

S.S. KRESGE

RADIO CATALOGUE

and
Service Men's Guide
Season 1930-1931



General Offices
of the

S. S. KRESGE COMPANY
Detroit, Mich.

Parts listed are sold by
all 25c to \$1.00 Green Front Stores

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This catalogue is composed of four sections—Radio Accessories—Radio Parts—Service Replacement Parts and Tools, and Testing Equipment. Be sure to look it over thoroughly so you will know of the complete line carried in the S. S. Kresge 25c to \$1.00 stores.

The low prices quoted are only made possible by the best of merchandising methods and by the tremendous buying power of this large syndicate.

RADIO SET ACCESSORIES

A. C. TUBES



	Price
Volutron U. X. 226 A. F. or R. F. Tube.....	\$.75

Van Dyke U. X. 226 A. F. or R. F. Tube.....	.89
--	-----

Volutron U. Y. 227 Det. or Amplifier89
---	-----

Van Dyke U. Y. 227 Det. or Amplifier	1.00
---	------



Van Dyke U. Y. 224 A. C. Screen Grid	1.50
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Rectifier Tubes



	Price
Volutron U. X. 280 Full Wave	\$.89

Van Dyke U. X. 280 Full Wave	1.00
---------------------------------------	------

Van Dyke U. X. 281 Half Wave	2.75
---------------------------------------	------

RADIO SET ACCESSORIES

D. C. TUBES



Volutron U. X. 201-A
Detector Amplifier \$.60

Van Dyke U. X. 201-A
Detector Amplifier65

Volutron U. X., and U. V. 199
Detector Amplifier75

Van Dyke U. X. and U. V. 199
Detector Amplifier 1.00

Van Dyke D. C. Shielded
Grid Tube U. X. 222..... 2.00

Power Tubes



Volutron U. X. 112-A
5 Volts 1.00

Van Dyke U. X. 112-A ¼ Amp.
5 Volts 1.00

Volutron U. X. 171-A
5 Volts 1.00

Van Dyke U. X. 171-A
5 Volts 1.00

Volutron U. X. 210
7.5 Volts 3.00

Van Dyke U. X. 210
7.5 Volts 3.00

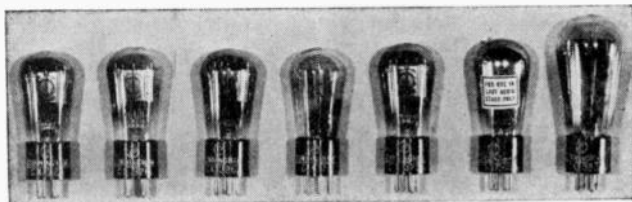
Van Dyke U. X. No. 245
2.5 Volts 1.10

Everready U. X. 245..... 1.50



RADIO SET ACCESSORIES

CUNNINGHAM TUBES



The S. S. Kresge Company's green front stores carry a complete line of all types of Cunningham tubes. These tubes are all tested at time of purchase and **sold at Popular Prices.**



ROYAL "B" BATTERIES

Royal Heavy Duty "B" Battery 45 Volt.....	\$2.00
Royal Standard Size 45 Volt Vertical	1.50
Royal 22½ Volt B or C Battery .....	.89
Royal 22½ Volt for port- able sets .....	.65

RADIO SET ACCESSORIES

"B" BATTERIES



Banner "B" Batteries are made especially for the S. S. Kresge Company by one of the large Battery Manufacturers. Due to the great number of "B" Batteries sold in the Kresge stores, you are assured of fresh stock at all times. All "B" Batteries are tested at time of purchase.

Price

Banner Heavy Duty 45 Volt.....	\$2.00
Banner Standard Size 45 Volt Vertical.....	1.50
Banner 22½ Volts B. or C. ....	.89



Dry Cell and "C" Batteries

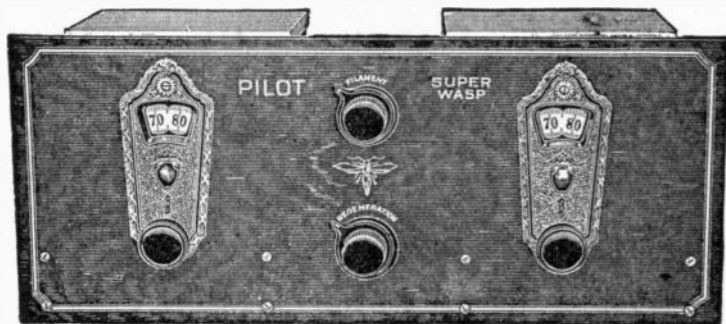
The 22½ Volts listed above can be used for B or C battery. If 45 Volts of C battery is required a standard size 45 Volt B battery should be used.

Price

Royal Dry Cells.....	.25
Royal 4½ C battery .....	.25
Banner 4½ C battery.....	.25

RADIO SET ACCESSORIES

The Pilot "SUPER-WASP" Kits



MODERN FEATURES IN SUPER-WASP

Most short-wave sets put out in kit form have been highly critical straight regenerative affairs. It was not until the advent of the PILOT Super-Wasp that short-wave receivers graduated from the 1921 stage and grew into modern instruments possessing some of the numerous refinements that have been built into regular broadcast sets. The best and easiest way to get into the short-wave game and to enjoy the unequalled thrills of transoceanic reception is to build a Super-Wasp, because then you are assured of getting results.

Pilot Super Wasp Kit, battery operated, complete.. **\$29.50**
 Pilot A.C. Super Wasp Kit, chassis only **\$34.50**

Pilot A.C. SuperWasp Kit, with cabinet **\$49.50**
 NOTE—These kits use Pilot Power Pack K-111 shown on page 14, price..... **\$16.50**



PILOT CAR RADIO

Complete with control speaker and metal cabinet—Can be mounted in any type car. Price complete less tubes..... **\$54.00**

CAR RESISTORS

Spark Plug Resistor..... **50c**
 Only Ignition Resistor..... **75c**

These are much in demand for use with Automobile radios. Fit any car, and any type car radio.

RADIO SET ACCESSORIES

CRYSTAL SETS AND SPEAKERS

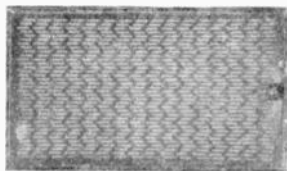


PHILMORE CRYSTAL SETS

Philmore Selective Set	\$3.25
Philmore Supertone Set	.89
Philmore Little Wonder Set	.59

GENEVA CONDENSER SPEAKER

Something New for the Radio Experimenter

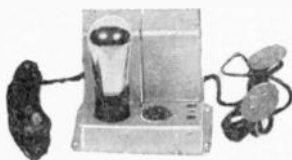


Many novel designs are possible—full instructions for assembly and connecting to any set accompany each unit. Price per unit **\$1.25**

DONGAN

Polarizer unit for Condenser
Speakers, all parts complete.

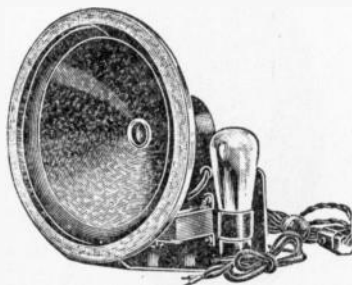
\$4.98



RADIO SET ACCESSORIES

Dynamic Speaker Units

The New Accurate Dynamic Speaker Unit



The Accurate dynamic speaker uses a 280 rectifier tube in the filter circuit. This tube is only operated at about sixty per cent of its rated output, and naturally will have a long life. The price quoted, does not include the tube. The overall dimensions are 10 1/4" wide, 10 1/2" high, and 7" deep. The baffle board should have a nine inch opening with its center 5 1/2" above the base.

