closing broadcast band condensers. Figures from 55 to 170. For AC-DC sets, small portables.

99N147 **5c**  
10 for **40c**



### DIAL CRYSTAL

Formed and stamped one-piece dome type plastic crystal for above dial scale. Water-white with 3/4" space for pointer.

99N146—10 for **40c** Each, **5c**

### PILOT LAMP SHADE

Fits tubular type pilot lamps.

99N248—Each **3c**  
10 for **20c** 100 for **1.00**



INQUIRIES WELCOMED ON ITEMS NOT IN CATALOG



# SOLAR CONDENSERS UP TO 95% DISCOUNT



## TYPE DY "TWIST PRONG" MOUNTING

A standard metal cased unit. Hermetically sealed base assures long life, proper venting and great rigidity. Ideal for many types of service. Light in weight, compact. They save assembly space and time. Terminal codes clearly stamped on case.

No.	Cap. Mfd.	Volts	Each	
99N3400	5000	1.5	<b>14c</b>	
99N3401	2000	6		
99N3402	100	50		
99N3403	15	250		
99N3404	80	350	10 For	
99N3405	20-20	25	<b>1.25</b>	
99N3406	40-40	25		
99N3407	20-10	150	<b>19c</b>	
99N3408	30-20	150		
99N3409	50-50	150	10 For	
99N3410	40/20	150/25	<b>1.75</b>	
99N3411	40-40	200		
99N3412	20-20	350	<b>22c</b>	
99N3413	30-30	350		
99N3414	15-15	400		
99N3415	20/20	400/25		
99N3416	40/50	400/300		
99N3417	16-16	450		
99N3418	30-30	450		
99N3419	40-15	450		
99N3420	40-40	450		
99N3421	20/25	450/25		
99N3422	15/15	450/350		
99N3423	20-20-20	25		
99N3424	20-20-20	150	<b>25c</b>	
99N3425	40-20-10	150		
99N3426	40-20-20	150	10 For	
99N3427	40-40-40	150	<b>2.25</b>	
99N3428	60-40-20	150		
99N3429	10-10-10	450		
99N3430	20-10-10	450	<b>25¢</b>	
99N3431	20-20-20	450		
99N3432	15-15/1200	150/1.5	10 for	
99N3433	40-20/100	150/10		
99N3434	10-10/10	150/25	2.25	
99N3435	10-10/20	150/25		
99N3436	20-10/10	150/25	<b>25¢</b>	
99N3437	20-10/20	150/25		
99N3438	20-20/20	150/25	10 for	
99N3439	30-20/10	150/25		
99N3440	30-20/20	150/25	2.25	
99N3441	30-50/100	150/25		
99N3442	40-20/100	150/25	<b>25c</b>	
99N3443	40-40/20	150/25		
99N3444	50-50/20	150/25		
99N3445	50-50/40	150/25		
99N3446	60-40/10	150/25		
99N3447	70-30/150	150/25		
99N3448	50-50/40	200/25		25¢
99N3449	30-20/5	250/200		
99N3450	30-30/25	300/25		10 for
99N3451	80-40/20	300/25		
99N3452	10-15/20	350/25		2.25
99N3453	10-20/20	350/25		

## TYPE DY (continued)

No.	Cap Mfd.	Volts	Price
99N3454	15-15/20	350/25	<b>25¢</b>
99N3455	20-20/20	350/25	
99N3456	30-30/20	350/25	<b>10 for</b>
99N3457	30-30/30	350/25	
99N3458	10-10/20	400/25	2.25
99N3459	20-10/20	400/25	
99N3460	20-20/20	400/25	<b>25c</b>
99N3461	30-10/20	400/25	
99N3462	15-15/20	450/25	10 for
99N3463	15-15/40	450/25	
99N3464	20-20/20	450/25	<b>2.25</b>
99N3465	30-30/20	450/25	
99N3466	40-40/40	450/25	<b>25¢</b>
99N3467	20-20/60	450/350	
99N3468	8-8/8	475/100	<b>10 for</b>
99N3469	30/20/20	350/300/250	
99N3470	15/20/20	400/300/25	2.25
99N3471	40/20/20	400/350/50	
99N3472	10/40/16	450/400/350	<b>25¢</b>
99N3473	40-40-20-2	150.	
99N3474	10-40-40-30	150.	<b>10 for</b>
99N3475	30-15-15-15	300	
99N3476	40-40-20/200	150/10	2.25
99N3477	60-40-20/200	150/10	
99N3478	40-30/100-40	150/25	<b>25¢</b>
99N3479	30-20-20/100	150/25	
99N3480	75-75-75/30	150/25	<b>10 for</b>
99N3481	80-40-30/100	150/25	
99N3482	30-50/20/100	150/50/10	2.25
99N3483	40-40/20/200	150/50/10	
99N3484	50-50-50/25	200/25	<b>25c</b>
99N3485	60-40-20/50	300/25	
99N3486	30-30-15/30	300/50	10 for
99N3487	50-30-10/20	350/25	
99N3488	40-40-20/20	350/25	<b>2.25</b>
99N3489	10-10/10-10	350/300	
99N3490	30-30-15/20	450/50	<b>25¢</b>
99N3491	30-30-15/30	450/50	
99N3492	40-40/5/20	350/250/25	10 for
99N3493	30-30/15/20	350/300/25	
99N3494	10-10/10/20	450/350/25	2.25
99N3495	30/20/10/20	350/300/250/25	

## WAX IMPREGNATED CONDENSERS



Single, dual and triple section condensers. Wax impregnated coated cardboard tubes. 5" long color-coded leads.

