

Number 14

Aug.-Sept., 1932

# RADIO BARGAIN NEWS

Dealers' & service-  
men's *Buying Guide*

*Handled by*

**Federated Purchaser Inc.**

25 PARK PLACE

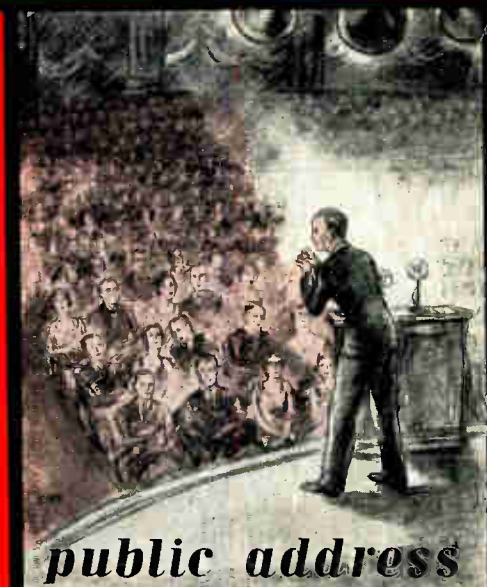
NEW YORK, N. Y.



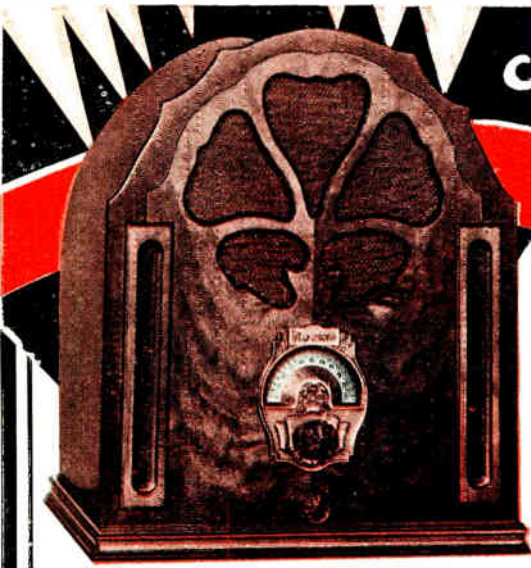
*entertainment*



*servicing*



*public address*



# Acratone 116 ghost tuning MODELS

Cat. No. 38  
200-600 METERS  
110 V. 50-60 CYCLES  
Regular Broadcast Model

**\$14.75**  
Less Tubes

Employs 1-57, 2-58, 1-47 and 1-280 Tubes  
Set of Universal Tubes.....**\$2.95**  
Set of Arcturus Tubes..... **3.85**  
Set of RCA Tubes..... **4.25**

## Features:

- **GHOST TUNING\***
- Automatic Volume Control
- Built-In Antenna
- New Triple Grid Tubes
- Phonograph Jacks
- Illuminated Full Vision Dial
- Beautiful Walnut Cabinets
- 200 to 600 Meter Models
- 200 to 2000 Meter Models
- 75 to 600 Meter Models
- Radio-Phonograph Models

### \* What Is Ghost Tuning?

Heretofore, every set, no matter what it sold for, picked up all man-made static, had a sizzling, swishing noise between stations, with frequent crackling and regenerative squeals. With "GHOST TUNING," Acratone engineers have eliminated these troubles 98%. Complete silence reigns between stations which come in like the snap of a whip. This new feature will be a revelation to your ears. It raises radio reception to the highest level of perfection.

Acratone Engineers have also developed the lowest priced and most compact radio-phonograph combination. Housed in a beautiful two-tone walnut cabinet, 20" high, 18" wide and 15" deep, with hinged top. Furnished with either 200-600 meter or 200-2000 meter chassis. Equipped with silent induction motor of 78 r.p.m., Acratone Hydro-Electric Pickup, radio-phonograph switch, separate volume control for phonograph, needle cup and arm rest.



Model 47, with 200-600 meter chassis for 110V. 60 cycle A.C. **\$33.50** operation, less tubes. . . .

ACRATONE Engineers have a new complete 1933 lines of receivers incorporating all the latest radio improvements, including "Ghost Tuning" and the use of the new type 57 and 58 Triple Grid tubes which entirely eliminate cross-talk and give a maximum of tonal quality. Automatic Volume Control, heretofore only found in the most expensive sets, is now made available to all. Of course the built-in aerial and phonograph jack features have been retained. All these features make ACRATONE the fastest selling high quality midget on the market. Sixteen models, covering every requirement, make it the most complete line of midget sets ever presented.

### Duo-Wave Models 200 to 2000 Meters

This Duo-Wave Acratone was designed primarily for foreign countries where most stations broadcast on wave lengths above 600 and below 2000 meters. Of course it is also a splendid receiver for American stations sending on 200 and 600 meters. It is two receivers in one, but unlike so-called "short and long wave sets" the Acratone is not an ordinary receiver with a short-wave converter, but a real dual-wave receiver.

110V., 60 cycle A. C. Model, Cat. No. 42, less tubes . **\$18.50**

### Short and Long Wave Models 75 to 600 Meters

For those buyers who are interested in short wave reception down to 75 meters, we have designed the ACRATONE 75 to 600 meter set on which one can hear police calls, and short wave broadcast stations. By turning a knob, the set is ready to receive either 75 to 200 or 200 to 600 meter signals. No complicated changes necessary.

110V., 60 cycle Model, Cat. No. 91, less tubes . . . . **\$15.25**

Cat. No.	Receiving Range	Voltage	Cycles	Current	Price
38	BROADCAST 200 to 600 METERS	110-120	50-60	A.C.	<b>\$14.75</b>
39		110-120	25	A.C.	<b>16.25</b>
41		220-250	50-60	A.C.	<b>15.75</b>
23		110-120		D.C.	<b>14.75</b>
24		220-240		D.C.	<b>16.25</b>
42	DUO-WAVE 200 to 2000 METERS	110-120	50-60	A.C.	<b>18.50</b>
43		110-120	25	A.C.	<b>21.50</b>
46		220-250	50-60	A.C.	<b>19.50</b>
6		110-120		D.C.	<b>18.50</b>
32		220-240		D.C.	<b>19.50</b>
91	75 to 600 Short and Long Wave	110-120	50-60	A.C.	<b>15.25</b>
92		110-120	25	A.C.	<b>16.75</b>

### RADIO-PHONOGRAPH COMBINATIONS

47	200 to 600 METERS	110-120	50-60	A.C.	<b>33.50</b>
48		110-120	25	A.C.	<b>37.50</b>
49		220-250	50-60	A.C.	<b>41.00</b>
27	200 to 2000 DUO-WAVE	110-120	50-60	A.C.	<b>39.50</b>
33		110-120	25	A.C.	<b>41.50</b>
30		220-250	50-60	A.C.	<b>42.50</b>

# NOW with NEW TYPE Tubes

## Acratone



The Model 17 uses one of the new type 58, one type 57, one type 56 and one type 55 super power tubes, which give more selectivity and better tone quality.

### MODEL 17 Six Tube Superheterodyne

#### with Automatic Volume Control



**\$19.50**  
LESS TUBES

Cat. No. 17

Cat. No. 84,  
for 220 V. A. C.,  
\$20.50

### Operates Without Aerial or Ground

*The Feature That Overcomes Competition and Breaks Down Sales Resistance*

A special built in antenna is an added feature. This unique device allows demonstration or permanent installation anywhere without the necessity of erecting an aerial or making a ground connection. Just plug in at any available A. C. outlet and tune in. This arrangement enables reception up to 1000 miles with the same splendid quality and good loud speaker volume.

### Automatic Volume Control

Heretofore this feature has been incorporated in only high priced receivers. Automatic volume control was a badge of quality to receivers for discriminating people. And now ACRATONE leads again with this marvelous Superheterodyne receiver with real AUTOMATIC VOLUME CONTROL!

### What Is Automatic Volume Control?

AUTOMATIC VOLUME CONTROL in radio is the same as the SUPERCHARGER is in aviation. It maintains uniform volume over the entire wave band. When the signal strength of a station drops below good volume level, AUTOMATIC VOLUME CONTROL boosts it up to normal.

### Superheterodyne Circuit

The 1932 ACRATONE SUPERHETERODYNE embraces the most advanced design and is built for utmost selectivity, with the usual ACRATONE quality. The circuit is composed of one stage of band pass pre-selector, a Triode oscillator; two stages of intermediate frequency amplification, one of which is the second detector; automatic volume control; one stage of pentode audio amplification and a full wave rectifier. One cannot visualize a more modern receiver!

### Automatic and Manual Tone Regulator

Choice of automatic tone control or regulated blend of tone is incorporated in this receiver, allowing a wide range of tone color, without blast or blare. Full true tone is attained by matching each of the component parts of the receiver itself, while the accentuated bass or treble tones are brought out by the tone regulator.

### Large Dynamic Speaker

A full-sized really powerful dynamic speaker is housed behind a wall of sound insulating baffle. This speaker is designed so that it will efficiently handle even the tremendous output of the powerful receiver without blasting or distortion.

### Tubes Used

- 1-55, 1-56, 1-57, 1-58, 1-247 and 1-280
- Set of Universal Tubes, \$3.50
- Set of Arcurus Tubes, \$4.50



### Selectivity

The pre-selector stage of this receiver allows but 10 K.C. to pass while its intermediates are tuned in band pass fashion, insuring extremely fine tuning. Although this makes the circuit highly selective, it does not cut side bands, which tend to distort or ruin good reception. Every stage is carefully tuned and balanced at the factory, so that no receiver which does not perform as above described passes inspection.

### Super Sensitivity

The owner of this receiver need not listen with marvel to his neighbor's boast of world-wide radio reception. He too can enjoy the thrill with the powerful ACRATONE SUPERHETERODYNE. Distant stations come in without fading and distortion, and sound like locals.

### Spot Tuning

A full vision dial behind which travels a pointer and light to give easy identification of the dial setting. The dial is geared to move slowly so that no stations are passed in tuning and greater sensitivity is the result. Encircling this dial is a beautifully designed es-cutechon which lends character to the receiver.

### Cabinet

This splendid receiver is housed in a carefully finished walnut cabinet of really enchanting design. The handsome Fleur d'lis grill has grace and beauty of lines as well as lending toward simplicity, rather than elaborateness. 17 in. high, 15 in. wide, 3 1/2 in. deep.

### Construction

All the parts going into the manufacture of this receiver are of the highest quality obtainable. Only the best of standard equipment is used, assuring durability and longevity. All components are securely mounted on a heavy steel chassis.

# THE MIGHTIEST MIDGET

# Here is *the* Ultimate in Radio

MODEL 35



## Acratone

Cat. No. 35

# 12 TUBES

### "DualWave" 15 TO 600 METERS SHORT & LONG WAVE RECEIVER

Automatic Volume Control  
12" Jensen Dynamic Speaker  
Visual Tuning — Dual Rectification

**\$34<sup>95</sup>**  
Less Tubes

Size of chassis:  
21½" long, 10" deep  
and 10½" high.

Employs:  
2-58, 2-57, 4-56,  
2-247 and 2-280  
Tubes.

Set of Universal  
Tubes ..... \$7.00  
Set of Arcturus  
Tubes ..... 8.80

Superheterodyne Circuit for Transcontinental Reception. Using Push-Pull Pentode and Variable Mu Tube . . . with all Modern Radio Improvements. (12 Tubes in all—two 58's, two 57's, four 56's, two 247's and two 280's.)

Short-Wave Circuit from 15 to 200 Meters—for International and Other Short Wave Reception. Simply Switch Knob for Short Wave or Regular Broadcast.

2 Sets in 1  
for the price of one receiver!

This marvelous new SUPER-HETERODYNE chassis is the latest product of the ACRA-TEST Laboratories and is truly the *Ultimate in Radio*.

This receiver has been designed and built, from the ground up, for maximum results on both short and broadcast wave bands. It does not require operation by an "expert." All wave bands are covered by the single dial, and the change from one band to another is accomplished by simple, convenient switches. There are no "plug-in" coils to be changed.



#### CIRCUIT

Seven tuned circuits, each of which is set at the factory for maximum sensitivity and selectivity. Overlapping of the closely situated amateur stations completely avoided. The superheterodyne circuit is the most stable and sensitive one known and is unsurpassable for extreme distance, power and selectivity.

#### SHIELDING

Every part mounted on the chassis is completely enclosed in an electrostatic shield, and interstage capacity is avoided. The chassis gives the appearance of a precision built instrument costing several times its price.

#### TUNING

Simplified single dial for all waves, full vision, illuminated. Broadcast band calibrated in kilocycles. Smooth, positive friction vernier drive with no backlash. Visual indicator for "silent tuning." This means that you can tune in any station accurately before turning the volume on. Dualite range indicator on both models. Illuminated band indicator on Model 35 with dial numerically calibrated for short waves.

#### TONE CONTROL

A special feature is the continuously variable "selectone" which allows the operator to choose any tone from high treble to low base.

#### POWER

In this receiver you have a reservoir of power for any occasion. Local stations come in with auditorium-filling volume and distant stations come in like locals by the use of automatic volume control in the Model 35. The tremendous power of this set, always in reserve, is rarely put into full use.

#### CHASSIS

The carefully designed chassis of this receiver is made of the best grade No. 18 gauge cold rolled auto body steel. Electroplated in gold bronze finish. Each component is carefully and securely fastened and so spaced as to evenly distribute the weight.

### Terms:

**20% CASH MUST ACCOMPANY ALL ORDERS.**

Our terms are strictly **NET CASH**. Remarkable values and extreme discounts given by us make it worth your while to buy that way.

Where full cash remittance accompanies the order, 2% discount may be deducted, otherwise a 20% deposit is required with all orders, balance C. O. D.

All goods are shipped f. o. b. New York.  
**WE SELL WHOLESALE ONLY.**

**RETURNING GOODS**—A "Return Merchandise Tag" must be secured from us before any goods are returned. Returned goods must be shipped back in original containers. Write fully reason for return and give us complete instructions regarding adjustment. Merchandise that is defective within the limits of the manufacturer's guarantee will be repaired or replaced **FREE OF CHARGE**. Items misused will be repaired or replaced and a reasonable charge made for such repairs.

**HOW TO ORDER**—Write plainly, order by catalog number and mention items desired, quantity and price. Be sure to include sufficient postage when ordering via Parcel Post, otherwise shipment will be made by express, charges collect.

#### EXPORT ORDERS

Orders to be shipped outside of the United States must have full remittance plus postage as the majority of countries do not have C. O. D. service. Large orders for shipment by railroad or steamer, must be paid in full, plus shipping charges by means of Irrevocable Letter of Credit or New York draft.

All our foreign shipments are understood to be delivered Ex-Warehouse or Railroad Terminal, New York City.

#### RATE OF EXCHANGE

Wherever the rate of exchange on foreign money is considerable, we reserve the right to add an amount sufficient to cover this difference to merchandise shipped.

### Our Guarantee

**WE POSITIVELY GUARANTEE** each and every item in this book to be exactly as illustrated and described. We further guarantee all merchandise to be free from defects in workmanship and material. Any part or parts proving defective will be repaired or replaced promptly.

**WE GUARANTEE** to give you the benefit of any reductions which may take place during the month; this assures you of rock bottom prices at all times.

Due to the tremendous volume of merchandise we handle and the small margin of profit we work on, it is impossible for us to test out each piece of apparatus before shipping, and we expect the dealers to make his own minor repairs when needed. However, we will gladly repair or replace any defective merchandise, providing the dealer pays transportation as this would wipe out our profit in most cases. For any damage to merchandise in transit we expect the dealer to handle his own claim with the transportation company.

**OWING TO THE HIGH COST OF HANDLING AND THE SMALL MARGIN OF PROFIT, WE CANNOT ACCEPT ANY ORDERS FOR LESS THAN \$3.00.**

We reserve the right to ship via express collect any orders on which insufficient postage has been remitted by customers.

We reserve the right to make refunds on any items out of stock.

#### Bank References:

MIDLAND MARINE BANK, NEW YORK  
CORN EXCHANGE BANK, NEW YORK

**M**ORE and more radio dealers and servicemen are learning that it pays to deal with Federated. We have thousands of letters in our files from pleased customers who laud our service. Federated is today considered the largest radio replacement parts house in the country. It carries a tremendous stock of over 3,000 items. With its huge purchasing power, Federated is able to buy right always, and pass big savings on to its customers. Our six branches, located at points of vantage on the Eastern seaboard, are maintained in the interest of speedy service, be-

cause we realize that speed is an important factor in our business. We employ an engineering staff composed of expert technicians in every field of radio—service, public address and transmitting, and these men are always at your service. Federated is constantly alert to the requirements of its customers—that's why it has some 40,000 satisfied ones. Are you one of them?

*B. J. J. J.*  
Advertising Manager



# We meet all competition

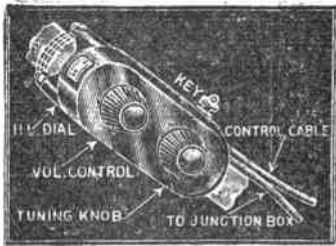
If you see any item in this catalog listed elsewhere at a lower price, we will meet this price providing it is taken from a current catalog. Simply cut out the ad and attach it to your order or state the name, issue and page of catalog in which you have seen it. We make this offer because we know that many dealers would like to concentrate their purchases with us and save transportation charges.

**No Sales Tax Will Be Added to Prices Shown in This Catalog**

**Federated Purchaser Inc.** 25 PARK PLACE, New York City

## UTAH Remote Tuning and Volume Control

Efficient and Easily Installed  
Illuminated Dial



This small (4 1/4 x 2 1/2 in.), but sturdy device will tune and control Midget or auto Receivers from a distance. They are equipped with a long 10 ft. flexible shaft which may be concealed in the wall or along the baseboard. Standard length of flexible shaft is 10 ft., but longer shafts may be had on special order at 25c per foot.

Cat. No. 6847

**Our Price \$6.50**

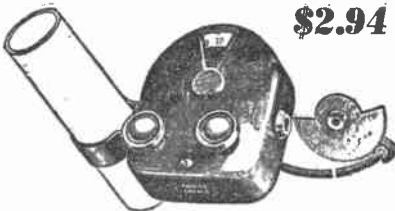
## New Auto-Radio Steering Column Control

Feature Specifications:

Pressed steel construction—all metal parts rust proof cadmium and black finish—small size 3 1/2 ins. x 4 1/4 ins. x 1 in. thick—light weight—key lockswitch—miliometer volume control 100,000 Ohm (other resistances special)—illuminated celluloid dial. Furnished with Steering Column mounting brackets and condenser gear plate for 1/4 in. shaft. 30 in. Flexible shaft and casing standard. Special lengths to order.

**POSITIVE DRIVE—NO SPRINGS  
NO BACK LASH—STAYS PUT**

Cat. No. 5164 **Our Price \$2.94**



**Complete With 30 in. Flexible  
Shaft and One Coupling**

With each control is included 30 inches of flexible shaft and casing, which gives a flexible lead from point at which control is clamped on steering column to a point under the instrument board. Any additional length required may be secured by coupling on additional length of flexible shaft, or solid rod with universal joints.

Prices Additional Flexible  
Shaftings and Joints

Cat. No.	Our Price
5165 Flexible shaft, 1 or 2 foot lengths	\$0.36 ft.
5166 Couplings for rod or flexible lengths	.15 ea.
5167 Universal joints for rod or flexible shaft	.30 ea.
5168 Bessemer Steel Rod, 1/4 in. diameter	.05 ft.

The above equipment will provide an excellent remote control wherever the auto-radio may be installed—whether under the hood, on the dash, or under the floor board.



## Acratest Silencer Kits

For All Makes of Automobile radios except Buick, etc., with overhead valves. These use Cat. No. 6534 suppressors.

Cylinders	Cat. No.	Price
4	4237	\$1.50
6	4238	2.00
8	4239	2.35

Kits for Buick, Willys-Overland and other cars with overhead valves.

Cylinders	Cat. No.	Price
4	7022	\$1.50
6	7023	2.00
8	7024	2.35

## ACRATEST Spark Plug Suppressor



MODEL i

List Price, 50c—Cat. No. 6450

**Price 20c ea.**

Silencer in weatherproof tube. Cannot short circuit or loosen. Connects from spark plug wire to spark plug.

## ACRATEST

### Spark Plug Suppressor

For all Buick, Willys-Knight and other "overhead valve" cars.

Cat. No. 6534



MODEL 'R' **Price 20c ea.**

## ACRATEST

### Distributor Suppressor



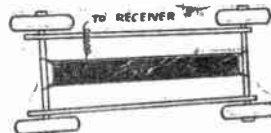
Used in center of distributor cap or coil. Remove center wire, insert split end, insert wire in other end.

List Price, 50c—Cat. No. 6451

**Price 20c ea.**

## HERCULES

### Flexible Car Antenna

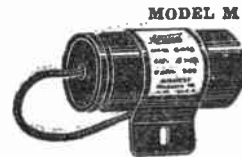


Easy to Install.

Cat. No.	Width	Price
7186	4 in.	\$ .85
7186	6 in.	1.25

Made of closely woven electrolytic copper mesh, and covered with a black meritas synthetic leather. It is 52 in. long and is mounted underneath the car, tied to springs or axles, as shown, by means of the four sturdy canvas straps. Extremely sensitive, and efficient.

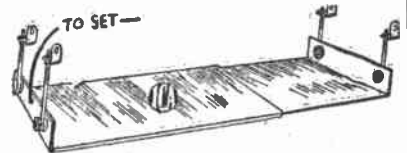
## Generator Silencers



Fasten case to generator or other metal part of car and connect wire to cut out the generator.

Cat. No. 6448	.5 mfd.	35c
Cat. No. 6449	1. mfd.	65c

## New Adjustable Length I. C. A. Auto Antenna



Cat. No. 6952

**Our Price \$2.35**

This aerial is the most ingenious type aerial since it is so constructed that it is possible to adjust it to any desired length.

The adjustable feature makes it possible to regulate the aerial in accordance with the size of the running board. Another feature is that it can be adjusted to take care of the pick up strength of the receiver used in the car.

This aerial is made of metal with an ingenious sliding arrangement and it attaches to the running board of the car. Will fit any make car. Mounts easily. Completely insulated bushings and all hardware is supplied. Mounting instructions are supplied with each aerial.

## Ward DeLuxe Car Antenna



FEATURES

1. More sensitive, in Most cases Exceeds Roof Reception.
2. Triple Action Spring Suspension.
3. Impossible to Short or Ground.
4. Universally Adaptable to Every Automobile.
5. All Parts Rustproof and Sturdily built.
6. High Tension Non-Shorting Lead Wire.
7. Ward Rubber Splash-Guard Furnished with each Antenna.
8. Permanent, Efficient and Easy to install.
9. Cannot Break or Crush.
10. Proven performance on Philco, Motorola, Majestic, General Motors, Sparton, Crosley and all other makes of Auto Radio.

Shipping weight, 5 lbs.

Cat. No. 240

**Our Price \$2.37**

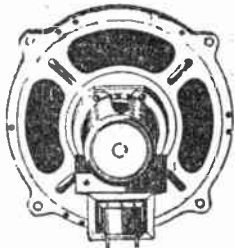
## Ward Royal Automobile Antenna

Same in appearance and construction as the WARD DeLuxe ANTENNA, except that the FRILLS have been omitted in order to bring it down to a popular price.

Cat. No. 316

**Our Price \$1.98**

# ROLA DYNAMIC SPEAKERS



## Series "K"

These are the new 1932 Rola Model K Series with greatly improved reproduction. Where previously the K

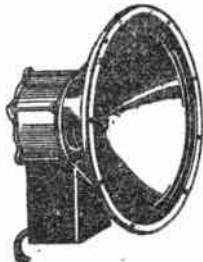
series was specifically designed for use with midget sets, the new K series was engineered for public address and large auditorium work mainly. Extremely large field pots are used, giving greater magnetic strength as well as finer tone reproduction. Greater undistorted output can now be handled without overload.

Single Output	Model	Size	List Price	Our Price	P. P. Output Cat. No.
141	K-5	6½x5½"	\$9.00	\$4.50	178
142	K-6	8½x5½"	11.00	4.95	179
143	K-7	9¾x5½"	13.00	5.25	184
144	K-9	11 x5½"	15.00	5.95	183

Equipped with either single or Push Pull transformer. Standard field coil resistance, 2500 ohms for excitation by 40 to 80 milliamperes of direct current at 75 to 150 volts.

## Majestic Dynamic Speaker

As Used in Majestic 70, 80 and 90 Receivers

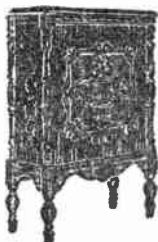


2730 Ohms, D.C. field. Without Output Transformer. Diameter of Cone, 9 in.

Complete with connecting cable and terminal strip. Very rugged construction and suitable for replacement in other sets and for public address installations.

Cat. No. 157 **\$5.95**

## RCA No. 106 D.C. Electro-Dynamic Loud Speaker



For 110-120 V. D.C. 1000 Ohm Field

Walnut finish cabinet, 33½ in. high, 23¾ in. wide, 10¾ in. deep with Velour de Genes embroidered toile front and side panels.

List Price \$85.00

Cat. No. 106

Brand new and packed in original factory cases.

**Our Price \$9.85**

## Series "F"

These new Rola speakers are designed for use with midget radio sets and small electric phonographs. They are highly suited for multi-speaker installations, such as in hotels, schools and hospitals. Overall diameter of "F" speaker is 8 inches.

Model F-2, for 45 tubes in push-pull.

Cat. No. 186 **\$3.75**

Model F-P, for one 47 Pentode Tube.

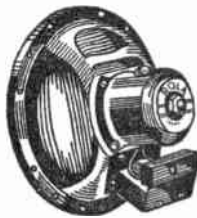
Cat. No. 187 **\$3.75**

Model F-M-Unit less input transformer.

Cat. No. 188 **\$3.25**

Model F-S, same as Model F-P, but 6 in. overall diameter.

Cat. No. 199 **\$2.75**



## Magnavox D.C. Dynamic Speaker Chassis

Made by the pioneer speaker manufacturers with all the precision that goes into quality manufacturing. The frequency response range of these speakers is from 35 to 10,000 cycles, giving perfect reproduction from the lowest to the highest tones.

Require only 40 millia at 90 to 200 volts. For single 247, 233, 238 Pentode.

Cat. No. 147



Overall Diameter, 9 in.

**\$2.95**

## Dynamic Speaker Field Coils

Cat. No.	Speaker	Our Price
6549	Colonial 33	1.45
7191	Freed Eiseman 80, 85	1.45
7192	Jensen 1,000 Ohms	1.45
7267	Peerless 7,000 Ohms	1.25
5819	Radiola 104	\$1.50
5162	Radiola 80, 82, Westinghouse WR5, 6, 7	2.00
7142	RCA Photophone 1,000 Ohms	3.50
7143	RCA Photophone 6 Ohms	5.50
6622	Victor R32, 52, RE48, 75	1.95

## Midget Set Table



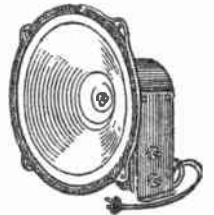
This radio table of simple construction, yet handsome design, finds its place in the home where space is a factor. Constructed of selected gumwood for strength and handsomely high lighted. 22½ in. high, 13 in. wide, 17½ in. long.

Cat. No. 507 **\$2.50**

## Utah 12-Inch Stadium A. C. Dynamic Chassis

SPECIAL MODEL 25 or 60 Cycle 110 Volt A.C.

A superior heavy duty unit for home, theatre, large hall or outdoor use. Capable of handling extreme volume without distortion. Employs Westinghouse Dry Disc Rectifier and extra heavy transformer suitable for 110 volt 25 and 60 cycle A.C. current light-socket supply for field excitation.

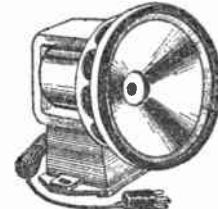


Individually packed. Shipping weight, 24 lbs.

List \$30.00

Cat. No. 166 **\$8.95**

## Genuine Victor D.C. Dynamic Speaker Chassis



Complete with Plug for connection to the Victor Amplifier.

Used in Victor Receivers Nos. RE-75, RE-45, R-32, and R-52, in conjunction with Victor 245 Push-Pull Amplifiers.

Operates from 110-volt D.C. Voice coil impedance 15 ohms, D.C. field resistance, 2,500 ohms. Baffle opening 9 in. Diaphragm 7 in. A reproducer of unexcelled tone quality and great power. Suitable for use with any type receiver requiring above resistances. 24 in. cable.

Cat. No. 149 **\$5.95**



## RADIOLA

Model 106 Speaker D. C. Chassis

This speaker has a field resistance of 1000 ohms and is designed for 110 volt D.C. operation. It can, however, be used as a choke in A.C. Sets or a field exciter unit built to furnish the necessary excitation. Comes equipped with output transformer designed to match any single tube up to the UX-250. Voice Coil Impedance 12 to 15 ohms. 10½ in. overall cone diameter.



Cat. No. 114 **\$5.95**

## Colonial 10" D. C. Dynamic Speaker Chassis

900 OHM FIELD WITH 4 PRONG PLUG AND CABLE For push-pull 245. Used in all Colonial and Silvertone 1931 sets.

Cat. No. 133 **\$3.50**

## RCA Photophone Dynamic Speaker



Here is the genuine RCA Photophone Dynamic Speaker chassis used with Western Electric Sound Systems in theatres. Suitable for public address installations in dance halls, auditoriums, churches, schools, etc.

Cat. No. 161  
**\$7.50**  
Less Baffle

Mounted on Baffle  
1000 Ohm D.C. Field



For A.C. current this Speaker has a field exciter, Cat. No. 85, that uses 2-280 tubes.

Speaker as above with Exciter  
**LESS TUBES**

Cat. No. 110  
**\$13.25**

Cut shows how speaker is mounted on baffle board.

Cat. No. 151  
**\$9.50**

### SPECIAL!

Offered for the **First Time**

RCA Photophone Dynamic Speaker With 6 Volt Field for Public Address Auto Trucks

Genuine Photophone Speaker with 6 volt field coil for use with a 6 or 12 volt battery. For electioneering and advertising trucks.

Cat. No. 152

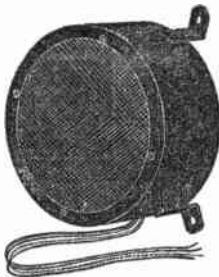
**\$15.00 each**

## OPERADIO Automobile Dynamic Speaker

"The Last Word in Auto Dynamics"

Field Resistance 6 Ohms.

For Push-Pull 238



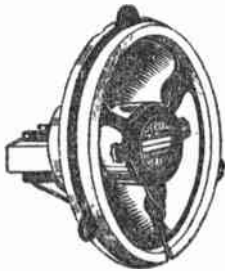
Cat. No. 153

**Our Price \$3.95**

The product of one of the oldest speaker manufacturers, this auto dynamic is very sensitive and will carry ample volume. Housed in an attractive black crystalline metal case 9" in diameter, with 3 mounting brackets.

## OPERADIO

### "Reflex Field" Speaker Chassis



Overall Diameter, 9 in.

The unique construction of the Operadio Dynamic Speaker places it in a class by itself. The field coil pot is located in front of the diaphragm instead of the rear and is supported by extra heavy rigid cast iron frame, making the

speaker rattle proof and ultra sensitive. Supplied in standard field ohmages and for all power tubes, at a sensationally low price.

#### SINGLE OUTPUT

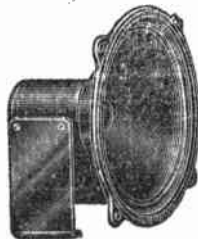
Cat. No.	Tubes	Field Ohms
190	171A, 245	2500
191	247	2500
193	171A, 245	1800, tapped at 300
194	247	1800, tapped at 300

#### P. P. OUTPUT

105	171A, 245	2500
106	247	2500

All at the Remarkably  
Low Price of  
**\$2.65 each**

## Jensen "Concert" D.C.



Electro-Dynamic Speaker

Model D 7 D.C.  
2500 ohm Field  
10 in. Diameter  
1/2 ohm Voice Coil

These units contain suitable push-pull transformers and are absolutely hum-free. Connect directly to the set—no outside wires.

As most standard manufactured A.C. sets are engineered for D.C. speakers of this ohmage, the possibilities for replacement with this really good speaker are unlimited.

The wise merchant or repairman will take advantage of this exceptional "buy". Never before offered at a cut price. The available quantity at this price is limited. Act quickly.

List \$27.50

Cat. No. 121

**Our Price \$5.75**

**CARTON OF 2, \$11.00**

Original factory packing of 2 in a carton.

## Sonochorde A.C. Dynamic Speaker

The new Sonochorde Electro Dynamic Speaker represents a distinct advance in sound reproduction and mechanical design. A new method of cone suspension allows for a small air gap resulting in a highly concentrated magnetic field. A hummingucking ring which balances out the induced A.C. current in the voice coil built into every unit.

Uses 280 rectifier tube, heavy duty power transformer and filter system containing 20 Mfd. electrolytic condensers. Operates without hum from the A.C. lines. Reproduces speech and music with remarkable fidelity and is capable of handling extreme power without distortion.

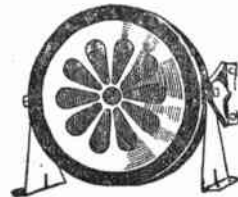
Cat. No. 540

**Our Price \$9.50**

Also Furnished With  
2,500 Ohm D.C. Field  
Cat. No. 541

**Our Price \$3.95**

## Utah Dynamic Auto Speaker



8 in. FULL DYNAMIC SPEAKERS of Utah's high standard. 6 volt field speakers supplied with 12 in. leads.

List Price.  
**\$10.00**

Available for use with 112A, 171A, 238, or 238 tubes in SINGLE or PUSH-PULL OUTPUT, housed in an attractive metal case with movable side-brackets which facilitate mounting at any desirable angle

Cat. No.	Type	} <b>4.45</b>
105	Single 171, 238, 238, 238	
106	P.P. 238, 238	

## A.C. Field Exciter

Here is a unit that has been looked for far and wide and is finally presented to you as an efficient field exciter. It uses 2-280 tubes in parallel, giving an output of 110 mils at 160 volts. It is suitable to use this to run either dynamic speakers or dynamic units. It is built small and compact and to take as little space as possible.



Cat. No. 85

**Our Price \$5.50**

Less Tubes

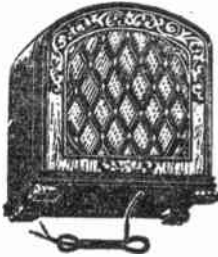


### Kolster K-6 Speaker

St. 12 1/4" high.  
12" wide.  
7" deep.

List Price  
\$35.00

Cat. No. 154



**Our Price \$3.35 ea.**

Equipped with a highly sensitive over-size magnet and a driving unit that is one of the finest, the Kolster responds instantly to the faintest impulse. It faithfully reproduces both voice and orchestra from the faintest whisper to the fullest volume of a brass band. Yet, due to its special construction, the Kolster cannot rattle or blast at any frequencies, and it always brings out the lower notes in their full musical value.

### RCA-Radiola

MADE BY THE MAKERS OF RADIOGRAMS

#### Speaker 103

RCA Loud Speaker 103 beautiful in appearance and superb in its ability to reproduce music and speech faithfully. Its frame and pedestal are molded to resemble hand-carved oak, while a beautiful tapestry medallion conceals the mechanism and completes the decorative design of the instrument.



Cat. No. 103

**\$3.43**

### Premier Magnetic Speaker

Cat. No. 5366

**Our Price \$1.50**



#### FEATURE SPECIFICATIONS

UNIT—A new development—simple in construction and extremely efficient—magnet of "Chrome" steel.

CONE—6 in. diameter standard made from moisture proof fabric formed into specially designed shape.

MOUNTING—Non-metallic bracket requiring a maximum span at its widest point of 6 1/2 inches.

QUALITY—The Premier Magnetic Speaker is highly efficient and covers the tone range in a surprisingly satisfactory manner. Tone quality is excellent, and those that are skeptical about such results from a good magnetic speaker have an agreeable surprise in store when they test the "Premier."

### STEWART WARNER Magnetic Speaker



#### Chassis

It is the only magnetic speaker having laminated pole pieces increasing the magnetic flux. Coil impedance 4500 ohms, matching 17A, 245, 260, or 231 tubes.

Cat. No. 150

**Our Price \$1.95**

For many years this has been the standard of comparison in speakers. A short time ago this speaker chassis was used by such well known manufacturers as Amplicon, Newcombe-Hawley, Marco, Stewart-Warner, etc. This speaker reproduces the full musical scale with as much fidelity and quality as a dynamic. Its ability to handle a great deal of volume without rattle or distortion makes it applicable for use as a monitor or wall address speaker. Special cobalt steel magnet and oversize coils make for faithful reproduction. Will handle 450 volts without burning out.

### FROST FONES The Standard of Quality 2,000 Ohm

Frost Fones continue to maintain their popularity with the radio public. There is a very definite demand for thoroughly high grade phones at a reasonable price and Frost Fones satisfy those exacting demands by those wishing to obtain extremely sensitive instruments. Light in weight, comfortable to wear and easily adjusted.



All materials used are of the very highest quality, and these phones are made in a plant which for over thirty-five years has manufactured high grade telephone equipment.

For testing radio parts or complete sets—for lining up condensers—for peaking intermediate transformers or any similar uses these phones may be depended upon to give perfect satisfaction.

In cases where extremely weak signals are to be received, special arrangement of the relation of diaphragm to pole pieces is effected to give very desirable results. Shells are of polished aluminum with black composition caps.

Cat. No. 6200 **\$1.65**

Eismann Magneto Phones

Cat. No. 5723 **\$1.45**

Genuine Brandes Superior Phones—2,000 Ohms

Cat. No. 3607 **\$1.25**

Genuine Baldwin Type C Phones

Cat. No. 7123 **\$3.95 pr.**

Genuine Nathaniel Baldwin Units

Cat. No. 4262

**Our Price 50c**



### We Can Furnish Cones and Voice Assemblies for the Following Standard Dynamic Speakers

Make of Speaker	Size	Cat. No.	Our Price
Atwater Kent	11"	552	\$2.75
Colonial 33		553	2.25
Decatur	9"	554	1.90
Eveready	9"	555	1.90
Eveready	11"	556	2.25
Farrand	7"	557	2.25
Farrand Ind. Dyn.	11"	558	1.35
First National	9"	559	1.90
Freed-Eisemann NR80, NR87		560	2.70
Jensen DC7 Concert	10"	561	2.25
Kolster	11"	4269	.15
Magnavox	7"	562	2.25
Majestic 70, 90		563	1.80
Newcomb-Hawley	7"	564	2.25
Oxford	7"	565	1.95
Oxford	11"	566	2.25
Philco, any model		567	1.50
Pearico		568	1.90
Stirling	7"	569	2.25
Stromberg Carlson	11"	570	2.25
Symington	9"	571	1.90
Symington	11"	572	2.25
Peerless copper coil	7"	573	1.60
Peerless copper coil	9"	574	1.95
Peerless copper coil	11"	575	2.10
Peerless copper coil	15"	576	2.50
Peerless wire wound coil	7"	577	1.45
Peerless wire wound coil	9"	578	1.65
Peerless wire wound coil	15"	579	2.75
Temple	7"	580	2.40
Temple	10"	581	2.75
Temple Auditorium		582	2.75
Utah	7"	583	1.90
RCA 106		584	2.00
RCA 104		585	2.00
RCA 105		586	2.00
VICTOR RE32, etc.		6519	1.35
Wright DeCoster	8"	588	2.25
Wright DeCoster	10"	589	2.75
Zenith	11"	591	2.25

### Victor Cone and Voice Coil

For Victor Models R32, R52, RE45 and RE75

These are the famous Stevens Burtex cones edged with soft velour. Voice coil and leads for quick installation and precisely fitted.



Cat. No. 6519

**Our Price \$1.35**

### Phonotex Diaphragm for Kolster Magnetic and Dynamic Speakers

1 1/2 in. Diaphragm with soft leather border.

Cat. No. 4269 **15c ea.**

Can be used for replacement on other magnetic speakers.



Cat. No. 4269A—Voice Coil for Above, 35c



# ARCTURUS RADIO TUBES

Arcturus Blue Tubes Give You All These Sales Advantages

The BLUE TUBE WITH THE LIFE-LIKE TONE

**Quick-Action**—Arcturus pioneered the original quick-action tube. **Immunity to Overloads**—Arcturus Blue Tubes resist overload as high as 50%. **Less Hum**—Comparative tests show that Arcturus Tubes have 52% less hum than other tubes. **Long Life**—Arcturus Tubes have established an unchallenged world's record for long life. **Life-Like Tone**—Comparison in any receiver shows the improved tone of Arcturus Blue Tubes.