	Price
Accurate 110 volt 60 cycle A. C. (less tube).....	\$13.50

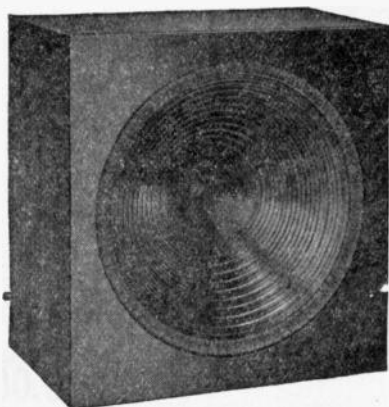
Utah Dynamic Speaker Unit



This is the well known Utah dynamic speaker. It uses a dry rectifying unit and can be connected direct to 110 volt, 60 cycle A. C. line. Only a large syndicate, such as Kresge, could sell this standard merchandise for the price listed.

	Price
Utah Dynamic Speaker Unit.....	\$10.00

Cone Speaker



Loud Speaker Units



These units can be used with any type air column speaker.

	Price
Big Chief Unit...	\$2.50
Utah Unit	3.25

The damped edge speaker shown at the left comes complete with baffle box and can be used either inside or outside of cabinet. This speaker is made especially for the S. S. Kresge Company by a large manufacturer.

	Price
Small type cone speaker.....	\$6.00

RADIO SET ACCESSORIES

RADIO SPEAKERS

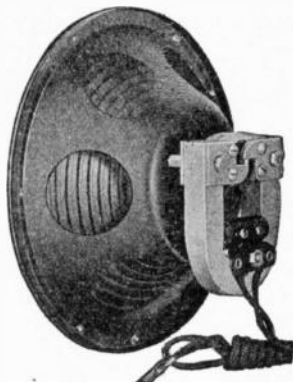
Utah Dynamic



The illustration above shows the cabinet used with the Utah dynamic unit, specification A33. The price includes both unit and cabinet. Very good value for standard merchandise, such as this.

Utah dynamic speaker complete with cabinet.
Specification No. A33..... **Price \$17.50**

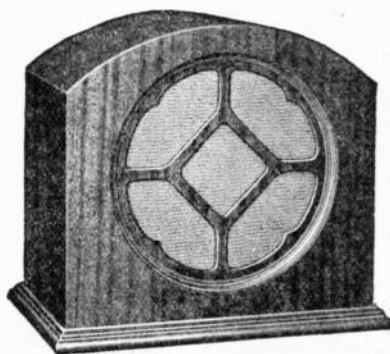
Utah Magnetic Chassie



Units shown above can be mounted in any type of console cabinet made for a small cone. If the opening in the front of the cabinet is too large, the unit should first be mounted on a baffle board.

Utah unmounted cone
chassis..... **Price \$4.98**

Utah Magnetic Speaker in Cabinet



The illustration shows the X20 cabinet used with the Utah XM Cone. This cabinet has a very high finish, and is an attractive piece of furniture.

Utah magnetic unit in walnut finished cabinet..... **Price \$10.00**

RADIO SET ACCESSORIES

AERIAL AND GROUND EQUIPMENT



AERIAL WIRE

No. 15 plain copper wire 50 ft. roll.....	20c
No. 15 enameled copper wire 50 ft. roll.....	25c
No. 7 strand plain copper wire 50 ft. roll.....	20c
No. 7 strand enameled copper wire 50 ft. roll.....	25c
No. 15 Plain Copper Aerial Wire 100 ft. roll.....	40c
No. 15 Solid Copper Enameled Wire 100 ft. roll.....	50c
No. 7 Strand, Stranded Wire 100 ft. roll.....	40c
No. 7 Strand, Enameled Wire 100 ft. roll.....	50c
50 ft. Indoor Aerial.....	25c
Indoor Tape Aerial.....	25c
Indoor Spring Aerial (App. 85 ft. in Spring.....	69c
No. 14 rubber covered lead-in wire, 50 ft. roll.....	50c
No. 14 rubber covered lead-in wire, 25 ft. roll.....	25c
Stranded heavy duty aerial wire, 7 strand No. 20, 100 ft. roll.....	85c
Stiktape, inside aerial	69c



Gillet Aerial Connector.....

10c



WINDOW LEAD-IN

Flexible Insulated Lead-In.

Price

5c



INSULATORS

Price

Small 2½" long 5c
2 for.....

Med. Joe 4" long..... 5c

Price

Glass insulator 4½" long..... 5c

Glass insulator 5¼" long..... 10c

Glass insulator 3½" long..... 5c

RADIO SET ACCESSORIES

AERIAL AND GROUND EQUIPMENT



2 1/2" Porcelain Eyelet Stand-Off Bracket	Price 5c
6" Porcelain Eyelet Stand-Off Bracket	5c

LIGHTNING ARRESTER



Protector Lightning Arrester...	Price 25c
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Stand-Off Type Lightning Arrester	Price 25c
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GROUND CLAMPS	
Adjustable Band Ground Clamp...	Price 10c
Adjustable Galvanized Ground Clamp	5c

BATTERY CABLES

	Price
5 Wire Battery Cable	25c
7 Wire Battery Cable	30c
9 Wire Battery Cable	39c

PHONE CORDS

	Price
Single Phone Cord 5 Ft. Long	15c
Double Phone Cord 5 Ft. Long	20c

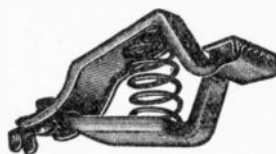
SOCKET AERIAL



These socket aerials may be plugged directly into the 110 volt house lighting circuit and can be used instead of an outside aerial. Under certain conditions they give satisfactory results on nearby stations.

	Price
Socket Aerial	25c

BATTERY CLIPS



	Price
No. 48 "B" battery clip	5c
No. 24-A Universal battery clip	10c
Large Size 21A Clips	15c

RADIO SET ACCESSORIES

PHONES AND EQUIPMENT

PHONES



Frost Head Set
Set 2000 O H M

Frost Head sets are made for the S. S. Kresge Company by one of the larger manufacturers of phones and loud speakers.

Price
\$1.50

Lin-A-trol Line Voltage Control



Line Voltage Regulators can be used on any set, whether all electric or operated with A and B Eliminators. Complete with tube socket and is inserted in one side of the A.C. line. Regulation is guaranteed from 100 Volts to 135 Volts. Complete instructions as to operation and type of sets, each of the numbers will fit included in each Lin-A-trol package.

In case of burnouts, within six (6) months, replacements free.

For radio sets not equipped for these tubes at the factory, complete with socket.....

\$2.00

All sizes for sets equipped at factory less socket.....

\$1.75

B. M. S. Phone Plugs

The B. M. S. phone plugs is molded of Bakelite and has a special locking device for loud speaker cord.

B. M. S. Phone Plug **25c**

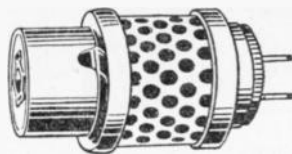
Loud Speaker Extensions

18" Extension Cord **25c**
30" Silk Extension Cord **39c**
50" Silk Extension Cord **60c**

Loud Speaker Extension Connectors

A. B. Bakelite Connector **10c**

LINE RESISTANCE



These line resistors are made by the Ward-Leonard Company, and are very sturdily built.

The red label type should be used for sets drawing under 65 watts and the green label type should be used for sets drawing over 65 watts, and not over 130 watts.

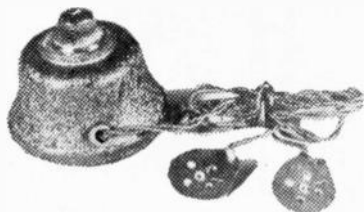
Ward Leonard Red Label line resistances **\$1.50**

Ward Leonard Green Label line resistances **\$1.50**

RADIO SET ACCESSORIES

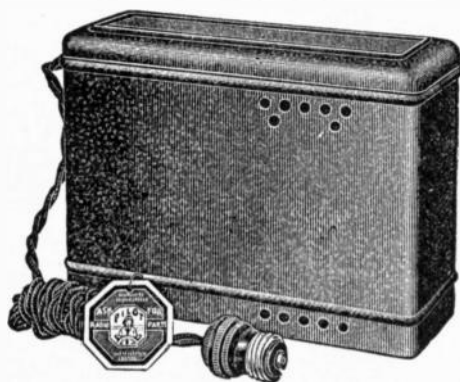
TONE CONTROLS

Bring out ALL the Tones of your Radio
with the Tone Control



Radio broadcasting and receiving sets improve every year. This year, Tone Control is the big improvement, and perhaps you've wished the set you now own had such a feature . . . It can have.