No.	Cap. Mfd.	Volts	Each	10 for
99N3310	16	450	29c	2.60
99N3311	30-30	300	39c	3.50
99N3312	8-8	450	39c	3.50
99N3313	40-40-12	150	39c	3.50
99N3314	80-40-20	150	39c	3.50
99N3315	100-20/200	150/10	39c	3.50
99N3316	80-20/100	150/15	39c	3.50
99N3317	20-10/5	150/25	25c	2.25
99N3318	40-20/20	150/25	39c	3.50
99N3320	40-40/50	150/25	39c	3.50
99N3321	50-20/10	150/25	39c	3.50
99N3322	50-50/20	150/25	39c	3.50
99N3323	60-30/150	150/25	39c	3.50
99N3324	20-16/10	200/25	29c	2.60
99N3325	8-8/25	450/25	39c	3.50
99N3326	40-40-40-10	150	39c	3.50
99N3327	30-20-20/25	150/25	39c	3.50
99N3328	20-10-5/50	450/25	29c	2.60

## PLUG-IN DRY ELECTROLYTICS

Type DO. Plugs into octal socket. Aluminum internal construction. Replaces wet electrolytics providing surge voltage does not exceed 525 volts.



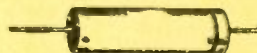
No.	Cap. Mfd.	Volts	Each
99N3329	15-15/20	450/25	<b>25c</b>
99N3330	10-10/20	450/25	



## TYPE D DRY ELECTROLYTICS

High quality, metal cased units. Insulated can unit with flexible leads. Provides excellent protection against humidity. Mounts in 7/8" hole. Less Palmu.

No.	Mfd.	Volts	Each	10 for
99N3331	4	600	39c	3.50
99N3332	8	475	49c	4.40
99N3333	8	600	39c	3.50
99N3334	8-8	450	59c	5.30



## TYPE DT ELECTROLYTICS

Extremely small size units for use where space is limited.

No.	Mfd.	Volts	Each	10 for
99N3335	50	25	10c	90c
99N3336	100	25	10c	90c
99N3337	8	50	8c	72c
99N3338	10	50	10c	90c
99N3339	16	100	8c	72c
99N3340	4	150	8c	72c

## SILVER MICA CONDENSERS

Molded bakelite silver mica condensers. All individually tested for accuracy of capacity, voltage breakdown and leakage. All rated at 500 volts DC working are 1000 volt test, those tested at 300 volts DC working are 600 volt test.

Stk. No.	Mfd.	WVDC	Type	Price
99N3270	.000075	500	O	<b>Each 6c</b>
99N3267	.00005	300	O	
99N3265	.000025	300	O	
99N3272	.0001	300	O	
99N3448	.000125	500	O	
99N3230	.00015	500	O	10 for 54c
99N3502	.00033	500	O	
99N3531	.00082	500	O	Each 8c 10 for 72c
99N3386	.001	300	O	
99N3231	.0011	500	S	<b>Each 15c</b>
99N3232	.0019	500	S	
99N3268	.0022	300	S	
99N3233	.0038	500	S	
99N3271	.0049	300	S	Each 24c 10 for 2.15



## MOLDED BAKELITE MICA CONDENSERS

Stock No.	Mfd.	WVDC	Type	Price
99N3397	.0000047	500	O	<b>Each 4c</b>
99N3485	.000025	500	O	
99N3430	.000027	500	O	
99N3488	.00005	500	O	
99N3489	.000075	500	O	
99N3375	.000125	300	O	
99N3479	.00015	500	S	
99N3491	.00015	500	O	
99N3573	.000175	500	O	
99N3494	.0003	500	O	
99N3496	.0005	500	O	
99N3456	.0005	500	W	Each 5c 10 for 45c
99N3254	.001	500	O	
99N3385	.0068	300	O	Each 6c 10 for 50c



# OUTSTANDING BARGAINS



## SOLAR DI CONDENSERS

Outstanding values at give away prices. 'Twist Prong' type. Hermetically sealed. Other values listed on page 154

Stock No.	Cap MFD	Volt.	Price	
			Each	6 For
99N3355	30-30	150	.19	1.75
99N3356	40-20	150	.19	1.75
99N3357	20-10/50	450/50	.25	2.25

## ELECTROLYTIC CONDENSERS



Top quality electrolytic condensers. Twist prong type. Rated at 100 mfd., 50 working volts DC. Metal can 1" dia. x 2 1/4".  
 99N3216 ..... Each 9c  
 Lots of 10 ..... 79c  
 16 mfd. electrolytic. 500 working volts DC. Can 1 1/8" dia. x 2".  
 99N3218 ..... Each 29c

## OIL FILLED STANDOFF TRANSMITTING CONDENSERS



An excellent buy for Hams. Rectangular metal case. Oil filled and impregnated. Porcelain standoff insulators with solder lugs and locknuts. Hermetically sealed.



Stock No.	MFD	Working Volts	Dimensions H x W x D	Fig.	Shpg. Wt.	Each
99N2316	25	1090	3x3 3/4 x 1"	d	8 oz.	19c
99N3288	4	600	3 3/8 x 1 1/4 x 2 1/2"	A	1 lb.	69c
99N3289	10	600	5 1/2 x 2 3/4 x 1 1/4"	A	2 lbs.	1.20
99N3290	16	600	5 1/4 x 2 3/4 x 2 1/8"	A	3 lbs.	1.95

## OIL IMPREGNATED PAPER CONDENSER



Cylindrical type can, solder lugs. 2 mfd. at 600 V.V. DC. 1 1/2" dia. x 2 3/4".  
 99N3238 ..... 29c

## BARGAINS IN PAPER TUBULARS

Excellent quality paper by-pass condensers at new, unbelievably low prices. Sizes are those most used by servicemen and experimenters.