### ARCTURUS TUBES

Arcturus Radio Tubes have earned a reputation for absolute dependability. Their country-wide popularity is based on extreme efficiency of operation and unusual length of service.

Arcturus Tubes carry the endorsement of the Federated Purchaser and are guaranteed for a period of six months from date of sale.

**124—Screen Grid**

Another 7 second Arcturus tube.

List Price, \$1.65

**87c**

**127—Detector**

The star of the Arcturus line. Acts in 7 seconds. Specially constructed to diminish hum.

List Price, \$1.05

**56c**

**132—2-Volt Screen Grid**

List Price, \$2.35

**\$1.25**

### Additional Arcturus Tubes

No.	Type	List	Net
126	Amplifier .....	\$ .85	\$.45
145	Power Amplifier .....	1.10	.59
181	Half Wave Rectifier .....	5.20	2.75
150	Power Amplifier .....	6.20	3.28
130	2V. Automobile Tube .....	1.65	.87
UX099	Detector-Amplifier .....	2.55	1.25
UV099	Detector-Amplifier .....	1.75	1.45
101A	Detector-Amplifier .....	.80	.42
012A	Detector-Amplifier .....	1.55	.82
122	Screen Grid Amplifier .....	3.15	1.66
071A	Power Amplifier .....	.95	.51
131	2 Volt Amplifier .....	1.65	.87
180	Full Wave Rectifier .....	1.05	.55

**133—2-Volt Pentode**

List Price, \$2.80

**\$1.48**

**136—6-Volt Screen Grid**

List Price, \$2.50

**\$1.48**

**137—6-Volt General Purpose**

List Price \$1.80

**95c**

**138—Auto Pentode**

List Price, \$2.80

**\$1.48**

**Type "PZ" (247) Pentode**

Arcturus developed and established the standards on the "PZ" Pentode tube.

List Price, \$1.60

**85c**

**551 Variable Mu**

This is the new "Variable Mu" tube. Its use will eliminate cross talk, distortion, hum and receiver hiss.

List Price, \$1.65

**87c**

### New Arcturus Tubes

56	Detector-Amplifier .....	\$1.30	\$.66
57	Triple Grid Amplifier-Detector..	1.65	.87
58	Triple Grid Super-Control Amplifier .....	1.65	.87
82	Amplifier .....	1.30	.69
46	Class B Amplifier .....	1.55	.82
134	Super-Control R.F. Pentode ....	2.80	1.48
	Wunderlich .....	3.00	1.76

### 15 Volt A.C. Types

The tubes below all take 15 volts for lighting the filament.

No.	Type	List	Net
26	Detector .....	\$4.00	\$2.12
28	Amplifier .....	3.00	1.59
48	Amplifier .....	3.00	1.59
30	Power Amplifier .....	3.00	1.59
32	High Mu .....	3.00	1.59
22	Screen Grid .....	7.50	3.97

MAIL ORDERS TO See Terms on Page 5

**Federated Purchaser Inc.**

WorldRadioHistory

25 PARK PLACE, N. Y. C.  
or to our nearest branch

# UNIVERSAL



Licensed



## 100% Guaranteed Tubes

Free Replacement for Six Months

These tubes, the product of one of the largest tube manufacturers in the country, are absolutely "first" quality and meter tested to the highest specifications. Tubes not found equal to the performance of any other tubes on the market will be replaced. Packed in attractive 2-color boxes.

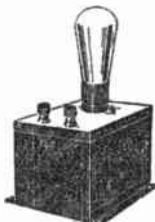
OVER 100,000 OF THESE TUBES HAVE BEEN SOLD BY US DURING THE LAST SIX MONTHS

Type	List Price	Our Price
WD11 Det.-Amp. ....	\$3.00	\$ .72
WD12 " " " " " " " "	3.00	.72
56 A.C. Gen'l Purpose.	1.30	.58
57 A.C. R.F. Pentode..	1.65	.70
58 A.C. Vari-Mu R.F. Pentode .....	1.65	.70
112A " " " " " " " "	1.55	.53
120 3-v. Amplifier ....	3.00	.72
171A ¼-Amp. Amplifier	.95	.38
182 Sparton .....	2.50	.87
183 Sparton .....	2.20	.87
199 U.V. Det. Amp. ....	2.75	.65
199 U.X. Det. Amp. ....	2.55	.65
200A ¼-Amp. Detector.	4.00	.70
201A ¼-Amp. Detector.	.80	.32
210 Power Tube .....	7.25	1.52
216B Rectifier .....	7.25	.87
222 D. C. Screen Grid.	3.15	1.08
224 Quick Heater .....	1.65	.53
226 Det. Amp. ....	.65	.35
227 Det. Amp. ....	1.05	.38
230 2-Volts Det. ....	1.65	.65
231 2-Volt Amplifier ...	1.65	.65
232 2-Volt Screen Grid.	2.35	.72
233 2-Volt Pentode ....	2.80	.79

Type	List Price	Our Price
234 D.C. Varío-Mu Pentode .....	2.30	.87
235 Multi Mu .....	1.65	.53
236 Auto Screen Grid..	2.80	.79
237 Auto Gen'l Purpose.	1.80	.65
238 Auto Pentode .....	2.80	.79
239 R.F. Pentode .....	2.80	.79
240 Hi-Mu .....	3.00	.87
245 Power Tube .....	1.10	.40
246 A.C. Pentode .....	1.55	.65
247 Pentode .....	1.60	.53
250 Power Tube .....	6.20	1.38
280 Full Wave Rect. ...	1.05	.40
281 Half Wave Rect. ...	5.20	1.45
282 Full Wave Mercury Rect. ....	1.30	.58
401 Kellogg Type .....	4.00	1.74
403 Kellogg Output ....	4.50	2.02
484 Sparton .....	2.00	.87
551 Multi Mu .....	1.65	.53
585 Sparton .....	6.00	2.19
588M Mercury .....	2.50	1.75
686 Sparton .....	4.00	.87
866 Half Wave Rect. ..	7.50	1.75
BH125 Full Wave Rect..	4.50	1.08

### A. C. Field Exciter For Dynamic Speakers and Units

This exciter is of the latest type, designed for either the '82 or '83 mercury vapor rectifiers. A switch is provided by which the exciter may be adapted for either of these tubes, depending upon the output required. The '82 tube delivers as much as two 280's, and the '83 gives an additional increase of 40% over the '82.



Cat. No. 7147

**\$5.50**  
Less Tube

### Special Purpose Triad Tubes

Type	List Price	Our Price
T-Tel	\$7.50	\$3.38
T-864	3.50	1.58
T-866	7.50	3.38
C.N.A.		9.00
Pec 2		13.50
Pec 3		18.00
Pec 7		13.50
2050	7.50	4.05
T-34	2.75	1.49
T-46	1.60	.87
T-82	1.25	.68

Complete Descriptive folder sent on request



# Cunningham



## TUBES



Every Tube we ship is carefully tested and guaranteed to be fresh New Stock, in perfect condition, sold with the manufacturer's warranty. Specify RCA or Cunningham.

Type	Description	List Price	Our Price
11	Detector Amplifier .....	\$3.00	\$1.78
12	Detector Amplifier .....	3.00	.91
48	Class B Amplifier .....	1.55	.91
55	Duo Diode Detector.....	1.65	.94
56	General Purpose Triode.	1.30	.77
57	Triple Grid Amp.—Det.	1.65	.94
58	Triple Grid Super Control .....	1.65	.94
112A	Amplifier .....	1.55	.91
120	Amplifier .....	3.00	1.76
171A	Amplifier .....	.95	.61
199UV	Detector Amplifier .....	2.75	1.61
199UX	Detector Amplifier .....	2.55	1.50
200A	Super Detector .....	4.00	2.85
201A	Detector Amplifier .....	.80	.44
210	Power Amplifier .....	7.00	4.12
222	4 Element Tube .....	3.00	1.76
224	Screen Grid .....	1.05	.62
224A	Quick Heater S. G. ....	1.65	.97
226	A. C. Amplifier .....	.85	.60
227	A. C. Detector .....	1.05	.62
230	2v. Gen. Purpose Tube..	1.65	.97
231	2v. Output Tube .....	1.65	.97
232	2v. Screen Grid .....	2.35	1.38
233	D. C. Filament Pentode.	2.80	1.64
235	Super Cont. S. G. ....	1.65	.97
236	S. C. R. F. Amp. D. C. Heater .....	2.80	1.64
237	Dt. Amp. D. C. Heater..	1.80	1.06
238	D. C. Heater Pentode..	2.80	1.64
240	Hi-Mu Amplifier .....	3.00	1.76
245	Power Amplifier .....	1.10	.64
247	Power Pentode .....	1.60	.94
250	Power Amplifier .....	6.20	3.64
380	Full Wave Rectifier ....	1.05	.62
381	Half Wave Rectifier ....	5.20	3.06
382	Full Wave Merc. Vapor Rect. ....	1.30	.74
551	Variable Mu .....	1.65	.94
874	Voltage Regulator ....	4.90	2.88
876	Ballast Tube .....	6.70	3.96

### PHOTO-ELECTRIC Radiotron UX-867

RATING AND DATA  
Anode Supply Voltage (maximum) .....200 Volts  
Anode Current (maximum) .....20 Microamperes  
Window Diameter—



1.25 inches  
Approximate Sensitivity  
Dynamic—

25 Microamperes-1 lumen  
Static—

30 Microamperes-1 lumen  
Maximum Overall Dimensions

Socket, UX or Navy Type  
Diameter .....2 9/16 in.  
Length .....

6 5/16 in.  
For Experimental Purposes Only  
Photo-Electric Radiotron UX-867 is a highly sensitive, general purpose photocell of the central anode type. An output of from 1 to 5 volts can be obtained with excellent fidelity.

#### USES FOR U-867

This tube can be used for talking movie sound equipment, for light intensity measurement, for television purposes and also may be used for operating a relay to indicate when lights are off, and on, and also for burglary alarm, and for experimental purposes.

Cat. No. 867 — List Price \$37.50

**Our Price \$2.95**

# Acra-test



# Power Transformers

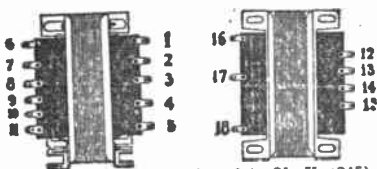
**H**ERE at last is a most complete line of replacement power transformers, which are the result of the most exhaustive research and compilation of records which embrace every electrical set ever placed on the market. The transformers below will suit over 90% of the receivers on the market today. They have been manufactured to our specifications by the largest and best known manufacturers in the country and have a wide margin of safety and are of improved design. They will make a set function like it never functioned before and once an ACRA-TEST power transformer is installed in a set, your customer's transformer troubles are over. The transformers

have been so designed that they are universal in application, that is, they can be mounted in any position, vertical or horizontal. The laminations are of a special steel designed by our engineering staff and only the purest electrolytic copper wire is used for the windings. Every dealer and serviceman should have several of these types of power transformers in his stock, so that he is prepared at all times to replace the power transformer in any set without the slightest delay. Our transformers may not be the cheapest on the market, but they are the best that money can buy no matter what you pay for them. Order an assortment and convince yourself of their special merits.

## Acra-test

### Standard Replacement Transformer

With Universal Mounting Brackets  
For Sets Using Up to 6-224 or 227, 2-245 or 247 and 280 Tubes



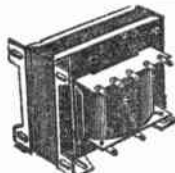
- 2 and 4—2½ V. (245).
- 3—C. T. of above.
- 6 and 10—5 V. (280).
- 7 and 9—2½ V. (224).
- 8—C. T. of above.
- 16 and 18—High.
- 12—120 V. Pri.
- 13—105 V. Pri.
- 14—110 V. Pri.
- 15—Start of Pri.

Size 4¼ in. x 3¼ in. x 4½ in.

Cat. No. 5191, 50-60 Cycles

**Our Price \$2.95**

For sets using up to 4-226, 2-227, 2-171A and 1-280 tubes.

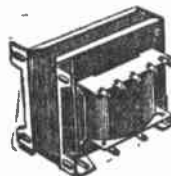


Cat. No. 6025

Size 4¼" x 3¼" x 4½"

**Our Price \$2.85**

For sets using up to 5-227, 2-171A and 1-280 tubes.



Cat. No. 6556

300 V. at 70 mls potential.

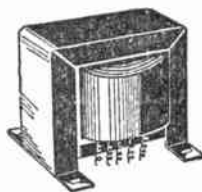
**Our Price \$2.95**

### Universal Midget Replacement Power Transformer

For All Midgets Using Up to 4-224, 1-245 or Pentode and 1-280 Tubes



Supplies the following voltages:  
2½ V. at 7 amps.  
5 V. at 2 amps.  
575 V. at 80 mls.  
Rectified: 325 V. at 30 mls.



- 1 & 3—High
- 2—Center tap of high
- 4 & 5—5 V. (280).
- 7—C. T. of 6 and 8.
- 9 & 10—Primary.
- 6 & 8—2½ V. 7 A. (224).

Size 3¼ in. x 3¼ in. x 3¼ in. Cadmium Plated Frame. This midget power transformer, although of small dimensions, is very rugged and will furnish sufficient current for 4 screen grid, 1-245 or Pentode amplifier, and -280 rectifier tubes, without overheating. It will fit 90% of the midget sets on the market, like Clarion Junior, DeWald Audiola, Melorad, Radiette, Crosley, Audiola, etc., having the power transformer mounted in an upright position. For midgets using side-mounted power transformer, use our Cat. No. 5187, having the same characteristics as this one except for method of mounting.

Cat. No. 5186

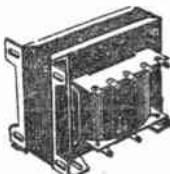
**Our Price \$1.19**

"250" Power Transformer  
Supplies Filament and Plate for 6-227 or 224, 2-250 and 2-281

Cat. No. 5700

**\$4.75**

With 1200 V. C.T. Plate Winding at 160 Mils.

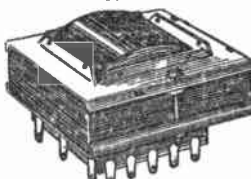


This transformer is ideal for transmitting and public address operation. It has a 2½ volt winding at 12 amperes, 2-7½ volt windings at 3 amperes and a 1200 volt center-tapped plate winding at 160 milliamperes. Lug terminal arrangement identical to our Cat. No. 5190.

## Acra-test

### Heavy Duty Side Mounting Midget Power Transformer

For Sets Using 4-224 or 227, 2-245 or 247 and 1-280



Size: 3¼x3¼ in. Mounting Holes 1¼x2½ in. C. to C. Cat. No. 2532 **\$2.40**

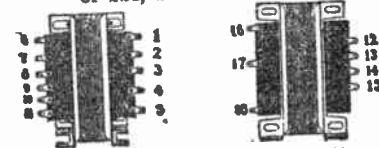
Supplies the following voltages:  
2½ V. at 7 amps. 650 V. High. at 8: C.T. to shield. mls., C.T.  
2½ V. at 3 amps. C.T.

- Features:
- 1—Electrostatic Shield.
  - 2—Special silicon steel core.
  - 3—Heavily insulated coil.
  - 4—Extremely low core loss.
- A sturdy, compact power unit capable of supplying filament and B current to any receiver using the above mentioned tubes. Easy to install anywhere. This transformer is built to a price but for long life and steady performance. No lamination hum.

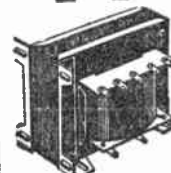
## Acra-test

### "250" Power Transformer

Supplies Filament and Plate for 6-227 or 224, 2-250 and 2-281



- 2 & 4—7½ V. (250)
- 3—C. T. of above.
- 6 & 10—7½ V. (281)
- 7 & 9—2½ V. (224).
- 8—C. T. of above.
- 16 and 18—High.
- 17—C. T. of above.
- 12—120V. Pri.
- 13—105V. Pri.
- 14—110V. Pri.
- 15—Start of Pri.



This transformer is excellent for use in power amplifiers and for replacement in standard sets. The unique bracket arrangement on this unit makes it extremely simple to install.

Cat. No. 5190—for 6-227, 2-250, 2-281 supplying 950 V. C.T. at

140 mls

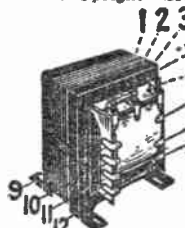
**\$3.50**

## Acratest

### Midget Set Power Transformer

For All Midget Sets Using 5-224, 2-245 and 1-280 Tubes

Can also be used as replacement in other sets where space is limited. With Upright Mounting Brackets.



1 and 5—2½ V. high amp. (224).  
 2 and 4—2½ V. low amp. (245).  
 3—C. T. of above.  
 6—Start of primary.  
 Right fuse clip—120 V. tap.  
 Left fuse clip—110 V. tap.  
 7 and 8—5 V. (280).  
 9—C. T. of above.  
 10 and 12—High voltage.  
 11—C. T. of above.

Cat. No. 2572

**Price \$2.85**

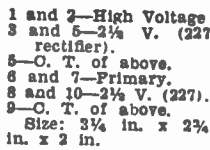
Supplies the following voltages:  
 2½ V. at 8½ amps. 5 V. at 2 amps.  
 4½ V. at 3 amps. 625 V. at 120 mls.  
 Rectified: 375 V. at 120 mls.  
 Size only 4 in. x 4 in. x 3½ in. Equipped with safety fuse block. For 110-120 v. 50-60 cycles A.C.

## Acratest


### Filament and Plate Supply Transformer

For Short Wave Adapters and Oscillators

Supplies 2½ V. for 4-227 Tubes and 165 V. at 20 Mils.



1 and 2—High Voltage  
 3 and 5—2½ V. (227 rectifier).  
 6—C. T. of above.  
 8 and 7—Primary.  
 8 and 10—2½ V. (227).  
 9—C. T. of above.  
 Size: 3½ in. x 2½ in. x 2 in.



Cat. No. 5194

**\$1.45**

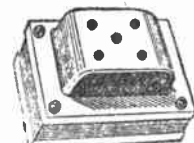
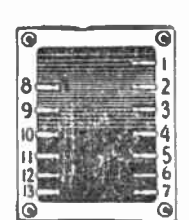
This transformer is particularly useful in oscillators, short wave sets, short wave converters, power supplies for tuners, pre-heaters for tubes, tube checkers, mike and photo-cell amplifiers. Very compact construction. Carefully designed for continuous operation under normal load and may be operated at 25% overload for reasonable lengths of times.

## Acratest

### Side Mounting Midget Power Transformer

For All Midget Sets Using Up to 4-224, 1-245 or Pentode and 1-280.

Fully Enclosed in Cadmium Plated Case

1 and 2—5 Volts (290).  
 3 and 5—2½ Volts (245) 3 A.  
 4—C. T. of above.  
 6 and 7—Primary.  
 8 and 10—High.  
 9—C. T. of high  
 Size: 3½ in. x 3½ in. x 3½ in.  
 Supplies the following voltages:  
 2½ V. at 7 amps.  
 2½ V. at 1½ amps.  
 5 V. at 2 amps.  
 600 V. at 90 mls.  
 Rectified 375 V. at 90 mls.

11 and 13—2½ V. (224) 7.  
 12—C. T. of above

Cat. No. 5187 for 50-60 Cycles

**Price \$1.95**

## Acratest

### Midget Receiver Replacement Power Transformer

For Sets Using up to 2-224, 235 or 551, 1-245 or 247 and 1-280 Tubes

Supplies the following voltages:  
 2½ V. at 8½ amps. 5 V. at 2 amps.  
 600 V. at 70 mls.  
 Rectified: 375 V. at 70 mls.  
 Can be used as replacement in such sets as Gloriotone 4-tube, Fansteel Reporter, Traveler 4-tube, Jackson-Bell Peter Pan, Paramount, Echophone 4-tube, etc.



Cat. No. 6027

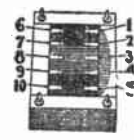

**Price \$1.35 ea.**

## Acratest

### Tube Tester Replacement Transformer

Supplies 1½, 2½, 5, 6 and 7½ Volts at 2 Amps

All from a single common

Cat. No. 6024

Size: 3½ in. x 2½ in. x 2 in.

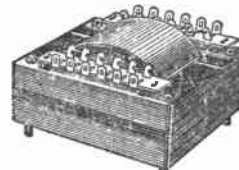
**Our Price \$1.45**

This transformer is a perfect replacement in about 90 per cent of all standard tube checkers. Many experimenters are looking for such a transformer as this for laboratory work. The fixed voltages of this transformer are 1½, 2½, 5, 6 and 7½ volts., though the 2 volt and 3 volt tubes may be run off the 1½ and 2½ volt windings as their current is low and on low current the voltage goes higher.

## Acratest

### Midget Replacement

For 4-224s or 227s, 1-247 or 245, 1-280



1 & 2—5 V. at 2 Amps.  
 3 & 4—Blank  
 5 & 6—Primary  
 7 & 9—High Voltage at 625 V. at 80 Mils.  
 8—C. T. of above.  
 10 & 12—2½ V. at 8½ Amps.  
 11—C. T. of above grounded to frames.  
 3½ in. long.  
 3½ in. wide.  
 weight 5 lbs.

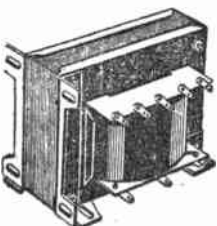
Cat. No. 6250

**\$1.95**

## Acratest

### Replacement Transformer

With Universal Mounting Brackets For Sets Using Up to 5-226, 1-227, 2-250 and 2-281 Tubes.



Size: 4¾ in. x 3½ x 4¾ in.

Cat. No. 5193

**Price \$3.95**

## Acratest

### 25 Cycle Midget Transformer

For 224, 235 or 551, 245 or 247, and 280 Tubes

Upright Mounting, 4¾ in. long, 3¾ in. wide, 4¾ in. high

Cat. No. 5454



**\$2.95**

## Acratest

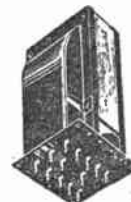
### Power Amplifier Transformer

For 224, 227, 250 and 281 Tubes

Supplies:  
 2½ Volts at 8½ Amps. C.T.  
 7½ Volts at 2½ Amps C.T.  
 1200 Volts at 150 Mils.

Cat. No. 6918

**Price \$3.85**



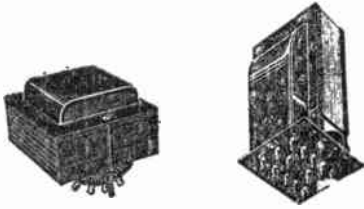
### Thordarson 250-281 Power Amplifier Transformer

Supplies: 2½ V. at 7 A., 7½ V. at 2½ A., 7½ V. at 2½ A. and 1100 V. C.T. Same appearance as No. 6918 above.

Cat. No. 7187

**\$3.95**

# Acratest Replacement Power Transformers



**Type P**      **Type F**  
A transformer for every purpose at prices for every purse. The features of these transformers are:  
Rugged construction  
Compactness  
No lamination hum  
Ample safety factor  
Ease of installation  
Universal Application.  
Models listed below are for 115-V. 60-Cy. A.C.

## Type F—5 Tubes

3-224, 1-247 and 1-280



Size 4 1/2 x 3 3/4 x 3 3/4"  
Chassis opening 2x2 1/2"  
1 & 2—Primary  
3 & 4—2 1/2 V. at 7.25 A  
5 & 9—625 V. at 60 Mills  
6—C. T. of High  
10 & 11—5 V. (280)

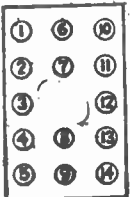
CAT. NO. 6757

Cat. No. 6757

**Our Price \$1.95**

## Type F—8 Tubes

5-224, 2-247 and 1-280



Size 4 7/8 x 3 1/2 x 3 3/4"  
Chassis opening 2x2 7/8"  
1 & 10—2 1/2 V. at 9 A.  
6—C. T. of above  
2 & 11—2 1/2 V. at 3 1/2 A.  
7—C. T. of above  
3 & 13—5 V. (280)  
4 & 12—675 V. at 90 Mills  
8—C. T. of High  
5 & 14—Primary

CAT. NO. 6758

Cat. No. 6758

**Our Price \$2.25**

## Type F—12 Tubes

9-224, 2-247 and 1-280



Size 4 7/8 x 3 3/4 x 3 3/4"  
Chassis opening 2x3"  
1 & 9—2 1/2 V. at 16 A.  
6—C. T. of above  
2 & 10—2 1/2 V. at 3 1/2 A.  
7—C. T. of above  
3 & 11—5 V. (280)  
4 & 12—675 V. at 110 Mills  
C. T. of high grounded to frame  
6 & 13—Primary

CAT. NO. 6759

Cat. No. 6759

**Our Price \$2.35**

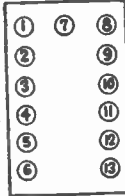
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## Type P—9 Tubes

6-224, 2-247 and 1-280

Size 4x3 1/4 x 3 3/4"



CAT. NO. 6760

Cat. No. 6760

**Our Price \$1.95**

## Type P—12 Tubes

9-224, 2-247 and 1-280

Size 4x3 1/4 x 4"



CAT. NO. 6761

Cat. No. 6761

**Our Price \$2.85**

## TYPE F—9 TUBES

Size 3 3/4 x 3 3/4 x 5 1/2"      31224, 3-227, 3-247 and 1-280

5-6—2 1/2 V. at 12A.  
Yellow—C.T. of above.  
7-4-8—2 1/2 V. at 3 A.C.T.  
10-11—5V at 2A.  
9-3-12—High, 350V. at 80 mills.  
1-2—Primary



Cat. No. 6243

**\$2.85**

## TYPE F—6 TUBES

2-224, 1-227, 2-171 and 1-280

YELLOW

BLACK

GREEN

RED

BLUE

BROWN

PINK

GRAY

ORANGE

WHITE

BLACK

GREEN

RED

BLUE

BROWN

PINK

GRAY

ORANGE

WHITE

BLACK

GREEN

RED

BLUE

BROWN

PINK

GRAY

ORANGE

WHITE

BLACK

GREEN

RED

BLUE

BROWN

PINK

GRAY

ORANGE

Size 3 3/4 x 3 3/4 x 5 1/2"  
Size 3 3/4 x 3 3/4 x 5 1/2"  
7-9—2 1/2 V. at 6A.  
Yellow Lead—C.T. of above.  
6-8-10—2 1/2 V. at 3 A.C.T.  
1-2—280 5V. at 2A.  
3-4-5—High, 300V. at 75 mills.  
Primary—Black and Green

Cat. No. 2600

**\$2.85**

## Radiart Step-Down Transformer



Primary 220 to 250 Adjustable Secondary 110-125. Cap. 160 Watts.

Cat. No. 2576

**Our Price \$4.25**

# Acratest Step-Down Transformer

Input: 220-250 Volt. 60-63. Cycle, A. C.  
Output—110-120 Volt Rated at 150-160 Watt  
For use in localities where 220 volt, 60 cycle A.C. current is supplied. These Transformers adapt current of that voltage to A. C. Radio or other Electrical Appliance which consumes up to 160 watts. Encased and easily mounted.



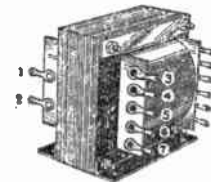
Cat. No. 3157

Size: 4x3 1/4 x 5 1/2 in. Shipping wgt.: 6 1/4 lbs.

**Our Price \$3.15**

## Kolster-Earl Power Transformer

For Replacement in Receivers Using 220, 227, 171A and 250 Tubes.



1 & 2—Primary  
3 & 4—Fil. of 280.  
5 & 7—Plate  
6—C. T. of Plate  
8 & 9—5V. (171A)  
10 & 11—2 1/2 V. (227)  
12 & 13—1 1/2 V. (226)

3 1/2 in. long, 3 in. wide, 1 1/2 in. tall. Weight 3 lbs.

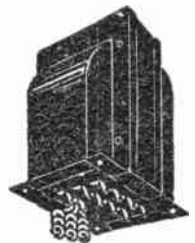
A very popular replacement transformer which can be used in many of the early A. C. receivers like Earl, Freed, Kolster, Philharmonic, King, etc. Mounting Brackets.

Cat. No. 2559

**\$1.95**

## Filco Replacement Power Transformers

The Most Complete Set-up Ever Offered the Serviceman



**\$2.85 each**

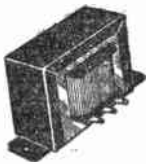
Cat. No.	For Models	Part No.
4321	20, 220	4234
2800	65	3516
6248	70	5117
6242	76, 77	3868
6241	82, 86	3271
6243	92, 95, 95E, 296, 296E	3752
6244	111, 112, 211, 212	4446
6247	90	4938
6247	90	5362
2620	500 Series	3108

### Microphone Shielded Input Transformer

This unit is the result of many months of designing and tests. The frequency is exceptionally flat, from 80 to over 7000 cycles. Primary is split—100 ohms each side of the secondary impedance is of the order of 400,000 ohms. A larger unit than others listing for the same price. The size is 3 3/4 x 3 1/4 x 3 1/2 inches. Matches impedance of all standard type carbon 2-button microphones.



Cat. No. 2625 **\$2.50**



Two Button, Unshielded Microphone Transformer Same Characteristics as our No. 2625

Cat. No. 5596

**\$1.25**

Two button unshielded microphone transformer with 5000 ohm winding for standard pickup and a center tapped secondary so that it may be used with push-pull tubes.

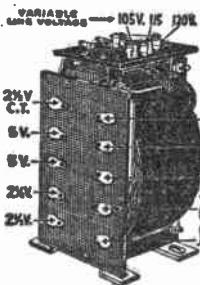
Cat. No. 7145

**\$1.95**

### Universal Replacement Filament and Power Transformer Oversized Power Supply

For 227, 224, 245 or Pentode and 280 Tubes Can be used as replacement in 90% of receivers in the market today. All taps mounted on one bakelite panel. Adaptable for 105 to 125 volts, 60 cycle A. C.

Size: 4 1/4" long, 3 1/4" wide, 5 3/4" high. Supplies the following voltages: 2 1/2 V. at 1.5 Amps. 2 1/2 V. at 3 Amp. 3 V. at 2 Amps. 575 V. at 100 mls. Rectified: 300 V. at 100 mls.



Cat. No. 2560 **\$3.85**

The center tap of the 227 filament winding and the center tap of the high tension winding are grounded to frame.

The 2560 Replacement Power Transformer is designed to be used for replacement purposes in all radio sets which use the following combination of tubes:

- 6 227's or 324's or a combination of these Tubes,
- 2 245's
- 1 280 Tube.

The Transformer is designed to supply both plate and filament voltages. The Transformer will deliver 100 M. A. at 300 volts when a standard 200 ohm choke is used and with a 2 MFD. Condenser ahead of the first choke.

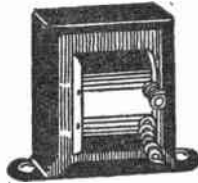
The primary is tapped at 105, 115 and 125 volts to take care of any voltage conditions.

### Acralesst

### 2 1/2 Volt Filament Transformer

Delivers 2 1/2 V. at 5 1/4 amps.

The T-290 Transformer finds its principal use in short wave sets where it is desirable to light the filaments of two or three tubes. Excellent for pre-heaters.



Cat. No. 6022

**Our Price 95c ea.**

Primary, 115 volts. Secondary, 2.5 volts at 5.25 amps. Length, 2 3/4". Height, 2 3/4". Width, 1 3/4". Weight, 1 lb.

### 2 1/2 Volt Filament Transformer

Delivering 12 Amps. Center Tapped

This transformer is of the same appearance as the above except that it delivers 12 amperes and is center tapped. Very useful for pre-heaters, short wave converters, tuners and tube testers.

Cat. No. 6620

**Our Price \$1.10 ea.**

### 7 1/2 Volt Filament Transformer

Same appearance and size as above, but delivers 7 1/2 volts at 3 amps. For transmitters, amplifiers, etc.

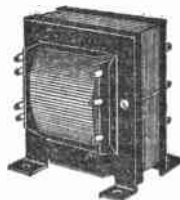
Cat. No. 6023

**95c**

### General Replacement Power Transformer

For Sets Using: 4-226, 1-227, 2-171A and 1-280 Tubes Complete Hook-up enclosed with each transformer.

This transformer is designed primarily for the earlier model receiver for which it is very often difficult to obtain replacements because of the discontinuance of manufacture. Five to seven tubes can be operated in connection with this power unit as follows: 2 to 4 No. 226, 1 No. 227, 1 or 2 No. 171A, 1 No. 280. The high voltage is 600, center tapped, 75 MA. Assembled in brackets for quick installation and equipped with solder lugs providing convenient method of connecting into circuit.



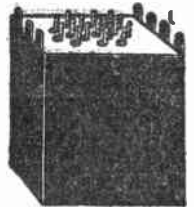
Cat. No. 6031

Width, 3 3/4 in. Height, 4 in. Weight, 4 1/2 lbs. Length, 3 3/4 in.

**\$2.85**

WorldRadioHistory

### BRAND NEW VICTOR Replacement Power Transformer



For Models: R-32, R-52, RE-45 and RE-75

Cat. No. 6830

**Our Price \$2.95**

Do not confuse this transformer with surplus and reclaimed transformers which we and other mail order houses have been selling for as low as \$1.95. This transformer is the current product of one of the largest transformer manufacturers in the country who have been making quality products for 15 years. The original manufacturers' specifications have been not only adhered to but a greater safety factor added and the transformer finished better all around, so that it has eye value besides standing up under the severest tests. When you install this transformer in a set you may rest assured that it will stay installed as long as the set lasts. The electrical characteristics of this transformer are as follows: 1 1/2 Volts for 5-226 tubes; 2 1/2 V. for 227; 2 1/2 V. for 2-245 tubes; 5 V. G. T. for 280 rectifier and 800 V. C. T. at 180 mls high. Can is 4 1/2 x 5 1/2 inches, Weight 6 lbs.

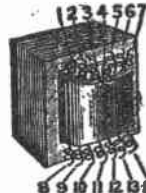
### Surplus Victor Power Transformer

These transformers have been removed from discontinued Victor Amplifiers, and are guaranteed to be in perfect working order. They are scratched here and there due to handling, but mechanically perfect. A marvelous buy at \$1.95.

Cat. No. 2958

**\$1.95**

### General Purpose Replacement Power Transformer



For Kolster, Brandes, Earl, Freed, Amrad and Atwater Kent Sets Using—

287, 224, 245 and 280 Tubes Extra heavy 2 1/2 V. winding will supply filament voltage for up to 9-227 or 224 tubes. Size 4 1/2 in. x 4 1/2 in. x 3 1/2 in.

Cat. No. 3728

**\$2.50**

Two No. 10 wires: 2 1/2 V. (227, 224). Two stranded tinned wires on one side: High.

Stranded main copper wire on same side: C. T. of high.

Two No. 18 wires on same side: 5 volts (280).

Pair of No. 20 twisted wires on same side: 110 V. tap of primary.

(227, 224). Pair of No. 22 wires on same side: Primary 120 V.

Two No. 18 wires on same side: 2 1/2 Volts (245).

Pair of twisted No. 18 wires: C. T., of 2 1/2 V. (245).

### Complete AK 37, 40, 42, 44 Power Pack Replacements

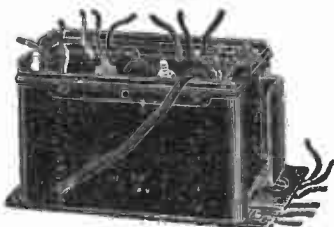


These packs are housed in a can identical with the original, but without the cover, as the old cover will fit. Made according to original specifications and guaranteed. Does not include resistance strip or socket.

Since its introduction by us to the trade this power pack has met with the highest praise and approval. Such acclaim is natural when only the highest grade materials are used in its construction. Do not confuse this fine power supply with makeshift tin can arrangements. Our pack is housed in a heavy gauge sheet steel can of the exact physical dimensions and dark brown finish of the original pack. The condensers, chokes and transformer are rated far above the standards set by the original manufacturer. Each wire is plainly identified and complete hook-up instructions enclosed with each unit. The cover from the old pack will fit this one and provisions for mounting the resistor and cable strip as well as the tube socket can be attached with the greatest facility.

Cat. No. 2609 **\$6.50**

### Original - Genuine Atwater Kent Power Packs



These are genuine power packs manufactured by the Atwater Kent Manufacturing Co. and packed in original sealed factory cartons. Only a few available at this price.

Cat. No.	For Models	<b>\$3.95</b>
7050	42	
7051	50, 52	

### Power Packs for Other A. K. Models

Sets	Cat. No.	<b>\$9.00</b>
48-47-52	6468	
43	6844	
45	6845	

### Replacement Power Transformer for Atwater Kent Model 37 Sets



Built to highest specifications and with a safety factor.

Cat. No. 2642 **\$2.75**

### POWER PACK

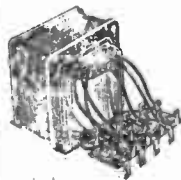
(Consisting of Power Transformer and Choke). Used in the following sets: Silvertone 1928 and 1929 Models, King, Models H and J.



Cat. No. 6504  
6 1/2 x 5 1/2 x 2 3/4"  
Weight, 5 lbs.

**Our Price \$4.50**

### Genuine Earl and Freed Power Transformers



For Model Nos. 21, 22, 55 and 56

Cat. No. 2522  
**Our Net Price \$3.00**

Complete with bracket and strip.

For Freed Models 78, 78S, 79, 79S, 90, 93, 65, and Earl 31, 31S, 32, 32S, 33, 33S, 24, 41

Cat. No. 3738

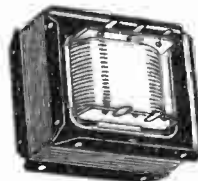
**Our Price \$4.50**

### Acratest

### Universal Replacement Power Transformer With Universal Mounting Brackets ELECTROSTATICALLY SHIELDED

For Sets Using 5-227, 2-245 and 1-280 Tubes

Height, 3 3/4 in.;  
Width, 4 1/2 in.;  
Thickness, 4 1/2 in.  
Mounting Holes,  
Horizontal, 3/4 x 2-  
3/16. Vertical, 3/4  
x 2 1/4; Weight, 6 1/2  
lbs.



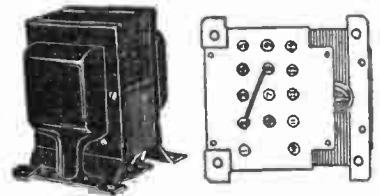
Cat. No. 5414

A most popular replacement transformer and used in many factory built seven, eight and nine tube radios. Liberally designed and well adapted for all receivers where four or five 227 or 224, two 245 and one 280 tubes are specified.  
Primary—115 volts 50-60 cycle.  
Filament 1—2.5 volts 8.75 amps. ct.  
Filament 2—2.5 volts 3 amps. ct.  
Filament 3—5 volts 2 amps. ct.  
Plats—350-0-350 volts 100 mls. ct.  
Primary watts—full load, 90.

**Our Price \$2.25**

### Dongan Shielded Power Transformer

For 224, 227, 245, 280 and Arceturus 15-volt Tubes



Cat. No. 2608

1 and 10—Primary	6 and 7—15 volts
4 and 3—15 volts	11 and 12—5 volts
4 and 13—2 1/2 volts	5 and 14—High voltage
8—Common negative of 4 and 13	9—Common negative of High

Can be used as a power transformer for the Loftin-White Power Amplifier.

**Our Price \$1.10 ea.**

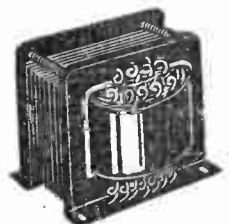
### Earl and Kolster Power Transformer

Same transformer as above with bracket ready for mounting in set.

For 3-226, 2-227, 2-171A and 1-280

Cat. No. 2575

**Our Price \$2.25**



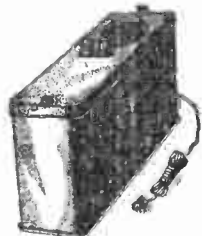
Cat. No. 2658

For 25 Cycles, \$3.00

### Kolster Power Packs

5528	6J
5529	6K
5530	6M
5531	6F
5532	6R

Supply filament and plate voltages for a above sets. Can be used for other sets and for electrification of battery sets.



**Our Price \$9.85 ea.**

### Atwater Kent 55, 55C Replacement Power Transformer

Cat. No. 6013

**Our Price \$4.95**





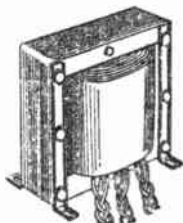
## RADIOLA POWER TRANSFORMERS



Made for replacement in Radiola sets but can be utilized in other sets using the same tubes. All brand new merchandise.