Standard Tone Control in Metal Case.....	\$1.75
Panel Mounting Type (without case).....	\$1.50



The power pack shown above, can be had in two different types, catalogue No. 173 is suitable for two 171A tubes, and for five 226's or 227's. "B" voltage under load 180, 135, 90 and 45.

Pilot Power pack, Spec.
K111 for 171A tubes..... **\$16.50**

The K112 power pack is similar to catalogue No. 173, except that it is suitable for 245 tubes, as well as tubes of the 227 and 224 variety. Both of these packs use 280 rectifier tubes.

Pilot power pack, Spec.
K112 for 245 tubes..... **\$19.50**



Accurate "B" Eliminator

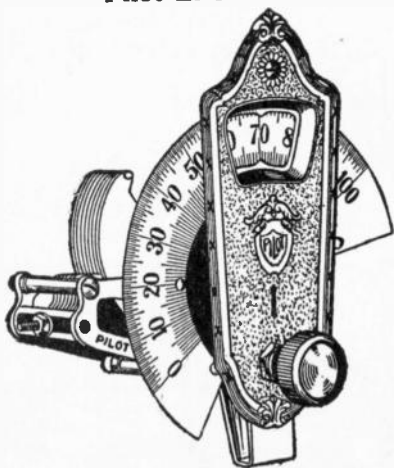
The "B" eliminator shown above will give constant and uniform power, when used with any type of set. It will deliver 220 volts at 40 mils. Voltage divider has fixed taps which give uniform voltage.

Accurate "B" eliminator,
Spec. No. 3025..... **\$14.00**

RADIO PARTS

DIALS

Pilot-Lite Dial



Can be used with 1, 2 or 3 condensers
ONE OF THE BEST VALUES EVER
OFFERED.

Price

\$1.00

Pilot-Lite Dial

Pilot Art Dial



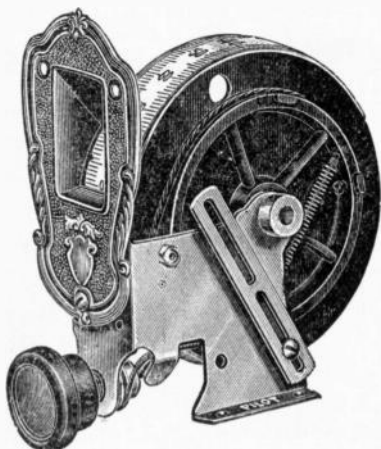
The Pilot Art Dial is furnished in black or walnut satin finish and adds to the appearance of the panel of any radio set. The dial is arranged to work with a condenser which turns either clockwise or counter-clockwise. This dial is furnished complete with mounting screw.

Price

50c

Pilot Art Dial

PILOT DRUM DIALS



In these dials, the solid molded bakelite drum carrying the condensers is driven by a specially treated cord which is wound around the drum and connects with a small pulley on the shaft turned by the control knob. The cord is kept taut at all times by a strong spring. (Visible in the illustration on the left), which also automatically compensates for any wear in the mechanism. The dial turns easily and smoothly, yet there is absolutely no backlash, even with the largest and heaviest 'Bath-tub' condensers. A multiple unit consisting of eight .00035 mf. condensers is easily handled by these dials. These dials can be had in two different type eschion plates, only one of which is illustrated.

The dials are illuminated with a small flash light bulb, set in a clamp which is insulated from the frame of the dial. The scale is of white material with clear black letters, and is removable.

Pilot single drum dial with knob control, either type plate.....

\$1.50

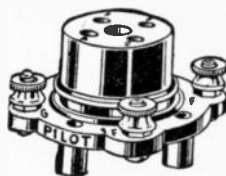
Pilot double drum dial knob control.....

\$2.75

RADIO PARTS

SOCKETS

Pilot Universal Cushioned Socket



This socket is molded of genuine Bakelite and is arranged so that it can either be used as a cushion socket or as a sub-base socket by demounting the base.

Price

25c

Pilot Universal Socket.....

JACKS

Phone Tip Jack



This Phone Tip Jack takes up very little space and is positive in contact, just the right size to fit the tips on phones and loud speakers.

Phone Tip Jack
per pair..... **10c**



**Pilot
Bakelite
Knobs**

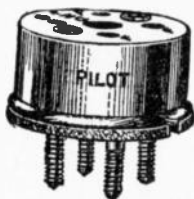


All Pilot knobs are molded of genuine bakelite and are fitted with brass inserts, which fit over one quarter inch shaft. Both the large and small knobs, can be had in either black or walnut finish.

Small bakelite knob,
walnut or black finish..... **10c**

Large bakelite knob,
walnut or black finish..... **10c**

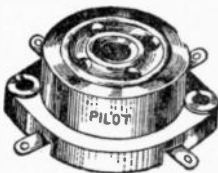
Sub-Base Sockets



Sub-Base
Socket
4-hole **10c**

Sub-Base
Socket
5-hole **15c**

Pilot Universal Socket



Pilot Universal
Socket 4-hole
No. **15c**
216.....

No. 217 Pilot 5-Hole Socket **15c**

PHONE TIP

None-Solder Phone Tip.
Easy to attach to wire or tinsil cord.



Phone Tip
Each **5c**

Grid Resistances



Grid Resistances can be used for controlling oscillation of Radio Frequency Tubes. Should be mounted in series with the wire connected to the grid post at the R. F. Socket.

Grid Resistance,
100 to 1000 ohms **25c**

RADIO PARTS

RADIO COILS

Plug-In Type R. F. Coil



This coil can be mounted in a regular U. X. Tube socket. Wound on threaded Bakelite tubing suitable for 201-A or 226 Type Tubes.

Price

Plug in Type R.F. Coil
Set of three **\$1.50**
Same as above but
without prongs. Set
of three **1.50**



Shielded Grid Kits

Shielded Grid Kits—
One PT2 and
Three PT3 coils **\$4.00**



SHORT WAVE KIT

Five Bakelite Plug-In Coils for Pilot Wasp Set
Set of five.....

Price

\$4.45

RUBBER PANELS

One side plain, one side with Florantine finish.

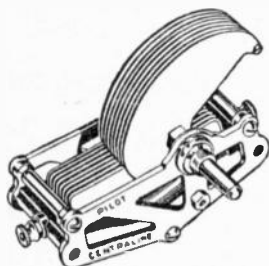
Also plain both sides.

Price

7 x 12 x 3/16 Rubber Panel.....	\$.60
7 x 18 x 3/16 Rubber Panel.....	.90
7 x 21 x 3/16 Rubber Panel.....	1.05
7 x 24 x 3/16 Rubber Panel.....	1.20
7 x 26 x 3/16 Rubber Panel.....	1.30

RADIO SET ACCESSORIES

VARIABLE CONDENSERS



Modified S. L. F. (Centraline) Condensers

Many constructors prefer these Pilots to the straight line frequency type, due to the fact that they take up less space and do not crowd the stations in the middle of the dial, where most of the tuning is done.