Stock No.	Cap. MFD	Wkg. Volts	Each	10 For
99N3284	.001	600	.06	.54
99N3297	.01	400	.04	.35
99N3285	.25	600	.09	.81

## SPECIAL CONDENSER VALUES

A great opportunity to save money on condensers. Midgets have bare wire leads. Can types hermetically sealed, spade mounting lugs. Polarity indicated.

Stock No.	MFD	Volts	Each	10 For
99N3222	16	450	.29	2.70
99N3309	10	50	.15	1.35
99N3308	8	150	.12	1.08
99N3307	12	150	.12	1.08
99N3306	16	150	.15	1.35
99N3305	5-5	50	.15	1.35
99N3304	10-10	50	.15	1.35
99N3223	20	150	.19	1.70
99N3225	40	150	.28	2.50
99N3224	20-20	150	.27	2.50
99N3300	30-20	150	.38	3.50
99N3301	40-20	150	.40	3.60
99N3302	40-40	150	.44	3.90
99N3226	50-30	150	.39	3.50

## HI-FREQUENCY ANTENNA



Hi-Frequency Antenna. Designed for use with Signal Corp SCR-522 transmitter-receiver. Ideal for use with high frequency (100-156 MC) amateur equipment. Overall length is approximately 30 inches.  
 99N9581—Shpg. wt. 4 lbs. .... 39c

## MIDGET INPUT XFORMER



6-8 ohms to single grid. Unshielded, with 4 color coded leads. For small PM speaker used as mike. 1 3/8 x 1 1/4"  
 99N5962 ..... 9c  
 Lots of 10 ..... 80c

## TYPE 3AG FUSES

For Radios and Amplifiers



99N287—1/8 amp } 5 for  
 99N285—1/4 amp } 8c  
 99N288—3/4 amp }  
 99N286—1 1/2 amp }  
 Any type ..... 100 for 89c

## HAMMARLUND RF CHOKE



250 mh. 60 ma. DC res. 420 ohm. In heavy plastic case. Type RFC 250. 1 1/4" dia. x 1 3/4".  
 98N8526 ..... 39c

## AIR PADDER CONDENSERS



Ideal for circuits requiring constant capacity under all conditions. 9-100 mmfd. 1 1/8" deep. Fits 1 1/2" dia. forms.  
 98N10091—Each ..... 23c  
 Lots of 10 ..... 1.95

## ACORN TUBE SOCKET



Low loss socket with rugged spring contacts for 954 and 955 tubes. Ceramic construction.  
 99N6980 ..... 5c  
 Lots of 10 ..... 45c

## MOTOR REPLACEMENT CAPACITOR



Oil filled. 3.5 mfd. 330 V. AC. Solder lug.  
 98N2981—2" x 1 3/4" ..... 39c

## OIL IMPREGNATED TUBULARS



Compact, non inductive, low power factor.  
 98N3252—.01 mfd. 1500 DCWV. Each 12c  
 98N3254—.05 mfd. 1000 DCWV ..... 10 for 89c

## OIL-FILLED BATHTUB CONDENSERS



Stock No.	Illust.	MFD	WVDC	Each	10 For
99G3217	A	.25	600	.17	1.35
99G3246	A	.5	600	.19	1.50
99G3248	A	1.0	600	.25	2.25
99G3251	B	.1x.1	600	.15	1.50
99G3260	A	.1x.1x.1	400	.09	.75
99G3259	A	.5x.5	100	.09	.75
99G3250	B	.25	25	.19	1.50

## CARDBOARD ELECTROLYTICS

Compact cardboard tube electrolytics with universal mounting lugs, that can be soldered on top of chassis, anchored with screws or extended through holes in chassis. Separate negative and positive leads sealed in high melting point compound. 450 DCWV.  
 98N2663—8 mfd. Size: 3/4" x 2 1/2" ..... 29c  
 Lots of 10 ..... 2.60



## 25 MFD 25V. METAL TUBULAR CONDENSER



Low voltage, low capacitance condensers for use as filters in low voltage power supplies and in cathode bias circuits. Capacity 25 Mfd. 25 DCWV. Lug terminals. 9/16" dia. x 4 7/8".  
 99N3242 ..... 10c 10 for ..... 90c

## CERAMIC CONDENSERS



Extremely compact and stable. Flash tested at 1400 V, 500 DCWV. Leakage resistance 10M megohms.  
 98N3558—20 mmfd. }  
 98N3558—20 mmfd. ±20%. Size: .45" x .21" ..... } Each 3c  
 98N3559—50 mmfd. ±20%. Size: .45" x .21" ..... } 10 for 25c

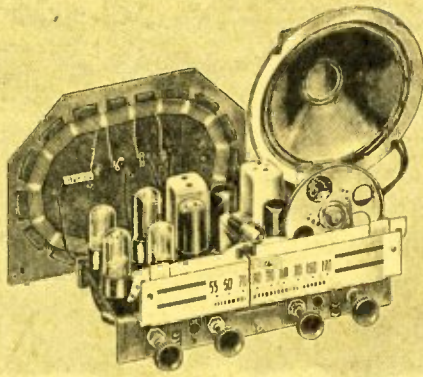
## G.E. 12-VOLT DYNAMOTOR



Excellent for aircraft, mobile transmitters, farm use, etc. 12-volt input at 2.2 amps. 250-volt output at .05 amps. Dimensions: 2 3/4" dia. x 4 1/2" long, 3 7/16" x 7/16" mounting centers. Complete with 8" wire leads.  
 99N9599—Shpg. Wt. 5 lbs. .... 1.95