Cat. No.	Part No.	Set No.	Our Price
2581	8335	17, 18, 33, 51	\$1.95
2573	8472	44, 46	2.25
3729	GW2G2	44, 46, 220V. A.C.	3.95
2531	61950	48, 42	2.25
2566	8344	60, 62	2.25
2677	GW46	60, 62, 25 cycle	2.75
2683	GW147	66	3.95
2676	61730	80-82, 86	2.25
6456	RCA-Victor	34, 35, 39, 37	2.23
2331	RCA-Victor	RE-14, 15	2.23
6870	Radiola 104	Speaker 6009	4.50
6816	8399	18, 25 cycle	4.25
		41	2.50

## CROSLLEY Power Transformer



Replacement Part No. 5145

For Sets Using  
3-226 Tubes  
1-227 Tube  
1-171A Tube  
1-280 Tube

For 110, 60 cycle A.C.  
Size 4x3½x2¾ in.

Cat. No. 5075

95c

Red—High Frequency Volt.  
Black (with thin braid)—Pri.  
White—5 V. (280).  
Double Wire—5 V. C.T.  
Heavy Black—1½ V. (226).  
Medium Black—2½ V. (227).  
Thin Black—5 V. C.T. (171).

## Earl Transformer Coil and Terminal Strip

Ready to be assembled with laminations of old power transformer.

For Earl Models 31, 32, 32S and 41.  
Freed Models 78, 79, 79S, 65, 90, 95.



Cat. No. 3172

\$2.25

## We Also Carry in Stock the Following Power Transformer Coils:

Receiver	Model	Coil	Cat. No.
Columbia—500	.....	2052	3173
Columbia-Kolster—950	.....	4336	3174
Kolster—25-cycle for sets requiring 1100, 15, 7½, 1½ and 2½ V.	.....	3448	3175
Kolster—25-cycle for sets requiring 550, 5, 1½, 2½ V.	.....	3558	3176
Kolster—K24	.....	3504	3177
Earl—25-cycle, 21, 22, 55, 56, 52	.....		3178
Freed—25-cycle, 78, 79, 95, 47	.....		3179
Earl—320 Volts, 21, 32, 55, 56, 55	.....		3180

Our Price \$2.00 ea.

## Freshman Filament Supply Transformer

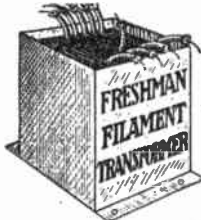
For 226, 227, 224 and 171A Tubes

Has following leads:

1½ V. (226), 2½ V. C. T. (224 or 227).  
5V. C. T. (171A or 112A)

Cat. No. 3724

95c ea.



## General Replacement Power Transformer

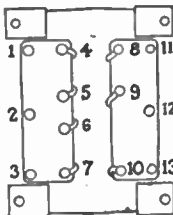
For Sets using: 5-227, 2-171A and 1-280 Tubes.

Cat. No. 5421

Our Price \$1.95

4 in. Long, 3¼ in. High. Weight, 6 lbs.  
1 & 3—5 V. (280 V.)  
2 & 12—H1 (350 V. at 80 mils.)  
3—125 V. tap of primary  
4 & 13—5 V. (171A)  
8—C. T. of 4 & 13  
10—115 V. tap of Primary  
11—C. T. of 2 & 12

A well built rugged transformer that will stand abuse and not overheat in the worst conditions. Silicon steel laminations are tightly packed and held in place by iron frames to eliminate vibration. Coil wound with pure electrolytic copper and all terminals are brought out to bakelite strips and fastened to lugs for easy connections. Mounting feet make it easy to install this transformer.



## Filament and Plate Supply Transformers

FOR 216, 250 AND 281 TUBES

1 & 2—500 Volts  
3 & 5—7½ Volts  
4—C. T. of 3 & 5  
6 & 8—7½ Volts  
5—C. T. of 6 & 8  
9 & 10—Primary  
11 & 12—Bias Resistance

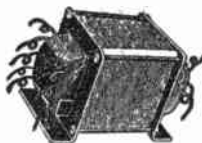


4¼ in. long, 3¼ in. wide, 3¼ in. tall  
Weight, 6 lbs.

Cat. No. 5074

\$1.50

## RADIOLA Power Transformer For Radiola 104 Speaker



Cat. No. 6009

Primary operated in series with UY876 Ballast tube.

Furnishes filament and plate current for 2-281, 1-210 and 7-199 tubes in series.  
3¾" long, 4" wide, 2 5/8" high  
Weight, 10 lbs.

\$4.50

## Filament Supply Transformers

The ideal transformer for testing panels and for converting battery sets for A.C. operation, with B Eliminator.



Cat. No.	Secondaries	Price
2610	2½ V. 9 Amp. 2½ V. 4 Amp.	\$1.95
2614	1½ V. 7 Amp. 2½ V. 2 Amp. 5 V. 2 Amp.	

## Zenith Power Transformer

For Models 52, 53, 54, 55, 60, 61, 62, 64, 67, 602, 613, 622, 642, 672, 71, 72, 73, 77, 522, 532, 542

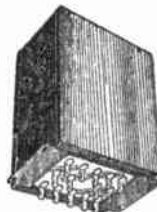
ELECTROSTATICALLY SHIELDED

Part No. 95-96

Employing 227, 245 and 280 Tubes  
6¼" high, 5½" wide, 4" deep.  
Weight 10 lbs.

Cat. No. 5422

\$4.50



Used in P.P. ZE 50-60-70

Description: Equipped with tapped primary and two 2½ volt A.C. windings. Ideal for all Pentode power packs. Exactly like original in every specification, made only as rigid requirements demand, assuring a replacement unit as satisfactory as may be secured.

## ZE7 Filament Transformer

Supplies:

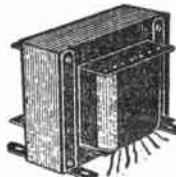
2½ Volts at 6 Amp.  
1½ Volts at 7 Amp.  
7½ Volts at 3 Amp.  
3½ in. long, 2¼ in. wide, 3¼ in. high.



Cat. No. 5736

\$1.25

## Filament and Plate Supply Transformer



for 280 Tube. For B Eliminator and conversion of D. C. dynamo speakers to A. C.

600 V. C. T. at 50 Mils. 5 V. at 2 amp.

Cat. No. 5858

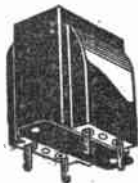
\$1.85

# Acratest Audio Transformers

ACRATEST Audios are already ranked among the finest available. Much care is exercised to see that only the highest quality core and coil go into their construction. Exacting engineers con-

stantly watch the output of the production belt to see that each transformer is laboratory tested, as a poor product is a dangerous enemy. This precision sounds costly, but great volume production and minimized returns help combat high price.

## Acratest Shielded Push-Pull Audio Transformers Permalloy Laminations



Cat. No.	Description	Price
2552	Audio Transformer, ratio 4/1, for use in 1st or 2nd stage.	\$0.95
2651	Push-Pull Input for use with 171A, 245, 250, 247, 231, 233, 238, 210	.80
2652	Push-Pull Output, ratio 80/1, for use with 171A, 245, 250, 231, for connection direct to 10 ohm voice coil of dynamic.	.95
5836	Push-Pull Output for use with above tubes, ratio 30/1, for connection to high impedance voice coil of dynamic.	1.30
<b>Choke</b>		
2563	Small heavy duty 30 henry choke, 125 Mils, matches above transformers.....	.70



## Acratest Midget Dynamic Speaker Output Transformer

This type of transformer is standard equipment on such midget dynamic speakers as Rola, Jensen, Oxford, Quam, Magnavox, Utah and others. These transformers are extremely popular because of their efficiency and small size, 1 1/2x2 in. A good many speakers used in midget sets have an early edition of this transformer which proved unsatisfactory and resulted in poor quality and burnt-out. Replace them with the new and improved type. They are all designed for standard voice coil.

Cat. No.	Description	Our Price
6232	Single tube output for use with 171A and 245.....	.70
6233	Single Pentode output for use with 233 and 247.....	.70
6234	Push-Pull Output for use with 171A and 245.....	.70
6235	Push-Pull Pentode output for use with 233 and 247.....	.70

## THORDARSON 30 Henry Choke



100 Mils at 200 ohms  
2x2x3 1/2 in.  
Weight 2 lbs.  
Cat. No. 7186  
**39c**

## Acratest CONCERTONE PUSH-PULL AUDIO TRANSFORMERS



2673-74-57



2647

Their use in audio circuits gives increased sensitivity, greater distance, and insures a good volume of clear, pure and undistorted reproduction of programs, with all the vital harmonics and rich overtones so essential to true tonal quality.

Heavily insulated throughout, safe for use with power tubes, assembled and sealed into a beautiful black enameled metal case.

The primary impedance is extremely high and exactly correct for A.C. tubes.

Sealing makes it impervious to moisture and eliminates the possibility of opens, either primary or secondary.

Cat. No.	Description	Price
2647	Push-pull Input, lugs on bottom, for use with 171A, 245, 250, 247, 231, 238, 210.....	\$1.45
5839	Push-pull Output, lugs on bottom, ratio 35/1, for use with 171A, 245, 231, for connection to 10 ohm voice coil of dynamic	1.45
2673	Push-pull Input, lugs on side, for use with 171A, 245, 250, 247, 231, 233, 238, 210, recommended for use where fine tone quality is wanted, due to the flat response curve of this transformer	1.80
2674	Push-pull Output, lugs on one side and tip jacks on other, ratio 35/1, for connection direct to dynamic voice coil, for use with 171A, 245, 250, 231.....	1.45
5533	Push-pull Pentode Output, for connection direct to voice coil of dynamic, for use with 247, 233, 238	1.65
3714	30 Henry, 180 Mil Choke, with lugs on bottom like 2647.....	1.20

## Acratest Choke

30 Henry, 150 Mils  
Lug terminals  
on bottom

Cat. No. 3714



**Our Price \$1.20**

## Unshielded Push-Pull Audio Transformers



### Horizontal Mount

Here is a compact transformer which equals in performance any one on the market today. The ease of mounting and wiring of these instruments makes them suitable for almost any set. The highest quality silicon steel and pure drawn copper go into this splendid transformer.

No.	Description	Price
5417	3-1 Audio with leads and mounting brackets for 171A, 245, 247 or 250.....	.85
5418	Push-Pull pentode output to 10 ohm voice coil.....	.80
2567	4-1 Tapped Input with leads and mounting brackets for 171A, 245, 247 or 250 amplifiers.....	.85



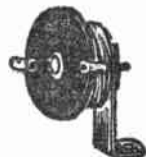
## Acratest Unshielded Push-Pull Audio Transformers With Permalloy Laminations

Cat. No.	Description	Price
5831	3 to 1 Straight Audio for use in 1st or 2nd stage.....	\$1.05
5834	Push-Pull Input for use with all standard tubes	1.20
2570	Push-Pull Output for use with 171A, 245, 250, 231, for connection to magnetic speakers or to dynamics having built-in input transformers.	1.00
5835	Push-Pull Output for use with above tubes, ratio 80/1 for connection to 10 ohm voice coil of dynamic.....	1.00
5838	Push-Pull Output for use with the above tubes, ratio 30/1 for connection to high impedance voice coil of dynamic.....	1.00
5520	Push-Pull Output for use with Pentode tubes only (247, 233, 238), for connection direct to voice coil for dynamic.....	1.00

## Acratest RF Choke

85 Millihenries  
With Mounting Brackets

Cat. No. 2871

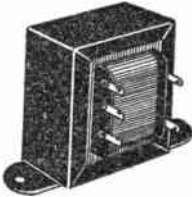


**17c ea.; \$1.75 doz.**

### Microphone or Phonograph Input Transformer

#### Large Audio Mounting

This is an excellent transformer for use on any amplifier or radio receiver. It matches the standard microphone, viz. 200 ohms on each side of center tap for double button microphones and a 5,000 ohm phonograph pick-up. The secondary of this transformer has an impedance of 250,000 ohms.



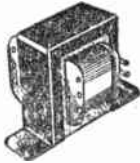
Cat. No. 6915

**Our Price \$1.95**

### Filter Choke to Match

15 Henries at 150 Mils.

Identical in appearance to the 6915 input transformer.

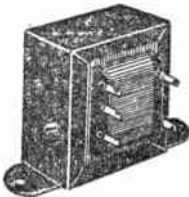


Cat. No. 6916

**75c ea.**

### Push-Pull Output Transformer to Match No. 6915 Input

This transformer is a push-pull transformer for coupling two 171A's, two 250's, two 245's, to various types of speakers and lines. This transformer has a primary of 4,000 ohms center tapped, and secondary windings as follows: Secondary No. 1—4,000 ohms impedance, having a tap at 500 ohms. Secondary No. 2—15 ohms, having a tap at 5 ohms. The 500 ohm impedance winding is for connection to magnetic speakers or dynamic speakers having an input transformer. The 9 ohm winding is for connection to the voice coil of the 9 ohm speaker. The 15 ohm winding is for connection to the voice coil of the 15 ohm speaker or 15 ohm recorder.



Cat. No. 6917

**\$1.95**

**T. C. A. 30 Henry Choke**  
100 Mils—  
250 Ohms



Cat. No. 2505 **45c Each**

### Philco Audio and Push-Pull Transformers



2851-52, 2503

Cat. No.	Description	Used in Models	Part No.	Price
5834	Push-pull Input	20, 20A, 90, 90A, 70, 70A, 220, 220A	4282	\$0.95
2651	Push-pull Input	30, 77, 77A, 86, 87, 76	3242, 3872	.80
2503	Filter Choke	65, 87, 76, 77, 77A, 95, 96, 296, 40, 41	3518, 3472	.70
2647	Push-pull Input	96, 96A, 65, 95, 296, 111, 111A	3637	1.45
2652	Push-pull Output	65, 87, 76, 77, 77A, 95, 96, 296, 40, 41	2848	.95
2552	4/1 Str't Audio	511, 512, 521, 531	3077	1.35
3714	Filter Choke	111, 112, 111A, 112A, 78, 96, 77, 296, 40, 41	3422	.95

### Thordarson Interstage Double Audio Transformer

This transformer is used for coupling a stage of 227, 226 or 201A in push-pull to a stage of 171A, 245, 247, 210 or 250 in push-pull. Both the primary and secondary of this transformer are center-tapped. Excellent for use in public address amplifiers where fine quality is necessary.



Cat. No. 2729

**Our Price \$2.75**

### Thordarson Push-Pull Transformer



From Output of 2-245, 2-171A, 2-231 or 2-250

To Voice Coil of Dynamic. 6 to 8 Ohms.

Very compact—only 1 1/2 x 1 1/2 x 2 1/2 in.

Cat. No. 5620

**Our Price 75c**

### Thordarson Push-Pull Output Choke

Same size and appearance. Matched in same tubes.

Cat. No. 5621

**Our Price 95c**

### Concertone Sealed Audio Transformer

For Highest Quality Reproduction Over Entire Musical Scale

Cat. No. 6030

Ratio, 3 to 1  
3-1/16 in. High  
2-11/16 in. Wide  
3/4 in. Deep,  
incl. Terminals  
Mounting Hole  
Centers 2x2-1/16 in  
Weight, 2 1/2 lbs.



**Our Price \$1.95**

Concertone Sealed transformers are designed to amplify, evenly and uniformly, all notes within the musical scale of either A.C. or D.C. Sets. The Concertone transformers have that nicety of balance, which comes from sufficient winding and large core, to get even amplification factor at low frequencies, yet such that the capacities of the secondary is low enough to prevent resonant peaks at the higher frequencies.

Its use in audio circuits gives increased sensitivity, greater distance, and insures a good volume of clear, pure and undistorted reproduction of programs, with all the vital harmonics and rich overtones so essential to true tonal quality.

The primary impedance is extremely high and exactly correct for A.C. tubes.

### Shielded Universal Output Transformer

For Use With All Types of Tubes, Coupled to Either Voice Coil or High Impedance



This shielded output transformer is recommended for use with No. 171, 245, 247 or 250 tubes in single or push-pull amplification with any of present day dynamic speakers. A comprehensive chart is supplied with each transformer showing the hook-up with any tube and speaker combination, either low, medium or high impedance voice coil. This unit is also equipped with secondary for magnetic speaker providing a simple method of operating an additional speaker when it is desired that one be located at some distance from the receiver.

Cat. No. 6029

Width, 3-1/16"  
Length, 2-11/16"  
Height, 3/4"  
Mounting Hole  
2x2-1/16".  
Centers,  
Weight, 2 1/2 lbs.

**Our Price \$2.85**

### T. C. A. Push-Pull Input Audio Transformer

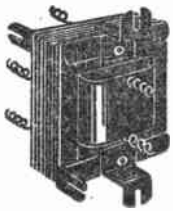
Standard input replacement audio transformer used in Push Pull formation employing 171, 245 and 250 type tubes. Core is of permalloy steel laminations bound by convenient mounting bracket which also serves as a shield. Dimensions: 2x2x3 1/2".



**Our Price 75c**

Cat. No. 5634

### Universal Replacement Audio Transformer



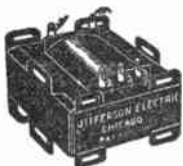
Cat. No. 2502

**85c ea.**

A small and compact transformer, ideally adapted to tight places and can be used in any set, A.C. or D.C., using straight audio amplification. It has two sets of brackets for horizontal or vertical mounting. Size, 1 1/2 in. high, 2 3/4 in. wide and 2 1/2 in. deep.

Weight, 3/4 lb.

### Universal Push-Pull Input Transformers



Cat. No. 5597  
Input

An ideal replacement job because of its compact size, efficiency and low price. Fits under sub-panel of practically every set, including midgets. Universal mounting brackets.

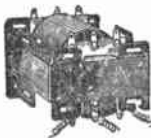
Approximately 2 in. cube. Wt. 1 lb.

**\$1.05 ea.**

### New Universal Tapped Output Transformer

For Use with All Types of Tubes, Coupled to Either Voice Coil or High Impedance

Engineering ingenuity has endowed this new Jefferson tapped output transformer with features insuring flexibility beyond the average conception, together with quality and workmanship expected only in a transformer of much higher price. It is Universal in every sense of the word—it can be used for coupling any combination of tubes (Nos. 171, 245 or the new 247 pentode either single or push-pull) to any dynamic or magnetic speaker either low, medium or high impedance voice coil. A patented bracket permits mounting in any position.



Cat. No. 6028

Width, 1 3/4 in.  
Length, 2 3/4 in.  
Height, 2 in.  
Weight, 1 lb.

**Our Price \$1.05**

The windings are thoroughly impregnated. Each transformer is supplied with complete instructions for installing, including impedance chart.

### DYNAMIC Output Transformer

for Coupling 171, 245, 250 to Voice Coil for single tube output on set



Cat. No. 2637

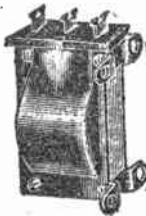
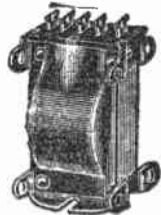
**Our Price 35c ea.**

### RCA Matched Push-Pull Input Transformer and Output Choke

Used in all Radiola models but are small and compact and can be used in any set. Can be mounted horizontally or vertically.

#### INPUT

Terminal 1—Grid  
Terminal 2—Plate  
Terminal 3—"C" battery  
Terminal 4—"B" battery  
Terminal 5—Grid  
Similar to RCA Part No. 1353



#### CHOKE

Terminal 1—Plate and Speaker  
Terminal 2—"B" Supply  
Terminal 3—Plate and Speaker

Cat. No. 2556

**49c per pair**

Output Choke Only, Sold Separately

Cat. No. 2557 **15c ea.**

### Victor Audio Transformer With Pick-up Coil Winding

For Replacement in All Victor Sets Can be used for any tube of high impedance. Has special winding for phonograph pick-up. Magnetically shielded preventing inter-stage feed back. RATIO 3 1/2 x 1.

Terminals are numbered:

- 1—Phone coil
- 2—B plus
- 3—Ground
- 4—Plate
- 5—Grid



**Our Price 75c**

Cat. No. 2581

### Triple 30 Henry Choke

Triple 30 Henry Chokes—40 mils. each, giving total of 120 mils. in series. Can be used in any power supply.

Cat. No. 2518

**95c Each**



### ERLA Audio Transformer

Fully Shielded

Cat. No. 2515

**85c Each**



### BRUNSWICK Low Impedance Input Transformer



For low impedance phone pickups and used in Brunswick Models 32 and 42.

Cat. No. 7204

**\$1.35**

### Stromberg Carlson Choke

30 Henries, 60 Mils  
Fermalloy Laminations  
D. C. Resistance 1000 Ohms

Bakelite terminal strip with soldering lugs. Handsome brown crystal-line finish. Used in Stromberg Carlson 635-636. Part No. 18989.



Cat. No. 3718 **55c**

### Stromberg Carlson Filter Chokes



The Standard of Quality. Steel, jacketed and hum proof. Best adapted for all filter circuits. Conservatively rated.

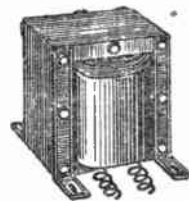
#### Single Choke

8 Henries, 300 Mils, 22 ohms resistance, inductance much higher at smaller currents. 6 in. long, 3 3/4 in. wide, 6 1/2 in. tall, weight 11 lbs. Bakelite terminal strip.

Cat. No. 5252

**65c**

### 1/4 Amp. D. C. Choke



For Power Supplies and D.C. sets. 4 in. long, 2 1/2 in. wide, 5 in. high. Weighs 5 lbs.

Cat. No. 5118

**90c**

### SANGAMO Quality Transformer

Type "CX111" Push-Pull Output Transformer. The impedance of this transformer is designed to match UX-171 and CX-371 and UX-250 and CX-350 power tubes.



List Price \$8.50

Cat. No. 3568

**\$1.15**

**Atwater Kent  
Replacement  
Transformers**



Cat. No. For Models

- 2606 20, 30, 35, 37
- 6896 41, 1st audio
- 6897 41, 2nd audio

P.P. Input

**\$1.25 ea.**

- 7057 40-42-46 Audio .....50c
- 7058 46 Input .....50c

**Amertram  
Audio Trans-  
former**

Volume and Tone  
Quality

Cat. No. 2577

**95c each**



**Double Audio  
Transformers**

Cat. No. 2512



**DOUBLE  
AUDIO  
RATIO**  
5½ to 1

Used in  
Radiola  
Models  
17, 18, 33, 51

**Our Price \$1.40**

**RCA-VICTOR  
Output Transformer**



Output to 10  
Ohm Voice Coil

For Radiola 46, 47  
and 66. Can also be  
used in No. 108  
Speaker with 2 1/10  
mfd. condensers.  
Part No. 6019  
2½x3¾x3 in. tall.

Cat. No. 5625

**Our Price 60c**

**ARL AND FREED  
Audio Trans-  
former**

For  
Model 41 Receiver  
Also used in  
Freed Model 95

Cat. No. 3720

**\$1.50**

Push-Pull Input Transformer for  
above models, in same can.

Cat. No. 3726

**Our Price \$1.85**



**KOLSTER  
Double Audio Pack**



Cat. No.  
5587

**\$1.95**

Part No. A99003. Used in Models K20 and  
K21. Ratio 3½ to 1 D. C. Resistance  
Pri. 1500 ohms each. Sec. 7250 ohms  
each. Lead in yellow spaghetti to core  
of both transformers. Transformers  
mounted at right angle to each other.  
3¾" long, 2" wide, 3¾" tall.

**Victor Push-Pull  
Audio Transformer**

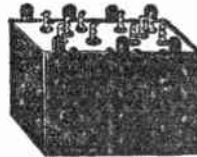
Terminals are  
numbered:

Input

- 1—Plate
- 2—B plus
- 3—Ground
- 4 & 5—Grid

Output

- 1 & 2—Lead  
speaker  
moving coil
- 3—B plus
- 4 & 5—Plate



Cat. No. 5744

**90c  
Per Pair**

Can be used with 171A, 245 or  
250 type tubes.  
Electrostatically shielded. Impregnated  
against lamination vibration, assuring am-  
plification on all frequencies.  
Output Matches Moving Coil on All  
Dynamic Speakers

**Kolster Double Choke**



Part No. A58010

Used in  
Models 6J, 6K,  
6M, 6R, 6P

Cat. No. 5543

**Our Price \$1.95**

**Kolster Output Choke**



100 Mills  
tapped at 80

Same dimensions  
as Audio Trans-  
former.

Cat. No. 3725

**95c**

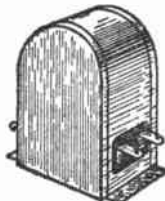
**Superior Shielded  
Audio Transformer**

A real quality job  
for pure tone and  
volume.

Ratio 3½ to 1

Cat. No. 2513

**Price 69c**



**RCA Double Filter  
Chokes**

Contains Two 80 Henry  
80 Mill Chokes



This heavy duty, rugged,  
double Filter Choke is ex-  
cellent for all types of filter  
circuits and experimental  
work in receiving sets,  
power amplifiers, eliminat-  
ors, transmitters and vari-  
ous other purposes.

Made by General Electric  
Company for Radio Corpora-  
tion of America, and is  
RCA Replacement No. 8336  
for the Radiola 33, 18 and 17.

Weight 6 lbs.

Size:  
5¼x3¾x2¾"

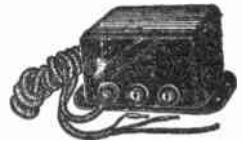
Cat. No.

2500

**Our Price 48c**

**RCA Speaker Filter**

Protects the  
voice coil of  
magnetic and  
dynamic  
speakers and  
prevents them  
from blowing  
out. Clarifies  
tone. Hand-  
some bronze  
case and 8 ft.  
silk cord.



Two Phone Tip Jacks  
are provided for  
Speaker Cord.

Cat. No. 6889

Part No.  
G.W.69

**75c**

**Grebe Audio Transformer**



Contains 4% silicon  
steel laminations. Excel-  
lent for Public Address  
Systems. 2½ in. long,  
2¾ in. wide, 4 in. tall.  
Weight: 2 lbs.

Cat. No. 5105

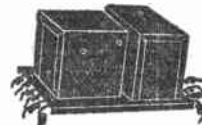
**95c ea.**

**Grebe Input Audio  
Transformer**

Same Size and Appearance as the Audio  
Shown Above.

Cat. No. 6651 **\$1.50 ea.**

**Kolster First Audio and  
Interstage Pack**



Cat. No.  
5534

**\$3.85**

Part No. 13305... Used in Models 903 and  
980. Housed in steel can and mounted on  
steel base, with all wire leads. 6" long,  
3½" wide, 3½" tall.

**Eagle Push-Pull Output  
Transformers**



Shielded Output

No. 2514 **\$1.50**

Unshielded Output

No. 2517 **95c**

# Acratest



# Electrolytic Condensers

## No Liquid, Lightweight—Long Life, Compact

### SELF HEALING

Surge limiting characteristics. Unlike wax paper condensers the chemical features of these condensers are such that they will limit high voltage surges when the set is turned on or off thus preventing to a large extent burnt out tubes and paper condensers.

While only rated at 500 volts peak, these units will withstand momentary over-voltages as high as 600 volts without producing any detrimental effects on the condenser. The electrolyte of Dry Farads condensers is such that when the condenser is broken down due to the application of over-voltage, it will heal itself as soon as the over-voltage is removed.

### Summary of Why Acratest Dry Farads Should Be Used:

1. Low cost per microfarad per volt rating.
2. High voltage rating.
3. Low Voltage leakage.
4. No liquids to run or leak out.
5. Long life.
6. Saving of space, less space required per microfarad than paper or similar condensers.

7. Filtering action is very nearly equal to that of paper condensers of the same capacity.
8. Complete recovery from breakdown when over-voltage is removed.
9. Can be mounted in any position.
10. Low power factor.
11. Minimum chemical action on dielectric film.
12. Unaffected by ordinary temperature.

The aluminum can type is furnished in standard size cans for quick replacement.



### Multiple Anode Upright Units, Type M

Peak Volts 500  
Mounted with Rings

4 1/4" High

Cat. No.	Cap.	Dia.	Anodes	Our Price
5314	14 Mfd.	2 1/2"	8-4-2	1.40
5316	16 Mfd.	2 1/2"	8-8	1.40
5317	16 Mfd.	2 1/2"	4-4-8	1.95
5318	18 Mfd.	2 1/2"	3-9	1.65
5324	24 Mfd.	3"	8-8-8	1.80
5330	20 Mfd.	2 1/2"	5-15	1.80
5332	32 Mfd.	3"	8-8-8-8	2.35
5335	36 Mfd.	3"	18-18	2.95
5336	36 Mfd.	3"	18-9-9	2.50
5354	54 Mfd.	3 1/2"	18-18-9-9	3.30
5352	54 Mfd.	3 1/2"	18-18-8-8	3.30



### Tubular Pigtail Electrolytics

These low voltage tubulars embody all the characteristics of the 500 volt Acratest Electrolytics. They are hermetically enclosed in a non-groscopic tube sealed at both ends. Connections are made by means of the pigtails at each end. Polarity is indicated by the wax color at the ends, the positive having red wax and the negative black.

These units are highly efficient as C Biases for Pentode tubes.

Cat. No.	Cap. Mfd.	Peak Volts	Tube Size	Our Price
6644	7.5	25	3/4 in. O.D. x 2 1/2 in.	\$.20
6645	10.	25	3/4 in. O.D. x 2 1/2 in.	.20
6646	25.	25	3/4 in. O.D. x 2 1/2 in.	.20
6647	2.	50	3/4 in. O.D. x 2 1/2 in.	.25
6648	5.	50	3/4 in. O.D. x 2 1/2 in.	.25
6649	7.5	50	3/4 in. O.D. x 2 1/2 in.	.25
6650	10.	50	3/4 in. O.D. x 2 1/2 in.	.25
6660	2.	100	3/4 in. O.D. x 2 1/2 in.	.30
6661	5.	100	3/4 in. O.D. x 2 1/2 in.	.30
6662	1.	200	3/4 in. O.D. x 2 1/2 in.	.30
6663	2.	200	3/4 in. O.D. x 2 1/2 in.	.30
6664	1.	400	1 in. O.D. x 2 1/2 in.	.27
6665	2.	400	1 in. O.D. x 2 1/2 in.	.27
6724	1.	500	3/4 in. O.D. x 2 1/2 in.	.35
6725	1.	500	3/4 in. O.D. x 2 1/2 in.	.33
6726	2.	500	1 in. O.D. x 2 1/2 in.	.38

### Cardboard Container Electrolytic Condensers



SINGLE SECTION UNITS WITH WIRE LEADS  
PEAK VOLTS 500

Servicemen who in the past have been handicapped in making replacements now have available, through the foresight of the Federated Service and engineering departments, a new type of electrolytic condenser. This unit is housed in a cardboard container and is extremely handy as a replacement.

The capacities listed are in standard size container for replacement of any drytype condenser in a cardboard container. Furnished with two 6-in. wire leads.

Cat. No.	Capacity	Size	Our Price
6491	1 Mfd.	1 x 1 x 2	\$.30
6492	2 Mfd.	1 x 1 x 2	.35
6493	4 Mfd.	1 1/2 x 1 x 4	.40
6494	6 Mfd.	1 1/2 x 1 x 4	.50
6495	8 Mfd.	1 1/2 x 1 x 4	.60

### Single Section Electrolytic Condensers

#### Type I—Inverted



Diameter 1 1/8"  
Peak Volts 500

Cat. No.	Cap.	Length	Our Price
5301	1. Mfd.	400 7/8"	\$.47
5302	2. Mfd.	1-7-16"	.35
5304	4. Mfd.	2 1/2"	.55
5308	8. Mfd.	4 1/4"	.65
5340	4-4 Mfd.	4 1/4"	1.00
6720	6-6 Mfd.	4 1/4"	1.20

### Mounting Brackets for Cardboard Condensers



Cat. No.	Description
6496	For 4 Mfd. Condensers
6497	For 6 and 8 Mfd. Condensers

**Our Price 5c Each**



Is Standard

### Acratest "Power" Filter Electrolytic Condensers

800 volts working,  
1000 volts peak

These newly developed electrolytics make possible the construction of transmitters and power amplifiers at extremely low cost. These condensers are very compact for their capacity enabling their use in any outfit.



#### Features

1. High capacity.
2. Low leakage.
3. Puncture-proof.
4. Self-healing.
5. Long lived.
6. Small size.
7. Excellent Filter action.

Cat. No.	Capacity	Size	Net Price
6931	2 mfd.	1 1/4" x 2 1/4" x 5" High	\$ .85
6932	4 mfd.		
6933	8 mfd.		



### C Bias Condensers for Pentode Tubes

Cat. No.	Cap.	Peak Volts	Anodes	Our Price
5305	5 Mfd.	50	1	\$.27
5310	10 Mfd.	50	1	.27

# Acratest



# Filter Condensers

• Acratest has set a high standard of accuracy and efficiency for all paper dielectric condensers. In general all our new condensers are wound non-inductively of pure linen paper and tinfoil, especially processed to insure maximum insulation resistance in excess of that required by the N. E. M. A. standards. All condensers are conservatively rated to insure long life performance and

maximum results.

• It is our aim to be of utmost service to both dealer and service man and therefore carry the largest and most complete line of condensers available. Every standard type of condenser is carried in stock by us which permits the service man to replace and repair sets in as brief a time as possible.

## Acratest

NON-INDUCTIVE  
Hangup Replacement Sections



Wax sealed paper dielectric sections coated with hard black wax which thoroughly protects sections from moisture. Equipped with two insulated stranded wire leads and very useful for the service man in repairing sections for filter blocks or bypass condensers.

3076	.1	200	5-16x9-16x1 1/4	.....\$ .11
3077	.25	200	7-16x1 3-16x1 3/4	..... .13
3078	.5	200	3/4x1 1-16x1 3/4	..... .16
3079	1.	200	3/4x1 11-16x1 3/4	..... .22
3080	1.	200	3/4x1 1/2x3 1-3-16	..... .22
3081	2.	200	9-16x1 11-16x3 3-16	..... .41
3082	.1	300	5-16x11-16x1 3/4	..... .13
3083	.25	300	3/4x15-16x1 3/4	..... .16
3084	.5	300	9-16x1 9-16x1 3/4	..... .20
3085	.5	300	7-16x1 3-16x3 3-16	..... .20
3086	1.	300	3/4x1 3/4x3 3-16	..... .30
3087	1.	300	3/4x1 3/4x3 5-6	..... .30
3088	1.	300	3/4x1 3/4x4 3/4	..... .30
3089	2.	300	3/4x1 13-16x4 3/4	..... .50
3090	.1	400	3/4x13-16x1 3/4	..... .16
3091	.25	400	3/4x11-16x1 3/4	..... .18
3092	.5	400	11-16x1 11-16x1 3/4	..... .24
3093	.5	400	3/4x1 1/2x3 3-16	..... .21
3094	1.	400	3/4x1 11-16x3 3-16	..... .38
3095	2.	400	1x2 9-16x3 3-16	..... .31
3096	1.	400	9-16x1 3/4x4 3/4	..... .38
3097	2.	400	3/4x1 15-16x4 3/4	..... .65
3098	.1	600	3/4x1 1-16x1 13-16	..... .20
3099	.25	600	3/4x1 1/2x3 3/4	..... .22
3100	.5	600	3/4x1 11-16x3 3/4	..... .33
3101	1.	600	15-16x2 1/2x3 3/4	..... .57
3102	2.	600	3/4x1 3/4x4 3/4	..... .65
3103	.5	1000	3/4x1 7/8x4 3/4	..... .50
3104	1.	1000	1-1-16x2 1/2x4 3/4	..... .70
3109	2.	1000	2 1/2x2 1/2x4 3/4	..... 1.21
3110	.1	1250	3/4x1 5/8x4 3/4	..... .30
3118	.5	1250	3/4x7/8x4 3/4	..... .61
3118	1.	1250	1 3/4x1 3/8x4 3/4	..... 1.00

## Official Refrigeration Service Manual



Compared with servicing a radio set or wiring a house for electricity, the servicing of a refrigerator is absurdly simple, once you get the hang of it.

In this Refrigeration Manual every part is carefully explained; diagrams are furnished of every known machine; special care is given to

the servicing end. The tools needed are illustrated and explained; there are trouble shooting charts, and other service data. OVER 1,000 DIAGRAMS; 352 pages; 9 x 12 flexible; loose-leaf leatherette binder and complete service data.

Regular List Price \$5.00  
**Our Price \$4.00**

## Acratest

NON-INDUCTIVE  
Standard Condensers

A complete series of condensers to fill almost any by-pass requirement. Very useful and employed in almost all popular circuits. Very practical, conservatively rated and will continuously operate at the D.C. used under proper conditions. non-inductively wound, freedom from leakage and the utmost durability.



Cat. No.	Cap.	D.C.W.V.	Our Price
2991	.1	200	\$0.18
2993	.25	200	.22
2995	.5	200	.29
2996	1.	200	.33
2999	2.	200	.54
3050	.1	300	.22
3051	.25	300	.25
3052	.5	300	.32
3053	1.	300	.45
3423	2.	300	.65
3054	.1	400	.21
3055	.25	400	.27
3058	.5	400	.37
3057	1.	400	.45
3058	.1	600	.25
3059	.25	600	.37

## Acratest

NON-INDUCTIVE

High Voltage  
Filter  
Condensers



This series is especially designed for high voltage condensers, a provision made for suitable mounting. Can be used either for replacement or for the amateur in designing transmitters and such other fields where high voltage sections are required.

Cat. No.	Cap.	D.C.W.V.	Our Price
3060	1.	400	\$0.58
3062	4.	400	1.44
3063	6.	400	2.25
3064	1.	500	.63
3065	2.	500	.85
3066	4.	500	1.70
3067	1.	600	.81
3068	2.	600	1.22
3069	4.	600	2.26
3070	.5	600	.60
3071	1.	800	.95
3072	2.	800	1.78
3073	.5	1000	.76
3074	1.	1000	1.30
3075	2.	1000	2.35

Two New Type

## Acratest

Electrolytic Condensers  
Multiple Section Inverted Metal Container Electrolytic Condensers

500 VOLTS PEAK

To simplify service work these condensers are equipped with 4-6" wire leads. Two red positive leads and two black negative wire leads. The negative leads or positive leads can be common or any other combination made depending upon the circuit to be repaired. These electrolytic condensers have the same general characteristics as the Acratest Dry Farad Condensers.



Cat. No.	Capacity	Price
7153	4-4 Mfd.	\$ .90
7154	6-6 Mfd.	1.05
7155	8-8 Mfd.	1.20
7156	4-6 Mfd.	.97
7157	4-8 Mfd.	1.05
7158	6-8 Mfd.	1.10

## Acratest

Multiple Section Cardboard Container Electrolytic Condensers

500 VOLTS PEAK

To simplify service work these condensers are equipped with 4-6" wire leads. Two red positive leads and two black negative wire leads. The negative leads or positive leads can be common or any other combination made depending upon the circuit to be repaired. These electrolytic condensers have the same general characteristics as the Acratest Dry Farad Condensers.



Cat. No.	Capacity	Price
7159	4-4 Mfd.	\$ .75
7160	6-6 Mfd.	.90
7161	8-8 Mfd.	1.10
7162	4-6 Mfd.	.85
7163	4-8 Mfd.	.90
7164	6-8 Mfd.	1.00

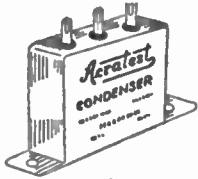
See Our Complete Filter  
Condenser Listing on  
Page 93

# Acratest



# Bypass Condensers

## NON-INDUCTIVE DUAL BY-PASS Condensers



Federated in keeping in line with its custom of development is offering a series of dual condensers which are very practical and at the same time a money saver where two or more condensers of the same capacity are used in the same circuit with the same common lead. Used either as a buffer or by-pass condenser.

Cat. No.	Cap.	D.C.W.V.	Our Price
5563	.1-.1	200	\$0.28
2750	.25-.25	200	.33
2751	.5-.5	200	.42
2756	.25-.25	300	.40
2757	.1-.1	400	.37
2778	.25-.25	400	.43

## NON-INDUCTIVE Base Saving Mounted Condensers



These condensers are used where the base space is at a premium. The dealer and service man will find this

high grade of condenser very practical both for general replacement and the home set builder.

Cat. No.	Cap.	D.C.W.V.	Our Price
2801	.1	200	\$.18
2862	.25	200	.22
2863	.5	200	.27
2865	1.	200	.35
2874	.1	300	.29
2875	.25	300	.32
2876	.5	300	.30
2877	.1	400	.20
2878	.25	400	.28
2879	.5	400	.35

## NON-INDUCTIVE UNIVERSAL BY-PASS Condensers



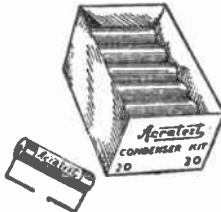
This type was designed to permit large capacities and high voltages. The metal terminals are all specially hot tinned and the cans wax sealed.