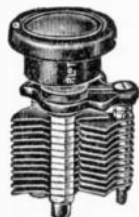
	Price
11 Plate Condenser, capacity .00016	\$1.00
17 Plate Condenser, capacity .000375	1.00
23 Plate Condenser, capacity .0005	1.00

PILOT SHIELDED VARIABLE CONDENSERS



The shielded variable condenser introduces an entirely new design in apparatus of this type. Multitube R. F. sets using A. C. tubes of the 226, 227 and 224 types require that the condensers and R. F. stages be shielded. One of the main problems which confronted the amateur constructor was the method of shielding his variable condensers. This problem has been solved with this new Pilot line. The condensers are very sturdily built, are dust-proof and can be adapted for use in any type of radio set. These condensers can be had in four different sizes, single, doubles, triples and quadruples. Each unit has 17 plates and a capacity of .000375 MFDS.

	Price
Single gang, shielded variable condenser, Spec. 3021	\$1.50
Two gang, shielded variable condenser, Spec. 3042	3.00
Three gang, shielded variable condenser, Spec. 3063	4.50
Four gang, shielded variable condenser, Spec. 3084	6.00

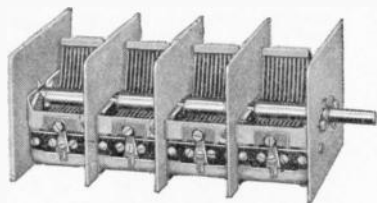


Pilot Balancing Condenser

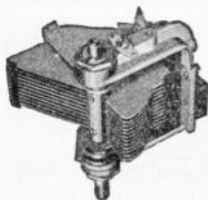
	Price
J-5 5 Plate, .000015 mfd.	50c
J-7 7 Plate, .000025 mfd.	50c
J-13 13 Plate, .00005 mfd.	50c
J-23 23 Plate, .0001 mfd.	60c

RADIO PARTS

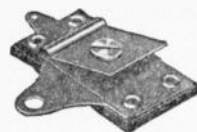
HAMMARLUND CONDENSERS



MQ-4 Quadruple Con- denser, .00035 Mfd.....	\$6.00
MT-3 Triple Condenser, .00035 Mfd.	4.50
MD-2 Dual Condenser, .00035 Mfd.	3.25
ML-17 Single Midline, .00035 Mfd.	2.25
ML-7 Short Wave Con- densers, .00014 Mfd.....	2.00



ES-Tube Shields .....	.50
F.C. Flexible Couplings .....	.50
EC-35 Equalizers .....	.25
EC-80 Equalizers .....	.25



SHIELDS FOR ABOVE CONDENSERS

2 Gang .....	.50
3 Gang .....	.75
4 Gang .....	.75

AUDIO FREQUENCY TRANSFORMERS

The following Transformers are listed in 3 to 1 ratio only. It has been found that this one size will give the best results on either A. C. or D. C. Sets and can be substituted for either 5 to 1 or 2 to 1.

Dongan Diatonik Transformers

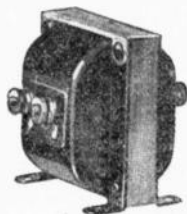


	Price
Diatonik Audio 3 to 1, Spec. No. 2128.....	\$2.50
Diatonik Output, Spec. No. 2129.....	2.50
Diatonik Input Push Pull, Spec. No. 2130	2.50
Diatonik Output Push Pull, Spec. No. 2131.....	2.50

RADIO PARTS

Power Transformers and "B" Eliminators DONGAN POWER TRANSFORMERS

Dongan Apollo A. F. Transformers



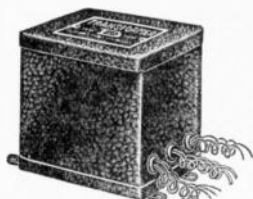
Apollo 3 to 1 Spec.
No. 74 Transformer..... **\$1.00**

Power Transformer



Designed for one to four 226's—one
227 and one or two 171A's.
Dongan A. C. Filament Trans-
former Spec.No. 6527..... **\$3.00**

Out-Put Transformer for 245 Tubes



These output
transformers
should be
used when
connecting
the speaker
to 245 tubes,
specification
3112 is to be
used with one

145 tube, and specification No. 3111 with
two in push-pull tubes. The secondaries
of these transformers are arranged for
either a dynamic or magnetic speaker.

Dongan output transformer
for 1-245 tube, Spec. 3112 ... **\$4.98**

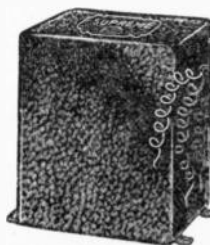
Dongan output transformer
for 2-245 tubes, Spec. 3111 **\$4.98**

DONGAN SUPREME A. F. TRANSFORMERS



Supreme 3 to 1
Transformer. **\$1.50**

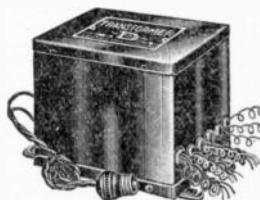
Dongan Choke



Dongan Double
Choke may be
used where cur-
rent does not ex-
ceed 85 Mils.
Spec. No. 7512.

\$3.50

Power Transformer for 245 Tubes



This trans-
former should
be used for
either a push-
pull power
pack, using
245 tubes.
Transformer
has four sec-
ondary wind-

ings one for "B" supply, two 2½ volt,
one 5 volt, for Fil. of 280 Tube.

Dongan power transformer
for 245 tubes, Spec. 1951... **\$4.98**

Price

RADIO PARTS

PILOT TRANSFORMERS

SMALL A. F. TRANSFORMERS



These small audio transformers appeal to the constructor because they can be mounted on the underside of sub-panel. The one piece steel case, is $2\frac{1}{8}$ " square and $2\frac{1}{8}$ " high. Finished in black lacquer.

Price

Pilot audio frequency transformer
3½—1 ratio, Spec. No. 412 **\$1.35**

JUMBO POWER TRANSFORMER

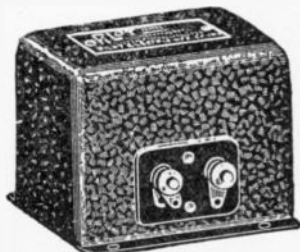


The Jumbo power transformer is designed to fill the power requirements of a set using two 245 tubes, and the usual assortment of 227's and 224's. It has one high voltage plate winding, and three filament windings. The plate secondary gives 300 volts on each side of its center, and will deliver 90 milliamperes with the 280 rectifier tube and filter circuit.

Price

Pilot Jumbo power transformer, Spec. 411 **\$6.00**

LARGE A. F. TRANSFORMERS



These instruments are similar to catalogue No. 330, but are larger and heavier in construction, and include a push-pull combination.

Price

Pilot audio frequency 3½—1 ratio, Spec. 422 **\$2.35**
Pilot input push-pull transformer, Spec. No. 426 **2.75**
Pilot output transformer, Spec. No. 427 **2.75**

CONDENSER BLOCK



This condenser block comprises sections of 1, 1, 3, 3, and 6 MF capacity and also two .1 MF sections, giving a total of 14 microfarad, guaranteed to stand under a nominal operating voltage of 300. For use with No. 411 transformer, and 431 choke.

Price

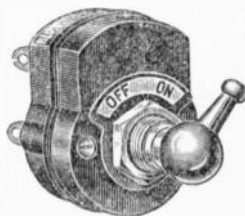
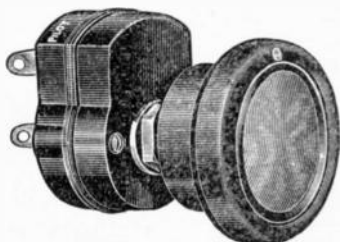
Pilot Jumbo condenser block, Spec. No. 421 **\$4.98**

PILOT POWER TRANSFORMERS FOR 245 TUBES

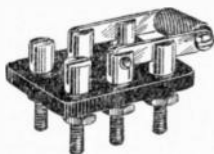
Filament transformer for 245 tubes, Spec. 407 **\$4.00**
Pilot No. 431 choke coil unit **4.00**

RADIO PARTS

PILOT A. C. FILAMENT SWITCH



SMALL KNIFE SWITCHES



These small knife switches can be had in three different types, single pole single throw; single throw double pole; and double pole double throw. They are mounted on a small bakelite base and may be used for either panel or base mounting. You will find many uses for a switch of this type.