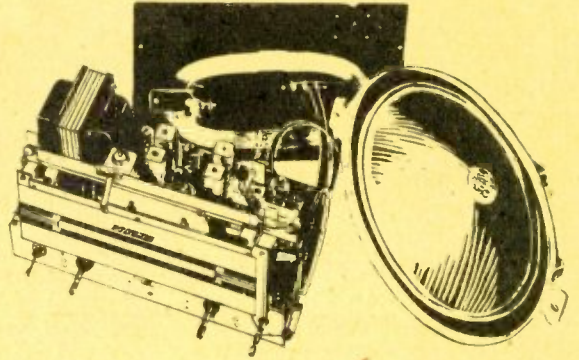
# AM-FM CHASSIS VALUES



## LOW-PRICED DELUXE AM CHASSIS

Save money—install it yourself! Here is a superb-performing radio chassis at a dollar-saving price—a supersensitive superhet radio with 10" speaker for maximum volume and tonal range. Automatic volume control eliminates atmospheric fading and volume rises, maintains listening level you set with manual control. Continuously variable tone control adjusts from deep-throated bass to clear-tone treble. Latest push-pull audio circuit brings you 3 watts output for glorious realism to your radio reception. Built-in loop antenna eliminates trailing wire or outside antennas—provision made for outside antenna should you desire one. Large easy-to-read slide rule dials tunes entire broadcast band. Tubes used: 6SA7, 6SF7, 6SL7, 2-25L6 plus two 25Z6 rectifiers. Overall size: 8" x 11 3/8" x 7".

IN701—Shipping weight 10 pounds..... **24.95**



## NEW FM-AM CHASSIS AND SPEAKER

Here's a powerful, deluxe FM-AM chassis that brings in both your favorite regular broadcast programs plus brilliant, staticless FM—a two-band receiver for the price of one! This is a complete unit, including a built-in power supply and 10" heavy-duty speaker...ready for installation in an existing cabinet or one of your own choosing. Latest type FM-AM circuit of high sensitivity and selectivity. Covers 550 to 1600 KC and 88 to 108 MC bands. Large easy-to-read slide rule dial makes tuning simple and fast. Other features include a built-in loop for standard broadcast reception and connector for external FM antenna. Also has a 3-position tone control and FM-AM bandswitch. An input jack is provided for connection of a record player. Tubes: 12AT7, 6BE-6, (2) 6BA6, 6AQ5, 6AT6, 6AL5 and 6X4. For 110 V, 60-cycle AC.

1N820—Shipping Weight 20 lbs..... **47.50**

## DOLLAR SAVING TUBE SALE!!



## DOLLAR SAVING TUBE SALE!!

Some are boxed, some are bulk, but they are all name brands, fully guaranteed tubes such as GE, RCA, Sylvania, etc. Quantities limited.

Type	Each
1S5	59¢
3Q4	49¢
6AG5	89¢
6AL5	81¢
6AT6	67¢
6H6	49¢
6K7	59¢
6SA7GT	67¢
6SC7	67¢
6SG7	67¢
6S17	62¢
6SQ7GT	62¢
6V6GT	59¢
12A6	79¢
12SA7GT	69¢
12SG7GT	62¢
12SK7GT	63¢
12SQ7GT	63¢
14B6	59¢
35B5	67¢
35L6GT	67¢
35Y4	59¢
35Z5GT	49¢
50B5	67¢
50L6	69¢

## SPECIAL PURPOSE TUBES

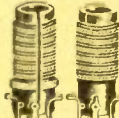
99N2905—0D3/VR150...Lot 10/Ea.	39¢
	Ea. 44¢
99N2903—954.....Lot 10/Ea.	26¢
	Ea. 29¢
99N2904—Einac 15E...Lot 10/Ea.	80¢
	Ea. 89¢
99N2902—7193.....Lot 10/Ea.	16¢
	Ea. 19¢



## IF TRANSFORMER SPECIAL!

Air core, condenser tuned, shielded IF. 456 KC normal peak. Standard spade mtg. lugs. Can size: 1 3/8" x 1 3/8" x 3".

98N10069—Input..... Each  
98N10070—Output..... **39¢**



## LITZ WOUND AC-DC COILS

Hi-gain, unshielded. 175-550 meters. Hi-impedance pri., 4 bank Litz wound sec. Tunes with .000365 mfd. cond.

98N10012—Antenna Coil..... **32¢**  
98N10095—R. F. Coil..... 32¢



## TRIMMER ASSORTMENT

20 Assorted Trimmers, Padders. Most are standard ceramic.

98N10203..... **29¢**



## 5-PUSH-BUTTON SWITCH

Each button DPDT; all common in normal position. Shafts extend 2 1/4".

98N12592—Lots/10.49..Ea. **6¢**



## MIDGET KNIFE SWITCH

DPST panel mount. 1 1/2"x1". With mounting nuts.

99N4232..... **15¢**

As above, except SPDT.

99N4233..... **12¢**



## Plate Load Relay

Heavy-duty 6000 ohms SPST. Normally open. Rated 10 amps at 110° V. 2 1/2"x1 5/8"x1". Mtg. centers 2 5/8".

99N3978..... **89¢**



## ALL-AMERICAN TUBE KIT

Popular replacement kit of five standard brand tubes. Includes one each of 50L6, 35Z5, 12SQ7, and 12SK7 tubes. A real bargain in replacement tubes. Wt: 3 lbs. List Price 6.95.

99N9549..... **2.96**

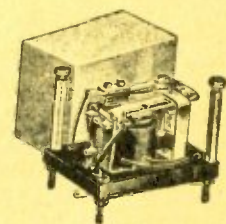
## ADJUSTABLE S.P.D.T. RELAY



Sensitive relay, 2000 ohm coil. For plate circuits, photocell applications. Min. pull-in current only 2.5 ma. 2 mtg. holes. 3 3/8" x 2 1/8" x 2 1/8".