Cat. No.	Cap.	D.C.W.V.	Our Price
2783	.1-.1	200	\$0.30
2771	.5	200	.27
2781	.5-.5	200	.42
2780	1.	200	.30
2773	2.	200	.54
2784	.1-.1	300	.32
2774	.5	300	.30
2779	1.-.5-.1	300	.40
2775	1.	300	.45
2785	.1-.1	400	.38
2776	.25	400	.25
2777	.5	400	.30

## Pigtail Condenser Replacement Kit

JUST THE ASSORTMENT FOR THE SERVICEMAN

Cat. No. 3528



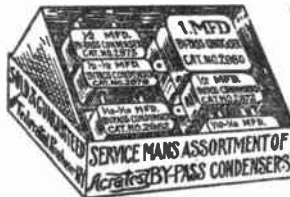
These are the standard pigtail cartridge type condensers, compact, highly efficient, easy to mount and completely insulated.

**\$2.00 per kit**

Kit Contains 20 Pigtail Cartridge Con.

6 — .01 Mfd.	2 — .05 Mfd.
2 — .02 Mfd.	2 — .075 Mfd.
2 — .025 Mfd.	6 — 1 Mfd.

## NON-INDUCTIVE Universal By-Pass Condenser Kit



Contains an assortment of sizes commonly used in all sets. Very handy for the service man.

Contains 12 Assorted Condensers as follows:

2 — .5 Mfd.	200 Volts.
2 — 1 Mfd.	200 Volts.
2 — .5 Mfd.	300 Volts.
2 — 1 Mfd.	300 Volts.
1 — .25 Mfd.	400 Volts.
2 — .5 Mfd.	400 Volts.
1 — 2 Mfd.	200 Volts.

Cat. No. 3532

**\$3.25 per kit**

## Tubular Condensers



These condensers are made of the highest grade of electrical fibre tubing and those listed are most commonly used. Units are completely dipped before sealing, thus making the actual unit itself moisture proof and the entire unit is hermetically sealed. Very useful in general replacement work and employed in most every circuit.

Cat. No.	Cap.	D.C.W.V.	Our Price
2804	.25	200	.19
2806	.5	200	.25
2808	.01	300	.16
2811	.05	300	.16
2813	.1	300	.18
2814	.2	300	.21

## PIGTAIL Cartridge Condensers

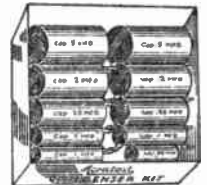


This condenser is by far the most useful of any condenser on the market and a real aid to the service man for making repairs. It is a small, compact unit, hermetically sealed and completely insulated. Furnished with tinned pigtail leads which permit free soldering to all parts of the circuit and very handy for general replacement work. Order a complete range now for your service department.

Cat. No.	Cap.	D.C.W.V.	Our Price
5637	.1	200	\$0.10
2835	.25	200	.16
2836	.5	200	.19
2816	.01	300	.12
2817	.02	300	.12
2818	.025	300	.12
2819	.03	300	.12
2820	.04	300	.12
2832	.05	300	.13
2833	.075	300	.17
2834	.1	300	.13
5638	.15	300	.17
5639	.2	300	.17
2837	.25	300	.20
2838	.5	300	.25
5640	.01	400	.13
5641	.02	400	.13
5642	.025	400	.14
5643	.03	400	.14
5644	.04	400	.14
5645	.05	400	.15
5646	.1	400	.16
5647	.15	400	.18
5648	.2	400	.20
5649	.25	400	.23
5650	.005	600	.12
5651	.006	600	.12
5652	.01	600	.15
5653	.02	600	.18

## Tubular Condenser Kit

An assortment of the small tubular fibre condensers ready for any repair job. Indispensable to the modern service man.



Cat. No. 3531

Contains 12 Assorted Condensers as follows:

2 — .25 Mfd.	200 Volts.
2 — 5 Mfd.	200 Volts.
1 — .01 Mfd.	300 Volts.
1 — .05 Mfd.	300 Volts.
3 — 1 Mfd.	500 Volts.
3 — .2 Mfd.	300 Volts.

**\$2.40 per kit**



# Micamold Fixed Condensers

## MICAMOLD

### Trimmer Condensers



A sturdy, accurate neutralizing, balancing or trimmer condenser, for use in balancing multiple tuned circuits, or equalizing separate condensers gauged for single control. Bakelite base, mica dielectric, heavy phosphor bronze spring plates with fine screw adjustment. The plates are tinned to permit easy soldering.

#### For T. R. F. Circuits

Cat. No.	Capacity From	12c ea.
2881	5 to 25 Mmfd.....	
2882	5 to 50 Mmfd.....	
2883	5 to 100 Mmfd.....	

#### For Superheterodyne Circuits

Cat. No.	Capacity From	21c ea.
2884	100 to 150 Mmfd.....	
2885	150 to 200 Mmfd.....	
2886	200 to 250 Mmfd.....	
2887	250 to 300 Mmfd.....	

### Precision Mica Condenser Standards 1% Tolerance

Accurate, in accordance with many requests, is now fulfilling a long wanted need for the radio laboratory, amateur set builder and experimenter. We are listing and stocking a complete line of mica condenser Standards which can be used in critical circuits in tuned radio frequencies and superheterodyne circuits, and can also be used as standards for checking capacity bridges and microfarad meters.



Type A

These condensers are built of a selected grade of clear India mica, tested to be free of all foreign matter and subjected to severe voltage tests and molded in genuine bakelite under laboratory supervision. They are not affected by moisture or temperature conditions. These condensers are all adjusted to a normal tolerance of 1% of their rated capacity with extremely high insulation resistance and low power factor. Accuracy is maintained under the most trying conditions.

Cat. No.	Capacity	Our Price
5708	.00005	\$.28
5709	.0001	.24
5710	.00015	.24
5711	.00025	.24
5712	.0005	.24
5713	.001	.32
5714	.0015	.34
5715	.002	.38

### R.C.A. Buffer Condenser

.002 on Each Side of Common Negative

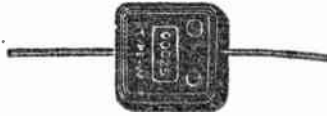


Cat. No. 2910

**\$1.25 Dozen**

## MICAMOLD

### Molded Mica Pigtail Condenser



Size 1/4 x 3/8

Particularly adapted for quick replacement. Wires can readily be bent at any angle and the condenser itself can be mounted in the smallest possible space.

Cat. No.	Cap. Mfd.	Our Price
6629	.00005	\$.10
6630	.0001	.10
6631	.00025	.10
6632	.00025	.10
6633	.0003	.10
6634	.00035	.10
6635	.0005	.10
6636	.00075	.12
6637	.001	.14
6638	.0015	.14
6639	.002	.15
6640	.0025	.18
6641	.003	.22
6642	.0035	.24
6643	.004	.26

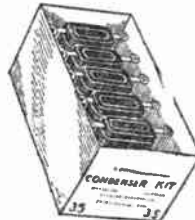
## MICAMOLD

### Bakelite Condenser Kit

Cat. No. 3529

#### Type J

A very useful mica condenser kit of the commonly used capacities in every circuit.



Contains 35 Condensers  
Assorted Capacities  
**\$2.95 per kit**

### Utility 8 Mfd. Electrolytic Condenser

Working Voltage 450

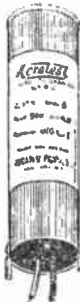
Primarily designed for replacing obsolete types electrolytic condensers, this condenser can be very easily mounted by drilling two small holes in chassis, through which the screws fit and are tightened with nuts.

4 1/2" high, 1 1/4" dia.

Two wire leads for easy connections.

Cat. No. 6930

**59c ea.**



## Micamold Molded Bakelite Mica Condensers



Type J

Type A

Made by the world's largest manufacturers of mica condensers under original process developed by them. These condensers are molded of genuine bakelite under extremely high hydraulic pressure, which seals the condenser and is an armored casing against all weather conditions, moisture or chemical action. The dielectric is of the finest grade of clear India ruby mica in combination with tin-foil plates.

Type A has insulated mounting holes to allow for screw or eyelet assembly direct to a metal base.

Type J is a small compact unit for general replacement work and set builders.

Capacity	—Type J—		—Type A—	
	Cat. No.	Our Price	Cat. No.	Our Price
.00003.....	5426	.10		
.00005.....	5122	.10	3134	.12
.0001.....	3123	.09	3135	.10
.00015.....	3124	.09	3136	.10
.00025.....	3125	.09	3137	.10
.0002.....	5455	.10		
.00035.....	3120	.09	3138	.10
.0005.....	3127	.09	3139	.10
.00075.....	3128	.10	3140	.12
.001.....	3129	.12	3141	.14
.0015.....	3130	.12	3142	.14
.002.....	3131	.14	3143	.15
.0025.....	3132	.14	3144	.15
.003.....	3133	.15	3145	.18
.0035.....	5428	.15		
.004.....	5429	.18	3146	.21
.005.....			3147	.22
.006.....			3148	.24

## MICAMOLD

### Bakelite Condenser Kit

#### Type A



Contains a complete assortment of the commonly used condensers used with insulated mounting holes for screw mounting direct to metal chassis.

Contains 35 Condensers  
Assorted Capacities

Cat. No. 3530

**\$3.50 per kit**

MAIL ORDERS TO See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C.  
or to our nearest branch

# FLECHTHEIM SUPERIOR CONDENSERS

## Non-Inductive Compact Type Filter Condensers

Type GF, Rated at 400 V. D.C.  
(220 rms. A.C.)

A brand new type of filter condenser of the manufacturer's type, at a very attractive price. Solder-lug terminals make connections to these condensers a trifling matter of a few seconds. Excellently insulated and built to stand up, they are unexcelled for use in circuits demanding full load duty.



Our Cat. No.	Type	Capacity	Size, in.	Our Net Price
5273	GF 10	.10 Mfd.	3/4x1 1/4x1	\$0.24
5273	GF 25	.25 Mfd.	3/4x1 1/4x1	.27
5274	GF 50	.50 Mfd.	3/4x1 1/4x1	.32
5275	GF 100	1 Mfd.	3/4x2 x1 1/4	.43
5276	GF 200	2 Mfd.	1 1/4x2 x1 1/4	.65
5277	GF 400	4 Mfd.	1 13/16x2 1/16	1.30

## Non-Inductive Compact By-Pass Condensers

Type GB, Rated at 200 V. D.C.  
(120 rms. A.C.)

Now, a brand new type of by-pass condenser of the manufacturer's type, at a very attractive price. Inverted shell construction, small and neat, they are effective to the nth degree. Providing unimpeded radio frequency paths and non-leaking direct current obstacles, type GB should be in your specifications.



For continuous operating voltages up to 200 volts D.C. (120 rms. A.C.)

Our Cat. No.	Type	Capacity	Size, in.	Our Net Price
5266	GB 10	.10 Mfd.	3/4x1 1/4x1	\$0.18
5267	GB 25	.25 Mfd.	3/4x1 1/4x1	.21
5268	GB 50	.50 Mfd.	3/4x1 1/4x1	.24
5269	GB 100	1 Mfd.	3/4x2 x1 1/4	.32
5270	GB 200	2 Mfd.	1 1/4x2 x1 1/4	.56
5271	GB 400	4 Mfd.	1 13/16x2 1/16	.96

## Non-Inductive Uncased Filter Condensers

For Continuous Operating Voltage up to 600 V. D.C. (400 rms. RAC)

Without doubt the neatest uncased condenser made, type NU is also electrically perfect. The condenser winding is impregnated in a non-hygroscopic compound and the whole is wrapped in a waxed paper wrapper, thus making the condenser absolutely moisture-proof. If you have been looking for a truly dependable uncased condenser to employ in all your repair work, we fully recommend type NU as the finest obtainable. Equipped with rubber covered wire leads that won't pull out, it is a real job that you will always use in preference to others.



Our Cat. No.	Type	Cap'ty	Size, in.	Price
5278	NU 10	.10 Mfd.	2x1 1/16x 3/16	\$0.21
5279	NU 25	.25 Mfd.	2x1 1/4x 1/2	.24
5280	NU 50	.50 Mfd.	2x1 3/4x 1/2	.30
5281	NU 100	1 Mfd.	2x1 3/4x 3/4	.46
5282	NU200	2 Mfd.	2x1 3/4x1 1/2	.66
5283	NU 400	4 Mfd.	2x1 13/16x3 1/16	1.25

## Non-Inductive 1000 Volt High Voltage Units

Type HSM Rated at 1900 V. D.C.  
(660 rms. RAC)

Modern, scientific methods of production have substantially reduced manufacturing costs and have at the same time improved the quality of the finished product. Type HSM represents the highest perfection in the art of making high voltage filter condensers of this class.

Excellent for use with Pentodes. Hence, type HSM has been evolved to fit into the smallest space and to provide complete dependability in all sorts of circuits.

Our Cat. No. Type Capacity Size in. Our Net Price

5259	HSM3	.05Mfd.	2x1 3/16x1 1/16	\$0.57
5260	HSM10	.10Mfd.	2x1 3/16x1 1/16	.60
5261	HSM25	.25Mfd.	2x1 3/16x1 1/16	.65
5262	HSM50	.50Mfd.	2x1 3/16x1 1/16	.70
5263	HSM100	1Mfd.	2x1 3/16x1 3/16	.90
5264	HSM200	2Mfd.	4 1/2x2 3/4x3 1/4	1.50
5265	HSM300	3Mfd.	2x1 1/2x2 3/4	1.50
5266	HSM400	4Mfd.	4 1/2x2 3/4x1 3/16	2.80
5267	HSM401	4Mfd.	2x2 3/4x2 3/4	2.80



## Non-Inductive Midget Condensers

Beautifully made, of highest electrical efficiency and handy to use, Flechtheim Midget Condensers are the choice of thousands of radio men who find them reliable for all kinds of work—grid, plate-blocking, by-pass, series antenna, resistance coupling, compensating, neutralizing and other functions. With a working voltage of 500 volts D.C. these little units can be used wherever a low power-factor high test condenser is needed. Infinitely small radio frequency losses and direct current leakage.

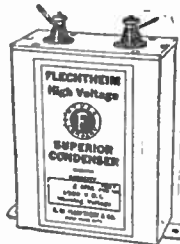


Our Cat. No. Type Capacity Our Price

6091	M-A	.0001	\$0.20
6092	M-B	.0002	.30
6093	M-C	.00025	.30
6094	M-D	.0005	.30
6095	M-E	.001	.32
6096	M-F	.002	.32
6097	M-G	.004	.32
6098	M-H	.005	.32
6099	M-J	.006	.32
6100	M-K	.01	.38
6101	M-L	.02	.38
6102	M-M	.05	.38

## Non-Inductive High Tension Transmitting Condensers

Because of their small size and light weight they are excellent for use in portable outfits, aircraft transmitters, etc. Absolutely the best 1000-volt transmitting condenser on the market and very attractively priced. Equipped with the neat stand-off insulators, the condenser is enclosed in an all-metal container which protects it against heat or damage. Amateurs who are just beginning with their first transmitter will do well to get these dependable units.

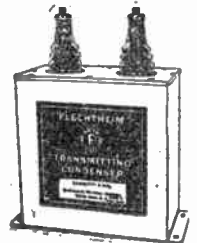


(Continued in next column)

## FLECHTHEIM Superior Transmitting Condensers

Type TH: For Continuous Operating Voltage up to 2000 Volts D.C.  
(1600 rms. RAC)

Porcelain insulators do not make the condenser! There are advertised many non-descript brands of condensers "equipped with porcelain insulators." It does not pay to buy inferior ones—exaggerated claims are made for them and a dubious replacement policy tops these claims. It is best to get a condenser well known for its dependable construction and reliable manufacture. You can't go wrong in getting Flechtheim's.



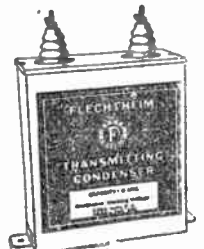
Our Cat. No. Type Capacity Size, in. List Price Our Price

6322	TH 100	1 Mfd.	6x3 1/4x3 1/4	\$7.00	\$3.75
6323	TH 200	2 Mfd.	6x6 x3 1/4	12.50	6.75
6324	TH400	4 Mfd.	6x8 x6	22.00	11.90

Type TH is in use by hundreds of broadcasting and amateur stations and is without doubt the best 2000-volt transmitting condenser procurable. Now, in its new form, containing the special cylindrical windings as employed in the higher voltage types of condensers, it is better in every respect. Heavily bushed porcelain insulators provide an ample factor of insulation safety preventing short-circuit to grounded case.

Type T: Continuous Operating Voltage up to 1500 Volts D.C.  
(1000 rms. RAC)

"Imitation is the sincerest form of flattery." This well known expression is stated here for reason that many manufacturers have time and again tried to copy our transmitting condensers. However, in the field of transmitting condensers Flechtheim has been the true pioneer. We have invaluable knowledge which we infuse in the scientific manufacture of our condensers. No one can possibly make a really dependable condenser better or more cheaply. It is needless to pay more, yet more questionable to pay less. There are cheaper condensers on the market, but you get exactly what you pay for, more probably even less. When you buy a Flechtheim condenser, you can rest assured of honest value.



For the more advanced amateurs, Type T, familiar to thousands of them, is still the best bet for use with the 50 watt plate. Also improved in its construction, this type condenser is now better than ever.

Our Cat. No. Type Capacity Size, in. List Price Our Price

6331	T 100	1 Mfd.	5 1/4x4 1/4x1	\$3.75	\$2.25
6332	T 200	2 Mfd.	5 1/4x4 1/4x2	6.50	3.50
6333	T 400	4 Mfd.	5 1/4x4 1/4x4	11.00	6.00

(Continued from preceding column)

Our Cat. No. Type Cap'ty Size, in. List Price Our Price

6326	TC 100	1 Mfd.	4 1/2x1 3/4x1 3/4	\$3.00	\$1.65
6327	TC 200	2 Mfd.	4 1/2x3 1/4x1 3/4	5.00	2.75
6327	TC 400	4 Mfd.	4 1/2x2 3/4x2 3/4	9.00	5.00

Here is brand-new type of condenser for low power transmitters. Type TC is now more compact, better insulated and of improved design.

Type TC: For Continuous Operating Voltages up to 1000 Volts D.C.  
(750 rms. RAC)

### Replacement 3 Section By-Pass Condenser for Atwater-Kent



For Models 37, 38, 40, 42, 44 and 46.

Cat. No. 2984  
**80c ea.**

### Speaker By-Pass Condenser for Atwater-Kent

For Models 37, 38, 40, 42, 44 and 46.

Cat. No. 2985



**65c ea**

### Colonial Replacement By-Pass Condenser Block

Used in Colonial 32  
Colonial Part No. 1728A



Yellow— $\frac{1}{4}$  Mfd. 250 V.  
Green— $\frac{1}{10}$  Mfd. 200 V.  
Brown— $\frac{1}{4}$  Mfd. 200 V.  
Red— $\frac{1}{10}$  Mfd. 200 V.  
Can is negative.

Cat. No. 3211  
**65c**

The fading in Colonial sets is caused by a leaky by-pass condenser. This condenser in an improved model of the original one. 3 in. base,  $2\frac{1}{4}$  in. high, 2 in. wide.

### Triple By-Pass Condenser



3— $\frac{1}{10}$  Mfd.  
Sections

In metal can with mounting screw. Very useful for bypassing both bias and high voltage. Made for Peerless Courier Sets.

$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$  in.

Cat. No. 2904 **39c ea.**

### Victor By-Pass Condensers

$\frac{1}{10}$  Mfd.

Used in all 1929 Victor Sets

$2\frac{1}{2} \times 1\frac{1}{4} \times \frac{1}{2}$  in.



Cat. No. 5726

**15c ea.; \$1.60 doz.**

### CROSLLEY Replacement By-Pass Condensers



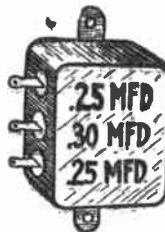
These condensers are electrically and mechanically identical to the manufacturer's originals and are fully guaranteed.

Cat. No.	Part No.	Price
2780	W6471	\$0.21
5219	W7044	.30
2980	W4913C	.30
5209	W80449	.40
5210	W92412	.40
5811	W20446	.55
5812	W7759M	.55
5402	W5943	.25
5403	W6428	.45
5404	W20187	.22
5213	W20186	.65
5398	W25426	.38
5399	W4919	.30
5407	W22995	.30
5408	W7753	.42
5409	W4968	.26
5411	W4313A	.27
5412	W23736	.70
5427	W20448	.33

### Eveready and Bosch REPLACEMENT BY-PASS CONDENSER

For Model 52 and All 1928-29 Sets

This condenser is also applicable to many other standard sets.



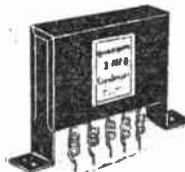
Cat. No. 2983

**Our Price 65c ea.**

### Zenith Quadruple .2 Mfd. By-Pass Condenser

Replacement Part No. 22-66

Used in Models 52, 53, 54, 55, 57, 62, 64, 67, 60, 61, 602, 71, 72, 73, 77.



\* Fading is one of the characteristics of the above sets. You can stop this nuisance by replacing the old type leaky condenser with this cold-dipped Acratest by-pass condenser.

Cat. No. 6478 **85c ea.**

### Sparton By-Pass Condensers

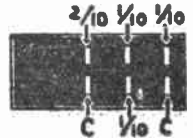
Used in all Sparton sets.  
Cat. No. Size  
5833  $\frac{1}{4}$  Mfd.  
6894 1 Mfd.  
6808 4-1 Mfd.



List \$1.50

**Our Price 35c ea.**

### Potter By-Pass 5 MFD. COMPACT



600 VOLT TEST

Cat. No. 2759 **30c ea.**

### Potter Midget By-Pass Condensers

Working Voltage 200



Cat. No. Capacity  
7185 .1 mfd.  
7181 .25 mfd.  
6657 .5 mfd.

**12c ea.**

### RCA-Victor Uncased Condensers (600 V. D.C. Working Voltage)



This genuine R. C. A.-Victor uncased condenser is composed of the highest grade materials. They are compact and moisture proof, impregnated in special heat resisting compound.

Cat. No.	Size	Each	
2928	1 Mfd.....	35c.	\$3.60 doz.
2929	2 Mfd.....	50.	5.50 doz.
2930	4 Mfd.....	85c	9.00 doz.

### Reinforced Spring Wafer Sockets

Bronze Prongs  
Phosphor  
Non-Shorting  
4 Prong

280, 281, 171A,  
245, 201A

Cat. No. 4064



**Our Price 5c ea.**

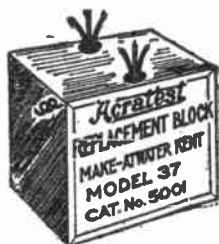
# Acratest



# Filter Condensers

## Acratest

### Atwater Kent Replacement Condenser Block



FOR MODEL 37 SETS

Cat. No. 5001

**\$2.20 each**

Also furnished for 25 cycles for same price.

This filter assembly for Atwater Kent sets is not to be confused or compared with similar but inferior imitations being offered for less money. Our block is manufactured in our own plant out of the finest ingredients and under the supervision of Acratest engineers. Only brand new condensers are used and not old leaky sections which are often used in imitations. Every condenser is thoroughly oil cured and impregnated with wax and pitch for protection against moisture. The working voltage of our condensers are far in excess of the original manufacturer's specifications. Two full size chokes are used and the entire assembly is housed in attractive new can of exact physical dimensions. The color scheme of the wire leads are exactly as the original, making it very easy to replace the old block with the Acratest. Compare the Acratest block with others and you will see why it pays to get the best even if it costs a little more. Once an Acratest block is installed in a set it will outlast the set.

#### Hook-up for AK-37 Block

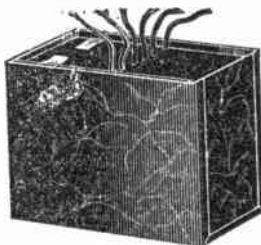
Green wire to 280 socket. Black wire to R F plate. Yellow wire to Power tube plate. White wire to first audio by-pass. White wire to C. T. of 226 resistance. Red wire to detector plate. Wire from can to ground.

### Genuine Atwater Kent Filter Condensers

For AK36 and AK 'B' Unit.

Cat. No. 7052

**50c**



#### Model Y

Condenser and Choke for Model 36 and B Unit.

Cat. No. 7053

**50c**



## Acratest

### Replacement Condenser

Blocks for Majestic Sets



Cat. No. 5026  
5027  
5028  
6678  
5029  
5030

Set 70 Series  
80 Series  
90 Series  
90B & 100B  
Majestic B  
Majestic B

**Our Price \$2.85 ea.**

This filter assembly for Majestic Sets is not to be confused or compared with similar but inferior imitations being offered for less money. Our block is manufactured in our own plant out of the finest ingredients and under the supervision of Acratest engineers. Only brand new condensers are used and not old leaky sections which are often used in imitation. Every condenser is thoroughly oil cured and impregnated with wax and pitch for protection against moisture. The working voltage of our condensers are far in excess of the original manufacturer's specifications. The entire assembly is housed in attractive new can of exact physical dimensions. Compare the Acratest block with others and you will see why it pays to get the best even if it costs a little more. Once an Acratest block is installed in a set it will outlast the set.

### RCA Filter Block and Output Choke Assembly

For Radiolas 18, 33 and 51

Cat. No. 2710

**Special 39c ea.**

R.C.A. Part 8333



Contains 2-1 mfd. filter condensers, 1-1/2 mfd. output condenser and a choke coil.

There are over half a million of these various types of Radiola receivers on the market and every dealer should be prepared for service calls on them by having a carton of six of these genuine replacement condensers in stock.

### Fada 1 Mfd. Condenser

400 volts, D.C.  
2 in. x 3/4 in. x 5 in. high

Cat. No. 2973

**35c ea.**



### GENUINE BRAND NEW Victor Replacement Condenser Block

For Replacement in All Victor Sets



Total capacity 16 Mfd. 600 working voltage.  
Size: 5 3/4 in. long, 5 in. high and 4 in. wide.  
Housed in metal can.

Tap 1-3 Mfd.  
Tap 2-4 Mfd.  
Tap 3-6 Mfd.  
Tap 4-4 Mfd.  
Tap 5-Ground.

Cat. No. 2709

**Our Price 95c**

### Radiola Filter Condenser Blocks



Original Condenser Blocks made expressly for these sets.

Cat. No.	Westinghouse Part No.	Westinghouse No.	Set No.	Our Price
2714	8289	WG4	17	\$2.15
2710	8333	WG12	18, 33, 51	.50
2715	8476	WG60	44, 46, 47	2.70
2726	8346	WG10	60	3.75
2659	8487	WG37	68	1.00
6543	8368		C4	5.95
6498	8382		63	2.75
7260			67	3.75

### NON-INDUCTIVE UNIVERSAL BY-PASS Condensers (Midget Type)

A small compact unit developed for space economy without sacrificing any quality. Ideal for all bypassing requirements in R.F. and A.F. circuits where single capacities are required at various points and also available in combinations of capacities.



Cat. No.	Cap.	D.C.W.V.	Our Price
2779	.25	200	\$0.18
2781	.5	200	.25
2780	.1	200	.21
2782	.25	300	.22

Every condenser block listed on this page is brand new in original factory packing and fully guaranteed.

### Polymet 2 Mfd. Auto Condenser



With base mounting brackets. Just the thing for using across the car generator on auto radio installations.

Cat. No. 5605

**65c**

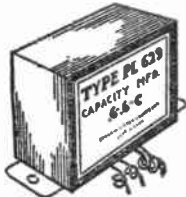
### Dubilier 4 Mfd. Condenser



PL610  
2x1 1/4 x 5 1/4 in.

Cat. No. 5603

**95c**



### Dubilier .6-C-6 Buffer Condenser

Excellent for Mike Amplifier Filter  
PL629

Cat. No. 5581

**35c ea.**



### Faradon 4 Mfd. 600 V. Condenser

3 1/2 x 2 1/4 x 5 in.  
Suitable for AC Line Filters.

Cat. No. 5604

**\$1.75**

### G. E. 3 Mfd. 600 V. Filter Condenser

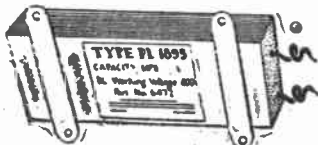
With Leads and Mounting Bracket.  
Dimensions:  
5 1/4 x 2 1/4 x 1 1/2 in.

Cat. No. 6045

**49c ea.**



### Dubilier 1 Mfd. 400 V. Condenser



PL1395  
1 Mfd. 400 D.C.W.V.  
With Mounting Brackets  
2x 3/4 x 5 in.

Cat. No. 5607

**75c**

### General Electric 4 MFD. High Voltage Filter Condensers

D.C. Working Voltage, 800 V.



These General Electric Filter Condensers are tested from 3 to 5 times their rated value, thus assuring a sturdy, scientifically designed product, far excelling the average Filter Condensers now being used. Encased in a sturdy metal container with 8 inch flexible insulated wire leads. Equipped with handy mounting brackets.  
Dimensions: 5x2 3/4 x 1 in.

Cat. No. 6044

**69c**

### Dubilier 4 Mfd. Filter Condenser Blocks

PL571  
600 volts working test for replacement in all eliminators and electric sets.

Cat. No. 2924

**\$1.50**



### Utility Voltage Condensers

In Metal Cans With Mounting Lugs



Working Price  
Cat. No. Mfd. Volts Price  
3150 1. 450 .50  
3152 2. 450 .75.

These condensers are guaranteed to easily withstand their rated working volts—and we will replace free of charge any condenser that breaks down within one year.

### Sprague Electrolytic 8 Mfd. Condenser

A tremendous advancement in filter condenser construction. With round edged anode made of a single piece of aluminum without welding or soldering. Offers high capacity in compact space. Absolutely puncture proof self healing. Screw socket facilitates installation in every type of set. Rated 8 mfd. at 450 volts D.C.

Cat. No. 6809

List Price \$2.50

**Our Price 49c ea.**



Complete Filter Condenser Guide on Page 93

### Stromberg Carlson 7 MFD Filter Condenser

For RCA 104 Power Speaker 600 Volt Test



Used in Victor Electrola Hyperion Model, Victor Borgia Model 2, RCA 104 Speaker, RCA Model 30A Pack, RCA 81951 Pack.

4 1/2 x 5 x 1 1/2 in.

Cat. No. 3721

**30c ea.**

3.9 Mfds. 1000 V. in same can.

Cat. No. 3730

**\$1.50**

3 1/4 Mfds. 600 V. unmounted

Cat. No. 3731

**75c**

2 Mfds. 300 V. in can.

Cat. No. 5748

**75c**

### RCA 20 MFD. Filter Condenser Block



Excellent for A.C. line filters and speaker filters, also on transmitters. 3 3/4 in. long, 2 3/4 in. wide, 5/4 in. tall.

Part No. DL2593243

Cat. No. 5445

**85c**

### 1/2 Mfd.—1,000 Volts

As used in Peerless Sets 100 Volts, for Kyletron Speakers



Note: These condensers were made for Kyletron Speakers. You will find them necessary if you do any repair work on Peerless Kyletron Sets.

Cat. No. 2903

**30c ea.**



### Dubilier 6.1 Mfd. Condenser Block

PL1184

Cat. No. 5606

**Our Price \$1.85**

# Headquarters For Genuine

# Majestic

# Replacement Parts

**Our Prices as Low as 80% Off Regular List**

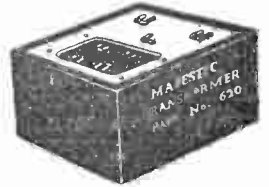


Cat. No. 5458

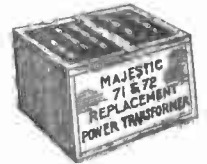


Cat. No. 5459

Cat. No.	Items	For Models	Part No.	List Price	Our Price
5458	Filament Trans.	180	619	\$8.00	\$1.50
5460	Plate Trans.	180	620	8.00	1.50
5464	Filament Trans.	70 Series	61	8.00	2.50
5468	Plate Transformer	70 Series	67	8.00	1.50
5461	Fil. & Plate Trans.	90 Series	436	10.00	2.95
5462	Double Choke		180	5.00	1.50
5872	Fil. & Plate Trans.	90B, 100B		13.00	5.25
5465	Filter Choke, 100 Mills	70 Series	66	5.00	1.50
5459	Double Filter Choke, 250 Mills	90 Series	281	5.00	1.50



Cat. No. 5469



Cat. No. 5461

## Majestic Resistors



Cat. No. 5466 **25c ea.**

Cat. No.	Size	Part No.
6659	1000 ohms	
5467	2170 ohms	102
5466	3600 ohms	399

## Dynamic Speaker Cable

Part No. 119

Cat. No. 4398 **25c**

## 8 Wire Cable (Chassis to Pack)

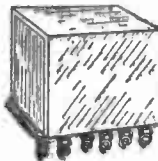
Pack No. 209, Model 90

Cat. No. 4396 **60c**

## Majestic By-Pass Condenser Blocks

Cat. No.	Capacity	Model	Part No.
5446	.5-.5	70	717
5447	.5-.5	90	715
5448	.5	180	714

**30c ea.**

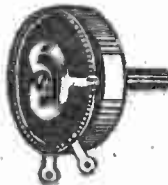


## Push-Pull Transformers

Cat. No.	Type	Models	Part No.
2658	Input	70, 71, 72	
5470	Output	70, 71, 92, 180	84
6403	Output	90	134
6550	Straight Audio	70, 71, 72, 90, 91, 02	
6812	Input	90	1551
6814	Phono	62	1713

**Our Price \$1.50 ea.**

## Yaxley 1/4 Ohm Hum Bucker



Majestic Part No. 106

Cat. No. 5469

**25c**

## MAJESTIC I. F. Superhet Transformer



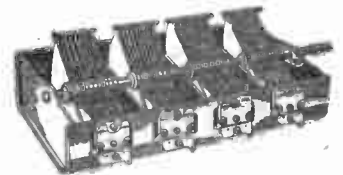
Cat. No. 6818

**95c**

Used in Majestic Supers and tunes to 175 K.C. Aluminum housing, with 4 wire leads.

2 3/4 in. long, 1 3/4 in. wide, 2 1/4 in. tall.

## 4 Gang Condenser



Cat. No. 4356 **45c**

A high quality condenser with electrical and mechanical refinements that stamp it as a leader.

The individual sections of this fine unit are scientifically matched. Careful shielding. Compensating condensers in each section. Capacity, .00035.

Also furnished in 3-gang, same capacity.

Cat. No. 4370

**Our Price 65c**

## Majestic "A" Replacement Condenser For Majestic "A"



Cat. No. 5031

**\$2.25 each**  
3000 Mfd.

Exact replicas of the originals and made of the highest grade materials. Fully guaranteed.

MAIL ORDERS TO **AP**  
See Terms on Page 5

**Federated Purchaser Inc.**

or to our nearest branch  
25 PARK PLACE, N. Y. C.

# Miscellaneous Items

## CLASS B TRANSFORMERS Audios - Chokes Power Supply (Circuit Diagrams Free With Each Item)

Class B Amplifiers, a recent development, have already won the enthusiastic acceptance by servicemen, engineers and amateurs. Every radio enthusiast is anxious to build his own Class B Amplifier, but they have been hampered in securing the special parts going into its make-up. Below we have assembled a complete line of audio transformers, power transformers, and chokes especially designed for Class B operation. Particular care was taken in their design to insure best tone quality. The best silicon steel is used for the cores and pure electrolytic copper wire for the coils.

### Class B Power Transformer



Supplies filament and plate for 10 tubes. Has 3-2½ volt windings. For the '82 Rectifier Electrically shielded.

Cat. No. 7125

**\$2.85**

### Class B Coupling Transformer



For a Single 46 into 2-46's

Cat. No. 7127

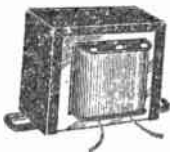
**\$1.95**

For 2-227 or 56's into 2-46's

Cat. No. 7144 **\$1.95**

For 2-245's into 2-46's

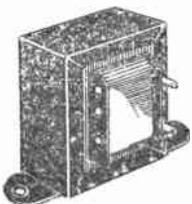
Cat. No. 7128 **\$1.95**



### Class B First Choke

Cat. No. 7126

**95c**



### Class B Second Choke

Cat. No. 7129

**95c**

## Acratest Special Matching Transformers For Mixer Panels

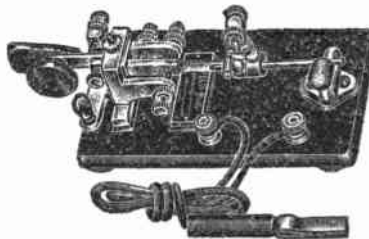


Each of these transformers were designed for a particular purpose, in connection with public address and studio use. With these transformers as a basis, input and output mixing panels may be constructed at exceptionally low cost. Excellent frequency response and

high efficiency were the primary considerations in their design.

Cat. No.	Description	Price
7131	Microphone to 200 or 500 ohm line transformer. Two or more of these may be used for two or more microphones on one line .....	<b>\$4.50</b>
7132	Microphone to 50 ohm transformer. Four of these transformers, with their secondaries in series for 4 mikes into 200 ohms. Diagram furnished .....	<b>\$4.50</b>
2625	Plate of 232, 224 or 257 Tube to 200 or 500 ohms input transformer. Primary impedance 250,000 ohms .....	<b>\$2.75</b>
7133	Plate of 230, 227 or 56 Tube to 200 or 500 ohm input transformer .....	<b>\$4.50</b>
7134	4000 and 500 ohm line to from one to six 15 ohm voice coils .....	<b>\$4.50</b>

## The New U. S. Signal Corps "Speed Bug" Wireless Key



Cat. No. 246 **\$10.50**

The SPEED-BUG was made for and approved by U. S. Army Signal Corps and contains all the improvements over former sending machines.

Enables sharper, clearer, smoother and faster operation.

Will establish reputation for yourself as a good sender. It is truly a Bug for the operator who insists on having the best.

You can send signals as slow as eight words per minute or as fast as you desire.

Its ease of manipulation actually rests the arm and encourages good sending without extra effort.

## THE WINCHESTER Electric Pick-Up



Remarkable new features and precision workmanship which assure superiority for the new WINCHESTER PICK-UP.

Beauty of Appearance: Highly polished bakelite throughout.

Twin Spring Compensation: An ingenious construction by which the pressure of the Pick-Up on the record is under minute control. The control provided permits adjustment from the full weight of the Pick-Up on the record to feather-weight contact.

Ball Bearing Tracking: The needle is able to follow the record grooves no matter how light the contact.

Rotating Head: Permits of easy and rapid needle change and eliminates loose joints liable to cause chatter.

Volume Control: Smooth and silent in operation.

Construction: Ruggedly built to provide an enduring service. Minimum wear on vital parts, avoiding all risk of chatter.

Faithfulness of Reproduction: A matchless fidelity of tone with response from very low frequencies to extreme high frequencies, with total absence of needle scratch.

Cat. No. 7138 **\$4.95**

## I. C. A. Code Practice Set



Cat. No. 7139

List Price \$2.50

**\$1.47**

Attaches to any radio. Simplest and lowest priced code practice set. Easy way to learn wireless telegraphy. Can be attached to any radio set and need not be disconnected from set to receive broadcast stations as the adapters of the I. C. A. Code Practice Set fit directly under tubes of any radio receiver. Supplied complete with International Morse Code chart and wiring diagram. The ideal thing for the boy, experimenter and amateur.

## Visual Tuning Meter With Escutcheon Plate



Cat. No. 6762

**38c**

**Complete**

A high resistance type milliammeter used in the plate circuit for visual tuning. The circuit is brought to resonance when the needle swings to its furthest position. The translucent dial is illuminated through the rear window. Comes complete with cable leads, attachment studs and nuts.

made by Chicago Telephone Co. **FROST** A Control for every need  
Volume Controls

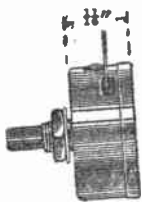
**Frost Products are Manufactured by the CHICAGO TELEPHONE COMPANY OVER 3,500,000 FROST CONTROLS WERE MADE FOR SET MANUFACTURERS LAST YEAR. WHY?**

Frost Variable High Resistances set a high standard of excellence both mechanically and electrically. The improved resistance element is the longest wearing and most constant on the market. Absolutely stable in operation and is not affected by humidity or temperature changes. Contact produces a perfectly smooth, continuously variable adjustment of resistance. Units are non-inductive.

Every Engineer realizes that properly designed and well built wiping contacts are recognized in the electrical field as being the most dependable and best type of movable contact for use

in electrical circuit controls. This is true because such contacts afford uniformly low contact resistance and this in turn is the result of the wiping action which automatically keeps the contacting surfaces clean and highly polished. The Engineer also knows that the success and long life of a wiping contact depends upon obtaining a low frictional component, that is, one well below the point where cutting or scoring takes place and that this highly desirable condition is largely determined by the character of the materials used in the respective members, the original condition of the surfaces forming the contact and the unit pressure involved.