	Price
S. P. S. T. Knife Switch.....	10c
S. P. D. T. Knife Switch.....	10c
D. P. D. T. Knife Switch.....	.25

Pilot A. C. filament switch with knob.....	35c
Pilot A. C. filament switch with lever.....	30c

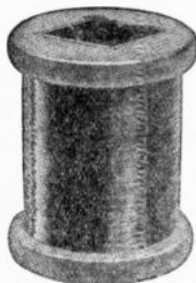
HOOK-UP WIRE

5 ft. roll covered hook-up wire.....	10c
10 ft. roll braided hook-up wire.....	10c

Can be had in black, green, or red.

MAGNET WIRE

Green Silk Over Cotton Magnet Wire



	Price
Spool No. 13 43' long.....	25c
Spool No. 20 52' long.....	25c
Spool No. 22 62' long.....	25c
Spool No. 24 90' long.....	25c
Spool No. 26 106' long.....	25c
Spool No. 28 128' long.....	25c

ENAMELED

Spool No. 22 175' long.....	25c
Spool No. 24 300' long.....	25c
Spool No. 26 320' long.....	25c
Spool No. 28 505' long.....	25c

DOUBLE COTTON COVERED

Spool No. 18 55' long.....	25c
Spool No. 20 83' long.....	25c
Spool No. 24 140' long.....	25c

RADIO PARTS

RHEOSTATS AND RESISTANCES

VOLUMGRAD



Front and back views of Volumgrad

The Volumgrad is a smooth action variable resistor designed especially for volume and oscillation control purposes. It is made in the four resistance ranges listed below, the four models being exactly alike in size and appearance. The volume can be adjusted from zero to maximum with one turn of the knob. May be had in the following sizes: 0 to 50,000; 0 to 100,000; 0 to 200,000; 0 to 500,000 ohms.

Pilot Volumgrad all sizes **.75**

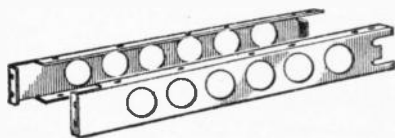
PILOT RESISTOGRAD



Pilot Variable High Resistances use the compressed carbon method of variation and are very gradual in operation. Can be varied from 0 to 500,000 ohms.

Pilot Variable High Resistance..... **Price 50c**

Metal Sub-Base Brackets

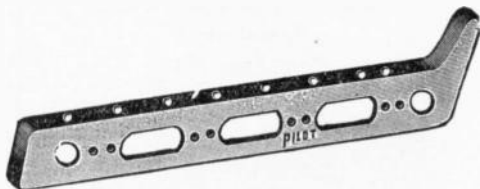


Price

2 x 9" Aluminum Sub-Base Brackets..... **15c ea.**

2½" x 7" Aluminum Sub-Base Brackets..... **10c ea.**

1" x 8½" Aluminum Sub-Base Brackets..... **10c ea.**



The Pilot metal bracket shown above is strong and rigid and drilled with numerous holes for mounting the sub-panel and small parts. It is nine inches long, stands one and quarter high, and is three-eighths inches wide.

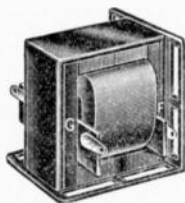
Price

Pilot sub-base bracket..... **25c ea.**

RADIO PARTS

SERVICE REPLACEMENT PARTS

REPLACEMENT TRANSFORMERS



**Replacement
Audio Transformer**

A transformer designed primarily for the service man. Assures exceptional reproduction in the highest grade as well as the less expensive types of sets.

Supreme Replacement Trans. 3 to 1 Spec. No. 3177 **\$1.50**

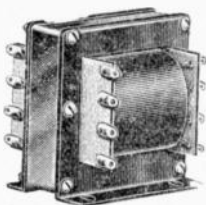
Dongan Push-Pull Audio Replacement

Price

Spec. No. 5110 **\$1.75**

Dongan Replacement Power Transformer

Spec. No. 5910



Designed for replacement service in radio sets or power packs using up to four UX226, one UY227, one or two 171A and 280 rectifier tube. Secondary voltages 275-275 volts 85 mils. 5 volt 2 amp., 1½ volts 4.2 amps., 2½ volts 1¾ amps., 5 volt ½ amp.

Overall dimensions 3¾ in. x 4 in. high. Mounting dimensions 2¾ in. x 1¾ in. to 2 in.

MAY BE USED IN FOLLOWING SETS:

Atwater Kent models 36, 37, 40, 42, 43, 52.

All American 6 tube electric receiver.

Crosley models—704, 704A, 704B, 706.

Freshman model K, K-60-S.

Grebe Synchophase A.C. six.

Philco—82, 86.

Radiola models—17, 18,

50, 51. Price

\$4.25

Replacement Power Transformer

**Dongan Spec.
No. 5951**

Designed for replacement service in radio sets or power packs using up to six UY227 or UY224 tubes, one or two 245 tubes and 280 rectifier.

Secondary voltages 350-350 volts, 125 mils.,

5 volts 2 amps., 2½ volts 3 amps. C.T., 2½ volts 10½ amps. C.T.

Overall dimensions 3¾ in. x 4 in. x 4¾ in. high.

Mounting dimensions 2¾ in. x 3¾ in.

MAY BE USED IN FOLLOWING SETS:

Acme model 88.

All American Lyric model—94SG, 95SG, T10.

Apex model 10, 11, 14.

Atwater Kent model 55, 60.

Browning-Drake models 53, 54, 57.

Bosch—model 48.

Crosley—models 825, 42S, 41S, 40S.

Edison—models R4, R5.

Fada—models 35C, 77.

Grebe—models 270C, 285.

Howard—models Consolette, Puritan.

Kennedy—models 220, 320.

Majestic—models 90, 91, 92, 93.

Philco—models 76, 95.

Stewart-Warner—models 21, 31, 41, 47.

Stromberg-Carlson — models 641, 642, 652, 654.

Silver—models 60, 95, 60B, 75B, 95B.

Zenith—models 60, 61, 62, 64, 67.

Price

\$4.50

RADIO PARTS

SERVICE REPLACEMENT PARTS FROST RADIO RESISTANCES

RHEOSTATS



FROST-RADIO

200—6 Ohm, Small	25c
200—10 Ohm, Small	25c
200—20 Ohm, Small	25c
200—30 Ohm, Small	25c
204—400 Ohm Potentiomet	25c

FROST VOLUME CONTROLS



890—50M Ohms, 3 Tap	50c
891—100M Ohms, 3 Tap	50c
892—200M Ohms, 3 Tap	50c
895—500M Ohms, 3 Tap	50c

Pilot Fixed Resistance

Pilot "B" eliminator resistance, tapped 4000, 3650, 2250, 2800 ohms	75c
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FROST-RADIO

WIRE WOUND RESISTANCES

750 Ohm.....	15c
1000 Ohm.....	15c
1250 Ohm	15c
1500 Ohm	15c
2000 Ohm	15c
2250 Ohm	15c
6 Ohm w/Center Tap	20c
10 Ohm w/Center Tap	20c
20 Ohm w/Center Tap	20c



HUM BALANCERS

106—6 Ohm, Slotted Shaft.....	20c
120—20 Ohm, Slotted Shaft	20c



Pilot Center Tap Resistance

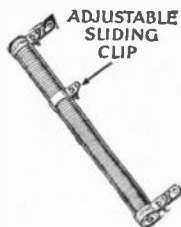
Pilot center tap resistances, all sizes	15c
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RADIO PARTS