99N4033.. **1.49**

## SPECIAL RELAY



45 V DC relay, 2000 ohm coil. Contacts: one set of SPDT rated 50 amps, at 6 volts to 20 amps, at 110 volts, and one set of SPST normally open contacts rated 5 amps at 6 volts to 2 amps, at 110 V. Excellent for tube circuits, photocell alarm systems, hosts of other applications. 3 1/2" x 2 1/4" x 3 5/8". Dust cover, mounting screws, and wiring diagram.

99N3983..... **89¢**

## 4 P.D.T. 24 VOLT RELAY



1/8" pure silver contacts rated at 3 amps. 110 volts AC. 250 ohms DC coil for 24 volt operation. 6-32 threaded mounting holes on 1 1/8" mounting centers. Size: 2x1 1/2"x1 1/8".

99N3996..... **49¢**

## S.P.D.T. RELAY



SPDT contacts of 3/8" diameter fine silver, rated at 550 watts non-inductive load at 60 cycles. Coil operates on 19 to 29 volts 50-60 cycle AC, DC resistance of 50 ohms, 1500 volt insulation. 2 1/4"x1 1/8"x1 1/8".

98N5950..... **69¢**



# PACKAGED HARDWARE

## ASST. MACHINE SCREWS

All standard sizes used in electronic and similar work in handy inexpensive assortment. Contains approximately 40 Nos. 6, 8, 10 screws  $\frac{1}{4}$ " to 1" long.  
 17N15456—Assortment.  
 17N15457—6-32x $\frac{3}{8}$ , pkg. of 35.  
 17N15458—8-32x $\frac{1}{2}$ , pkg. of 35.  
 17N15459—8-32x $\frac{1}{2}$ , pkg. of 30.

## SMALL SCREWS AND NUTS

Special assortment of extra small screws and nuts Nos. 2 and 4 needed in electronic and experimental work; for fastening small parts, and for replacing rivets. Approximately 30 assorted screws and 30 assorted nuts.  
 17N15455—

## SELF TAPPING SCREWS

Cut their own thread in either metal or plastic. Ideal for mounting parts on chassis, replacing rivets and eyelets. Package of approx. 30 assorted sizes.  
 17N15450—Assortment.  
 17N15451—Pkg. app. 25, size 6x $\frac{3}{8}$ .  
 17N15452—Pkg. app. 25, size 8x $\frac{3}{8}$ .

## PHONO PICK-UP SCREWS

Knurled head steel screws, antique rubber. For popular pick-ups and recording heads. Approx. 10 ass't.  
 17N15408—

## WOOD SCREW ASSORTMENT

Handy assortment for workshop or home. Contains approximately 30 round and flat-head screws of popular sizes in brass and steel to meet all your requirements.  
 17N15453—

## ORNAMENTAL SCREWS

Real value! Antique bronze finished roseette head screws for mounting speakers and other radio installations. Pkg. contains 15 ass't. sizes.  
 17N15449—

## SPADE BOLTS

Indispensable for attaching condenser coils, IF cans, for Experimenters, Servicemen and manufacturers. Stud size 6-32. Hole size No. 6. Package of approx. 25 assorted lengths.  
 17N15443—

## SMALL SCREW ASSORTMENT

Handy assortment for home or work, shop. Contains approx. 30 small brass & steel wood screws sizes 1 to 3 up to  $\frac{3}{8}$ " for name plates and escutcheons.  
 17N15454—

## RUBBER FEET

Made of all resistant synthetic rubber for radio phonograph and amplifier bases. Screw or tack type. Package of 12 assorted screw type.  
 17N15407—  
 Pkg. of assort. tack type.  
 17N15408—

## SNAP-IN TRIMOUNTS

To fasten dial scales, loop antennas and backs on plastic cabinets, etc. Pkg. of 30 ass't.  
 17N14839—

## HOLE PLUGS

10 assorted size snap button hole plugs up to 1/16" thick. Per. 10 ass't.  
 17N14837—

## VENTILATING PLUGS

For chassis, amplifiers, racks, transmitters, etc. Snaps into 1" hole. Pkg. of 2 plugs.  
 17N15460—



## TERMINAL LUGS

Available in 6 popular sizes for radio and electronic work. Tinned brass.

Stock No.	Fig. No.	Approx. No.
17N15419	Asst.	40
17N15420	2	30
17N15421	2	25
17N15422	3	25
17N15423	4	25
17N15424	5	25
17N15425	6	40

## RADIO KNOB SPRING



Finest grade selected steel springs in all regular sizes and shapes. Package of approximately 16 assorted.  
 17N15437—

## SPECIAL MOUNTING NUTS



Various kinds of nuts used on volume controls, switches, etc. Cadmium or nickel plated. App. 15 ass't.  
 17N15445—

## EXPANSION SPRINGS

Handy for radio, electrical shops, laboratories. Assortments contain various sizes for record changers and dial drives.  
 17N15434—10 Ass't. large springs.  
 17N15435—10 Ass't. small springs.

## FUSE CLIPS



Made of nickel plated spring brass for single hole mounting. Pkg. 10 assorted.  
 17N15426—

## MACHINE SCREW NUTS



"Small Pattern" nuts for electric trades. Cadmium plated.