**FROST**  
**ROCKER-CONTACT**  
No. 20 Series Wire Wound Volume Controls



No. 20 Series



No. 20 Series with Built-in Switch

In this control, wiping contact is made by a double runner contactor positioned so that each of the contacting runners make line contact and not point contact with the inside of the resistance strip which we are able to make by far the smoothest portion, as there are no irregularities introduced such as are encountered when attempting to accurately shape, shave or grind the strip edges for the old style edge contact. These line contacts permit the use of a much higher contact pressure than has heretofore been possible and the maintenance of a lower and more uniform unit pressure which reduces the chances of scoring to a negligible degree and accordingly greatly increases the life of the control. Completely enclosing the unit in a tightly covered metal shell prevents the entry of dust and foreign particles which might cause scoring should they reach the raceway, and at the same time this complete metallic enclosure prevents damage to the unit from rough handling.

A further contribution to the exceptionally long life and smooth running of these units is the use of a neutral oil on the contacting surfaces to provide continuous lubrication.

Without Switch Cat. No. Ohms	Control	With Switch Cat. No.
6137 200	Variable-Mu Cathode	6143
6138 400	Microphone Button	6144
6139 1,000	Untuned Antenna	6145
6140 2,000	Untuned Antenna	6146
6141 5,000	Antenna Shunt	6147
6142 10,000	Antenna and Cathode Bias	6148
6596 3,000		6598
6597 25,000		6599

**Our Price**  
**50c**  
Without Switch

**Our Price**  
**70c**  
With Switch

**FROST-RADIO**  
No. 70 Series Composition Element Volume Controls

Supplied with three terminals. May be used either as potentiometers or variable resistors.



No. 70 Series



No. 70 Series with Built-in Switch

Without Switch Cat. No. Ohms	Controls	With Switch Cat. No.
6150 1,000	Untuned Antenna	6163
6151 2,000	Cathode Bias	6166
6152 3,000	R.F. Primary Shunt	6167
6153 5,000	Antenna Shunt	6168
6154 10,000	Antenna or R.F. Primary Shunt	6169
6155 25,000	Phonograph Pick-up Screen Voltage	6170
6156 50,000	Screen Voltage	6171
6157 75,000	Variable-Mu Cathode Bias	6172
6158 100,000	R.F. Plate Voltage	6173
6159 250,000	Audio Transformer Shunt	6174
6160 500,000	Audio Transformer Shunt Tone Control	6175

**Our Price**  
**45c**  
Without Switch

**Our Price**  
**65c**  
With Switch

**FROST 80 SERIES**  
Volume Controls



Contact resistance of these switches is not only low but uniform as well, which makes this unit particularly adapted for use in automobile sets.

You can associate these controls directly with the GRID circuit and still there will be no pick up from the power circuit.

Switch Cam is Cold. Shaft is insulated. Positioning lugs for preventing rotation of the control on the panel are provided in accordance with requirements of the Underwriters' Laboratories.

Insulated thimble and shaft has been worked out so that capacity between these members and "live" parts of the control is less than 5 micromikes. The breakdown in excess of 2000 volts.

Like all our highest grade controls, these No. 80 series units have sufficient wiping contact to insure keeping down corrosion on the contacting member.

Yes! the No. 80 is quiet in operation.

Without Switch Cat. No. Ohms	Controls	With Switch Cat. No.
6728 1,000	Untuned Antenna	6730
6729 2,000	Cathode Bias	6740
6730 3,000	R.F. Primary Shunt	6741
6731 5,000	Antenna Shunt	6742
6732 10,000	Antenna or R.F. Primary Shunt	6743
6733 25,000	Phonograph Pick-up Screen Voltage	6744
6734 50,000	Screen Voltage	6745
6735 75,000	Variable-Mu Cathode Bias	6746
6736 100,000	R.F. Plate Voltage	6747
6737 250,000	Audio Transformer Shunt	6748
6738 500,000	Audio Transformer Shunt Tone Control	6749

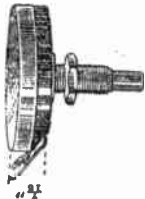
**Our Price**  
**50c**  
without switch

**Our Price**  
**70c**  
with switch

**We are prepared to quote special prices on all Frost Volume Controls to Manufacturers, Jobbers and large service organizations.**



## FROST-RADIO No. 40 Series Composition Element Volume Controls



No. 40 Series Supplied with 1 in. shaft and 3/8-in. thread.

The No. 40 series have been in use by several of the largest set manufacturers in the country for the past year and a half and in every case have given complete satisfaction. The high insulation provided between the shaft and live parts allows the use of this control in circuit positions where the potential to ground may be several hundred volts. In addition to these features the absence of inductance and any appreciable capacitance particularly adapts this control to use in radio frequency circuits where de-tuning cannot be tolerated.

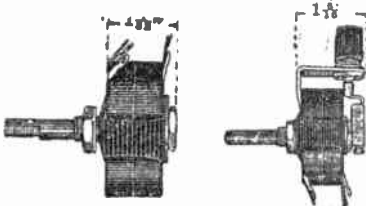
A positive wiping action between the resistance element and the disc, limited in degree and uniformly distributed over the entire arc of rotation is obtained by a flexing disc firmly secured and accurately positioned over frosted cone carrying the resistance element.

The narrow contacting surface and polishing action, together with the hard resistance element, obtain unusually smooth resistance progressions and to maintain true curve forms regardless of whether near the high or low limits specified.

Cat. No.	Ohms	Cat. No.	Ohms
6180.....	1,000	6185.....	25,000
6181.....	2,000	6186.....	50,000
6182.....	3,000	6187.....	75,000
6183.....	5,000	6188.....	100,000
6184.....	10,000	6189.....	250,000
6190.....	500,000		

**Our Price 50c ea.**

## FROST 40 Series Dual Potentiometers



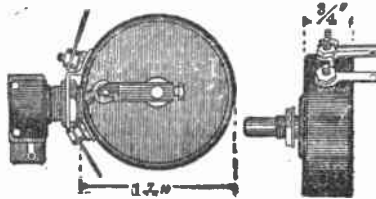
No. 40 Series Tandem

No. 40 Series Tandem with Switch Combination

Cat. No.	Size and Description	Our Price
5160	10,000 ohm Antenna Taper—50,000 ohm Screen Grid Taper with 1 in. shaft.....	\$1.25
5535	Same as above, with 2 in. shaft.....	1.25
6210	10,000 ohm Antenna Taper—1,000 ohm Var. Mu Bias, with 1 in. shaft.....	1.25
6211	10,000 ohm Antenna Taper—25,000 ohm Screen Grid Taper, with 1 in. shaft....	1.25
6112	10,000 ohm Antenna Taper—25,000 ohm Screen Grid Taper, with switch and 1 in. shaft.....	1.45

## FROST-RADIO No. 1880 Series Composition Element Type

(Bakelite Case and Cover—Shaft Not Insulated)



No. AC1880 Series

No. 1880 Series

Entire shell and back cover are of genuine bakelite which prevents capacitance and inductance. Available with most critical resistance gradients and will carry a maximum amount of current. Is of the time-tried and proven rocker arm—roller contact assembly, utilizing our latest improved resistance element.

## This is the Frost Control With Interchangeable Shaft

These Frost controls have interchangeable shafts and the standard resistance can be used in sets similar to Stromberg-Carlson and Zenith, which were designed with a special shaft that can be taken from the old control and be replaced in the new. We continue to guarantee Frost resistance curves and nousings to be within commercial standards of electrical and mechanical accuracy.

Without Switch		With Switch	
Cat. No.	Ohms	Cat. No.	Ohms
6124	5,000	6128	5,000
6123	10,000	6129	10,000
6600	15,000	6604	15,000
6125	25,000	6130	25,000
6126	50,000	6131	50,000
6601	75,000	6605	75,000
6127	100,000	6132	100,000
6602	250,000	6606	250,000
6603	500,000	6607	500,000

**Our Price 60c**  
Without Switch

**Our Price 80c**  
With Switch

## Panel Mounting Tone Control

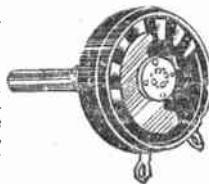
Only 1/4 in. deep. Will fit in any Set.

Allows six different tone adjustments. No noise possible. Extra smooth operation.

Regulates tone from a high treble to the deep bass. Modernize old sets. Bakelite casing and 3/4 in. shaft.

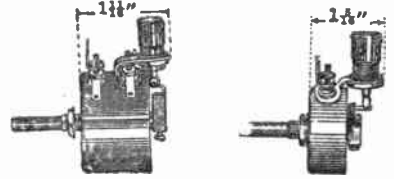
Cat. No. 5251

**Our Price 85c ea.**



## Genuine Zenith Volume Controls (MADE BY FROST)

These controls are greatly improved units and we guarantee them to outperform their predecessors.



Cat. No.	Type & Receivers Used in	Our Price
3201	Dual type with switch—52, 53, 522, 532, 54, 542, 56, 57, 62, 67, 60, 61, 64, 602, 613, 622, 642, 672, 71, 72, 73, 77, 712, 722, 732, 777.....	\$1.50
3204	Single Unit, with switch—52, 53, 522, 532, 54, 542, 55, 57, 62, 67, 64, 60, 61. Used in early models of 602, 613, 622, 642, 672.....	1.25
6120	Single Unit—33, 34, 35, 35A, 342, 352, 352A, 362, 35APX, 11, 12, 14, 15, 16, 17, 31, 32, 333, 353A.....	.90
6122	Single Unit with switch—39, 39A, 40A, 392, 392A.....	1.25

## Table Tone Control



Cat. No. 4354  
List Price, \$2.35

Tone Control is the keynote of 1931 Radio. All the better types of sets are provided with tone control. That is the outstanding difference between present sets and those of the last year or two. A radio set is obsolete without Tone Control.

**Our Price \$1.35**  
handy disc connectors.

## Panel Mounting Type



Cat. No. 4357  
List Price, \$1.80

**Our Price \$1.05**

## Acratone Table Mount Tone Control



Enclosed in a beautiful black and gold crystalline case, with wire and adapters. Can be installed in a jiffy.

Cat. No. 6961 **95c**

# CLAROSTAT

## Ad-a-Switch Wire Wound Units and Switch Coverplates



The Clarostat Wire Wound Controls have been specially designed to fill the dealer's and serviceman's demand for reliable wire wound single controls which can be used either with or without switches as required. They eliminate the necessity of keeping on hand duplicate sets of controls, one set with switches and the other without them. By stocking these units, all that is necessary is to keep some switchless units and a few switch coverplates on hand.

The plain dust-guard coverplate supplied can be pried off and a Cat. No. 6750 switch type dust-guard coverplate can be snapped in its place to convert the switchless unit into a switch unit.

When used without the switch, the only difference is that the first 35 degrees rotation of the controls has no effect on volume due to the fact that that portion of the resistance element has zero resistance to allow for the operation of the switch, when the switch is employed.

Cat. No.	Ohms	Type and Suggested Use	Price	Net
7026	50	Standard Pot., no taper	\$0.47	
3701	100	Standard Pot., no taper	.47	
7027	200	Standard Pot., no taper	.47	
7028	300	Standard Pot., no taper	.47	
7029	400	Standard Pot., no taper	.47	
3702	500	Standard Pot., no taper	.47	
7080	750	Standard Pot., no taper	.50	
3703	1000	Standard Pot., no taper	.50	
7031	1000	Tapered Pot. for untuned Ant. Cont.	.60	
7032	2000	Standard Potentiometer, no taper	.50	
7033	2000	Tapered Pot. for untuned Ant. Cont.	.50	
7034	2000	Tapered Pot. for "C" Bias Control	.55	
3704	3000	Standard Potentiometer, no taper	.50	
7035	3000	Tapered Pot. for combined Ant. and "C" bias control	.55	
7036	3000	Tapered Pot. for "C" bias control	.55	
3705	5000	Standard Potentiometer, no taper	.50	
7037	5000	Tapered Pot. for combined Ant. and "C" bias control	.55	
7038	5000	Tapered Pot. for "C" bias control	.55	
7039	7500	Standard Potentiometer, no taper	.50	
7040	7500	Tapered Pot. for combined Ant. and "C" bias control	.55	
7041	7500	Tapered Pot. for "C" bias control	.55	
3706	10000	Standard Potentiometer, no taper	.50	
7042	10000	Tapered Pot. for Ant. or R.F. coil control	.59	
7043	10000	Tapered Pot. for combined Ant. and "C" bias control	.59	
7044	10000	Tapered Pot. for "C" bias control	.59	
7045	10000	Tapered Pot. for Screen Grid Voltage control	.59	
3707	15000	Standard Potentiometer, no taper	.55	
7046	15000	Tapered Pot. for combined Ant. and "C" bias control	.59	
7047	15000	Tapered Pot. for Screen Grid Voltage control	.59	
3708	20000	Standard Potentiometer, no taper	.59	
7048	20000	Tapered Pot. for "C" bias control	.65	

(Continued in next column)

# CLAROSTAT

## Power Clarostat



Heavy duty variable resistor for radio power units, transmitters, or general electrical applications. A favorite for line-voltage control. Dissipates heat rapidly and efficiently. Popular as C-bias control in auditorium amplifiers.

Cat. No.	Model	Resistance Range	Carrying Capacity
5904	Fil. Control	1/2-10 ohms	80 watts
5905	Low Range	25-100 ohms	80 watts
5906	Universal 200 to 100,000 ohms		80 watts

**Our Price \$2.06 ea.**

## Clarostat Phonograph Pick-Up Control



List Price \$2.00

Cat. No. 2727

**\$1.18**

A Clarostat Graphite Element Volume Control of the potentiometer type for handy connection between the phonograph pick-up unit and the radio receiver or amplifier.

Supplied with two tip jacks and cord with phone tips. A handsome bakelite case with knob to match.

May also be used for the control of the headphones and magnetic speakers.

## Automatic Line Voltage Regulator CLAROSTAT



Here is perfect Line Voltage control. Not a plain fixed resistance, but an Automatic Line Voltage Regulator for safe operation on fluctuating voltages.

Cat. No. 5901—50 Watt  
For sets consuming up to 60 watts.  
Cat. No. 5902—Type A  
For sets consuming 60 to 100 watts.  
Cat. No. 5903—Type B  
For sets consuming 100 to 150 watts.

**Our Price 95c ea.**

(Continued from preceding column)

3709	25000	Standard Potentiometer, no taper	.65
7049	30000	Standard Potentiometer, no taper	.68
3710	40000	Standard Potentiometer, no taper	.75
3711	50000	Standard Potentiometer, no taper	.75

Note: All the above units are potentiometers and are provided with three terminals. They may be used as rheostats by using the center contact arm terminal and one of the resistance element terminals. Supplied without knobs.

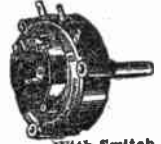
**Switch for All Above Controls**  
Cat. No. 6750 **25c Each**

WorldRadioHistory

# CLAROSTAT

## GRAPHITE ELEMENT VOLUME CONTROLS

Life tests conducted in our laboratories under the severest and most grueling conditions have demonstrated unquestionably that the Clarostat Graphite Element Volume Control will outlast the average receiver or sound equipment and will continue to function silently without a ny change in overall resistance.



Without Switch

With Switch

Cat. No.	Resistance	Suggested Use Taper for	Cat. No.
5907	1,000	Untuned Antenna	5933
5908	1,000	Standard Potentiometer	5934
5909	2,000	Antenna Untuned	5935
5910	2,000	Standard Potentiometer	5936
5911	3,000	Standard Potentiometer	5937
5912	5,000	Standard Potentiometer	5938
5913	10,000	Antenna or R.F. Coll	5939
5914	10,000	Antenna & O Bias Combined	5940
5915	10,000	Standard Potentiometer	5941
5916	25,000	Standard Potentiometer	5942
5917	25,000	Phonograph Pick-Up	5943
5918	50,000	Screen Grid Voltage	5944
5919	50,000	Standard Potentiometer	5945
5920	75,000	O Bias Rheostat	5946
5921	75,000	Standard Potentiometer	5947
5922	100,000	Antenna or R.F. Primary Shunt	5948
5923	100,000	Tone Control	5949
5924	100,000	Standard Potentiometer	5950
5925	200,000	Screen Grid Control	5951
5926	200,000	Standard Potentiometer	5952
5927	200,000	Penode Tone Control	5953
5928	250,000	Standard Potentiometer	5954
5929	350,000	Standard Potentiometer	5955
5930	500,000	Standard Potentiometer	5956
5931	1 meg.	Tuned R.F. Coil Shunt	5957
5932	1 meg.	Tone Control	5958

70c

90c

Without Switch

With Switch

# CLAROSTAT

## Constant Impedance Controls



For constant impedance work in radio and sound equipment and also in phone line circuits. Real wire windings are necessary because of the low resistances used and because all units on one shaft must change uniformly.

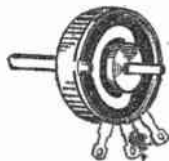
These constant impedance controls consist of one fixed load resistor and one variable input resistor with the variable arms or rotor connected in common.

### Dual Type "L" Pad

Cat. No.	2765	25 ohm for voice coil control.
	2839	200 ohm for line or microphone control.
	2854	500 ohm for line or mixing transformer control.
	6518	2000 ohm for phonograph or high impedance speaker control.

**Our Price \$1.75**

### Volume Controls for Stromberg Carlson



Cat. No.	Type	Receiver	Our Price
3205	Long shaft	642 Rear	\$0.75
3206	Projecting shaft	642 Front	.50
3208	Projecting shaft	635 Front	.70
3210	Standard	835 Rear	.85

### Centralab Twin Potentiometer

10,000 to 250,000 Ohms Used in Earl 21, 22

An ideal volume control for all sets. Will not burn out. Operates quietly and uniformly always.



Cat. No. 3820

35c ea., \$3.60 doz.

### Replacement Volume Control

For RCA 18, Victor R-14, R-15, Westinghouse WR-4, Graybar and G. E. Sets Part No. 82940



Cat. No. 5158

**Our Price \$1.45**

### Freshman Models "M" and "N" Volume Control



Cat. No. 3772

**Our Price \$1.35**

### Genuine Crosley Volume Controls



These controls are identical, both physically and electrically to the old controls but embrace several improved features since developed.

Cat. No.	Size	Models	Our Price
6103	2,200 ohm, short shaft	602, 608, 609, 610	\$0.35
6108	10,000 ohm	120	.50
6104	25,000 ohm	48P, Wigt	.50
6479	25,000 ohm	308, 408, 318	.85

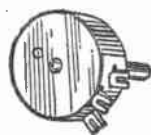
### Genuine Majestic Volume Controls

Cat. No.	Models	Size	
5738	180, 181	75,000	Dual
		30,000	Dual
5898	90B, 100B	75,000	Pot.
		645	Pot.
5844	100	75,000	Dual
		75,000	Dual

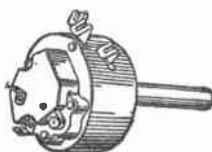


**Our Price 35c ea.**

## ELECTRAD "R I" CONTROLS



Accurate, Smooth Operating and Compact. The shafts are extra long to meet any mounting condition. May be had with or without a built-in power switch. The types listed below can be used as replacements in 343 standard models of receivers.



—Without Switch—			Value	—With Switch—		
Cat. No.	Type	(Ohms)	Uses	Cat. No.	Type	
5633	RI-273	200	Cathode Bias	5634	RI-273S	
2949	RI-274	400	Cathode Bias, Hum Neutrolizer, Microphone Control	2950	RI-274S	
3038	RI-276	1000	Cathode Bias Control	3041	RI-276S	
5378	RI-232	2000	Untuned Antenna	6379	RI-232S	
3039	RI-233	3000	R F Primary Shunt	3042	RI-233S	
3040	RI-234	5000	Antenna Shunt	3043	RI-234S	
2927	RI-240	10,000	Antenna or R F Pri. Shunt	2951	RI-240S	
6848	RI-201	15,000	Ant. Pot. Center to coil, R. F. Primary Shunt	6849	RI-201S	
2958	RI-280	25,000	Phonograph Pick-up Antenna-Ground Shunt, Screen voltage control	2952	RI-280S	
2959	RI-205	50,000	Screen Voltage Control F. F. Plate Voltage Control	2953	RI-205S	
2941	RI-202	75,000	Variable Mu Cathode Control Bias Voltage Control	2942	RI-202S	
2960	RI-242	100,000	R F Plate Voltage Control, Tone Control	2954	RI-242S	
2961	RI-208	250,000	Audio Trans. Sec. Control, R F Coll Shunt	2964	RI-208S	
2962	RI-203	500,000	Audio Trans. Sec. Control	2966	RI-203S	

**Without Switch 60c each**

**With Switch 85c each**

Cat. No.	10,000	50,000	250,000	6,000	3,800	MISCELLANEOUS DUAL TYPE POTENTIOMETERS	Our Price
5160						Antenna and Screen Grid Control	\$1.25
5158						Antenna and Screen Control, Cathode Bias and Screen Control	1.45
3820						R F Grid and Plate Shunt	.35
5254						Antenna and Screen Control	1.15
3751						Antenna and R F Coupler Shunt	WorldRadioHistory .25

### Replacement for Radiola 33

2000 Ohm Potentiometer

List Price \$1.95

E.C.A. Replacement Part No. 5091

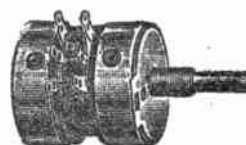
For Radiola 33. Insulating strip (easily removed) for metal panels.



Cat. No. 3762

**Our Price 60c**

### Victor Part Frost Twin Volume Control



FOR MODELS RE32, 35, 52, 75 3800-3800 OHMS

Cat. No. 3751

Will stand up. No. more burned-out volume controls. Standard for Victor, but can be used on all sets.

**Our Price 25c**

# Miscellaneous Controls at Bargain Prices

## CLAROSTAT

Speaker and Phonograph Fader



Cat. No. 2857

2000 ohms—0-200 ohms.

**Our Price \$1.35**

This control enables one to operate either two phonographs turntables or speakers, control the volume of each and fade them on and off at will. This is a fourth terminal potentiometer.

## Accatone Modulator

A volume control—for use with phonograph pick-ups, power amplifiers and microphone hook-ups. Obtains better tone quality. Controls volume from whisper to maximum. Has a 24-inch phone cord.



Cat. No. 3610 **90c**



## Frost Rheostats

6 ohm—Cat. No. 3809

26 ohm—Cat. No. 3899

**Our Price 18c ea.**

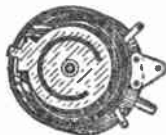
## Clarostat 2000 Ohm Potentiometers

New Type Air Cooled

Used in Sonora Sets

Cat. No. 3759

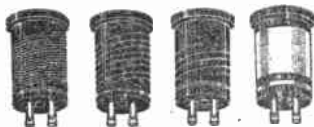
**15c ea.**



## Naald Bakelite Short Wave Plug-In Coils

16 to 200 Meters

The finest grade Litz wire wound on bakelite forms. Will fit standard UX sockets.



Cat. No. 7180

**\$1.50 per set of 4**

## HUM CONTROL

20 Ohm with Center Tap



Used to eliminate A.C. hum.

Only a few left at this price.

Cat. No. 3754

**10c each**

## YAXLEY

Panel Mount Hum Control Wire Wound

SCREWDRIVER TYPE

Cat. No.	Size
5469	1/4 Ohm
3700	20 Ohm



**Our Price 25c ea.**  
\$2.75 dozen

## Yaxley Potentiometer

For Volume Control, Wire Wound, Air Cooled.

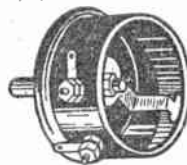
Cat. No.	Size	Price
3755	40 with knob	15c
4170	550	45c
3763	800 V.C.	35c
6569	2900	45c



## Carter 3000 Ohm Volume Control

Wire Wound Tapered Resistance

Bakelite case. Short 1/4-in. shaft for metal panel mounting.



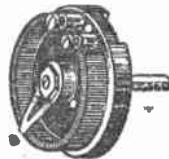
Cat. No. 3767

**Our Price 35c ea.**

## Stromberg Carlson Rheostats

(Made by Amasco)

Cat. No.	Size
4071	2 Ohms
4073	30 Ohms
4074	250 Ohms



**Our Price 20c ea.**

## ACRATEST, JR. Combination Volume Control and Switch

TERMINALS—Three are provided, permitting connection of resistance unit as potentiometer or rheostat.

SIZE—1 1/2 in. diameter—1 in. deep over all including switch.

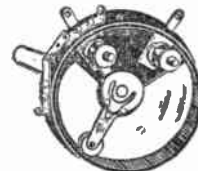
FINISH—Nickle over brass—not steel. ACTION—Smooth, positive and sturdy. Designed especially for midget and auto sets.



Cat. No.	Ohms
5877	1000
5879	5000
5880	10000

**Our Price 55c ea.**

## Centralab Slide Contact Volume Controls and Potentiometers



Perfect Slide shaft. Contact. No wiping—No Noise. Standard 1/4 in.

Cat. No.	Size	Desc.
3753	25.00 Ohm	Potentiometer
3775	1,000 Ohm	Volume Control
3777	5,000 Ohm	Volume Control

**Our Price 25c ea.**

## CLAROSTAT MIDGET Volume Control

Compact, neat, convenient 0-500,000-ohm range in several turns of knob. Micrometric adjustment. One-hole mounting. Convenient screw terminals. Many applications in present-day sets.



Cat. No. 3808

**Our Price 30c**

## Electrad 250,000 Ohm Volume Control

Wire Wound—bakelite frame.

Cat. No. 3890

**25c ea.**

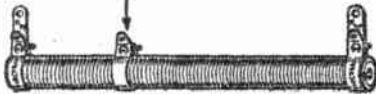


# ELECTRAD Truvolt Fixed Resistors

(Every Fixed Unit Can Be Made Adjustable)

Electric TRUVOLT All-Wire Resistors are especially recommended for use in eliminators and power packs. These resistors are available in all the usual wattage ratings and a wide range of fixed values. Through the use of extra sliding clips intermediate values can readily be obtained. This exclusive Electrad feature is greatly appreciated by service men, since it makes the TRUVOLT All-Wire Resistors ideal for replacement.

ADJUSTABLE  
SLIDING  
CLIP



Cat. No. 5861

Type B—25 Watts  
2 Inches Long

Type	Resistance in Ohms	Current Milli-amperes	Our Price Each
B-.02	2	3,500	
B-.03	3	2,800	
B-.05	5	2,225	
B-.075	7.5	1,800	
B-.1	10	1,500	
B-.15	15	1,250	
B-.25	25	1,000	
B-.5	50	700	
B-1	100	500	
B-2	200	353	
B-3	300	289	
B-4	400	250	
B-5	500	224	
B-7.5	750	182	
B-8	800	177	
B-10	1,000	158	
B-12.5	1,250	141	
B-15	1,500	129	
B-20	2,000	112	
B-25	2,500	105	
B-30	3,000	100	
B-35	3,500	91	
B-40	4,000	84	
B-45	4,500	79	
B-50	5,000	75	
B-60	6,000	64	
B-70	7,000	60	
B-72	7,200	59	
B-75	7,500	58	
B-80	8,000	56	.52
B-90	9,000	53	.55
B-100	10,000	50	.58
B-120	12,000	45	.68
B-150	15,000	41	.71
B-200	20,000	35	.87
B-250	25,000	32	.87
B-300	30,000	29	.73
B-400	40,000	25	.76
B-500	50,000	22.5	.82

49c

Type	Resistance in Ohms	Current Milli-amperes	Our Price Each
C-12.5	1,250	200	
C-15	1,500	182	
C-20	2,000	158	
C-22.5	2,250	149	
C-25	2,500	141	
C-30	3,000	129	
C-35	3,500	119	
C-40	4,000	112	
C-45	4,500	105	
C-50	5,000	100	
C-70	7,000	84	.87
C-75	7,500	82	.87
C-80	8,000	79	.87
C-90	9,000	74	.87
C-120	12,000	65	.96
C-150	15,000	58	.96
C-200	20,000	50	1.05
C-250	25,000	45	1.08
C-300	30,000	41	1.11
C-400	40,000	35	1.14
C-500	50,000	32	1.17
C-600	60,000	29	1.23
C-800	80,000	25	1.31
C-1000	100,000	22.5	1.62

80c

Cat. No. 5863

Type D—75 Watts  
6 Inches Long

Type	Resistance in Ohms	Current Milli-amperes	Our Price Each
D-1	100	865	
D-2	200	610	
D-3	300	500	
D-4	400	432	
D-5	500	387	
D-7.5	750	316	
D-8	800	306	
D-10	1,000	274	
D-12.5	1,250	245	
D-15	1,500	224	
D-20	2,000	194	
D-22.5	2,250	182	
D-25	2,500	173	
D-30	3,000	158	
D-35	3,500	148	
D-40	4,000	137	
D-45	4,500	129	
D-50	5,000	122	
D-60	6,000	112	
D-70	7,000	103	.97
D-75	7,500	100	.97
D-80	8,000	97	1.00
D-90	9,000	91	1.00
D-100	10,000	87	1.10
D-120	12,000	79	1.18
D-150	15,000	71	1.18
D-200	20,000	61	1.18
D-250	25,000	55	1.29
D-300	30,000	50	1.29
D-400	40,000	43	1.29
D-500	50,000	39	1.47
D-600	60,000	35	1.82
D-800	80,000	31	1.62
D-1000	100,000	27	1.62

79c

Cat. No. 5862

Type C—50 Watts  
4 Inches Long

Type	Resistance in Ohms	Current Milli-amperes	Our Price Each
C-1	100	700	
C-2	200	500	
C-3	300	406	
C-4	400	353	
C-5	500	316	
C-7.5	750	259	
C-8	800	252	
C-10	1,000	224	

79c

NOTE—Above wattage and current ratings apply only when units are suspended in free air, otherwise loads exceeding 50 per cent of their ratings should not be applied. Voltages greater than 400 D.C. should not be applied across the terminals of any one resistance unit. For high voltages it is advisable to use two or more units in series.

EXTRA SLIDERS—CAT. NO. 5832—6c. Each

## Acratest

### Flexible Wire Grid Resistors

While Acratest Wire Grid Resistors are utilized in all high grade radio sets, they are especially adapted for use in small receivers, such as Midget sets, Automobile and Aeroplane receivers, etc. They are all-wire, completely covered by impregnated fabric, compact, non-conductive and can be bent into any desired shape. These Resistors are made of fine Nichrome wire wound in a specially treated silk core. In many cases they can be connected directly between the terminals of two components in a radio receiver, thus eliminating extra wiring connections.

Cat. No.	Resistance in Ohms	Cap. in Milli-amperes
5654	5	386
5655	10	273
5656	15	223
5657	25	173
5658	50	137
5659	75	122
5660	100	100
4721	100	86
4732	150	73
4711	200	61
4712	250	55
4731	300	50
4733	350	47
4730	400	43
4715	500	38
4718	600	35
4722	700	32
4734	900	30
4723	750	32
5661	900	29
4710	1000	27

Our Price  
15c ea.

Cat. No.	Resistance in Ohms	Cap. in Milli-amperes
5662	1100	26
4718	1200	25
4739	1300	24
4740	1400	23
4735	1500	22
5653	1600	21
5654	1700	20
5655	1800	20
5666	1900	19.8
5667	2000	19.8
5668	2500	17.5
5669	3000	16
5670	5000	14

Our Price  
24c ea.

These Units can also be used for other purposes provided the above working current is not exceeded.

## Acratest

### WIRE WOUND Grid Suppressors



Cat. No.	Ohms	Cat. No.	Ohms
4709	10	4015	550
4714	10 C.T.	4701	750
4702	20	4719	1400
4724	20 C.T.	5704	1700
4704	200	4709	2300
4729	150 C.T.	5705	3500
4705	400	5705	2600

\$1.00 per Doz. Asst.

MAIL ORDERS TO  
See Terms on Page 5

Federated Purchaser Inc.  
WorldRadioHistory

25 PARK PLACE, N. Y. C.  
or to our nearest branch

# Acratest



# Carbon Resistors

**A**CRATEST carbon resistors are the result of years of experimenting to produce a resistor that will be absolutely moisture proof and stay permanent regardless of atmospheric conditions.

The Acratest resistors all have a highly glazed surface which makes them non-hygroscopic in character and the only resistance of its kind that will not absorb moisture. These resistors are a solid molded mass, strong and durable.

Another very important feature of these units is the fact that they have no voltage co-efficient. They are conservatively rated and the temperature rise in operation is unusually low.

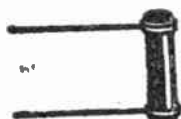
Tin wire leads are soldered to the caps of the resistors which are forced on under a high pressure, thus insuring a permanent, noiseless contact. This is a very important feature in resistors as it eliminates any possibility of poor contact.

All resistors are laboratory tested and labeled with the proper resistance value and will maintain their accuracy under the most trying conditions.

Acratest resistors are guaranteed to be the finest on the market, noiseless, unbreakable, moisture proof and durable.

The 2 watt resistors, 1 watt and 1/2 watt all the same characteristics.

## ONE-HALF WATT



Size:  
1 Inch Long

Ohms	Ohms	Ohms	Ohms
100	3,000	40,000	500,000
150	4,000	40,000	600,000
200	4,100	50,000	750,000
250			
350	5,000	70,000	1 meg.
400	6,000	75,000	2 meg.
500			
700	7,000	80,000	3 meg.
750	7,500	100,000	4 meg.
875	10,000	125,000	5 meg.
1,000	12,000	150,000	6 meg.
1,250	15,000	180,000	7 meg.
1,500	20,000	200,000	8 meg.
		250,000	
2,000	25,000	350,000	9 meg.
2,500	30,000	400,000	10 meg.

20 Meg. (Used on Condenser Microphones)

Cat. No. 5860

10c ea.; \$1.00 doz.

## Utility Carbon Pigtail Resistors

A  
REAL  
BARGAIN

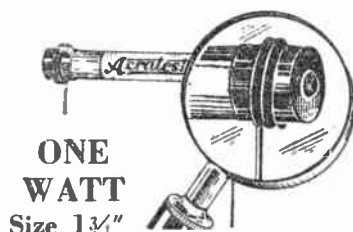


Cat. No. 4600—7c each

1 Watt Units

Ohms	Ohms	Ohms	Ohms
100	1,000	7,500	75,000
120	1,200	10,000	80,000
200	1,250	12,000	125,000
300	1,500	15,000	130,000
350	2,000	20,000	200,000
400	2,500	25,000	250,000
500	3,000	30,000	350,000
600	4,000	40,000	600,000
700	5,000	50,000	750,000
750	6,000	60,000	1 Meg.
	7,000	70,000	2 Meg.

75c per doz. Asst.



ONE  
WATT  
Size 1 1/4"

Ohms	Ohms	Ohms	Ohms
100	1,250	12,000	25,000
150	1,500	15,000	150,000
200	2,000	20,000	180,000
250	2,500	25,000	200,000
300	3,000	30,000	250,000
400	4,000	40,000	350,000
500	4,400	50,000	400,000
600	5,000	60,000	500,000
650	6,000	80,000	600,000
700	7,000	75,000	750,000
750	7,500	80,000	1 meg.
875	10,000	100,000	1 1/2 meg.
1,000			2 meg.
			3 meg.

Cat. No. 3500

10c ea.; \$1.00 doz.

## Carbon Resistor Kit



Contents:  
33 1 Watt  
Carbon Pig-  
tail Resistors  
One Each of  
the Following  
Assortment:

Ohms	Ohms	Ohms	Ohms
100	1,500	15,000	150,000
150	2,000	20,000	200,000
200	2,500	25,000	250,000
400	3,500	30,000	500,000
500	4,000	40,000	1 meg.
750	5,000	50,000	2 meg.
1,000	7,500	75,000	3 meg.
1,250	10,000	100,000	

Cat. No. 3507

\$2.75 kit of 33



TWO WATT  
Size 2"

Ohms	Ohms	Ohms	Ohms
200	1,750	9,000	60,000
300	2,000	10,000	70,000
400	2,500	12,500	80,000
500	3,000	15,000	90,000
600	3,500	20,000	100,000
650		25,000	125,000
700	4,000	30,000	150,000
750	5,000	35,000	200,000
1,000	6,000	40,000	250,000
1,250	7,000	50,000	
1,500	8,000		

Cat. No. 5185

15c ea.; \$1.75 doz.

## Carbon Resistor Kit

Contents: 25 2-Watt Carbon Pigtail Resistors

ONE EACH OF THE FOLLOWING:

Ohms	Ohms	Ohms	Ohms
500	2,000	20,000	125,000
600	5,000	25,000	150,000
750	6,000	50,000	200,000
1,000	7,500	60,000	250,000
1,500	12,500	70,000	
1,250	10,000	70,000	
1,250	10,000	80,000	
2,000	15,000	100,000	

Cat. No. 6515

\$3.50 per kit of 25

## Carbon Resistor Kit

Contents: 36 1/2-Watt Carbon Pigtail Resistors

ONE EACH OF THE FOLLOWING:

Ohms	Ohms	Ohms	Ohms
500	5,000	40,000	250,000
750	6,000	50,000	500,000
1,000	7,000	60,000	600,000
1,250	10,000	75,000	750,000
1,500	12,500	100,000	1 Meg.
2,000	15,000	125,000	2 Meg.
2,500	20,000	150,000	3 Meg.
3,000	25,000	180,000	4 Meg.
4,000	30,000	200,000	5 Meg.

Cat. No. 6516

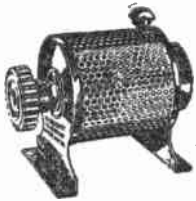
\$2.85 kit of 36

MAIL ORDERS TO  
See Terms on Page 5

Federated Purchaser Inc.

25 PARK PLACE, N. Y. C.  
or to our nearest branch

### Laboratory Model and Speed Control Clarostat



Especially adapted to control of variable speed motor in television and other precise work. May also be used as a heavy-duty variable resistor for laboratory work. Provided with heavy metal casing, protected screw binding posts, and short-circuit button. Carrying capacity of 80 watts.

Cat. No.	Model	Resistance Range	Carrying Capacity
6545	Laboratory	1/4-10 ohms	80 watts
6546	Laboratory	200 to 100,000 ohms	80 watts
6547	Speed Control	25-500 ohms	80 watts

**Our Price \$2.94 ea.**

### New Improved Ground Aerial

The Underground Aerial That Makes Reception Better

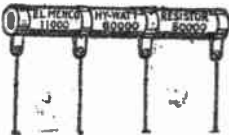


A new installation that overcomes all difficulties of overhead aerials—yet loses nothing in volume and improves the tone qualities of radio reception. By being placed in the ground it does away with unsightly overhead wires, eliminating the risk incidental to installing them and lightning hazard—diminishes electrical interference and static; the new sub-antenna is permanent—once installed no further attention is necessary. Easy to install. Note illustration.

**Cat. No. 4218 \$1.50**

### Grid Bias Divider

122,000 Ohms for R.F. and detector voltage of 250 Power Pack Length 3 in.



Cat. No. 4017

**Our Price 50c ea.**

### Colonial Voltage Divider

Same size and appearance as No. 4017 above, except that it is 1/2 in. diameter and dissipates 10 watts.

Used in Colonial 32, 33, 34

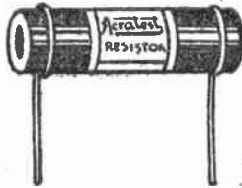
Cat. No. 5727

**Our Price 75c ea.**

We carry Voltage Dividers for over 200 standard receivers. See page 96 for complete list.

### Acratest 5 Watt Wire Wound Pigtail Resistors

A resistor designed to meet the demand for a reasonably priced and compact high resistance unit. Recommended for us in Midget, Aeroplane, Automobile and other receivers where space and price are limited. Terminals are of No. 18 tinned copper wire securely embedded in our 3-coat Baked Insulated Enamel.



Cat. No. 5900

- FEATURES:**
1. Special Elastic Insulating Enamel. Baked at low temperature of only 400 degrees F. Acid, Oil, Moisture, and Fire Proof. Every unit receives three coats of enamel to eliminate possibility of leakage at high voltages.
  2. All Acratest Resistors are wound with Double Coat Enamel Alloy Wire that has a very low temperature co-efficient.
  3. Every connection, between terminal and wire, on Acratest Resistors are Hard Soldered. There can be no noise as there often is when a Mechanical Connection is used.