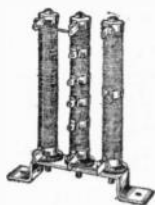
Service Replacement Parts

RESISTANCES

ELECTRAD TRUVOLT POWER RESISTANCES PERMITTING ADJUSTMENT TO A DESIRED VALUE



Electrad B20—	2000 ohms—25 watts.....	\$.59
Electrad B50—	5000 ohms—25 watts.....	.59
Electrad B100—	10,000 ohms—25 watts.....	.69
Electrad D20—	2000 ohms—75 watts.....	1.25
Electrad D50—	5000 ohms—75 watts.....	1.25
Electrad D80—	8000 ohms—75 watts.....	1.50
Electrad D100—	10,000 ohms—75 watts.....	1.50
Electrad Adj. sliding clips for above.....		.05



TRUVOLT AIR COOLED RESISTANCE BANKS FOR USE AS VOLTAGE DIVIDERS

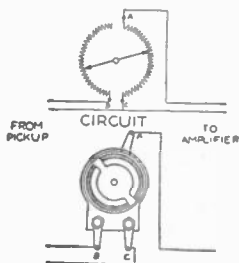
Electrad type 245 for 245 amplifier.....	1.75
Electrad type 250—(250 or 210 amplifier).....	2.50



ROYALTY VARIABLE HIGH RESISTANCE

Electrad L 0 to 500,000 ohms.....	1.00
Electrad C 0 to 50,000 ohms.....	1.00
Electrad F 0 to 2,000 ohms.....	1.00

CONSTANT RESISTANCE VOLUME CONTROL



VOLUME CONTROL

Electrad U Constant Impedance Phone Volume control.....	\$1.25
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AMPLIFIER KITS

Electrad Loftin White Amplifier Kits, complete with instructions.....	\$21.50
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ELECTRAD INC.

RADIO PARTS

Service Replacement Parts

INTERNATIONAL FIXED RESISTANCES

The International resistances shown below can be used as replacement parts in any type of radio set. If you find a job where more than a two watt resistance is required, you can put two of these in parallel and get a 4 watt capacity across the two resistances although in this case you will have to double up on the size. For instance if you are in need of a 4 watt, 25,000 ohm resistance, use two 50,000 ohms in parallel.

Any of the 1 watt resistances shown with wire leads may be used as a grid leak to mount across a grid condenser with clips, by simply cutting off the two wires.

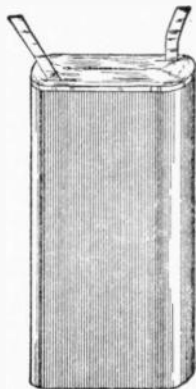


500 ohms, 2 watt with wire.....	.20	50,000 ohms, 1 watt with wire.....	.15
1,000 ohms, 2 watt with wire.....	.20	.25 meg., 1 watt with wire.....	.15
1,500 ohms, 2 watt with wire.....	.20	.5 meg., 1 watt with wire.....	.15
2,500 ohms, 2 watt with wire.....	.20	1.0 meg., 1 watt with wire.....	.15
5,000 ohms, 2 watt with wire.....	.20	2.0 meg., 1 watt with wire.....	.15
7,500 ohms, 2 watt with wire.....	.20	3.0 meg., 1 watt with wire.....	.15
10,000 ohms, 2 watt with wire.....	.20	5.0 meg., 1 watt with wire.....	.15
20,000 ohms, 2 watt with wire.....	.20	10.0 meg., 1 watt with wire.....	.15
50,000 ohms, 2 watt with wire.....	.20	500 ohms, 1/2 watt with wire.....	.15
100,000 ohms, 2 watt with wire.....	.20	1,000 ohms, 1/2 watt with wire.....	.15
750 ohms, 1 watt with wire.....	.15	20,000 ohms, 1/2 watt with wire.....	.15
2,000 ohms, 1 watt with wire.....	.15	75,000 ohms, 1/2 watt with wire.....	.15
5,000 ohms, 1 watt with wire.....	.15	.25 meg., 1/2 watt with wire.....	.15
10,000 ohms, 1 watt with wire.....	.15	.5 meg., 1/2 watt with wire.....	.15
20,000 ohms, 1 watt with wire.....	.15	2.0 meg., 1/2 watt with wire.....	.15
50,000 ohms, 1 watt with wire.....	.15	3.0 meg., 1/2 watt with wire.....	.15

RADIO PARTS

Service Replacement Parts

POTTER REPLACEMENT FILTER CONDENSER CARTRIDGES



	Price
Potter 2 Mfd. 200 V $2\frac{3}{4}$ " long	\$.60
Potter 1 Mfd. 600V $3\frac{7}{8}$ " long	1.00
Potter 1 Mfd. 200V 5" long .....	.50
Potter 1 Mfd. 200V $3\frac{7}{8}$ " long .....	.50
Potter 1 Mfd. 400V $2\frac{3}{4}$ " long .....	.69
Potter 1 Mfd. 200V $2\frac{3}{4}$ " long .....	.50
Potter 1 Mfd. 200V 1 $11/16$ " long .....	.50
Potter $\frac{1}{2}$ Mfd. 200V 1 $11/16$ " long .....	.30
Potter 1 Mfd. 1000V 5" long	1.25
Potter 1 lb. pkg. sealing wax .....	.15

POTTER REPLACEMENT CONDENSER CARTRIDGES

Wax-sealed condenser cartridges of various capacities and working voltages are especially prepared for radio repair service for use in repairing condenser filter blocks and by-pass condensers in radio receivers, power packs, amplifiers and B eliminators.

The Potter Replacement Condenser Cartridges are condenser windings without cans. Each cartridge is coated and sealed with a hard wax, entirely resistant to moisture, and offers a protection against mechanical injuries and provides units which can be used for servicing and repairing condenser blocks at less than one-half the cost at which the new condenser block could be purchased.

Replacement Condenser Cartridges are furnished in a variety of capacities, working voltages and sizes, making it possible to repair any condenser block or replace any by-pass unit.

Each Potter Condenser Cartridge will carry designation as to its capacity and working voltage and will include complete instructions describing how condenser blocks may be repaired.

The repairing of condenser blocks or by-pass condensers requires the use of a wax seal, which is furnished in the form of Potter No. 1 sealing wax, and customers attention should be directed to this item when selling Condenser Replacement Cartridges, as it is necessary to seal the condenser block or by-pass unit well after repair is made in order to keep out the moisture, and have the repaired unit give its normal life.

In order that the Replacement Condenser Cartridges may have the full benefit and value of these units it is necessary that when repairing is made that the units be well sealed in the container in which they were removed from. For this operation an especially prepared carton of wax has been put up which includes detailed instructions for use.

The necessity of using sealing wax in repair work is of such importance that it cannot be overlooked as it is most important that all moisture shall be thoroughly and permanently excluded from the container in which the condenser assembly is located and this can be only successfully done by the use of the proper compound, and when repair work is done in this manner successful operation of the repaired condenser block or by-pass unit will result.

Instructions are included in each package of Potter No. 1 Sealing Wax, which gives complete details of handling and description is given as to the principle feature in sealing replacement condenser cartridges in the container.

Service Replacement Parts



REPLACEMENT RESISTANCES



Type 1090

Grid Leaks

No. 1090—Fixed grid leak (metal end) .10
 Sizes .1; .25; .5; .75; 1.0; 2.; 3.; 3.5; 4.; 5.; 6.; 7.;
 8; 9.; 10 megohms.

No. 1092—Metalohm Guide Leak .10
 All sizes .1; .25—1. megohm



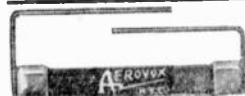
Type 1049

Grid Leak Mountings

No. 1049—Bakelite—Single mounting

No. 1050—Bakelite—Double mounting

15c
25c



Type 1098

No. 1094—Carbon Resistors .20
 Sizes 500; 750; 1000; 1500; 2000; 2500; 3000; 5000;
 7500; 9000; 10,000; 12,500; 15,000; 20,000; 25,000;
 300,000; 370,000; 500,000; 1,000,000 ohms.