17N15446	Asst.	35
17N15447	6-32	35
17N15448	8-32	30

## ACORN NUTS



Improves appearance on panel assemblies and cabinets. Pal type steel nuts, self locking. Cadmium plated. Pkg. of 12 ass't.  
 17N15444—

## CHASSIS MOUNTS



Long lasting resilient synthetic rubber. To give chassis floating effect. Pkg. of 10 assorted.  
 17N15432—

## PHONO MOTOR DRIVES



Precision-made replacements for standard motor drives. Made of abrasion-resistant synthetic rubber to insure long, serviceable wear.

No.	I.D.	O.D.	Thick	Per pkg.
17N15413	2"	2 $\frac{3}{8}$ "	5/32"	2
17N15414	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	3/16"	2
17N15415	$\frac{7}{8}$ "	1 $\frac{1}{8}$ "	3/16"	3
17N15418	$\frac{1}{4}$ "	$\frac{9}{8}$ "	1/4"	4
17N15417	5/4"	6"	3/16"	1

## CORD STRAIN RELIEFS



Provides a grommet and strain relief in one piece. For use on appliance, radio and amplifier power cords. Will prevent insulation of wire from being cut or damaged. Package of 4.  
 17N15431—

## ANGLE BRACKETS



Handy brackets of various lengths and shapes. Precision made of steel, or brass and plated. Pkg. of approximately 15 ass'd.  
 17N15418—

## KEY WRENCHES



Three assortments of key wrenches to fit all standard Hex and spline socket screws used in radio and electronic equipment. A "must" for the serviceman!

Ass't. of 4 small Hex wrenches to fit set screws No. 4 to 1/4", cap screws No. 2 to 8.  
 17N15410—

Assortment of 3 medium Hex wrenches to fit set screws 1/4" to 7/16" and cap screws No. 8 to 5/16".  
 17N15411—

Ass't. of 4 small spline wrenches to fit set screws 1/4"-7/16"; cap screws No. 8 to 5/16".  
 17N15412—

# 24¢

ANY ITEM

ON THIS PAGE

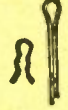
# 24¢

## SPACERS



Assortment of metal and insulating spacers. Accommodates No. 6 and No. 8 screws.  
 17N15402—App. 12 ass't. insulat  
 17N15403—App. 12 ass't. metal

## SMALL COTTER & HAIRPINS



Assortment of most popular sizes of cotter and hairpins. Valuable aid in radio and phonograph repair. Package of approx. 50.  
 17N15406—

## STEEL SET SCREWS



Hardened steel set screws, for radio knobs, record changers, etc. Approximately 15 assorted sizes.  
 17N15400—

## METAL WASHERS



Cadmium plated. Steel washers. Approx. 80 assorted small sizes.  
 17N15433—

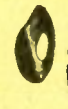
## RINGS AND "C" WASHERS



Standard types and sizes for servicing of volume controls and record changers. Sizes for shafts 1/8" to 5/16" diam.  

Stock No.	Description	Approx. No.
17N15427	Rings and Washers	35
17N15429	C washer 1/4" shaft	25
17N15430	C washer 3/16" shaft	25

## SPRING WASHERS



For record changer, automatic tuning assemblies. Assortment of approx. 15 assorted phosphor-bronze and steel friction washers.  
 17N15404—

ANY ITEM ON THIS PAGE 24¢



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## HOW TO ORDER

Use our convenient order blank (additional blanks sent on request). Please write in ink, legibly, and not more than ONE item to a line. Make sure you write the exact stock number and that the price is the one quoted for the item you want. Specify how we shall make shipment by checking the preferred square "Parcel Post", "Express", etc. We shall follow your instructions, but will change them wherever we are sure that such a change is to your better interest. Please keep all correspondence or remarks relative to your order on a separate sheet of paper. Make sure you include sufficient postage; all overpayments promptly refunded (if overpayment is under 10¢, we will credit your account).

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## FINAL PRICES

Prices shown in this catalog are net. All discounts have been deducted, including 2% discounts for cash. Prices are subject to change without notice; we give customers the benefit of all reductions taking place after the catalog is published.

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Items marked "Shipped Postpaid" do not require postage. Postpaid items refer only to shipments made within the 48 states of the U.S. only (does not include U.S. possessions).

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The safest and best way to send money is by: American Express; Post Office or Telegraph Money Order; bank drafts; firm checks; stamps. Do not send cash. If absolutely necessary to remit cash, send by registered mail only.

## Lafayette Radio

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## PARCEL POST RATES FOR ALL ZONES

Parcels up to 8 ounces may be shipped anywhere in the United States for 6¢. Parcel post shipments to any zone must not exceed 70 pounds. The limit of size on all parcel post packages is 100 inches in length and girth combined, at widest point. Example: a package 35" long, 10" wide and 5" high measures 65" in length and girth combined (length 35", plus twice 10" width, plus twice 5" H. equals 65").

ZONES								
Wt. In Lbs.	First Up to 50 Mi.	Second 50 to 150 Mi.	Third 150 to 300 Mi.	Fourth 300 to 600 Mi.	Fifth 600 to 1000 Mi.	Sixth 1000 to 1400 Mi.	Seventh 1400 to 1800 Mi.	Eighth Over 1800 Mi.
1	\$0.09	\$0.09	\$0.10	\$0.11	\$0.12	\$0.13	\$0.15	\$0.16
2	.11	.11	.12	.15	.18	.20	.24	.27
3	.12	.12	.14	.18	.23	.27	.33	.38
4	.13	.13	.16	.22	.28	.34	.42	.49
5	.14	.14	.18	.25	.34	.41	.52	.61
6	.15	.15	.20	.29	.39	.48	.61	.72
7	.16	.16	.22	.32	.44	.56	.70	.83
8	.17	.17	.24	.36	.50	.63	.79	.95
9	.18	.18	.26	.39	.56	.70	.89	1.06
10	.19	.19	.28	.43	.61	.77	.98	1.17
11	.20	.20	.30	.46	.66	.84	1.07	1.29
12	.22	.22	.32	.50	.72	.92	1.16	1.40
13	.23	.23	.34	.54	.77	.99	1.26	1.51
14	.24	.24	.36	.58	.82	1.06	1.35	1.63
15	.25	.25	.38	.61	.89	1.13	1.44	1.74
16	.26	.26	.40	.65	.94	1.21	1.53	1.85
17	.27	.27	.42	.68	.99	1.28	1.63	1.97
18	.28	.28	.44	.72	1.05	1.35	1.72	2.08
19	.29	.29	.46	.75	1.10	1.42	1.81	2.19
20	.30	.30	.48	.79	1.15	1.49	1.91	2.31
Each Added lb.-Add	1¢	1¢	2¢	4¢	6¢	7¢	9¢	11¢