Ohms	Ohms	Ohms	Ohms
50	2,000	600	7,000
100	2,500	650	7,500
150	3,000	700	10,000
200	4,000	750	12,500
350	4,500	1,000	15,000
400	5,000	1,250	15,000
500	6,000		

**Our Price 20c ea. \$2.25 Doz.**

30,000 Ohms.....25c Ea., \$2.75 Doz.  
40,000 Ohms...}.....30c Ea., \$3.50 Doz.  
50,000 Ohms..}

### Micamold Bakelite Grid Leaks



Cat. No. 4036

Sizes	Sizes	Sizes	Sizes
.01	.04	.1	.5
.015	.05	.15	
.025	.075	.25	

Our Net Price

**40c Per Box of 10**

### HAMILTON Voltage Regulator



The popular price regulator of a well-known manufacturer.

Cat. No. 5151

**Our Price 45c ea.**

### PRECISION Wire Wound Resistors



2 Watts, 2 in. long. With binding posts on both ends. Tolerance, 1%. Accurate, noiseless, dependable.

Used in Television Amplifier, Voltmeter Multiples, Meter Shunts, Photo Cell Circuits, Sound Head Amplifiers, Taper "T" and "H" Pads, Attenuators, Decade Boxes, Bridge Assembly.

ACRATEST PRECISION TYPE RESISTORS are wound with the best grades of alloy wire. Every spool of wire is thoroughly checked for insulation breakdown, diameter and temperature co-efficient before entering production. To our knowledge we are the only company using double insulated wire. Every size of wire used in the manufacture of our units receive two BAKED coats of enamel insulation.

Cat. No. 6500

Resistance in Ohms	Our Price	Resistance in Ohms	Our Price
25	.....\$ .70	40,000	.....\$ 1.05
50	......70	45,000	..... 1.05
100	......75	50,000	..... 1.05
150	......75	60,000	..... 1.15
200	......75	75,000	..... 1.30
500	......75	80,000	..... 1.30
1,000	......75	90,000	..... 1.30
1,500	......75	100,000	..... 1.30
2,000	......75	125,000	..... 1.30
2,500	......75	150,000	..... 1.30
3,000	......90	175,000	..... 1.45
4,000	......90	200,000	..... 1.45
4,500	......90	225,000	..... 1.45
5,000	......90	250,000	..... 1.60
10,000	......90	300,000	..... 1.85
12,500	......90	400,000	..... 1.85
15,000	......90	450,000	..... 1.85
20,000	......90	600,000	..... 2.05
22,500	......95	600,000	..... 2.10
25,000	......95	750,000	..... 2.15
30,000	..... 1.05	1,000,000	..... 3.10
35,000	..... 1.05		

### Wire Wound Voltage Dividers on Lava Tubes



Cat. No.	Ohms	Tapped at	Watts	Our Price
8865	250	200	100	\$9.25
3922	4,650	2,300, 500, 50 and 1-1,600 ohm sec.	50	.60
3789	5,135	4,185, 950	50	.50
3905	5,400	3,000	100	.25
3864	8,850	5,200, 900, 750	50	.30
3787	7,085	90, 695, 6,205	50	.50
4014	7,120	3,000, 3,000, 840, 220, 60	50	.39
3905	7,835	3,400, 3,800, 55, 80, 40, 360	50	.40
3873	8,000	4,500, 1,500, 1,250, 750	100	.40
3854	8,350	7,500, 750, 100	60	.30
3790	9,450	5,500, 3,200, 750	50	.50
3919	9,800	3,500, 3,500, 2,800	50	.50
3967	10,000	4 Sliders		.80
3788	12,300	8,000, 4,800	50	.50
3785	12,900	9,000, 3,300, 600, 50 Watts		.40
3900	17,660	C.T.		.25
3918	17,900	3,400, 2,000, 6,500	50	.25
3906	18,100	100, 18,000, 3,000	75	.40
3908	65	50		.25
3911	8,120	5,000	100	.40
3915	25,000	4 Sliders	75	.80

ON ALL VOLTAGE DIVIDERS THE BIAS IS LOCATED ON THE END WHERE THE LABEL IS.

MAIL ORDERS TO See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C. or to our nearest branch

# Wire Wound Resistors & Voltage Dividers at unheard of prices!

## Wire Wound Fixed Resistance on Baked Lava Tubes



Cat. No.	Ohms	Size	Watts	Our Price
3928	5	2 in.	10	\$0.25
3950	8	2 in.	50	.25
3974	12	2 in.	75	.25
3910	31	2 in.	50	.25
3909	32 C.T.	6 in.	100	.40
3902	55	2 in.	50	.30
3916	40	1 1/2 in.	25	.20
4703	100	1 1/2 in.	5	.20
3975	100	2 in.	10	.15
3932	100	2 in.	10	.20
3991	100	2 in.	25	.25
3993	175	2 in.	25	.25
3934	250	2 in.	5	.25
3935	300	2 in.	5	.25
3929	400	2 in.	5	.25
3969	420 C.T.	2 in.	25	.25
3936	500	2 in.	10	.25
3921	600	2 in.	10	.25
3894	2100 C.T.	3 in.	25	.25
3937	700	2 in.	10	.25
3938	750	2 in.	10	.25
3878	781	1 in.	10	.25
3931	800	2 in.	25	.25
3971	900	3 in.	50	.30
3942	920	3 in.	50	.30
3851	1000	2 in.	10	.20
3855	1500	1 1/2 in.	10	.20
3861	1500	4 in.	50	.30
3859	2000	2 in.	25	.20
3904	2000	2 in.	5	.20
3989	600 C.T.	4 in.	50	.40
3912	2500	2 in.	5	.20
3994	2650	1 1/2 in.	10	.25
3943	3500	2 in.	25	.30
3944	4000	2 in.	25	.30
3945	4500	2 in.	25	.30
3901	5000	2 in.	10	.25
3998	5000	6 in.	100	.55
3947	6000	4 in.	25	.40
3948	7500	2 in.	25	.25
3925	12500	2 in.	25	.30
3917	20000	4 in.	25	.35
5677	30000	2 in.	20	.75
3940	30000	6 in.	75	.35
3970	40000	6 in.	75	.55
3946	50000	6 in.	75	.55

## Ward-Leonard D. C. Voltage Regulator



50 Ohms—300 Watts

Original resistor as used in Grebe SE4 Receiver.

For converting A.C. sets to D.C. where screen grid tubes are used.

Cat. No. 4245 \$2.00

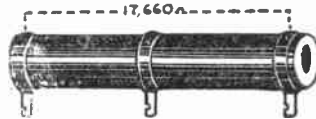
## General Utility Voltage Dividers

50 Watts  
17,500 Ohms  
Tapped at 3400,  
8000, 6500.  
4 1/2 in. long, 3/4  
in. diam.  
On baked lava  
tube.



Cat. No. 3913 25c

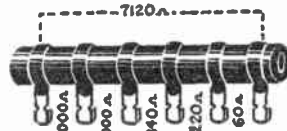
This voltage divider has many uses and applications in electric sets, B eliminators, transmitters and amplifiers. Will stand up with a wide safety factor. Made by a nationally known manufacturer to sell for general times the price we ask. Get a test at this low price and be prepared for the next repair job.



17,660 OHMS C.T.  
75 Watts, 4 1/2 in. long.

Cat. No. 3900 25c ea.

## General Utility Tapped Resistor

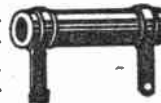


For Receivers, Power Amplifiers and "B" Eliminators.  
Used in Kolster and Brandes Sets.  
50 Watts—4 in. long.

Cat. No. 4014 39c ea.

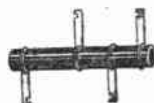
## 1,000 Ohm 10 Watt Wire Wound Resistors

Suitable for bias for 245 tubes; and used for many other purposes.  
10 watts, 1 1/2 in. long.



Cat. No. 3924 10c ea.

## 540 Ohm "C" Bias Resistor



Used for taking off "C" Voltage from and B Eliminator.  
10 Watts.  
Tapped at 90, 90, 360 ohm.  
2 1/2 in. long.

Cat. No. 5103 15c ea.

## Filament Series and Grid Resistors

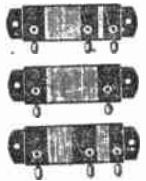
For Atwater-Kent

61 D.C. Set

Cat. No. 6008

95c

Per Set of 3



## Other AK Resistors

Cat. No.	Ohms
7165	50 C.T.
7166	1000
7167	800

15c Each

## Edison Base Resistor 20 Ohms for Bosch 48 D.C.



Can be used for conversion of an A.C. set, screen grid and 245 filament supply. Simply hook 3 in series, making a total of 60 ohms.

Cat. No. 5848 85c

## HY-WATT CARBON Resistors on Lava Tubes

5 WATT—  
1 1/4 INCHES  
LONG



Cat. No.	Ohms	Color	Cat. No.	Ohms	Color
3968	1,000	Green	3957	65,000	Black
4707	10,000	Black	3958	100,000	Red
3952	20,000	D. Green	3959	250,000	Maroon
3953	22,000	Black	3960	500,000	Brown
4708	25,000	Black	3961	1 1/2 Meg.	Black
3954	28,000	Orange	3962	3 Meg.	Orange
3955	50,000	D. Gray	3975	100	Black
3956	65,000	L. Gray	3995	30,000	Orange

Our Price 15c ea.

\$1.50 Dozen, Assorted

## Replacement Resistance Strip for Atwater Kent 37 Volume Control

Also Used in AK 36, 38, 40  
Burnt out or defective strip replaced in a jiffy.



40c ea.

Cat. No. 3713



### Voltage Dividers Used in All TEMPLE Receivers

While these Wire Wound resistors, baked on lava tubes were primarily designed to be used in Temple sets, they can be adapted for use in many other standard receivers, amplifiers and eliminators. Conservatively rated and all brand new.

30c



Cat. No. 3864

6550 Ohms, divided 750, 5200, 900 Ohms. Used in Temple Models 8-60, 8-80 and 8-90.

35c



Cat. No. 3867

33 Ohms—Used as Voltage Regulator in Temple DC Sets. Can be used in place of Voltage Regulator Tube in any set.

30c



Cat. No. 3861

500 Ohm Resistors for Audio Bias.

30c



Cat. No. 5742

6650 Ohms, divided as follows: 1000, 5000, 850 Ohms.

25c



Cat. No. 3865

250 Ohms with 200-50 taps. Used in Temple DC Sets.

### Ward Leonard Vitrohm

8350 Ohm Voltage Divider  
Tapped at 5,000, 3,000 and 350 Ohms.  
6 in. long.



Cat. No. 3914

30c each

7850 Ohms

Tapped 750, 7000, 100—4 in. long.

Cat. No. 3863

30c each

\$3.50 dozen

### Victor Voltage Divider



For all 1930 Model Receivers. Total 2,525 Ohms tapped at 200, 1,350, 260 and 775.

Cat. No. 3170

Our Price 65c ea.

### Aerovox Crosley Voltage Divider

5,000 Ohms tapped at 2,000, 25 watts. 4 in. long. Wire wound on baked enamel.



Cat. No. 3965

Our Price 50c ea.

### 5,000 Ohm Resistance, Wire Wound on Lava



Especially Designed for Freed-Eisemann Model 78, 79 and 95 Sets. Also for Earl. 31, 32 and 41 Sets.

Can Be Used for Any Type Set.

Cat. No. 3907

Our Price 35c ea.,  
\$3.00 doz.

### Freshman Fixed

Resistances  
Wire Wound—Baked on  
Lava Tubes



18,000 ohms total used in Freshman N Models. Tapped 1500, 4500, 3300, 6500 and 2200 ohms.

Cat. No. 3963

For Freshman (Model G) total 10,950 ohms 6 taps. Tapped as follows: 2100 ohms, 4300 ohms, 300 ohms, 3000 ohms, 1250 ohms.

Cat. No. 3966

Our Price 65c ea.

### Radiola 28 Voltage Divider



USED IN 104 PACK

Wire wound on bakelite. Identical to original. This item is usually very difficult to secure and every service man should have a few on hand.

Cat. No. 6756

Our Price 75c ea.

### Acratest

### Wire Wound Vitreous Enamelled Resistors



Acratest vitreous enamelled resistors are made of the best grade of electrical refractory tubings which have the same co-efficient of expansion as the porcelain

enamel and wire, permitting safe heavy loads without fear of injury to the resistor. We use the highest grade of resistance wire, wound on refractory tubes.

Acratest resistor contact points are securely made by a scientific process, whereby the resistor at the contact point practically becomes an integral part of the soldering of mountain lugs, thus eliminating any possibility of open circuits caused frequently by poor joint contacts. Fired at 1200 Deg. Fahrenheit, durable and permanent. A large assortment carried in stock to meet every requirement.

Cat. No.	Ohms	Tube Size	Wattage	Our Price
3678	100	2 in.	10	25c
3688	200	2 in.	20	25c
3679	250	2 in.	10	25c
3680	500	2 in.	10	25c
3681	750	2 in.	10	25c
3682	800	2 in.	10	25c
3683	1,000	2 in.	10	25c
3684	1,500	2 in.	10	25c
3685	3,000	2 in.	10	25c
3686	2,500	2 in.	10	25c
3687	3,000	2 in.	10	25c
3688	5,000	2 in.	10	25c
3689	7,500	2 in.	10	25c
3692	8,600	2 in.	10	25c
3690	10,000	3 in.	25	30c
3691	12,500	3 in.	25	30c
3692	15,000	3 in.	25	30c
3693	18,000	2 in.	10	25c
3693	20,000	3 in.	25	30c
3694	25,000	4 in.	50	45c
3695	30,000	4 in.	50	45c
3696	40,000	5 in.	75	55c
3697	50,000	5 in.	75	55c

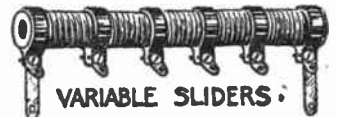
### 3000 Ohm Davohm Resistor

Precision Wire  
Wound on  
grooved Lava  
Tube.



Accuracy 99%  
Cat. No. 5699 Price 25c

### VARIABLE VOLTAGE DIVIDER



VARIABLE SLIDERS

Cat. No. 3967—10,000 Ohms, 4 Sliders,

4 1/2 in. long.

Cat. No. 3915—25,000 Ohms, 4 Sliders,

5 1/2 in. long.

This variable wire wound resistance designed for heavy duty work can be used on any radio circuit such as B eliminators, amplifiers, electric sets, etc. When the desired voltage is obtained it can be set and it will not vary due to the positive contact and absence of chemical properties such as used in other types of variable resistance. This unit aside from being electrically perfect, is low in price and will take the place from 2 to 8 resistance. List \$1.50.

Especially adapted for Freshman and Earl Sets.

Our Price 80c ea.

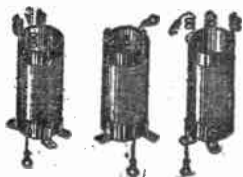
MAIL ORDERS TO See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C.  
or to our nearest branch

# Radio frequency Coils super-heterodyne

## ATWATER KENT Model 55 Replacement R. F. Coils



1 1/4 in. Diameter. 2 1/2 in. high. Primary wound on separate form.

Cat. No. 5551 **\$1.50**  
Per Set of 3 Coils

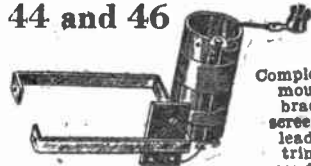
## RADIOLA Super Heterodyne Coils



Used in Radiolas 64 and 67  
Victor Models 9-18, 9-54 and 9-56.  
Enameled wire on bakelite form 1 1/2 in. diameter x 3/4 in. long. R.F. chokes included.

Cat. No. 3732  
**\$1.35 per set of 3**

## RCA Screen Grid RF Coils for Radiolas 44 and 46



Complete with mounting brackets, screen grid lead and trimmer condenser.

Cat. No. 4168  
**\$1.35 per set of 3**

## Aluminum Shields For Shielding Coils

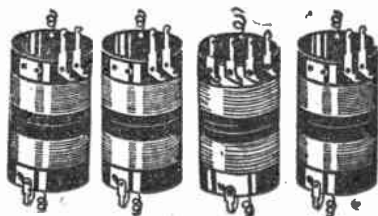
Diameter 2 1/4 in.  
Height 2 1/4 in.

Cat. No. 4150

**6c ea.**



## Genuine Victor Radio Frequency Coils



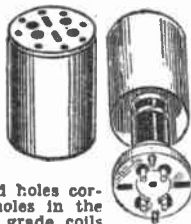
Complete set of 4 coils consisting of 1 Antenna coil and 3 RF coils. Diameter 1 1/2 in., height 2 3/4 in. For .00035 condensers.

Cat. No. 4169

**50c per set of 4**

## Transcontinental Screen Grid R. F. Coils With Shields for .00035 Condensers

These coils may be used in any set. They are space wound with enameled wire on bakelite tubing. Coils are equipped with mounting brackets which are attached to the aluminum shields. Two tapped holes correspond with two holes in the shield. These high grade coils will give 100% efficiency in any receiver.



Cat. No. 4136

Set of 4 Coils—1 Antenna,  
3 Screen Grid With Shields  
**95c per set of 4**

## Aluminum Tube Shield, Cap and Base

One-piece aluminum shield for 232 and 234 screen grid tubes. Outlet hole at top for wire connector. Shield only.

Shield Cat. No. 4171 15c  
Base Cat. No. 4173 3c  
Tube Clip Cat. No. 4178 2c

Per Set of  
**3 Pieces 18c**

## 3 Pc. Shields

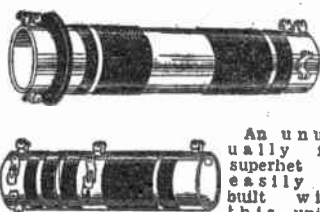
For New Type Tubes  
55, 56, 57, 58

Cat. No. 7173

**20c Per Set of 3**



## Band-Pass, Detector and Oscillator Coils



An unusually fine superhet can easily be built with this unique coil combination. These coils incorporate a 10 K.C. band pass coil combination and a first detector and oscillator combination. They will make a sensitive, selective super-heterodyne which will receive from great distances. A special feature of these coils is the tap on the oscillator coil which removes all semblance of image frequencies and harmonics. These coils tune with our 5361 4-gang condenser and cover the entire broadcast band. Using these coils with the intermediates, condensers and other equipment listed on this page will make up a low priced superhet of advanced design. Wiring diagram and instructions furnished with each set.

Cat. No. 6654

**\$1.75 per set of 2**

## Acratest

## New Design "Conoid" Screen Grid R F Coils

Completely Shielded



Diameter, 2 in. Height 1 1/2 in.

A completely shielded coil, air-wound and self-supporting. Each lug is marked with its respective connection. These coils come in matched sets especially tracked on accurate straight line frequency condensers. Enclosed in copper cans with removable bases for easy mounting on chassis with two screws. This facilitates wiring as the coils may be removed while the rest of the wiring is done. The coils are extremely selective and rugged. With a set of these coils you are sure that the coils, shields and condensers are matched. Made for .00035 condensers.

Will operate with the 235, 230 tubes and with the new automobile cathode heater tubes, although in some cases it has been necessary to reduce the primary of the coil to prevent oscillation.

Cat. No. 3217

**98c Set of 3**

Consisting of 1 Ant. and 2 R.F. Coils

Cat. No. 3216

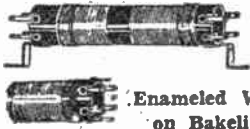
**\$1.30 Set of 4**

Consisting of 1 Ant. and 3 R.F. Coils

# Radio frequency Coils super-heterodyne

*Acratest*

## Superheterodyne R.F., Detector and Oscillator Coils

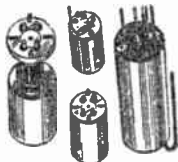


Enameled Wire Wound on Bakelite Tubing

Everything is superhet this year. Be up-to-date and revamp your old set or build a good superhet from the diagram we furnish free with these coils. In conjunction with a three-gang superhet type variable condenser, these coils will tune in stations from great distances with 10 K.C. separation. The antenna coil is separate while the first detector and oscillator coils are on one form to assure perfect coupling.

Cat. No. 5197 **95c set**  
Complete with Diagram

## AUTODYNE Super-Het Coils



Cat. No. 6973  
**Coil Kit**  
Price **\$2.95**

This system saves the use of an extra oscillator tube and lowers the cost of constructing the receiver. The stability obtained from the Autodyne circuit assures its adaptation universally.

With this set of high gain coils and I.F. transformers exceptional sensitivity and selectivity may be had. This entire set of coils are matched at the factory so that the builder may be assured of a precision receiver capable of receiving stations many thousands of miles away.

### The Autodyne Kit Consists of

- 1—High gain antenna coil.
  - 1—High gain interstage coil.
  - 1—Autodyne coil and intermediate combined.
  - 1—175 K.C. Intermediate frequency transformer.
- With complete diagram of a Modern Super-het using 1—R.F., 1—Detector and Oscillator, 1—I.F., 1—2nd Detector, 1—Pentode, 1—Rectifier.

## I. C. A. RF Chokes



For general use in broadcast and short wave receivers. Its choking effect extends from 14 to 600 meters and its distributed capacity is very low.

Cat. No.	Millihenries
4950	30
6984	80

**Our Price 60c ea.**

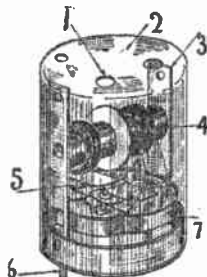
*Acratest*

## High Gain Intermediate Frequency Transformer

These well-shielded, sharp-tuning intermediates are just the thing for that new super you are planning. Close coupling between primary and secondary assures high voltage gain, enabling reception from great distances. The 175 K.C. unit is furnished complete with a diagram of one of the finest superhets you have ever heard. The 465 K.C. unit is furnished complete with a diagram of an all-wave superhet using the new band-switching coils.

### FEATURES:

- 1—Condenser adjustment through top of can.
- 2—Aluminum shield with holes for wires.
- 3—Heavy steel supporting brackets.
- 4—Coils properly wound and shielded.
- 5—Compensator.
- 6—Mounting screws.
- 7—Mounted on porcelain base.



Diameter: 2-3/32 in.

Height: 2-11/16 in.

Sold in Sets of 2 and 3.

Cat. No. 5358  
for 175 K.C.

Cat. No. 6612  
for 465 K.C.

**Our Price 95c ea.**  
Complete With Diagram

## BAND-PASS Or Pre-Selector Coil For .00035 MFD Condensers

Suitable for use on any receiver. This coil will add selectivity to the broadest set. It is specially designed for the antenna stage. The coil is extremely high in gain. It has three windings—a primary and two secondaries. The primary is connected directly between antenna and ground while the lower secondary is connected to the stator of one turning condenser. The other secondary is connected to the grid of the tube and stator of the condenser.



Cat. No. 6910

**Our Price 70c**

## R. F. Choke 4 Millihenry



Suitable for short-wave and superheterodyne receivers.

Cat. No. 6755

**10c ea. \$1.00 doz.**

## BROADCAST

## High Gain R F Coils For .00035 Condensers



These coils are especially designed for the discriminating set builder. Their special features are:

1. Choke acts at high plate impedance.
  2. Capacity coupled primary.
  3. Low distributed capacity.
  4. Ease of mounting—fits into tube socket holes.
  5. Compactness.
  6. All connections marked.
- The coils are matched at the factory, which is extremely important if selectivity and sensitivity are to be assured. Everybody is now leaning to High Gain Coils.

Cat. No. 6907

**Set of 3—\$1.50**

Cat. No. 6908

**Set of 4—\$1.95**

## Broadcast and Short Wave High Gain R F Coils

For .00035 Condensers

Range: 70 to 200 Meters, 200 to 600 Meters.

Same coils as above. Cover the Television, Police, Airplane, Foreign and Amateur Bands. Coils are merely tapped in one spot for wave changing. Short wave end is separate heavy winding.

Set of 3—Cat. No. 6909

**Our Price \$1.75**  
Per Set

## Air King Short Wave Plug-in Coils



A reasonably priced short wave plug-in coil set, for circuits requiring high amplification with low loss. Forms are of bakelite. Handles engraved with identifying coil number. Four coils in set, covering range from 15 to 210 meters when used with .0001 midget condenser.

Cat. No. 4300 **\$1.50**

## Genuine RCA-Victor and Brunswick Catacombs



### Brand New!

These catacombs were used in the RCA and Victor sets a few years ago. They are extremely compact and contain both the intermediate frequency and audio units. Due to their peculiar construction it is hard to replace any parts in them and so a new catacomb is necessary.

Cat. No. 6221

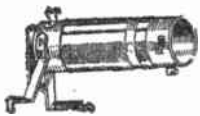
8-tube Catacomb for RCA models 25 and 25AC; Victor models: Alhambra 11, Florencia; Brunswick models: 1-B, 1-C, Cordova 6.

Cat. No. 6220

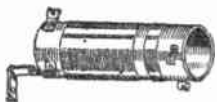
8-tube Superheterodyne Catacomb for RCA models: 28, 28AC, 30, 30A, 30AC, 32AC; Victor models: Hyperion, Borgia, Cromwell, Tuscan, 9-15, 9-35, 9-40, 9-55; Brunswick models: BR-12, Cordova 8, 2-0, BRP-4, FRP-1A.

**Our Price \$5.50 ea.**

## Genuine Victor R.F. Coils



Ant. Coil  
Cat. No. 5370



R.F. Coil  
Cat. No. 5376

**50c ea**

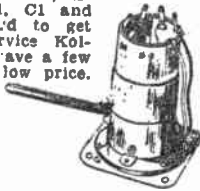
3 3/4 in. Long, 1 1/4 in. Dia. Used in all late Victor sets. Enamelled wire wound on Threaded Bakelite tubing. R.F. chokes included in both. R.F. coil also has midget tuning condenser attached.

## Kolster Variometer (Antenna Coupler)

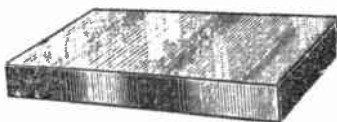
Used in Kolster K20, K-22, Columbia 961, C1 and C3. A very hard to get item. If you service Kolster, you should have a few in stock at this low price.

Cat. No. 5536

**75c**



## Blank Receiver or Amplifier Chassis



Servicemen and setbuilders who "make their own" will welcome the opportunity of securing this fine automobile steel spot welded chassis. It is large enough to accommodate up to 12 tubes. 17 3/4 inches long, 9 3/4 inches wide and 3 inches tall.

Cat. No. 6939

**89c ea.**

## EBY Triple Binding Posts "Short Ant," "Long Ant" and "Gnd"

Unremovable top posts mounted on bakelite strip.  
Cat. No. 4106



**Our Price 16c ea.**

## Eby Binding Posts

Cat. No.	Marked	Cat. No.	Marked
4065	Plus	5685	27V.
4066	—	5686	Spkr. Plus
5678	Blank	5687	Spkr. —
5679	B—	5688	"1"
5680	67V.	5689	"2"
5681	45V.	5690	"3"
5682	A—	5691	Gnd.
5683	Long Ant.	5692	90V.
5684	Short Ant.		



**50c per doz. Ass't**

## "Push-Down" Spring Binding Posts

Nothing to turn—makes positive strong contact.

Cat. No. 5405—"Antenna"

Cat. No. 5496—"Ground"

Cat. No. 5497—"Blank"



**Our Price 5c each**

## Complete R. F. Coil Assembly

For Radiola Models 17, 18 and 33



Consists of Antenna coil and 2 R.F. coils with R.F. chokes, trimmer condensers and R.F. by-pass condensers mounted on metal terminal strip ready for installation in above Radiola models and many other sets. Coils are 1 1/2 in. dia. by 1 1/2 in. long.

Cat. No. 3733

**Our Price \$1.50**  
Per Complete Set

## Steel Base for Power Amplifier or 6 Tube Midget Set



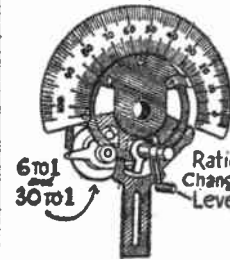
Cat. No. 5478

**Price 35c**

All ready cut and drilled for a 6 tube layout. Just the thing for the set builder and experimenter. 14 in. long, 6 1/4 in. wide, 2 1/2 in. tall.

## Special Dual Ratio Dial and Escutcheon for Dual Wave Sets

This 6 to 1 ratio dial can be instantly changed to a 30 to 1 ratio dial by throwing a lever. Ideal for short and long wave sets, because a very slow moving dial is essential on short waves. Very ingenious yet simple construction. Nothing to break or snap. 2 1/2" wide, 3" high. Translucent celluloid dial.



Cat. No. 7171

**\$2.50**

Complete with Escutcheon

## Eby Twin-Jacks

In a brown bakelite strip.

Cat. No. 4060  
Marked "Phono"

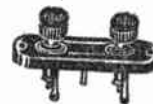
Cat. No. 4069  
Marked "Speaker"



**Our Price .06c ea.**

## Eby Twin-Posts

Two Eby non-removable binding posts, bakelite molded in brown composition and mounted on a bakelite strip. The antenna post insulated from metal panels.



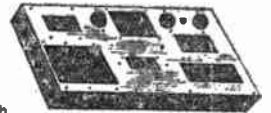
Cat. No. 4068  
Marked "Field"

Cat. No. 6689  
Marked "Ant.-Gnd."

**Our Price 11c ea.**

## Power Amplifier Or Midget Chassis Base of Heavy Gauge Steel

13 1/2" long  
9 1/4" wide  
1 1/2" tall  
Weight,  
4 lbs.



Green Finish

16 1/2 in. long, 9 1/4 in. wide, 1 1/2 in. tall.  
Weight, 4 lbs.

Cat. No. 4399

**75c**

Just the thing with which to build that amplifier or midget receiver you have been planning. All holes cut out and drilled for transformer, condenser, choke, sockets, switch, etc. Made for Stromberg-Carlson power amplifiers. Has many uses.

## Earl and Freed RF Coil

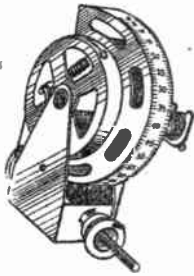
Used in all Earl and Freed sets. Diameter 1 1/2 in., height 2 in., with brackets.

Cat. No. 5375

**45c ea.**



**New Illuminated Drum  
Smooth Positive Action**



New type cable drive permits smooth, positive regulation, entirely free of backlash. Standard  $\frac{1}{4}$  in. shaft and  $\frac{1}{4}$  in. coupling—celluloid scale, beautiful engraving—calibrated in numbers from 0 to 100.

- Cat. No. 4201  
 $\frac{1}{4}$  in. Shaft
- Cat. No. 4202  
 $\frac{3}{8}$  in. Shaft

**Our Price 78c**

Complete with Dial Light Socket

Escutcheon Plate for this Dial  
Cat. No. 4042  
17c Each

**Metal Belt Friction  
Drive Tuning Dial**



Outside diameter of dial,  $3\frac{3}{8}$  in. Shaft hole for  $\frac{3}{8}$  in. or  $\frac{1}{4}$  in. shaft.

- Cat. No. 4041  
 $\frac{3}{8}$  in. Shaft
- Cat. No. 4128  
 $\frac{1}{4}$  in. Shaft

**Our Price 75c**

Complete with Pilot Light Socket

**Escutcheon Dial Plates  
of Latest Designs**



- Cat. No. 4042
- Cat. No. 4046

Coin Embossed Bronze Finish. Modernistic Design. Especially suited for Drum Dials, similar to our Cat. No. 4201-4202.  $4$  in. high,  $2\frac{3}{8}$  in. wide.

**Our Price 25c**

**Spring Friction Drive  
Tuning Unit**

Outside diameter of dial  $3\frac{3}{8}$  in. Shaft hole for either  $\frac{3}{8}$  or  $\frac{1}{4}$  in. shaft. Pyralin translucent scale of 0 to 100.

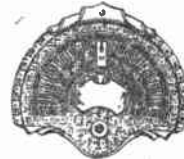


- Cat. No. 4040  
 $\frac{3}{8}$  in. Shaft
- Cat. No. 4127  
 $\frac{1}{4}$  in. Shaft

**Our Price 50c**

Complete with Pilot Light Socket

**The New 'Spot Tuning'  
Illuminated Dial and  
Escutcheon**

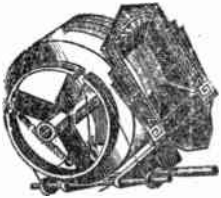


The light travels along with the station indicator. Now being adopted by leading set manufacturers. Very attractive. For  $\frac{3}{8}$  in. shaft. Translucent scale. Bronze finished plate. Non-slip gear drive. Complete with pilot light socket.

- Cat. No. 5505

**Our Price 67c**

**Illuminated Drum Dial  
For Short and Long Wave  
and Television Sets**



- Cat. No. 6903

**Our Price \$1.25**

Complete

No Calibrations on Dial Beautiful Escutcheon Plate to Match Instead of the usual numbers the celluloid dial has 4 different colored bands running around it, so that a different color may be allocated for each wave band. For  $\frac{3}{8}$ " shaft. Complete with pilot light socket and plate.  $2\frac{1}{2}$ " dia.,  $5$ " high.

**Midget Set Escutcheon  
Plate**

$2\text{-}5/16$  in. high  
 $2$  in. wide



- Cat. No. 4043

**Our Price 15c**

**Hammerlund Triple  
Compensator**



Three compensating condensers mounted on a strip of bakelite  $6\frac{1}{2}$  inches long.

- Cat. No. 3008

**Our Price 35c ea.**

**Midget Fan Dial**

A very compact full vision dial with translucent strip and pilot light socket mounted on rear top. Attractive bronze escutcheon plate to match. Dia.  $3$  in.,  $3\frac{1}{4}$  in. high,  $\frac{3}{8}$  in. deep. For  $\frac{3}{8}$  in. shaft.

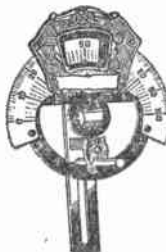


- Cat. No. 6911

**Our Price 60c**

Complete with Plate

**Fan Dial and Plate**



For Midget Receivers

Fan dial with very legible black numerals. For  $\frac{3}{8}$ " shaft. Handsome bronze escutcheon plate.  $2\frac{3}{8}$ " long,  $3\frac{1}{2}$ " diameter.

- Cat. No. 6904

**Our Price 60c**

Complete with Plate and Socket

**Medium Sized  
Escutcheon Plate**



For Either Midget or Larger Sets  
Size:  $3$  in. high,  
 $2\frac{1}{4}$  in. wide

- Cat. No. 4044

**Our Price 18c**

**Complete Full Vision  
Dial and Escutcheon  
Plate**

With Pilot Socket



- Cat. No. 4045  
 $\frac{1}{4}$  in. Shaft
- Cat. No. 4047  
 $\frac{3}{8}$  in. Shaft

**Our Price 90c**

MAIL ORDERS TO See Terms on Page 5

**Federated Purchaser Inc.**

WorldRadioHistory

25 PARK PLACE, N. Y. C.  
or to our nearest branch

### Genuine Walnut Wood Carved Knobs



Dia. 1 3/4"  
Cat. No. 3215



Dia. 1 1/4"  
Cat. No. 3565



Dia. 1 3/4"  
Cat. No. 3380



Dia. 1 1/2"  
Cat. No. 3716



Dia. 1 1/4"  
Cat. No. 3552



Dia. 1 5/8"  
Cat. No. 3717



Dia. 1 1/2"  
Cat. No. 3561

Our Price for Any of the Above Knobs  
**10c ea.; \$1 doz.**  
Assorted

### Ornamental Knobs

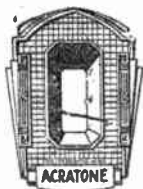


Brown Bakelite Knob with Metal Overlay. Diameter 1 1/4 in. Insert 1/4 in.

Cat. No. 5106  
**15c ea.**

**\$1.50 per dozen**

### Grecian Design Drum Dial Escutcheon Plate



4 in. x 2 3/4 in. Burnished Bronze Finish

Cat. No. 5107

**18c ea.**

### Genuine Walnut Knob



Diameter 1 1/4 inches With Set Screw Two-tone Finish

Cat. No. 6692

**60c per dozen**

### Complete Line of Modernistic Bakelite Knobs



**Two-Tone Walnut Knob**  
Dia. 1 1/4 in., 1/4 in. shaft  
Cat. No. 5126

Our Price **\$1.10 doz.**

Dia. 1 in., 1/4 in. shaft

Cat. No. 5127

Our Price **\$1.10 doz.**



**Octagon Pyramid Top Walnut Knob**  
Dia. 1-1/16 in., 1/4 in. insert and set screw

Cat. No. 5130  
Our Price **\$1.15 doz.**



**Hexagon Two-Tone Walnut Knob**  
Dia. 1 1/4 in., 1/4 in. insert and set screw

Cat. No. 5128  
Our Price **\$1.30 doz.**

Dia. 15/16 in., 1/4 in. insert

Cat. No. 5129

Our Price **\$1.20 doz.**



**Ornamental Top Walnut Knob**  
Dia. 1 1/4 in., 1/4 in. insert and set screw

Cat. No. 5141  
Our Price **95c doz.**

### Vernier Port Dial Ivory, Plate, Black

Dia. 4 in., Reading 0-100  
Cat. No. 5142

Our Price **59c each**

Dia. 2 3/4 in. (for Midget and auto sets)

Cat. No. 5143

Our Price **49c each**



### Walbert Univernier Dial

Calibrated 0-180. Ratio 10-1. Bakelite knob. Etched plate.

Cat. No. 4117

**10c ea.**



Attention Short Wave Fans and Hams! A Precision Vernier Dial Geared 10 to 1! This fine vernier dial is a product comparable to any fine instrument. The simplicity in tuning with this dial takes all of the guesswork out of short-wave reception. The accuracy and sharpness of its precision calibration makes it particularly desirable for television work. Free from backlash and slipping. Sure-grip!

### Escutcheon Plate for Midget Sets

Burnished Bronze Finish. 2 in. wide, 2 3/4 in. tall.

Cat. No. 5108

Our Price **15c ea.**



### Full-Vision Dial and Pointer

For replacement on sets now using ordinary dials. Simply remove the old-fashioned dials, slip the escutcheon plate over condenser shaft and replace old dial with a small knob. Will enhance the appearance of any set. Bronze finish only, with translucent celluloid dial strip. Can also be used as an illuminated full-vision dial if panel is cut out.



3 in. wide 2 3/4 in. high

Cat. No. 5737

Our Price **25c Complete**

### Naald Bakelite Tuning Knob



1 1/4 in. shaft with set screw. Black only

Cat. No. 3405

**8c ea.**

**75c per dozen**

### Kurz-Kasch Bakelite Knob



for rheostats and volume controls. Mahogany and Black

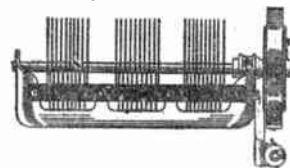
Cat. No. 4123

**5c ea.**


**50c per dozen**

### Tuning Condenser Assembly

As used in Radiolas 17, 18 and 33. Complete with aluminum drum and cable. Capacity .00035. 9 1/2 in. long, 3 1/4 in. wide, 5 in. high.



Cat. No. 5796 **\$1.50**

MAIL ORDERS TO   
See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C.  
or to our nearest branch

# A complete assortment of switches for every need

## YAXLEY

### Phono to Radio Switch



mount jack type. Used in Peerless Sets. With knob.

Cat. No. 4109

**25c each**

**\$2.75 Dozen**

Single pole double throw, very fine as anti-capacity switch.

### Carter 5 Channel Double Arm Selector Switch



With Bakelite Knob and Escutcheon Plate

Same appearance and construction as Cat. No. 5488 described above, except that no impedance coils are included. Excellent for all public address work.

Cat. No. 5487

**Price \$1.00**

### CARTER "IMP" Inductance Switches



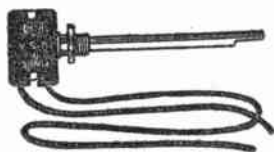
List Price \$1.00

Cat. No.	Pt.
5484	3
5485	4
5486	5

**40c ea.**

Complete with Bakelite Arrow knobs. Compact and rugged and will stand up under hard usage. All metal frame, cadmium plated. Positive snap action. Diameter of frame 1 1/2 in. Extends back of panel only 1/4 in.

### CUTLER-HAMMER Rotary Snap Switches



Cat. No. 6688

Single Circuit with 2 1/2 in. shaft and 12 in. leads

Cat. No. 6666

Two-Circuit for Radio-phonographs with 1 1/2 in. shaft

**45c ea.; \$4.80 doz.**

## SELECTOR SWITCHES

With Knobs and Plates



Single Pole



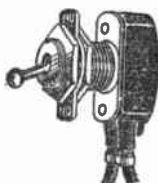
Double Pole

Switches are so constructed that switch cannot be loosened in panel by turning knob. Definite stops are provided so that undue force cannot be applied to contacting members. Knobs are keyed to shafts to prevent their slipping. All contact members are of spring phosphor bronze and all insulation of bakelized material. Shaft is entirely insulated from electrical circuits, thus eliminating danger of shock.