No. 1098—Lavite resistors .50
 Sizes 1000; 2000; 5000; 10,000; 15,000; 20,000; 25,000;
 30,000; 50,000; 75,000; 100,000; 200,000; 250,000;
 500,000 ohms.

Pyrohm Resistors



Type 992

No. 992—2" x 7/16" Pyrohm resistors, 15 watts .45
 Sizes 300; 350; 400; 500; 650; 700; 750; 800; 1,000;
 1,100; 1,200; 1,250; 1,500; 1,750; 2,000 ohms.

No. 994—4" x 7/16" Pyrohm resistors, 32 watts .60
 Sizes 500; 1,000; 1,500; 2,000; 2,500; 3,000; 4,000;
 5,000 ohms.

No. 994—4" x 7/16" Pyrohm resistors. .75
 Sizes 6,000; 8,000; 10,000 ohms.

No. 996—4" x 3/4" Pyrohm resistors, 60 watts \$1.00
 Sizes 500; 1,000; 1,500; 2,000; 2,500; 3,000; 4,000; 5,000.

No. 996—40 x 3/4" Pyrohm resistors \$1.25
 Sizes 25,000; 30,000; and 35,000 ohms.

Pyrohm Mountings



Types H-1 and HH-1

H-1 Horizontal .10
 HH-1 Horizontal .25
 H-2 Horizontal .15
 HH-2 Horizontal .25
 V-1 Vertical .10
 VV-1 Vertical .15
 V-2 Vertical .15
 VV-2 Vertical .25

Service Replacement Parts



STANDARD AND REPLACEMENT CONDENSERS

A Power Condenser

Eliminate Hum in A.C. Dynamic Speakers

No. 6A—2000 Mfd. 12 volts **\$2.25**

No. 6A—4000 Mfd. 12 volts..... **3.00**



Type 1460



Type 1475

Bakelite Moulded Mica Condensers

	No. 1475	No. 1450 without mounting	No. 1460
	w/mounting	.0001 mfd. ....	.00005 mfd.
		.0002 ....	.10
.0001 mfd.		.00025 ....	.0001
		.0005 ....	.10
.00015 .....	.001	.0002 ....	.0002
		.20	.0005
.00025 .....	.002	.25	.00025
	.006	.25	.001
.0005 .....	.25	.40	.002
	.01		.10

By-Pass and Filter Condensers



Types 250, 350

No. 250 (200 volt D.C.) Capacities	No. 350 (300 v. D.C.) Non Inductive in Bakelite Case Capacities
.05 Mfd.....	.05 Mfd.....
.1 Mfd.....	.1 Mfd.....
.25 Mfd.....	.25 Mfd.....
.5 Mfd.....	.5 Mfd.....
1.0 Mfd.....	.60
	.60

Compact Condensers in Fibre Tube Cases



Types 270, 470

No. 270—200 v. D.C. Capacities	No. 470—400 v. D.C. Capacities
.01 Mfd.....	.01 Mfd.....
.015 Mfd.....	.015 Mfd.....
.02 Mfd.....	.02 Mfd.....
.03 Mfd.....	.02 Mfd.....
.05 Mfd.....	.05 Mfd.....
.1 Mfd.....	.1 Mfd.....
	.35
	.35
	.40
	.40
	.40

Stamped Metal Case Condensers



Type 260

No. 261—	No. 260—
1.0 Mfd.....	.05 Mfd.....
2.0 Mfd.....	.1 Mfd.....
	.25 Mfd.....
No. 361—	.5 Mfd.....
.5 Mfd.....	
1.0 Mfd.....	No. 360—
	.05 Mfd.....
No. 461—	.1 Mfd.....
.75 Mfd.....	.25 Mfd.....
.5 Mfd.....	
1.0 Mfd.....	No. 460—
	.05 Mfd.....
	.35

Service Replacement Parts



Type 461

Aerovox Buffer Condensers and By-Pass Assemblies

No. 461—21	C— .1—.1	400 volt.....	\$.75
No. 461—31	C— .1—.1—1	400 volt.....	1.00
No. 461—225	C— .25—.25	400 volt .....	.75



Type 207

GENERAL PURPOSE FILTER CONDENSERS

No. 200-S with mounting lugs; No. 207 with feet for mounting.

No. 200-S and 207-200 volt	No. 300-S and 307-300 volt	No. 400-S and 407-400 volt
Capacities	Capacities	Capacities
.05 Mfd. .25	.05 Mfd. .35	.05 Mfd. .35
.1 Mfd. .25	.1 Mfd. .35	.1 Mfd. .50
.25 Mfd. .40	.25 Mfd. .50	.25 Mfd. .50
.5 Mfd. .40	.5 Mfd. .75	.5 Mfd. .75
1.0 Mfd. .60	1.0 Mfd. 1.25	1.0 Mfd. 1.00
2.0 Mfd. 1.00		2.0 Mfd. 1.50
4.0 Mfd. 1.75		



Type 202

FILTER CONDENSERS WITH MOUNTINGS

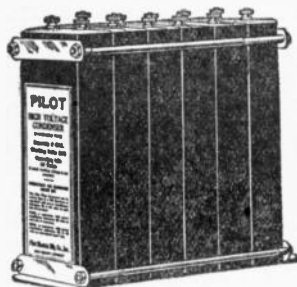
No. 202 (200v. D.C. 125v. A.C.)	No. 302 (300v. D.C. 175v. A.C.)
1.0 Mfd. .75	1.0 Mfd. .85
2.0 Mfd. 1.00	2.0 Mfd. 1.25
4.0 Mfd. 1.75	4.0 Mfd. 2.00
No. 402 (400v. D.C. 250v. A.C.)	No. 602 (600v. D.C. 350v. A.C.)
1.0 Mfd. 1.00	1.0 Mfd. 1.50
2.0 Mfd. 1.50	2.0 Mfd. 2.25
4.0 Mfd. 2.50	4.0 Mfd. 4.00

ELECTROLYTIC HI FARAD CONDENSERS WITH MOUNTINGS

E5 Single Units
5, 6,
8 Mfds. **1.25**

E5 Double Units
5-5, 6-6,
8-8 Mfds. **2.00**

E5 Triple Units
6-6-6, 8-8-8,
Mfds. **3.25**



Pilot "B" Eliminator Condensers

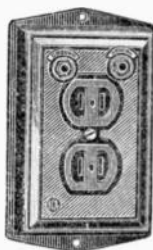
	Price
1 mfd. condenser, 18 D. C. working voltage.....	39c
2 mfd. condenser 300 D. C. working voltage.....	75c
1 mfd. condenser 500 D. C. working volts.....	75c
Condenser block clamps, set.....	39c

Service Replacement Parts

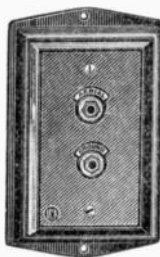
I. C. A. RADIO CONVENIENCE OUTLETS



No. 507



No. 510



No. 506

Radio Convenience Outlets, All Bakelite for Flush Mounting

No. 501 Duplex and Aerial and Ground	\$1.35
No. 502 Two Speakers and Aerial and Ground	1.35
No. 503 A. C. for Set and Speaker .....	.85
No. 504 Speaker Outlet and On and Off Switch	1.10
No. 505 Aerial, Ground, 2 Speakers and 2 A. C.	1.75
No. 506 Aerial and Ground .....	.85
No. 507 Speaker Outlet and Volume Control	1.75
No. 508 Speaker or Head Set Outlet .....	.85
No. 509 Two Speaker Outlets	1.10
No. 510 Aerial, Ground and A. C. Outlet	1.10
No. 511 Toggle Switch .....	.85
No. 79 Multiple Speaker Relay	1.75
No. 87 Insultenna Aerial and Ground	1.75

SERVICE REPLACEMENT PARTS

MISCELLANEOUS PARTS

Bolts and Nuts

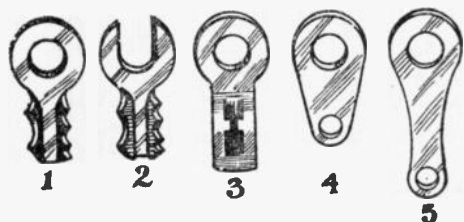
	Price
6-32 Flat Head Mach. Screws, Asstd. Sizes, 85 to box.....	25c
6-32x $\frac{1}{4}$ " Nuts, 20 in envelope.....	5c
5-16 Washers, 20 Asstd. in Envelope.....	5c

Wood Screws

These are iron wood screws with heavy nickel plating. They are put up one assortment with proper sizes for radio sets. They vary in size from $\frac{1}{2}$ " to $\frac{3}{4}$ ". 85 screws in tin box.