## EXPRESS CHARGES

Express Charges are determined by the weight of the shipment and distance of Destination Office from Originating Office. The following chart will enable you to estimate charges.

Maximum Distance in Miles	50 Mi.	150 Mi.	300 Mi.	500 Mi.	750 Mi.	1000 Mi.	1500 Mi.	2000 Mi.
Cost up to 5 lbs.	\$0.78	\$0.89	\$0.91	\$0.93	\$1.00	\$1.01	\$1.09	\$1.37
" " 10 lbs.	.86	.99	1.05	1.10	1.21	1.24	1.41	1.96
" " 15 lbs.	.92	1.13	1.19	1.26	1.44	1.48	1.73	2.55
" " 20 lbs.	.96	1.24	1.32	1.43	1.66	1.71	2.05	3.14
" " 25 lbs.	1.01	1.37	1.47	1.59	1.86	1.96	2.37	3.74
" " 35 lbs.	1.10	1.60	1.75	1.92	2.32	2.43	3.01	4.92
" " 45 lbs.	1.20	1.84	2.03	2.25	2.77	2.90	3.65	6.11
" " 55 lbs.	1.28	2.08	2.27	2.58	3.21	3.38	4.28	7.29
" " 75 lbs.	1.47	2.55	2.83	3.24	4.07	4.33	5.56	9.66
" " 95 lbs.	1.66	3.04	3.38	3.90	4.98	5.27	6.84	12.03
" " 100 lbs.	1.68	3.14	3.55	4.07	5.20	5.51	7.16	12.62

## INSURANCE

Parcel Post and Express insurance rates are based on declared value. ALL PARCELS WE SHIP MUST BE INSURED.

Valuation	PARCEL POST	Cost
Up to \$ 5.00.....		\$0.03
\$ 5.01 - 25.00.....		.10
25.01 - 50.00.....		.15
50.01 - 200.00.....		.25

## EXPRESS

Up to \$ 50.00..... No Charge  
\$50.00 - 150.00..... .10  
For each additional \$100.00 value or portion thereof, charge is \$0.10.

## EXPRESS & FREIGHT

Express and freight shipments are sent transportation charges collect. If your station has no agent, please send sufficient money to cover transportation. Charges are the same either way. All over-payments are promptly refunded.

## C.O.D. SHIPMENTS

Transportation charges on C.O.D. parcels are slightly higher than those sent prepaid. C.O.D. charges in addition to the regular postage cost are as follows (including insurance):

Valuation	Extra Charge
Up to \$ 2.50.....	\$0.15
2.50 - 5.00.....	.20
5.01 - 25.00.....	.30
25.01 - 50.00.....	.40
50.01 - 100.00.....	.50
100.01 - 150.00.....	.55
150.01 - 200.00.....	.60

Post Office also charges an extra small money order fee on each C.O.D. parcel. Save these fees by remitting in full.

**NOTE:** Equipment built or ordered especially to meet customers requirements not subject to exchange, credit or refund. All orders for special merchandise must be accompanied by a deposit.



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### S-40A. THE RADIO MAN'S HOME SET

A complete, high quality communications receiver that offers superior performance in the medium price range. Handsomely designed and expertly engineered to give you the latest radio developments in a cabinet of functional beauty. Chassis of exceptional sensitivity and power, including built-in PM speaker. Tuning range covers 540 KC to 43 MC on four bands. Wide vision main tuning dial and separate electrical bandspread dial for precision tuning. Settings for broadcast band marked in color for simplified use. One stage RF amplification uses 6SA7 converter mixer for best signal-to-noise ratio. RF coils are permeability adjusted "micro-set" type. Temperature compensated oscillator. Audio response to 10,000 cycles. External controls for doublet or single wire antenna, phone jack and socket for external power supply. Other controls include 3-position Tone, BFO Pitch, Receive/Standby, Noise Limiter Switches, AF and RF gain. Tubes: 6SG7, 6SA7, (2) 6SK7, 6H6, 6J5GT, 6SQ7, 6F6G, 5Y3GT rectifier. For 105-125 volts, 50/60 cycles AC. Satin black steel cabinet with brushed chrome trim measures 18 1/2" wide, 9" high, 9 1/2" deep. Shipping Weight 32 lbs.

30N21094—Complete with Tubes & Speaker **79.95**

Model S-40AU. Same as above except for 115/250 volts, 25-60 cycles AC.