Furnished complete with metal etched plate with walnut background and old bronze figures corresponding to the number of contacts. Walnut bakelite knob with key slot to prevent backlash, and hexagon nut also furnished.

SINGLE POLE			DOUBLE POLE		
Cat. No.	Contacts	Price	Cat. No.	Contacts	Price
4185	4	\$0.85	4188	4	\$1.25
4186	7	.90	4189	7	1.45
4187	9	.98	4190	9	1.60

### Toggle Switch



With Long Flexible Leads

5 amperes, 120 volt. Approved by underwriters. 5/16 in. shank.

Cat. No. 4112

**17c**

### S.P.D.T. Toggle Switch

SHORT SHANK

Cat. No. 4105

LONG SHANK

Cat. No. 4104

**23c**

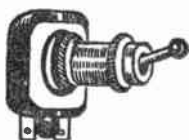


### Double Pole, Double Throw Toggle Switch

Cat. No. 4115 **45c ea.**

### Toggle Switch

With Long Neck (1 1/4 in.)



For wooden panels and cabinet work. 3 amps., 225 volts.

Cat. No. 4110

**Price 17c**

## Circuit-Closing Double-Throw Switch



For Phono-Radio and Public Address Systems

Used in cathode circuit of radio for shorting to ground or closing phono pick-up circuit.

Cat. No. 5285

**38c ea.**

## GENERAL ELECTRIC Three-Circuit Toggle Switch

Same appearance as above, but makes and breaks three lines at one time. Has many uses in radio-phonograph, set analyzer and public address work.

**25c each** Cat. No. 6566

## ACRATEST

### Single Pole Double Throw Switch

125 V. 5 A.

Approved by Underwriters' Lab.

Cat. No. 5286

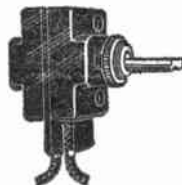
**49c**



## GENERAL ELECTRIC Filament Switch

3 ampere at 110 volt, 1 ampere at 250 volt. All bakelite housing. One hole mount will fit any set. 8 in. leads. Approved by the underwriters.

Cat. No. 4121



**Our Price 20c**

## Yaxley Filament Switch

Very fast make and break. Compact, sturdy and easy to mount, one hole.

Cat. No. 4108

**Our Price 20c**

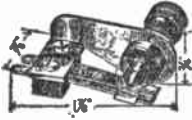


### Push-Button Switch

A new Carter development—a perfected push-button type switch that is both adaptable and reliable in operation. Same rugged construction as Carter short jack switches. Uniformly tempered steel, cadmium plated springs that retain their tension permanently. Positive contacts, non-corrosive. Bakelite knobs. Fully insulated.

#### NON-LOCKING TYPE

Contact is made when pressure on knob is released.



Cat. No. 6712 **40c Ea.**

### Automatic Electric Turntable Switch

This device, when installed on any electric turntable, will shut the current off when the pick-up reaches the end of the record and the arm comes in contact with the switch. Used on all RCA and Victor Radio-phonograph combinations.



Cat. No. 4222

**25c ea.**

### Yaxley Phonograph Radio Switch

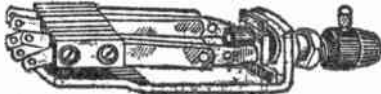
Used in Temple sets. Has neutral position. For panel mounting and knob control.



Cat. No. 4119

**Our Price 15c ea.**

### Carter Switch Jacks



Double Pole, Double Throw. Complete with Knob.

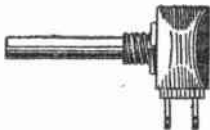
Cat. No. 6548—List Price \$1.00

**Our Price 40c**

### Rotary Snap Switch For Fada and AC Dayton Sets

1 1/2 in. Shaft

Cat. No. 5284



**10c**

### Carter "IMP" Jack

Single circuit, open.

Cat. No. 5491

**10c**



### Rotary Snap Switch

3 amp. 225 volts, with 15 in. pigtails.

Cat. No. 4122



**Our Price 14c**

### Stewart Warner Rotary Snap Switch with Knob

Cat. No. 4114

**25c each**



### Carling Toggle Switch

For Volume Control. Switch Combinations on all A.C. sets. 125 V. 3 Amp.

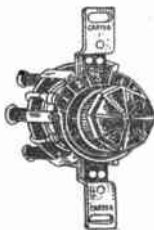
Cat. No. 4118

**25c ea.**



### CARTER CHANNEL Selector Switch

With Knob and Plate



Gives instant selection up to 5 channels with constant impedance of 5000 ohms. A switch of advanced design for use in centralized radio installations, enabling the listener to switch to any of 5 programs with constant impedance maintained throughout the line. Constructed to fit into a standard electric

outlet box. The impedance coils are securely riveted to the frame and all wiring concealed. Depth of switch 1 1/4 in. Screw connections provided to all leads.

Equipped with attractive brown bakelite knob, arrow pointer and escutcheon plate.

Cat. No. 5488

List Price \$5.00



This diagram illustrates the wiring and action of the Selector Switch.

5 4 3 2 1 5 4 3 2 1

**Our Price 85c**

### I.C.A. CONVENIENCE Radio Outlet Plates

Will Fit Standard Electric Outlet Box

#### A.C. Set Outlet Plate

Antenna, Ground and Power Connections. Rich Brown Two-tone Bakelite.

Cat. No. 5501

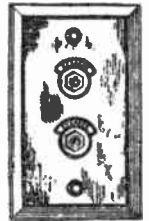
List Price, \$1.15



**Our Price 75c ea.**

#### Speaker Outlet Plates

Equipped with Phone Tip Jacks and 2 Phone Tips.



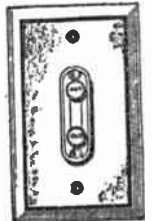
Cat. No.	Material	List	Net
5482	Bakelite	\$ .85	\$.35
5499	Brass	.60	.25

### Antenna and Ground Outlet Plate

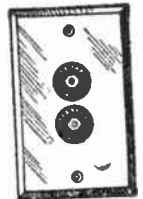
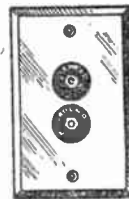
Cat. No. 5500

Material—Bakelite

**Our Price 50c**



### BRASS Radio Wall Plates



Made of 040 gauge brass with a brushed finish, they mount on a standard switch box and are electrically and mechanically perfect.

Cat. No.	Style	Price
6595	"Antena-Ground" ...	} <b>25c ea.</b>
4141	"Speaker" .....	
5481	With Single Circuit Jack .....	

MAIL ORDERS TO See Terms on Page 5

**Federated Purchaser Inc.**

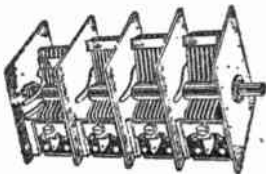
25 PARK PLACE, N. Y. C. or to our nearest branch



### ACRATEST SR. High Precision Condensers

**Features:**

1. Steel frame cadmium plated.
2. Shaft, hardened steel.
3. Condenser frame provided with three point chassis mounting.
4. Rotors fitted with individual rotor contact springs.
5. Shaft mounted on ball bearing mechanism, mounted on both end plates, permitting free turning motion with perfect alignment.
6. Frame highly reinforced by means of inter-stage shields.
7. Perfect electrical isolation between gang units.
8. Extremely low dielectric losses.
9. Proper rotor capacity distribution.
10. Perfectly electrically matched between successive units.
11. Stator section provided with individual trimmers.
12. High insulation resistance.
13. Rotors provided with slots for permitting adjustment to take care of distribution of capacity in set circuit.
14. Condensers provided with extended low shields between stages.



These superheterodyne gang condensers will match any of the latest coils such as the ones featured on this page. The oscillator section is tracked and does not require any padding condensers. Because of this feature the oscillator section is easily adjusted to turn with the others, making single control possible. The accuracy in gauging these condensers assures marvelous selectivity and sensitivity.

The TRF condensers are accurately gauged and will lend a high degree of selectivity and sensitivity to any receiver. Complete shielding and low loss aiding in ending leads and assuring easy tuning. Small in size, enabling mounting in small spaces. With any of the page it will cover from 200 to 500 meters. Designed so that the band is spread and no interference will result.

FOR SUPERS			FOR STRAIGHT B. F.		
Cat. No.	Gangs	Size	Cat. No.	Gangs	Price
3292	Two	3 1/4 x 3 3/8 in.	3359	Two	\$1.75
3293	Three	4 1/2 x 3 3/8 in.	3360	Three	2.50
3294	Four	5 1/2 x 3 3/8 in.	3331	Four	3.25

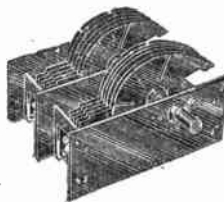
### ACRATEST JR. Precision-Built Variable Condensers



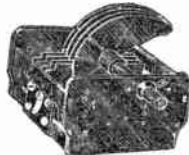
Construction embodies latest improvements, with 1-piece bathtub type frame, inter-stage shielding and individual compensators. Ball-bearing action throughout; 1/4-in shaft; .00035 capacity.

Cat. No.	Price
5720 Two Gang.....	\$ .58
5721 Three Gang.....	1.35
5722 Four Gang.....	2.25

### ACRATEST SHORT-WAVE Tuning Condensers



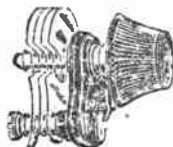
These condensers are of the half shield type insuring isolation between stages. They are all cased in heavy aluminum frames and tapered for remarkable wave spread. Easily mounted and precise in operation.



Single	Cat. No.	Price
.00914	6854	\$.95
.00025	6855	.95
.00035	6906	.95
2 Gang		
.00014	6708	1.50
.00025	6856	1.50
3 Gang		
.00014	6709	2.50

### U. S. L. Midget Condensers

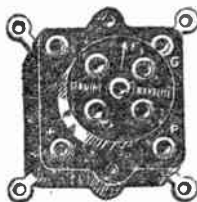
For Short Wave Sets



When used as a neutralizing condenser the DE JUR Midget Condenser is far superior to the various types of "spring" condensers. It can also be used as a regenerative condenser in certain circuits or as a means of greater selectivity when placed in series with the antenna circuit.

Cat. No.	Description	Our Price
5256	.000025 Mfd.	45c
5257	.00005 Mfd.	55c

### Bakelite U. X. Sockets



Cat. No. 4051  
Regular Socket 15c

Cat. No. 4075  
Spring Socket 20c

### BENJAMIN SOCKETS Green Top - 5 Prong



Cat. No. 4061 30c each

Have longer life and protect tubes from those sudden impulses which destroy heater, grid and plates. Positive side wiping connections. All mounted bakelite.

### BAKELITE Wafer Sockets

Special construction makes short circuits or flashovers impossible.



Cat. No. 4062—  
4 Prong—  
201A, 226, 112A, 171A,  
245, 210, 250, 230, 281,  
230, 232, 231, 234, 82.



Cat. No. 4063—3 Prong—227, 224, 46, 88,  
56, 236, 237, 238, 239, 247.

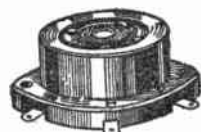
Cat. No. 6934—6-Prong—57, 58, 58

6c ea., 60c doz.

### Genuine Eby Sockets

REGULAR TYPE

Cat. No.	Prongs	Price
5873	5	.16
5874	4	.16
6935	6	.22



Eby UY and UX Sockets are the standard of quality. They can be mounted above or below metal, Bakelite or wood panels. Molded of genuine Bakelite with a built-in guide for the tube prongs. Phosphor bronze contacts so designed that their spring action cannot be damaged no matter how often the tubes are inserted or withdrawn. Standard packages of ten.

SUB-PANEL TYPE

Cat. No.	Prongs	Price
5875	4	.16
5876	5	.16
6936	6	.20



### Base Mounting Sockets

Phosphor bronze springs and knurled posts,

- 4-Prong—  
Cat. No. 5675
- 5-Prong—  
Cat. No. 5676
- 6-Prong—  
Cat. No. 6937

Our Price 12c ea.

### Sub-Base Mounting Sockets

- 4-Prong—  
Cat. No. 4080
- 5-Prong—  
Cat. No. 4081
- 6-Prong—  
Cat. No. 6938



Cat. No. 4080  
Sub Base Mount

12c ea., \$1.20 doz.

MAIL ORDERS TO **F.P.I.**  
See Terms on Page 5

**Federated Purchaser Inc.**

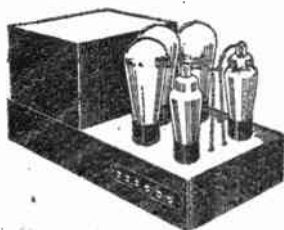
25 PARK PLACE, N. Y. C.  
or to our nearest branch

## Two Sensational Achievements in Sound Reproduction

At no time in its development was any particular heed paid to the cost of material and only the very best equipment goes into the manufacture of these amplifiers. The fact that tremendous production was started at once on these amplifiers was the first indication that their cost would be extremely low as material could be purchased in large quantities.

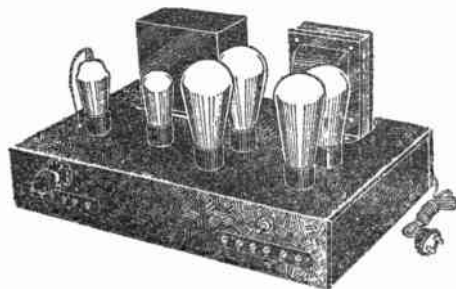
# Acratone

The public address field has constantly been plagued with expensive equipment which did not prove its worth, nor operate in the manner in which it was advertised. Do not under any circumstances compare this amplifier to low-powered and exaggerated output amplifiers sold at competitive prices. These amplifiers are made of only the finest parts obtainable.



**Super-Power  
Semi-Class B  
245 Power  
Amplifier**

Cal. No. 107.  
**\$18.50** Less  
Tubes



**3 Stage  
250 Power  
Amplifier**

Cal. No. 101  
**\$24.50**  
Less Tubes

CADMIUM PLATED CHASSIS

**Power Output—10.3 watts.  
Power Consumption—55 watts.  
Power Supply—110-125 volts 60 cycles A.C.  
Size—11½ in. long, 6½ in. wide, 7 in. high.  
Employs 2-57, 2-245 and 1-280 Tubes.**

Set of Universal Tubes . . . . . **\$2.60**  
Set of Arcturus Tubes . . . . . **\$3.39**

**Power Output—11 watts.  
Power Consumption—130 watts.  
Power Supply—110-125 volts, 60 cycles A.C.  
Size—16 in. long, 11 in wide, 8 in. high.  
Employs 1-58, 1-56, 2-250 and 2-281 Tubes.**

Set of Universal Tubes . . . . . **\$ 6.25**  
Set of Arcturus Tubes . . . . . **\$13.00**

Amplifier development has taken rapid steps in the last few months. Small output tubes can be made to develop tremendous power in new circuits. Where ordinary push-pull 245 amplifiers develop a maximum of 4 watts, the special circuit of this amplifier enables an undistorted output of 10.3 watts, and still maintaining exceptional quality.

### Circuit of No. 107

This amplifier is operated as a standard class A audio amplifier until its output reaches 4 watts; then a change takes place and the 245 tubes turn into class B tubes and the result is tremendous output. This change is taken care of by the special attenuator control and is not a sudden change, but a smooth, graduated gain.

The first stage in this amplifier uses two of the new type 57 pentodes. These tubes act both as the voltage amplifiers and a power stage transferring a substantial amount of energy to the 245's. This stage is bridge-coupled to the special output stage.

### Power

The maximum power output of this amplifier is actually 10.3 watts. At this output the quality is as excellent as at lower levels! The gain of this amplifier in decibels is 80.

### Quality and Performance

The reproduction of this amplifier is excellent and is particularly recommended for recording, medium sized public address systems and sound cars. The response from this amplifier is good from 30 to 10,000 cycles.

This amplifier will fill an auditorium or theatre seating up to 3,000 people; will operate 3 auditorium dynamic speakers at maximum and can handle up to 6 such speakers with tremendous power.

### Universal Input and Output Connections

The input transformer of this amplifier is wound for a standard single or double button microphone and for a low impedance or high impedance phonograph pickup. The output is wound to match standard voice coils and high impedance dynamics or magnetics.

### Gain Control

The gain control on this amplifier is no ordinary volume control but a specially constructed dual potentiometer giving excellent regulation over the entire output range. This control is equipped with a graduated plate for scaling volume levels.

### Circuit of No. 101

This amplifier consists of three stages. The first stage uses a 58 as a high gain voltage amplifier. This stage acts as a pre-amplification unit, which gives added power to microphone or phonograph input. This stage is coupled by a balanced bridge of resistors to a 56 intermediate amplifier which is transformer coupled to a pair of 250 tubes.

The secondary of this transformer is equalized to keep the amplifier from reaching distortion levels and maintains pure tonal quality under all conditions. The input transformer provides for phonograph, ra-

dio, and microphone coupling. The output transformer is tapped at the following impedances: 9, 15, 500, and 4000 ohms. The 9 ohm winding is for coupling to Wright DeCosta and similar speakers. The 15 ohm coil is for recorders, dynamic units and RCA Telephone speakers. The 500 ohm winding is for speakers and mixer lines while the 4000 ohms secondary is recommended for magnetic monitor speakers and dynamics that already contain output transformers.

### Quality

A true straight line curve from 30 to 10000 cycles has proven that the Acratone Laboratories have really attained perfection in this outfit. The audio transformers used are all of the large upright type and use the finest grade of pure silicon steel cores. This enables the fine frequency response which makes this amplifier outstanding.

### Performance

This amplifier will fill a hall, theatre, stadium or an auditorium seating up to 4,500 people. It is capable of filling to maximum 4 auditorium type speakers but will handle 6 to 8 such speakers with ample power. Special output is provided for use with exponential horns, equipped with dynamic units.

These Acratone Amplifiers have been continuous on test for over a month to assure long life and their ability to meet varying conditions. The heavy duty power transformer is constructed for an extremely large safety margin. An electrostatic shield is used between the primary and high voltage winding to reduce the capacity and remove all possibility of arcing between. The temperature rise over a period of 24 hours was 42 degrees Centigrade from normal room temperature.

### Attenuator Control

A control is provided on the front panel for easy access. This gain control moves in a logarithmic curve from complete silence to a deafening roar with volume graduations in smooth stepless attenuation. This gives complete control over both the input and output. A graduated scale is provided for charting various output levels. At all volume levels the same pure tonal quality is maintained. Instructions on output levels for recording and various sized auditoriums are discussed in the instruction sheet.

### Power

Generally amplifiers of this type are rated as having an output of from 12 to 15 watts. When measured on actual Western Electric standards the true maximum output of 2-250's in push-pull was obtained; a full 11 watt. The gain of this amplifier measured by the same standards was found to be 87 D. B.

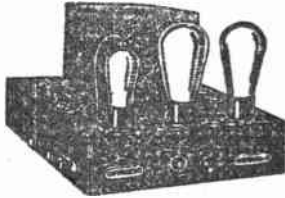
**Additional  
Amplifiers  
on Pages  
53 and 54**

# LOFTIN-WHITE AMPLIFIERS

## LOFTIN-WHITE "245" Amplifier

(Licensed)

For Use in Home Phonograph  
Reproduction and Small  
Public Address Systems



Employs 1-45, 1-24, 1-60 Tubes  
Completely Assembled and Tested  
(less tubes)

This job is ideal for home use as a recording amplifier or phonograph amplifier. For commercial purposes this unit is recommended for use as a line booster or speech amplifier.

### TECHNICAL INFORMATION

When used with a microphone, no additional amplification is necessary. This is due to the inherent characteristics of these amplifiers. The high impedance secondary of the "mike" transformer automatically increases the gain of this system and compensates for the low input voltage of the microphone.

The output of the "245" Amplifier is conservatively rated at 3 watts.

"245" AMPLIFIER—Completely Wired and Tested (less tubes)

Cat. No. 76

**Our Price \$13.50**

## Loftin-White Single Pentode Amplifier

The single 247 (Pentode) amplifier uses 1-224, 1-247 and 1-230. The output of this unit is about 4 watts. For high gain this unit is recommended for use in the same purposes as the 245 amplifier.

Cat. No. 82

**Our Price \$14.95**

## The Loftin-White '250'

(Licensed)

For Theatres, Public Address  
and Microphone  
Amplification

Employs 1-50, 1-24, 1-81 Tubes

The "250" Amplifier will successfully do the work that much higher-priced amplifiers have been doing in the past. For phonograph reproduction this model can be relied upon to deliver sufficient volume to fill a hall containing up to 1,500 people.

The undistorted output of this unit is 6 watts. For small public address systems this job is used extensively. The amplifier is adaptable for phonograph, microphone and radio inputs.

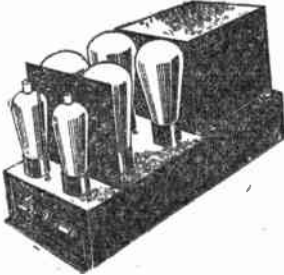
The output of the "250" is from 6 to 8 watts, undistorted.

"250" AMPLIFIER—Wired and Tested (less tubes)

Cat. No. 78

**Our Price \$19.95**

## The Midget 250 Push-Pull Amplifier



This unit is the most recent development in sound systems since the introduction of the large power tubes. Up to this time to procure great volume, amplifiers were necessarily large and expensive, which involved critical layout, large transformers, chokes, etc., as well as heavy filter systems to eliminate hum and distortion, by the use of a new method of direct coupling, it eliminates transformer distortion between tubes, and the other commonly known evils of the old type of amplifier. 2-224 tubes in push pull feed, 2-250's in push pull, 2-281's rectifiers. The output is rated at 12 watts. Its gain is 90 DB's at 400 cycles. The curve on the amplifier is comparatively flat and shows only a 4 DB drop at 10 KC. Power consumption is only 125 watts at 110 volts 60 cycles. At this remarkably low price, we have brought out an amplifier which exceeds in performance the majority of other units selling at much higher prices. Set size—13" x 6" x 8 1/2".

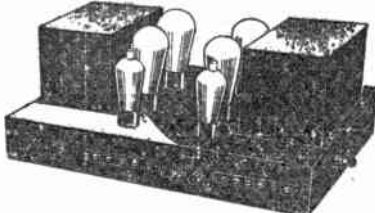
Suitable for Phono, Mike and Radio Input

Cat. No. 285

Less Tubes

**\$24.50**

## 250 Push-Pull De Luxe Amplifier



The output is rated at 15 watts and has a tapped output of 9, 13, 500 and 4000 ohms. The input is adaptable to Microphone, Radio and Phonograph which are built into the amplifier. This is the last word in Loftin-White amplification, and uses 3-224's in push pull feeding, 2-250's in push pull with 2-281's as rectifiers. At 400 cycles, the gain is 125 DB. It is ideal for large installations where several speakers are used. The unusually high gain eliminates the necessity of a pre-amplifier for microphone. Due to the new method of direct coupling used in the unit a degree of tone quality and volume is attained which has never before been offered.

At full volume, the percentage of distortion is about 7% and the amplifier ranges from 20 to 9000 cycles.

Mounted in a strong steel crystal (black) finished chassis the unit is the last word in amplifiers from every angle. A tapped output with engraved symbols makes for ease of operation. The input is also tapped for microphonic, radio and phonograph inputs. The gain control is built in. Size—19" x 10" x 8 1/2".

Suitable for Phono, Mike and Radio Input

Cat. No. 79

Less Tubes

**\$42.50**

## 224-247 Double Push-Pull Automobile Amplifier

This unit is the outcome of experimenting for a high gain amplifier at low cost and low power consumption. It has an output of 7.5 watts.

The job will operate from any 80 watt generator of the conventional type or from the new much advertised and used 110 volt generator designed to work from a 6 volt storage battery. This last unit is no larger than a "B" battery.

Previous to this a large and expensive amplifier was necessary to procure the same amount of volume and combined with this a power supply consisting of several storage batteries and a large generator, or a gasoline driven motor was needed. All this has been eliminated by the use of the above described amplifier. Size—19" x 10" x 7 1/2".

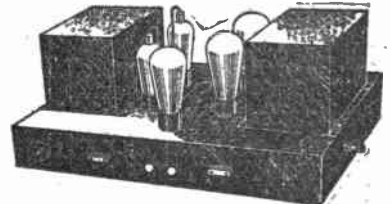
Suitable for Phono, Mike and Radio Input

Cat. No. 288

Less Tubes

**\$29.50**

## Push-Pull Pentode Amplifier



The new A.C. Pentode Double Push Pull Amp. uses 3-224 in push pull amplification resistance coupled to 2-247 pentodes in push pull. This unit has gain of 66 DB overall, making an ideal amplifier for microphone installation in medium sized halls, small parks and indoor or outdoor amusement resorts. The power output is 7.5 watts undistorted, with a quality of tone unusual in comparison to the average pentode amplifier. The unit is equipped with a matching transformer input for phono radio or microphone, making an ideal arrangement for general purposes. Mounted on heavy steel base finishing in black crystal. Size—19" x 10" x 8 1/2" high.

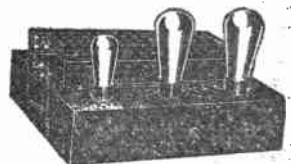
Suitable for Phono, Mike and Radio Input

Cat. No. 286

Less Tubes

**\$29.50**

## DC High Gain Amplifier



Has an undistorted output of 2.5 watts. Uses 1-237 and 2-257 output tubes in push pull. This output is equivalent to the output of the average 245 amplifier. A tone control is supplied to vary the tone to any degree desired. The circuit is a high gain two stage unit taking advantage of the new D. C. pentodes and giving a tone quality never before accomplished on D. C. at this volume. It is ideal for microphone input. Very compact, it has the unusually low current consumption of 1/2 ampere. In addition, is no more costly than any A.C. unit of the same power. Size—11 3/4" x 8 1/2" x 5".

Suitable for Phono, Mike and Radio Input

Cat. No. 287

**\$17.50**



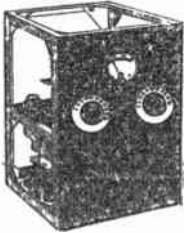
# TRANSMITTING EQUIPMENT



Designed by

## 10 Watt Transmitter

The low power universal transmitter described in this article represents the most advanced design for this class of equipment. The circuit employs a '24 speech amplifier, resistance coupled to a pentode modulator which feeds into a pentode oscillator. The rectifier is a full-wave '80 type tube. The output of this transmitter is rated at 10 watts. The power equipment specified has a 75 per cent overload safety factor. The antenna system is of the absorption type. The oscillator is of the well-known Hartley design, with slight modifications, readily noted from the schematic diagram. The Heising or plate modulation system is used. An important feature of the design is the fact that one power supply and a single source of bias are used throughout.



Cat. No. 126

**\$75.00**  
Complete with Tubes

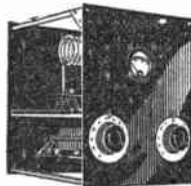
A convenient switch on the front panel permits rapid change from C.W. to phone. The switch, when on "phone," shorts the key and cuts in the modulator. When at "C. W." position, it cuts out the modulator and speech amplifier, so that only the oscillator is used, with key control. A calibrated listening monitor or a wave-meter should be used to check the wave-length accuracy.

The universal 10-watt transmitter is built on a rugged aluminum frame, 10 inches wide by 14 inches high by 9 inches deep. The microphone and the key are connected to binding posts at the back of the transmitter. The frame is grounded, while the antenna is connected to a binding post located alongside of condenser (31). The switch for changing over from phone to C.W. is conveniently located on the front panel. This panel also carries the milliammeter, the microphone gain control, the tuning dials for the variable condensers (27 and 31), and the microphone and line switches.

The Universal Transmitter designed by Messrs. Werner and Blair is exceedingly efficient. The following are a few of the stations worked during the first week the transmitter was on the air: EAB116 (Spain), 40-meter C.W.; W4IU (North Carolina), 160-meter phone; W8ACI (Pennsylvania), 160-meter phone; W7LZ (Oregon), 40-meter C.W.; W2ZZAT, Expedition in Yucatan, kept schedule on 80-meter C.W. Although the output of this transmitter is only 10 watts, it is capable of reaching out to very great distances, not only on C.W. but also on phone. Incidentally, this job is light, compact, and comparatively inexpensive. (This transmitter is fully described in an article by Mr. Werner in the August 1932 issue of "Short Wave Craft.")

Federated Purchaser has been hesitant about entering the Transmitter field because it felt that it is a highly specialized branch of the radio industry in itself. We felt that when we did decide to offer transmitting apparatus, it would not be of the ordinary run, but extraordinary equipment designed and constructed by experts in the field. We have been fortunate in securing the services of two pioneers of the key and phone, G. Leonard Werner and Haskel Blair, who have designed and built transmitting apparatus for many years and who are up to the minute on the subject. The equipment described on this page was designed and built under their personal supervision, and incorporate the last word in transmitter design. In inaugurating this department, we have featured only such items for which there is a general demand, of simple construction and easy to operate, yet extremely efficient. If you are interested in building or having us build for you any special transmitting apparatus, or wish to ask any questions on the subject, we will be glad to have you write to Messrs. Werner and Blair, who will give your letters their personal attention. If you know of any other items which should be featured in this department, tell us.

## 50 Watt Hartley Oscillator



Cat. No. 129

**\$55.00**  
Less Tubes

for phone work. The filament is center tapped where the keying is done. It uses one 50 watt tube as oscillator.

This oscillator is one of the most efficient circuits in radio today, and we offer this efficiently made job to the experimenter, commercial and amateur operator. This job is completely wired and is supplied with 20, 40 and 80 meter coils. The latest and foremost equipment is used in its construction, and it is so designed as to be adaptable

## Listening Monitor

We are offering at this time a new development. It consists of: a completely wired unit employing the long sought for band spread on the 20, 40, and 80 meter channels. On each of these bands, we have almost a 100 degree spread. It employs the new type 230 tube and the entire unit including A and B batteries in a neatly crackled finished metal can No. 5X9X6. A Burgess 2 volt battery and a small 22½ volt battery with a 230 tube will be supplied for \$2.00 extra.

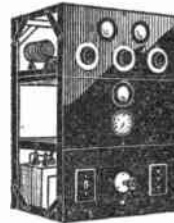
Cat. No. 131

**\$9.00**  
Less Tubes and Batteries

W2PN

## 50 Watt Transmitter

50 watt phone and C.W. crystal control transmitter, complete with power supply.



Cat. No. 127

**\$350.00**  
Less Tubes

Consists of 210 crystal oscillator, 2-210 frequency doublers, 2-50 watters (type 511) in parallel as modulators, modulating a 511 as the final amplifier. An 80 meter fundamental crystal is supplied as: are volt meters, milliammeters and antenna meter. All controls, switches, volume regulators, jacks, etc., are conveniently brought out on the bakelite paneling. Equipment such as Cardwell, Flechtheim, Thordarson is used.

## KOLSTER Push-Pull 245

Power Amplifier and Matched Dynamic Speaker

For radio, phonograph, public address systems for lecture and Concert Halls and small auditoriums. Reproduces speech and music with marvelous fidelity of tone.



The amplifier has two stages using the 227 in the first and two 245 tubes in the push-pull stage with a 280 rectifier. Kolster Dynamic Speaker to match. For 115 volts, 60 cycle alternating current.

Cat. No. 102

**Our Price \$16.95**  
(Less Tubes)

## Screen Grid R. F. Tuner

This unit consists of complete R. F. section to be coupled to any audio unit. Uses 4 space 224 tubes and will operate on either A. C. or D. C. current. The condenser gang is completely shielded as are the R. F. coils. A fine adjustment of the volume may be obtained from the volume control which is included in the unit.

Cat. No. 132

**\$13.50**  
Less Tubes

**Great News for Battery**

**Set Buyers!**



**RADIOLA 28**

**8 Tube Super**

**Complete With  
Eight Radiotrons**

**Brand  
New in  
Original  
Factory  
Sealed  
Cases**



Radiola 28  
Second  
Harmonic  
Super-  
heterodyne  
in  
distinguished  
and graceful  
two tone  
mahogany  
cabinet. A  
ample  
compartment  
for all  
batteries  
directly  
under  
cabinet  
easily  
accessible  
by

Cat. No. 28  
List Price, \$260

**Our  
Price  
\$13.75**

**Including  
8 R.C.A.  
Radiotrons**

raising hinged upper section of receiver.

Tubes used and furnished with receiver are 7 UX-199 Radiotrons and 1 UX-120 Radiotron. Same tubes used whether receiver is operated by batteries or eliminators.

Just the set for the home without electricity, for sailboats, tourist camps, houses on wheels, etc. Will work anywhere without external connections. Fully self-contained.

This set is very sensitive and powerful and yet uses dry cells throughout. Employs twelve 1½ V. No. 6 Dry Cells.—Cat. No. 6656

Three 22½ V. B. Batteries—Cat. No. 6685—and two 45 V. B. Batteries.

Cat. No. 6905

**COMPLETE WITH ALL BATTERIES,  
TUBES AND RADIOLA 10" SPEAKER  
READY TO PLAY**

Cat. No. 128

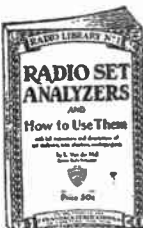
**\$22.25**

**Radio Set Analyzers**

**AND HOW TO USE THEM**

With Full Instructions and Descriptions of Set Analyzers, Tube Checkers, Oscillators, Etc.

By L. VAN DER MEL  
This book explains thoroughly the operation of set analyzers, tube checkers, oscillators and other testing equipment. For every radio man this book is extremely helpful. It covers every phase of testing and gives you valuable short cuts.



**Our Price 50c**

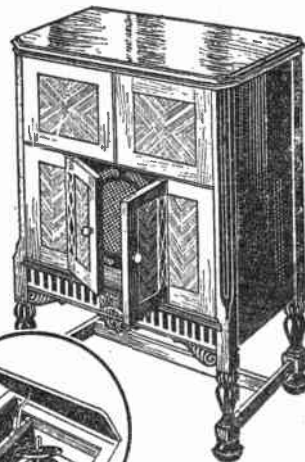
**To Meet the Great Demand  
We Have Secured a New Shipment of  
COLUMBIA AUTOMATIC PHONOGRAPHS  
AND AMPLIFIERS**

This DeLuxe Columbia Automatic Record Changer and electrically operated Phonograph is the greatest buy we have ever offered to the public. The size of the re-orders from customers who originally purchased a single sample is definite proof to us that it is satisfactory universally. Built into a handsome selected walnut cabinet, it consists of a Columbia Electric Pick-up; a powerful Kolster Amplifier, using 1-227, 2-245s and 1-280 tube, giving tremendous volume without distortion; a Rola 12" Auditorium Dynamic Speaker; and in addition to all this, an automatic record-changing device which records consecutively.

Just think what you get for only \$29.50. Why, the record-changing device alone is worth more, to say nothing of the Amplifier and Dynamic Speaker and Pick-up and the gorgeous walnut console cabinet in which this outfit is housed.

This unit has many uses. A serviceman or a dealer could find excellent use for it in his own place for demonstrating records and for making records of your customers' voices for home talking amplifiers.

Any number of organizations in your home town or neighborhood can use this equipment; dance halls, clubs, restaurants, and innumerable others. Another good suggestion which has been put into use by several of our customers has been the addition of a tuner to this phonograph. All the voltages can be obtained from the power amplifier already installed. There is sufficient space to the right of the amplifier on the bottom of the cabinet so that a tuner could be built into it, and with a remote control device such as is used in automobiles, the tuning dial could be placed underneath the lid right alongside of the record-changing device. It has proved very satisfactory and in one particular case a customer of ours has used several of these machines for that purpose.



Insert shows top of instrument with automatic record changer.

Cat. No. 200  
List Price, \$295.00

**Special  
Our Price \$29.50**

**POWERIZERS**

**R-25 and R-28**

**ABC Eliminators and Power  
Amplifiers for Radiola  
Models 25 and 28**



Size: 19x5½ x5½. Weight: 16½ lbs.  
List: 384.00. (Less tubes.)

You can now convert at very little cost Radiola 28's and 25's to modern Power Amplified all-electric receivers by using this Powerizer Power Pack.

This Pack is a double action Unit when used with these receivers. It does away with all batteries, supplying complete A, B and C current for all the 199 tubes in the set in addition to supplying a stage of 210 Power Amplification in place of the 120 tube, giving unsurpassed tone and tremendous volume. It is a revelation.

This Powerizer approved by RCA. Very simple to connect. Uses the UX-210 and 280 tubes. Operates on 110-120 Volts, 50-60 Cycle A.C. current.

R-25—Cat. No. 4481 For Radiola 25  
R-28—Cat. No. 4482 For Radiola 28

**Our Price \$18.75**

**RCA-Victor End Table  
Electrola**

Dimensions:  
24½ in.  
high;  
16 in. deep;  
36 in. wide.

**\$16.50**

Cat. No.  
269



MODEL T5

Beautiful Walnut veneered cabinet. Spacious ledge for records. 8 ft. electric cord 20 feet. cable to Radio set. Will make a phonograph combination of any radio. RCA-Victor electric motor and Victor pick-up. Radio-record transfer control; phonograph turntable, starts and stops automatically.

**We Carry the Largest Assortment of Wire in the Mail Order Business. Our Prices Are Below Market. See Pages 76, 77 and 78.**

## Universal Model "Q R Q"

An exceptionally efficient, small low cost microphone for amateurs, experimenters and for any installation requiring a simple single-button microphone. Q R Q is an exact replica of the Standard Broadcast Model in appearance. It is 3 1/4 in. high and is finished in beautiful polished chrome.



Furnished with 3-ft. phone tip cord. Packed wt., 1 lb. 1 oz.

List Price \$5.00

Cat. No. 212

Model Q R Q is a single-button, 200 ohm carbon microphone with high sensitivity and clear, natural reproduction. The button is solid 24-karat Gold faced, giving it extremely long life.

**Our Price \$2.94**



UNIVERSAL "BABY MIKE"

Cat. No. 206

List Price \$7.50

It is shipped to you securely packed and completely furnished with prong adapter for connection to tube, pin plugs for connection to jacks or winding posts, 25-ft. cord, detailed instruction sheet—in short, everything needed to hook up ready to enjoy the fun.

**Our Price \$3.95**

## Universal Model "LL"

An extra rugged, heavy type, two-button broadcast microphone. The entire assembly is of high carbon steel, ground to within .001 of an inch accuracy. The diaphragm is alloy of exactly the proper hardness and stretch to secure the best results. Pure gold contacts are placed on each side. The materials used and the precision of manufacture combine to make this model stand out as the superlative microphone reproducing a range from 30 to 7,000 cycles.



Net wt., 2 1/4 lbs. Packed wt., 2 3/4 lbs.

Cat. No. 211

List Price \$75.00

Model "LL" is 3 1/2 inches in diameter by 1 3/4 inches thick and is standard 200 ohms per button. Polished chrome finish.

**Our Price \$44.10**

## Universal Model "A" America's Most Highly Developed Single-Button Microphone

### New Heavy Duty Design

The new design of the heavy duty Model "A" microphone incorporates improvements that lift the performance of this most refined single-button microphone above anything considered previously. The new type of perforated protective facing more than doubles the effective area of the diaphragm.

Model "A" is constructed with Solid 24 Kt. gold faced button and highest grade carbon granules which reduce hiss to a minimum. Equipped with an extremely thin, light weight diaphragm which is also gold faced. The scientific damping permits Model "A" to handle frequencies from 100 to 3,000 cycles.

The single button is 200 ohm resistance. Model "A" is 3 in. in diameter by 1 1/4 in. thick. It is beautifully plated in polished chrome and can be mounted in various ways. Model K Desk stand or 5/8 in. suspension ring recommended.



Cat. No. 208

Net weight 1 lb Packed weight 1 1/2 lbs.

List Price \$15.00

**Our Price \$8.82**

## Universal Model "BB" 1933 Value—New Super-Design



Cat. No. 209

Net weight 1 lb. Packed weight 1 1/4 lbs.

List Price \$25.00

**Our Price \$14.70**

ters. Duralumin Diaphragm and has a frequency range of from 70 to well over 4,000 cycles, 200 ohms per button.

Owing to the large size and weight of Model "BB" it is recommended that Model "L" desk stand be used for mounting instead of Model "K," especially when covers are used.

The super-microphone in every sense of the word. No other 2-button microphone can give such superlative value for such a low price. Model "BB" is nearly twice as heavy as any other microphone in its class. Built to hair-line precision. An idea of the ruggedness can be obtained by the fact that Model "BB" is 2 in. in diameter by 2 in. thick.

It is built especially for voice-pickup, public address work and for amateur broadcasters, experimenters, halls, call rooms, speaker wagons, etc. Finished in beautifully finished, highly polished chrome plate.