	Price
Oval, Flat, and Round Head Screw Assortment, all sizes, box.....	25c

Soldering Lugs



Soldering lugs come in assortments with 24 lugs in a paper envelope.

	Price
Package No. 1 Terminals.....	5c
Package of closed end Terminals, assorted.....	5c
Package of flat end Terminals, assorted.....	5c

Solderall



	Price
One Tube of Solderall Compound.....	25c

Rosin Core Solder

	Price
5' Coil of Rosin Core Solder....	10c
Genuine Kester Rosin Core Solder, packed in tin box.....	25c

Spaghetti Tubing

Spaghetti tubing can be had in four colors—red, black, green and yellow.

	Price
Spagh�tti Tubing, any color, 21" length.....	5c



B-L Rectifier Units

A standard screw base, single wave rectifier with double connector in base of element for all six volt bulb type chargers and power units with charging rate from $\frac{1}{2}$ to $2\frac{1}{2}$ amperes, having double contact in socket.

Caution: C-210 B-L Rectifying Elements MUST NOT BE USED ON B Battery Chargers or B Eliminators. They are essentially low voltage rectifiers, and are not suitable for high voltage works.

Do not use with a transformer having a secondary voltage in excess of 25 volts, or for higher charging rates than $2\frac{1}{2}$ amperes.

Install the rectifying unit in a manner that will permit the free circulation of air through the unit.

Price \$3.25

Binding Posts

Marked Head Composition Binding Posts, any markings, 2 for..	5c
Genuine Eby Marked Head Binding Posts, any markings, each.....	10c

The above binding posts come with following markings: Ant., Gnd., A+, A-, B-, B Det., B+ Amp., C+, C- and Plain Top.

Service Replacement Parts

TOOLS AND TESTING EQUIPMENT

YANKEE METERS



0-50 Ammeter 0-50 Voltmeter.

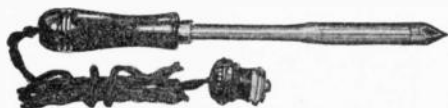
Price

60c

0-50 Voltmeter

50c

Electric Soldering Irons



No. K82 Soldering Iron with Shut-Off switch in handle, two copper tips—bakelite handle plug, six foot cord, green enamel handle...

Price

\$1.00

RADIO FUSES

1-2-3 Amp. radio fuses.....

5c

PANEL LAMPS

5 and 3 volt panel lamps.....

10c



PLUG IN METERS

These meters are very sturdily built, and come complete with bakelite case, cord and plug. The tubes in the set can be removed, and this meter inserted in the socket giving actual "B" and filament voltages.

Price

Yankee plug in meter,
0 to 300 volts D. C.....

\$2.00

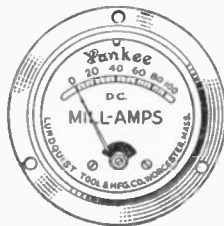
Yankee line tester 0 to 150
volts A. C.....

2.00

5 prong adaptor for either the
first two meters.....

50c

Yankee D. C. Milli-Ammeters



Price

341 Milli-Ammeter 0-50.....

\$1.00

343 Milli-Ammeter 0-100

1.00

347 Milli-Ammeter 0-300.....

1.00

Tools and Testing Equipment

PRECISION WIRE-WOUND RESISTOR



An entirely new resistor, introduced after considerable experimentation to meet the demand for accurate, high value, non-inductive, low distributed capacity resistors, for uses which require accuracy and low temperature coefficient of resistance. This is, we believe, the first resistor made which successfully answers all of these requirements.

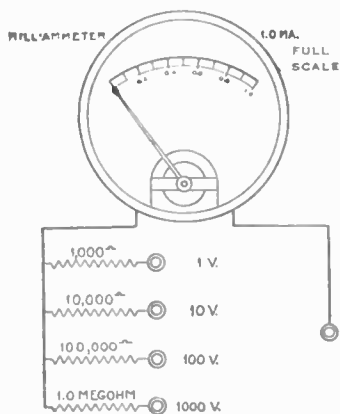


Figure 1.

Typical Schematic Circuit for Converting a Milliammeter to a Multi-Range Voltmeter

1% Accuracy, High Value Non Inductive Low Distributed Capacity

	Price
10,000 Ohms	\$1.50
50,000 Ohms	1.50
100,000 Ohms	2.00
200,000 Ohms	2.00
400,000 Ohms	2.00
500,000 Ohms	3.00

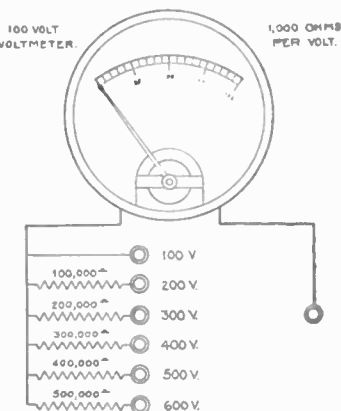
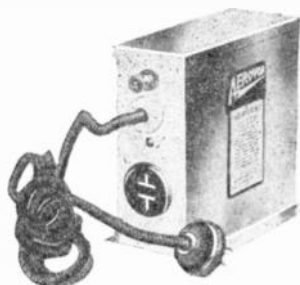


Figure 2.

Typical Schematic Circuit for Converting a Voltmeter to a Multi-Range Voltmeter

Line Interference Filters

Type IN-24



These units can be used between the radio set and the house circuit to filter out electrical vibrations which are causing interference with radio reception. They can also be used for filtering motors or other sources of interference, they are constructed so they will stand continuous service on a 110 volt line.

	Price
No. 26 Junior	\$1.50
No. 25 Senior	\$1.50
No. 24 Senior	\$4.00

DONGAN FILTER UNITS

No. X319 Junior	\$2.25
No. X320 Senior	\$4.00

RECENT RADIO PUBLICATIONS



RADIO DESIGN

Radio design is a small radio magazine published three or four times a year.

15c

Romance and Reality of Television **15c**

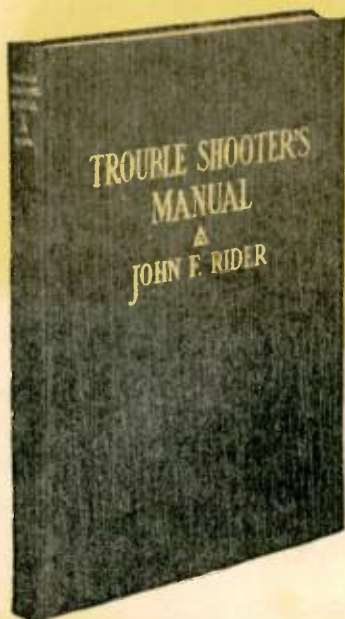
The Radio Pictorial Log and Call Book **Only 10c**



RADIO NEWS

Radio news is one of the oldest and best known of the radio magazines. It is issued monthly, and contains many interesting articles.

25c



CITIZEN'S RADIO **50c** Call Book

Published Four Times a Year

RIDER'S RADIO BOOKS

Trouble Shooter's Manual	\$3.00
Radio Mathematics	2.00
Practical Testing Systems	1.00

The above books are all well known publications by John F. Rider. We recommend them as being essential to any radio service man or radio constructor.