30N21085 ..... **89.95**



### S-38 AC/DC RECEIVER

Exceptional performance in a communications receiver at the lowest price. Continuous AM reception from 540 KC to 32 MC on four bands. CW pitch control adjustable from front panel, automatic noise limiter and self-contained PM dynamic speaker are a few features that make this inexpensive set a leader in its field. Compact, functional design and high performance on both short wave and standard broadcast, make it ideal for use in den, library or any room in the house where a good extra receiver is desired. Accurately calibrated main tuning dial with separate electrical bandspread dial. Controls include Speaker/Phones, AM/CW and Noise Limiter Switches, AF gain and Receive/Standby. Tubes: 12SA7, 12SK7, (2) 12SQ7, 35L6GT and 35Z5GT rectifier. For 105-125 volts AC/DC operation. Steel cabinet in black wrinkle finish with brushed chrome trim measures 12 7/8" wide, 7" high, 7 1/4" deep. Shipping Weight 14 lbs.

30N21081—Complete With Tubes & Speaker..... **39.95**

7N5245—Line Cord for 220-volt operation..... **1.41**

### NEW SX-71 COMMUNICATIONS RECEIVER

Designed expressly for superior Ham Band performance in the moderate price range. A new type of receiver, value-packed with features specifically asked for by Hams. Extra sensitivity, selectivity and stability, definitely superior image rejection with double superheterodyne circuit, plus built-in narrow band FM reception. Extra wide dials for main and bandspread tuning. Continuous AM reception from 538 KC to 35 MC and 46 to 56 MC. Has built-in limiter and balanced detector stages for hiss-free NBFM reception. Double conversion gives image rejection of better than 300 to 1 at 28 MC. One RF, two conversion and 3 IF stages yield high gain for sensitivity of 1 microvolt. Sharp selectivity as indicated by 14 KC band width even before cutting crystal filter into circuit. Audio peaked for communications frequencies, with 3 watts output. Bandspread dial calibrated for 80, 40, 20, 10 and 6-meter bands. Other controls BFO pitch, 3-position selectivity, crystal phasing, AF and RF gain, Receive/Send. "S" meter control in rear. Has 500-ohm output for separate speaker. Tubes: 6BA6, 6BA7, 6BE6, (2) 6SK7, 6SH7, 6SN7, 6SC7, 6AL5, 6K6GT, VR-150 and 5Y3GT rectifier. For 105-125 volts, 50/60 cycles AC. Gray steel cabinet with satin chrome trim measures 18 1/2" wide, 8 7/8" high, 12" deep. Shipping Weight 33 lbs.

30N21102—Complete With Tubes..... **179.50**

Speaker for above in matching cabinet.

30N21106 ..... **24.50**





# Hallicrafters

## The Radio Man's Radio



### FAMOUS S-47 HIGH FIDELITY FM-AM RECEIVER

Here is a high precision, fine quality receiver. The chassis lends itself perfectly to custom installations of your own choosing. Specially designed cabinets, book-cases, end tables or built-in sound systems are a few suggestions you can adapt to meet your requirements for high fidelity radio reception. A superb chassis that is all radio, made simple to operate with push-button controls and a wide, easily read dial. This is a powerful 14-tube (plus rectifier) FM-AM set covering the standard broadcast band—540-1720 KC, the FM band—88 to 108 MC and short wave band—5.9 to 18.2 MC. The short wave band has separate bandspread tuning ranges of 9-12 MC and 15-18 MC.

Automatic frequency control gives unprecedented ease of tuning on FM... with unequalled accuracy. Circuit electronically "locks in" selected stations and keeps it in perfect tune. The push-pull output stages provides 10 watts audio with a response of 30 to 15,000 cps for rich, resonant tone. Separate bass and treble controls supply sufficient tone variations to satisfy the most discriminating listener. Any speaker with an impedance of 500 ohms can be used. Receiver also has input jack for high impedance phono pickup. Uses the following tubes: 6BA6, 6BE6, 6J6, (3) 6SG7, 6SH7, 6AL5, (2) 6J5, (2) 6SQ7, (2) 6V6GT and 5U4G rectifier.

The handsome gray steel case with satin chrome trim measures 20" wide x 10<sup>1</sup>/<sub>4</sub>" high x 16" deep. Shipping weight 66 lbs. Operates on 105-125 volts, 50/60 cycles AC. Supplied less speaker.

**30N21067—Complete With Tubes ..... 229.50**

**Model S-47U** Same as above except for 110/120 volts, 25-60 cycles.

**30N21101 ..... 245.50**

**30N21072—R42 Speaker (See Pg. 142-143)..... 34.50**



### NEW S-72 ALL-WAVE PORTABLE RADIO

You'll be in touch with the outside world wherever you go with this extra-sensitive all-wave portable receiver. Super-powered for excellent performance on AC, DC or battery operation. Covers standard broadcast and three short wave bands: 540 KC to 30.5 MC on four tuning ranges. This includes all popular foreign and domestic short wave broadcast bands, aircraft and police bands, plus six Ham bands. Circuit design includes one stage of tuned RF for extra sensitivity and selectivity, and an automatic noise limiter to aid reception in areas with heavy electrical noise. Operates from a built-in loop for broadcast stations and a 27" whip for short wave reception. Tubes: 1T4, 1R5, (3) 1U4, (2) 1U5, 3V4, plus a long-life selenium rectifier. External connections include a phone jack on panel and provisions for attaching an extra antenna, if desired. Automatic changeover from battery to electric power to protect batteries. The sturdy plywood cabinet is finished in handsome brown leatherette with brass plated hardware and attractive escutcheon finished in antique silver. Dimensions: 14x12<sup>1</sup>/<sub>4</sub>x7<sup>1</sup>/<sub>4</sub>" deep. Shipping Weight 16 lbs. Power cord for 105-125 volts DC or 60-cycle AC fits inside set when not in use.

**30N21100—Less Batteries ..... 79.95**

**20N19870—Battery Pack for above ..... 3.85**

*Lafayette Radio*

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World Radio History