Model "BB" has extra heavy 24 - Kt. Pure Gold Spot Centers.

**All Microphones are shipped in original factory sealed containers. Due to the delicate construction of these instruments, repairs and adjustments are made by the factory only.**

## Universal Model "KK" A Top-Notch Double-Button Broadcast Microphone

Only supreme performance and year after year dependability can explain the fact that the improved Model "KK" continues to be the most popular and fastest selling \$50.00 microphone on the market.

A substantial, solid, two-button broadcast microphone, with a very minimum of hiss. Model "KK" is carefully constructed of the finest materials with a 24-Kt. pure gold spot center alloy diaphragm which is held under tension. Diaphragm has a thickness of only .002 in.

The frequency range of Model "KK" is all that can be desired in a carbon microphone, namely from 50 to well over 8000 cycles. The buttons are of 200 ohms resistance each. Entire microphone finished in 24-Kt. polished gold. It is 2 1/2 in. in diameter and 1 1/4 in. thick. Each unit is carefully laboratory tested before shipment.



Net weight, 1 1/4 lbs. Packed weight, 2 lbs.

Cat. No. 210

List Price \$50.00

**Our Price \$29.40**

## Universal Model X Two Button Microphone

A Sensational Microphone at a Sensational Price



Diameter, 2 1/2" Thickness, over all, 1" Weight packed, 1 lb. Polished Nickel Plate

A two-button microphone listing at only \$10.00. Model "X" sets a new high standard for quality at a price that defies competition.

Model "X" confirms the reputation for quality and performance that characterizes all Universal products. Every essential feature necessary to insure superior performance and long, care-free service has been incorporated in the design of this model. Only the non-essential trimmings have been eliminated to enable us to offer this remarkable microphone at this popular price.

Faithful, truly natural tone. Pure Gold Contacts. Duralumin non-breakable diaphragm. 200 ohms per button. Very low hiss level. Scientifically Damped. Frequently range from 1,000 to 4,000 cycles. Model "X" is ruggedly built and finished in non-corrosive, polished nickel plate. Can be mounted in any Universal mounting. Diameter, 2 1/2 in. Overall thickness, 1 in.

Nowhere can a better microphone be purchased at anywhere near this astonishingly low price.

Cat. No. 524

List Price \$10.00

**Our Price \$5.88**

**FEDERATED PURCHASER is the premier radio replacement parts house in the U. S. A. 3,000 items carried in stock.**

## Universal Condenser Microphones



The model herewith illustrated is the result of exhaustive experiments to produce a microphone for film and disc recording, in which field 90% of the production of this model is used. Universal Condenser Microphones are in use in nearly all parts of the civilized world in film recording and in broadcast studios.

Universal Condenser Microphones, Model 1440 and 2440 are made in two stages—the first having a single stage of amplification and in the second, a 2 stage amplifier is used. They are otherwise the same in size and appearance. Following are detail descriptions:

A single stage microphone using a 440 tube with an output of approximately minus 15, D. B., with an almost flat response from 32 to 7000 cycles. Amplifier housing of pure aluminum, drawn in one piece without seams or rivets. Amplifier base casting of bronze with transmitter head ring of brass. Neat and business-like in appearance, finished in beautiful statuary bronze plate. Battery required 6V "A" and 200V "B." The output is designed to feed into a 200 ohm load, or the input terminals of an amplifier, where a carbon microphone has previously been used. The current consumption on the 200 volt tap is only 2 milliamperes with filament current of .25 amp. Size: 6 inches by 3 inches. Net weight, 11 lbs. Packed weight, 17 lbs. Complete with 25 feet Rubber Covered

Shielded Cable  
Cat. No. 242.

List Price \$300

**Our Price \$176.40**

A two-stage microphone using two 440 tubes with an output of approximately plus 2 D. B. This model is the same in every particular as Model No. 1440, except the current consumption on the 200 volt tap is only 4 milliamperes with filament current of 5 amp. Size 6 inches by 6 inches by 3 inches. Net weight, 12 lbs. Packed weight, 18 lbs.

Complete with 25 feet Rubber Covered Shielded Cable

Cat. No. 243

List Price \$350

**Our Price \$205.80**

## Universal Suspension Rings

Made of solid brass, for suspending microphones from ceilings or beams. For use especially with Models "A", "BB", "KK", or "LL" etc. Beautifully finished in polished chromium.

Size 5 1/4 in. diameter by 1/2 in. wide by 1/8 in. thick—8 suspension springs included.

Cat. No. 3636

**\$1.47**

Size 6 1/2 in. diameter by 1/2 in. wide by 1/8 in. thick—8 suspension springs included.

Cat. No. 3621

**Our Price \$2.35**



## Universal Desk Type Mountings

### MODEL "K" DESK MOUNT WITHOUT COVERS

Model "K" is 5 inches in diameter and is used for mounting Model "A", or "KK" microphones on 4 points of suspension, using 8 springs—the ideal way to suspend a microphone. It may be used for the new heavy "BB" but is not recommended for this new larger unit.

The base is set in moulded rubber ring forming a cushion against vibration and preventing damage to polished surfaces.

The entire unit is beautifully finished in chrome plate. Provided with a finger ring for carrying. Cable passes through the hollow base.



Net wt., 2 1/2 lbs.  
Packed wt., 3 1/2 lbs.  
Entire assembly 8 in. high.

8 Suspension Springs Included

List Price \$5.00

Cat. No. 238

**Our Price \$2.94**

## Adjustable Floor Stand

An extra heavy floor stand, with extra heavy base weighing 18 pounds, so that all possibility of tipping is eliminated. The top ring is 6 1/4 inches in diameter, four point suspension to accommodate all large microphones now in use. Total extended height, 6 feet. It is smoothly operated with very positive clamp lock, preventing falling of stand while extended. Finished in Statuary Bronze, making a fine studio appearance.

Cat. No. 333

**Our Price \$8.50**



## Extra Heavy Condenser Microphone Floor Stand

Built especially for condenser microphones. An idea of its ruggedness can be attained from the main body tube which is 2 inches in diameter. The entire assembly is statuary bronze plated and presents a fine studio appearance. A flange at top allows for easy mounting. The adjustment lock screw is firm and positive and locks, or releases by the slightest thumb pressure. Net weight, 21 1/2 lbs. Packed weight, 28 lbs.

Cat. No. 244

List Price \$40.00

**Our Price \$22.80**

## Model "K" Desk Mount with Covers and Letter Shield

POLISHED CHROME FINISH

Desirable protection from the curious is secured by the beautifully turned and screened covers of the covered Model "K". The covers are sprung into position, eliminating trick mechanisms which are liable to rattle. Makes a substantial and business-like appearance. Same stand and frame as on Model "K" without covers.



Cat. No. 230

8 Suspension Springs Included. List \$9.00

**Our Price \$5.29**

## Model "L" Desk Mount with Covers and Letter Shield

The same type of covers as described for Model "K" are fitted to the 6 1/2 inch diameter of the Model "L" mounting. Extra room is provided inside the ring and screened covers to allow freedom of movement without danger of jar or shorting of wires. Polished chrome finish, it is most attractive and business-like in appearance. Full instructions for mounting. Call letters furnished. Any letter can be mounted at no extra cost.

Net weight 3 1/2 lbs.; Packed weight 4 1/2 lbs.

Cat. No. 232

8 Suspension Springs Included

List Price \$16.00

**Our Price \$9.51**

### MODEL "L" DESK MOUNT WITHOUT COVERS

Model "L" is 6 1/2 inches in diameter and is used for mounting Model "LL", 387 W. or New Type "BB", or other large, heavy types of microphones. An extremely well-built and attractively finished in chrome plate mount following the lines of Universal's general designs. Presents a highly professional appearance.

Entire assembly 10 1/2 inches high. Net weight, 3 lbs. Packed weight, 4 1/2 lbs. 8 Suspension Springs Included. List \$10.00

Cat. No. 239

**Our Price \$5.88**

## Banquet Stand

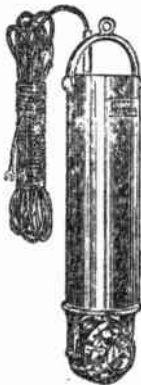


A beautifully finished stand of Statuary Bronze, adjustable from 12 inches to 24 inches. The top ring is 6 1/4 inches in diameter, four point suspension, built to accommodate any large microphone on the market. Can also furnish top ring of 5 1/4 inches in diameter, three point suspension to accommodate smaller microphones now in use. Weight of base, 6 pounds, so that there is no possibility of damage being caused by tipping.

Cat. No. 332

**Our Price \$5.50**

### UNIVERSAL New Bullet Type Microphone



With Tone Control and Battery Compartment

Carbon Granule Type With Hiss Eliminating Filter

A double button microphone giving the appearance of a condenser mike. Recommended to be used wherever the mike is in full view of the audience.

Bullet Microphone	Cat. No.	List Price	Our Price
"BB"	217	\$50.00	\$29.40
"KK"	210	75.00	44.10
"LL"	223	100.00	58.80

Note: All Bullet Type Microphones supplied with cable as shown. Shipped without battery.

Universal Bullet Type Microphones are the last word in appearance and performance for the lowest possible cost. Especially recommended for use in public address work of all kinds where elegance of appearance, beauty of design, and true reproduction of voice and sound are demanded.

Careful tests have shown that the hiss level of Universal Bullet Type microphones is far below any background noise encountered in public address or similar work, making the proved performance of Universal high grade carbon microphones especially favored for that type of work.

Universal Bullet Type Microphones consist of a tube with a center partition, providing space for a standard 1½ volt No. 6 dry cell battery. Microphone head is fixed, assuring vertical position at all times. Adjustment screw, operated through side of tube, permits microphone adjustment for varying acoustic conditions. Flexible wire connections, long enough to permit easy battery replacement. Rubber cushions and spring tension slides make a very rugged assembly that permits a great deal of handling and transportation without affecting performance.

Finished in highly polished aluminum and chrome plate.

### FROST Microphones

Desk Microphone

Cat. No. 6201

**\$4.60**

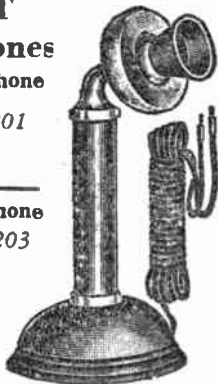
Hand Microphone

Cat. No. 6203

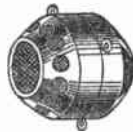
**\$3.75**

These microphones enjoy an enviable reputation for their excellent performance

and appearance. Their design is based on over thirty-five years experience in the telephone manufacturing field and they are guaranteed to give complete satisfaction when used in proper circuits. They are not designed for commercial broadcasting use, but are intended for amateur and general apparatus work. These microphones are very sensitive and rugged in construction. Available in two different standard styles complete with cord.



### Universal Torpedo Type Microphones



This new type of Universal Microphone is supplied to meet the steadily growing demand for microphones which in themselves are fully protected, and can be quickly demounted. Torpedo

Type Microphones of the design illustrated are supreme in this field. They combine in one instrument the recognized outstanding quality of tested Universal microphone performance with the special features demanded.

Connection is made to three spring jacks into which telephone pin terminals are plugged. Not supplied with cord. The polished chrome plated perforated and screened cup housings are of heavy brass and are firmly fastened. Can not be removed accidentally. Supplied in standard Models "BB," "KK," and "LL."

Model	Cat. No.	List Price	Our Price
Torpedo "BB"	226	\$30.00	\$17.64
Torpedo "KK"	228	\$55.00	\$32.84
Torpedo "LL"	229	\$80.00	\$47.04

### Universal Single Button "Handi-Mike"

Pre-eminent for all uses where a hand microphone of single-button construction is desired. It is intended for voice only and in this field it has maximum volume with clear and clean-cut speech reproduction.

The single-button Handi-Mike is built in two models—"Regular" and "Home Recording." The universally enthusiastic praise this microphone is receiving is establishing it without competition for superior home recording.

Handi-Mike is finished in beautifully polished chrome. It is equipped with an "off" and "on" toggle switch, 15-foot cord, and provided with an eye as shown for hanging while in or out of use.



Cat. No. 213.  
Regular Model

Cat. No. 214.  
for Home Recording

List Price \$10.00

**Our Price \$5.88**

### Universal Double-Button "Handi-Mike"

Same size and appearance as the Single Button Mike.

An exceptionally clear, highly damped hand microphone, designed particularly for uses where clarity of reproduction plus general adaptability and portability are important requisites—a microphone that is outstanding for its superior reproduction qualities. Especially recommended where microphone must be used in close proximity to loud speakers, such as home talkie installations and music trucks, etc.

The double-button Handi-Mike is 200 ohms per button. It is finished in beautifully polished chrome and comes equipped with a 6-ft. silk braid covered cable.

Cat. No. 227

**Our Price \$8.82**

### UNIVERSAL Miniature Microphones

MODEL W

MODEL Y



Cat. No. 221

List \$3.00

**Our Price \$1.77**

Cat. No. 222

List \$2.00

**Our Price \$1.18**

Universal Model "W" is the smallest completely protected and workable single-button microphone manufactured. Supplied particularly for the many special uses requiring a small, very sensitive compact microphone that can be depended upon to give full quality performance. A favorite type for use in hidden positions such as a detectophone, or on the coat lapel.

High sensitivity, light weight and compactness are the outstanding features of this model. 200 ohms. Equipped with Pure Gold Spot Center Diaphragm, completely enclosed, protecting it against injury during handling and use. 1½ in. in diameter. ¼ in. thick.

### The Super-Sensitive Midget Microphone

Universal Model "Y" is even lighter, smaller and more sensitive than Model "W," described above. It is of the same general construction as Model "W," except that the front face of the microphone is the diaphragm proper.

Model "Y" is extremely sensitive. When placed in any hidden position, it will pick up sounds and conversations. Recommended for use where high sensitivity and extreme compactness are necessary. Should be placed in protected locations, behind screen or grill work. Suitable for use with some of the less expensive types of ear phones. Because of the exposed diaphragm, great care must be exercised in handling.

### RCA-Victor Hand Microphone

Regular Model  
Priced Extremely Low!

Cat. No. 523

**Our Price \$1.95**



Manufactured by Kellogg Switchboard & Supply Co. This fine microphone is being used by RCA-Victor in their \$750 radio and phonograph combinations. Its extremely fine response curve makes it suitable for home recording, public address and amateur broadcasting. The entire casing and handle is of steel in gun metal finish, making it sturdy and rugged. It requires but 10 mils of current which may easily be obtained from a 1½ volt dry cell or power pack. For home broadcasting it is not necessary to use a coupling transformer with this mike as it will perform perfectly when inserted in series with the cathode of the detector tube. This mike is manufactured for RCA by Kellogg Switchboard and Supply Co., whose equipment is standard in 90 per cent of the world's broadcasting stations.



### Microphone Shielded Input Transformer

This unit is the result of many months of designing and tests. The frequency is exceptionally flat, from 80 to over 7000 cycles. Primary is split—100 ohms each side of the secondary impedance is of the order of 400,000 ohms. A larger unit than others listing for the same price. The size is 3 3/4 x 3 1/4 x 3 1/2 inches. Matches impedance of all standard type carbon 2-button microphones.



Cat. No. 2625 **\$2.50**



Two Button, Unshielded Microphone Transformer Same Characteristics as our No. 2625

Cat. No. 5596 **\$1.25**

Two button unshielded microphone transformer with 5000 ohm winding for standard pickup and a center tapped secondary so that it may be used with push-tube.

Cat. No. 7145

**\$1.95**

### RCA-VICTOR

### Low Impedance Electric Pick-Up Head

An exceptionally fine pick-up head with a cobalt steel permanent magnet housed in bronze finished brass case. Made by R. C. A. and used on R. C. A., Victor, Brunswick, G. E., Westinghouse and other makes of radio-phonograph combinations.



200 OHMS

Cat. No. 3670 **\$1.75**

### RCA-VICTOR

### Low Impedance Pick-up Head With Straight Neck

For RCA, Victor, Brunswick, G. E. and Westinghouse Radio-Phonograph Combinations 31, 32, 42.

Equipped with Special Victor Plug.

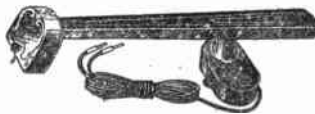
Cat. No. 7201 **\$2.25**

### Brunswick Low Impedance Pick-up Head

Same Neck as No. 7201 Above

Cat. No. 7200 **\$2.25**

### A New Super Hydro Double Action Pick-up



Can be used in combination Radio and Phonograph Broadcasting Stations, Public Address Systems, Laboratory and Experimental Work.

This unit is very efficient with much greater output and we recommend it as a competitive unit, against any make, regardless of price, size or output. A positive working principle and of the indestructible type.

Neat—Simple—Compact Construction All workmanship Precision Built, with the finest grade of material obtainable, unconditionally guaranteed. Beautiful stately bronze finish.

The Free Movement of armature while in riding position will prolong the life of the record materially and allow for any warp in the record. The needle will raise sufficiently with the stylus to overcome this and not gouge the groove at the warp. Rubber insulated needle screw top will stop any resistance points where screw may come in contact with the case. The rubber bumper and rubber piece mounted in back plate holds armature in position in case of drop or sudden pressure on needle point.

The magnetic flux is equal on all four sides of the Pole Pieces, giving a positive magnetic center and air gap at both ends of the armature.

The New Super Hydro brings out the fundamentals lost in most pickups and with less scratch and a full round tone.

#### STANDARD PHONOGRAPH PICKUP WITH VOLUME CONTROL

10" overall length, 7/8" from center pin to needle point.

Cat. No.	Type
5979	.....Regular High Impedance
6898	.....200 Ohm Impedance

**Our Price \$4.75**

• Can be used on Victor and similar receivers. Can be connected directly to microphone input transformer.

#### Standard Theatre Balanced Pickup



15 1/2" overall length. Arm is balanced for required type.

Cat. No. 5996 **\$5.25**

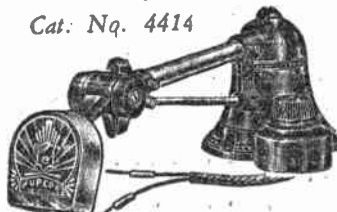
### THE NEW

### "Upco" Chromatic

Professional Pick-up With Built-in Volume Control

As Used in Theatres and Public Address Systems

Cat. No. 4414



UPCO'S engineers, backed by limitless skill and experience, have evolved this truly scientific, sensitive instrument, capable of reproducing all of the world's finest music with full justice to the consummate art of its creators.

**Our Price \$6.95**

### Acraphone Microphone Input Stages

These units each contain the well known Acratone Microphone Input Transformers,



Brown Crackle Finished Steel Case

microphone current control and cut out switch to preserve the life of the microphone. Frequency range 30 to 7000 cycles. Input, standard microphone impedance; output, 400,000 ohms. Completely shielded to avoid feed-back.

The unit is housed in a handsomely finished black crackle steel box. A volume control with an "on-off" switch for turning current off the microphone are included. The volume control has a very fine adjustment not ordinarily found in other input stages. Battery compartment for 1 1/2 to 6 volts.

Cat. No. 6528

For Single Button Mikes  
**Our Price \$3.85**

Cat. No. 6529

For Double Button Mikes  
**Our Price \$5.50**

### Utah Electric Pick-Up



Cat. No. 4751

**Our Price \$3.85**

The tone arm is scientifically designed to give the correct support to the pick-up unit. The weight of the tone arm is carefully calculated to insure the right amount of inertia for best reproduction. The pick-up is mounted in a manner to counter-balance part of its weight, thus materially reducing wear on records. Standard impedance 7500 ohms at 1000 cycles. Supplied with 6 ft. cord with phone tips. Artistic brown finish. Individually boxed. We recommend our Cat. No. 3610 Acratone Volume Control at 90c.

### Universal Tone Control

A new accessory that means much added value. The tone control is used across the buttons of any microphone to change the tone to fit adverse conditions. Shrill, high pitched voices may be toned down; normal, and gruff, deep voices may be tuned to more pleasing positions in the voice frequencies.

The tone control also permits an adjustment in public address and loud speaker installations that eliminates the "feed back," resonance of ringing echo following the pronunciation of certain words. It provides a flexible, adjustable element against these drawbacks when working in a building having bad acoustics.



Size, 2 1/2 x 2 1/2 x 4 1/2"  
Net weight, 1 lb.

Cat. No. 220

**Our Price \$4.70**

## Instrument Littlefuses

(Low Voltage)

This line is designed especially for the protection of such delicate equipment as galvanometers, microammeters and milliammeters, radio tubes testers. Pats. issued and pending. radio "B" circuits, small radio and rectifier tubes, etc. See also "Where to Use—A Littlefuse."



**INSTRUMENT LITTLEFUSE**  
Showing "Looked" Construction.

Cat. No.	Rating	Description	Aver. Max. Resis. and Load 5 Mil	Our Price
6643	1/100	Use for galvanometers, micro- and 0-1 milliammeters, 0-5 thermo-couples.	5 138	.12
6644	1/32	0-1 to 0-5 milliammeters, 0-5 to 0-15 m. a. thermo-couples.	15 65	.12
6645	1/4	0-10 to 0-50 milliammeters, 0-50 to 0-100 m. a. thermo-couples. Radio "B" circuits in auto and battery sets. Underwriters approved.	100 16	.09
6646	1	0-500 to 0-750 milliammeters, 0-600 to 1 amp. thermo-couples. Small rectifiers.	1000 .36	.06

## Assorted Carton of Instrument Littlefuses



Carton contains 50 Instrument Littlefuses of various sizes and mountings in the proportions most generally used. Instructions for use on each carton. Attractively colored and makes an

ideal counter display. Contents are as follows:

5—1/32 amp. 10—1/4 amp. 10—1/2 amp.  
5—1/16 amp. 10—3/8 amp. 10—1 amp.

5—No. 1010 Mountings

8 pr. No. 1012 Gryp-Connectors  
Weight, 1 lb.

Cat. No. 6649

List Price \$8.30

**\$4.80 per box**

## Single Pole Mounting for Littlefuses



For Instrument Littlefuses. Black moulded bakelite base 1 1/2 x 3/8 x 1/8". Tinned, shakproof terminals and extra quality phosphor bronze nickel plated fuse clips.

Mounting hole takes No. 8 or No. 10 Flat Head Screw. Overall length, 1 1/2". Height, 3/4". Standard package, 20. Weight, 1/2 lb.

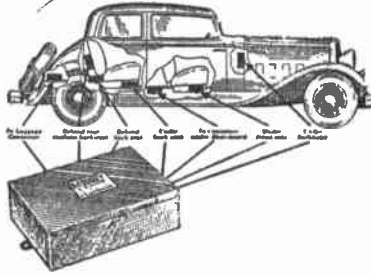
Cat. No. 6648

**9c each**

## ELKON "B" Eliminator

Makes ANY Auto Radio ALL-ELECTRIC

Universal application—suitable for all popular brands of standard automobile radio sets. Dependable, uniform reception. Easily installed. Safe and compact, tested and proven. List price, \$19.95 complete!



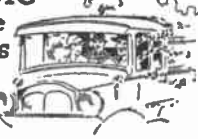
Delivers 180 volts at 30 mils and 135 volts at 40 mils. Requires but 2.1 Amps. at 6 volt input.

Size 10x7x3 1/4 in.

Cat. No. 273

**Our Price \$14.95**

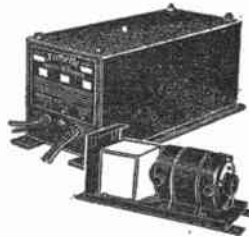
MUSIC on the Highways with no 'B' Battery Worries



## Janette Auto-B-Power

Perfect Auto Radio Reception

Free From—  
Battery Replacements,  
Battery Expense,  
Battery Voltage Drops.



THE JANETTE "Auto-B-Power" consists of a small JANETTE dynamotor and filtering device mounted in a strong, attractively finished steel box. It transforms the 6 or 12-volt current of an automobile or airplane storage battery into the higher voltage "B" current required by your auto-radio set. Whatever the voltage requirements of your auto-radio set may be a JANETTE "Auto-B-Power" can be furnished for the correct voltage. (See table on reverse side of this page.)

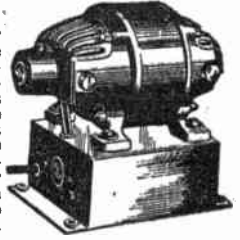
## Quiet—Compact Vibrationless

The JANETTE "Auto-R-Power" has a dynamically balanced armature; thus it runs with a minimum of vibration. Virtually inaudible when placed under the hood, floor boards or seats. Requires but little room—measures only 12x6x5 1/2 in. weighs 30 lbs.

(Continued in Next Column)

## JANETTE Rotary Converters

Transforms D.C. to A.C. Janette Rotary Converters are compact, dynamically balanced units which change direct current to 110 volt, 60 cycle, alternating current for the operation of A.C. radio sets on D.C. circuits.



Creates Big Market for A.C. Sets

The Janette Rotary Converter, and especially the new CA-20-F, opens up a fertile field for A.C. radio sales. Over 600,000 farmers own 32 or 110 volt D.C. lighting plants. Every one of them is a prospect for a double-profit sale consisting of an A.C. radio set and a Janette Rotary Converter. Alert radio dealers and jobbers everywhere are seizing this opportunity to build new volume.

And on top of it all there is the great market in the D.C. districts of large cities—plus the marine field.

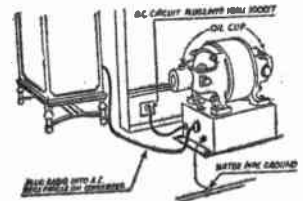
Perfect Radio Reception

Janette Rotary Converters are equipped with the Janette Filter which prevents converter interference from reaching the radio. Janette Converters are guaranteed not to interfere with radio reception.

Cat. No.	Frame	Out put	Input D.C. Volts	List Price	Our Price
282	CA-20-F	80	32	\$40.00	\$28.50
254	CA-20-F	110	32	49.50	35.00
255	CA-18-F	150	32	54.50	38.75
256	C-13-F	300	32	75.00	53.00
283	OA-20-F	80	115	40.00	28.50
257	CA-20-F	110	115	49.50	35.00
258	CA-18-F	150	115	54.50	38.75
259	C-13-F	300	115	75.00	53.00
260	CB-12-F	500	115	95.00	69.25

The following converters are shipped from Chicago, one week delivery:

261	CA-20-F	40	6	54.00	39.40
262	CA-18-F	60	6	59.00	45.35
263	CA-20-F	80	12	54.00	39.40
264	CA-18-F	120	12	59.00	45.35
265	C-13-F	160	12	81.00	60.75
284	CA-20-F	80	230	40.00	28.50
266	CA-20-F	110	230	51.50	37.30
267	CA-18-F	150	230	56.50	40.70



(Continued from Preceding Column)

## Data and Prices

Cat. No.	Code	Input Volt.	Output Volt.	Battery Drain* At 40M.A.
265	AUTEX	6	135	2.8
266	AUTOB	6	180	3.0
267	AUTAK	12	135	1.4
270	AUTIL	12	180	1.5

\*Codewords include units complete with voltage and 1 extra tap. If two extra taps are required, add following codeword: TAPPY.

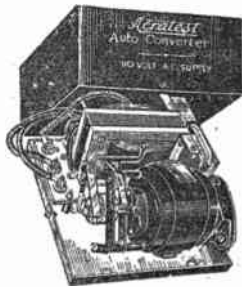
\*These current values are maximum. In most cases battery drain will be much less than those indicated in this table. List Price Complete with Voltage

Divider and Extra Taps.....\$32.00

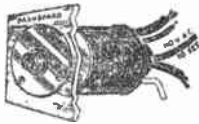
**Our Price \$18.82**

# The *Acratest* AUTO CONVERTER

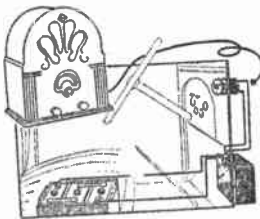
**Furnishes 110V. 60 Cycle  
A.C. Current From  
A Storage Battery  
NOT A "B" ELIMINATOR**



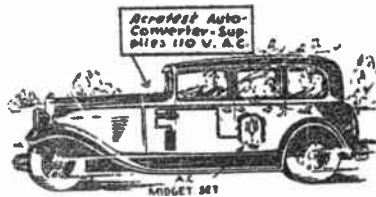
The unit is only 7¼x6½x4 inches high. Weighs 6 lbs.



This "on-off" switch and A.C. outlet clamps on dash. No drilling or cutting.



This diagram shows how converter is mounted onto cowl and connected to car battery.



This unit mounts onto the Cowl under the Hood of your Automobile, and the control and receptacle for plugging in your Radio set mounts on the Dash. The actual installation is so simple that anyone can do it without any trouble by merely following the very clear instructions furnished with each device. No drilling is necessary on the Cowl, as the control mounts by means of a Positive Set Screw. A pair of pliers and a screw driver are the only tools necessary.

Due to its multiplicity of uses, every Automobile and Boat Owner should have one of these units.

This converter will supply sufficient current to operate our push-pull 245 amplifier No. 107 described on page 50

Operates—

- A.C. Midget Sets
- A.C. Fans
- A.C. Amplifier and Turntable
- And any A.C. appliance consuming up to 65 watts

Cat. No. 271

**Our Price \$24.50**

Complete with Cable and Control Box

This device furnishes 110 Volt 60 Cycle Alternating Current from a Standard Six Volt Storage Battery.

With this device you can use your Standard 110 Volt Alternating Current Midget Home Radio Set in any Automobile, Boat or Aeroplane. Use your Radio in your automobile while traveling and then merely pull the plug and take your set into your Home, Cottage, Bungalow, or Hotel Room to use there.

This device also lends itself to small Public Address Systems, drawing from 40 to 65 Watts. Eliminates the necessity of gasoline or other expensive types of Generators. This enables you to use your Public Address on your Automobile for Advertising Purposes, Outdoor Meetings, Picnics, etc.

Small Electrical Appliances drawing from 40 to 65 Watts may also be used with this Converter. Such Appliances as Fans, Heating Pads, Baby Bottle Warmers, Curling Irons, Juice Extractors, Drink Mixers, Trouble Lamps and many others come in this classification.

The Battery Drain is very small. Due to the fact that the current is taken from the Battery intermittently, the Ammeter does not accurately record the Drain, but registers only the peak load. However, the actual Drain is about two-thirds of the ammeter reading. A 60 Watt Radio Set draws between six and seven Amperes by actual Battery Test.

## 1932 Edition Official Radio Service Manual

With **FREE** Supplements  
**Flexible, Loose-Leaf Leatherette Cover**

The OFFICIAL RADIO SERVICE MANUAL brings to the radio trade practically every radio diagram conceivable of which there is a record, including latest diagrams of testing equipment and mid-gut radios. Not a single diagram which appeared in Volume 1 has been reprinted.

There are blank pages included throughout the book so that notes and sketches can be made if desired. A coupon page entitles the owner to have his questions answered free by a staff of radio engineers.

The Manual contains over 1,000 pages, with six supplements of 64 pages or more, mailed free every 60 days to owners for one year.



Cat. No. 356  
**\$4.00**

## Victor 2-Stage 245 Amplifier

For Victor Receivers RE-75, 32, 42 and 45



Uses one 226, two 245's (push-pull) and one 280. Push-pull output transformer in amplifier matched for 15 ohm voice coil and 2,500 ohm field resistance. Supplies dynamic speaker field of 110-volt D.C. at 50 mls. Undistorted output at 4 watts. Fine for use with phonograph pick-up or radio set. Operates on 110-120 volts. 50-60 cycle A.C. current.

Cat. No. 62 **\$8.25**

## Victor 2-Stage Power Amplifier R. C. A. Model AP-736

(S. P. U. 24)



Uses one 226, one 250, and two 81's. Used with Victor Electric Orthophonic Phonograph No. 32-15 Electrola and the R. C. A. No. 105 Speaker

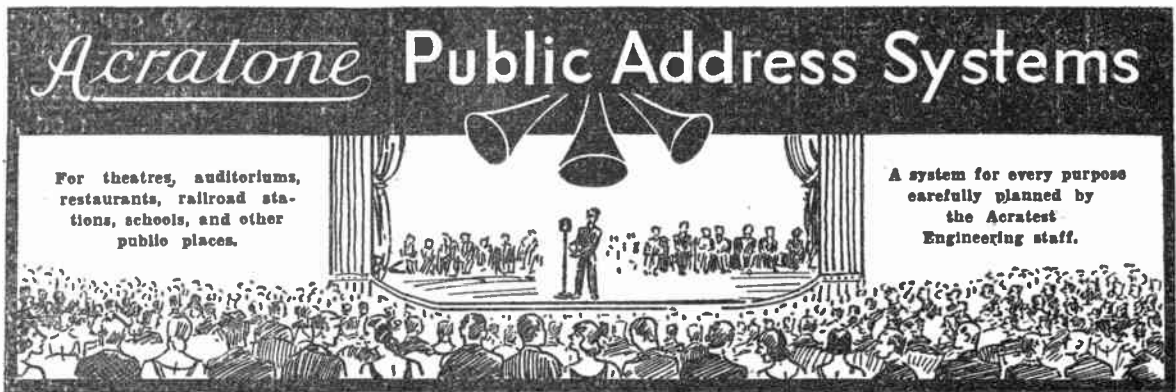
Output transformer in amplifier matched for 11 ohm voice coil impedance with 1,000 ohm field resistance. Supplies dynamic speaker field of 110-volt D.C. at 110 mls. Undistorted output at 5 watts which is enough to handle at least three dynamic speakers. Amplifier operates on 110-120 50-60 cycle A.C. current. Excellent power amplifier for use with phonograph pick-up or radio sets.

Cat. No. 81 **\$14.25**

## The Rotrola Electric Turntable and Pick-up

Rotrola Electric Portable Phonograph using the famous Webster Pickup with a built in volume control Genuine G. E. Synchronous motor with the turntable locked in so that it will not spill when being moved. Special container for records is another added feature of this unit. The hinge on this portable phonograph is of the piano type, stretching clear across the back. The case is constructed of the designed brown leatherette with a reinforced padded top to stand abuse. The handles and lock are of the heavy reinforced type. "On" and "off" switch also provided. For 110V. 60 Cycle A.C. current.

Cat. No. 124 **\$9.50**



# Acratone Public Address Systems

For theatres, auditoriums, restaurants, railroad stations, schools, and other public places.

A system for every purpose carefully planned by the Acratest Engineering staff.

## Popularly Priced!

The Federated Purchaser's engineers, in conjunction with the Acratest engineers, have cooperated in developing a complete line of inter-communicating and public address systems. The units incorporated in these systems are the highest quality and have been selected by Acratest Laboratories only after long tests under practical operating conditions. These systems are the result of careful planning and thorough testing; are carefully matched and so designed as to give the highest efficient operation,

## Carefully Planned!

having been sold to many large technical and sound laboratories, where they have met with the highest praise.

Acratest Laboratories does not claim straight line characteristics for its Amplifiers, as this is impossible if the auxiliary apparatus used is not of matched characteristics.

However, we do guarantee the best possible response characteristics for commercial units where input and output impedances are properly matched.

### Acraphone Intercommunicator System No. 1

This system is recommended for inter-communication in factories, large offices, etc., where there is a noise level greater than what the human voice can overcome. The volume of this outfit is about 50% greater than No. 1. The same specifications can be used here as for the No. 1. This unit can also be used for small public address systems, recording and broadcast work.

For each additional point of communication is necessary to add one No. 2-A unit, consisting of a two-button microphone and Dynamic Speaker on a single pole double throw switch. It is necessary to use a 2-A for every point to and from which it is desired to communicate.

Cat. No.	Description	List Price	Our Price
20	Loflin - White 245 Amplifier.....	\$35.00	\$13.95
166	Utah AO Dynamic Speaker .....	35.00	7.05
209	Universal "B" Microphone .....	35.00	14.70
6529	Acraphone Sr. Input Stage.....	15.00	5.50
248	Universal "E" Desk Mount .....	5.00	2.94
3622	Mike Extension Cord .....	.75	.55
Totals .....		\$105.75	\$45.59

**Our Price Complete \$43.00**

### Suggested Auxiliary Two Way Equipment for System No. 2

Universal Model "BB" Mike, No. 209	14.70
Single Pole Double Throw Knife Switch, No. 417.....	.10

### ACRAPHONE Giant Auditorium Speech Amplifying System No. 2

System No. 3 is ideal for operation at small dance halls, funeral parlors and portable public address work for installation on trucks. It will give about 7½ watts undistorted output and cover an average city block in length. It has sufficient power to operate two or three dynamic speakers with very slight output drop, approximately 5 per cent.

It can also be used for inter-communication purposes, but is easily too great in volume. It is ideal for phonograph reproduction and microphone work, and will easily cover rooms and auditoriums 100 ft. x 100 ft., or an auditorium seating 1,000 to 1,500 people.

Cat. No.	Description	List Price	Our Price
181	Acratone 3 Stage 250 Amplifier .....	\$75.00	\$24.50
209	Universal Model "BB" Microphone .....	25.00	14.70
6529	Acratest Sr. Output Stage.....	15.00	5.50
224	"Acratest Floor Stand.....	20.00	9.50
166	Utah Stadium AO Dynamic Speaker.....	30.00	7.95
	Celotex Baffleboard, 24x24 inches.....	4.00	1.50
3622	Mike extension cord .....	1.75	.75
Totals.....		\$170.75	\$60.20

**Our Price for the Complete Outfit \$60.00**

### Suggested Auxiliary Equipment for System No. 3

Utah A.C. Dynamic Speaker, No. 166.....	\$7.95
Universal Model "BB" Mike, No. 209 .....	14.70
Single Pole Double Throw Knife Switch.....	.10

### ACRAPHONE Auditorium, Theatre and Outdoor Model Sound System No. 3

The Acratone 3 Stage Push-Pull 250 Amplifier still is the most efficient and most economical Power Output system available on the present market. This amplifier far surpasses anything in its price field. It is capable of reproducing from below 30 cycles to above 8500. There is a proportionate drop above 8500 cycles.

Acratest engineers are confident that for audiences of 5000 people indoors or 3500 people outdoors a finer instrument cannot be obtained of any type. It is an all-around amplifier and will reproduce ideally phonograph, radio or microphone. It is capable of an undistorted output of 11.3 watts. It will supply up to six dynamic speakers or 25 magnetic speakers.

In using a single 127 for Microphone pre-amplification this amplifier is capable of putting out up to plus 35 D.B. with an absolute fidelity of tone, making it ideally suited for recording purposes, working into a 5000 ohm record cutting head. Can be used in conjunction with talky films in theatres seating 5,000 people or more.

Cat. No.	Description	List Price	Our Price
101	Acratone 3 stage 250 Amplifier .....	\$125.00	\$24.50
210	Universal Model "K" Microphone .....	50	24.50
6529	Acraphone Sr. Output Stage.....	15.00	5.50
110	3-R. C. A. Photophone A.C. Dynamic Speakers.....	50.00	25.00
	Adjustable Floor Stand.....	20.00	8.50
3622	Mike Extension Cord.....	1.75	.75
Total .....		\$261.75	\$93.65

**Our Price for the Complete Outfit \$90.00**

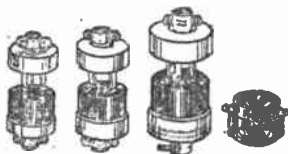
MAIL ORDERS TO See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C. or to our nearest branch

### Microphone and Public Address Connectors

Composition, steel covered cadmium plated. The adjustable clamp grips the cord tightly, thus relieving the strain from the binding posts, and also prevents the outer cover of cord from unraveling.



Cat. No.	Description	Our Price
6354-5	2-Wire Polarized Cap	.45
6355	2-Wire Connector	.70
6356	3-Wire Polarized Cap	.50
6357	3-Wire Connector	.75
6358	3-Wire Polarized Cap with "Twistlock"	.65
6359	3-Wire Polarized Body with "Twistlock"	1.00
6360	Flush Receptacle to fit above caps	.65

### Armoured Bakelite Cable Connectors

Three prong cable connectors insuring perfect contacts and 100% insulation. The steel armor protects the plug and extends over mating the cable clamp as shown. No better plug on the market for carbon microphones. The prong arrangement permits assembly in one position only. 1 1/2 inches in diameter.

Cat. No. 6326—Body  
Net Price 35c  
Cat. No. 4129—Plug  
Net Price 43c

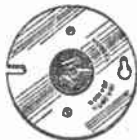


Cold Mold Composition Connector. same as above, but without armour.

Body—No. 7110—30c  
Cap—No. 7141—20c

### Base Receptacle and 4 in. Cover

Flush, with 4-in. Round Steel Box Covers Attached for Trucks, etc. Cadmium finish, outlet box covers are standard.

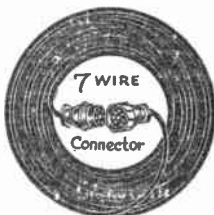


10 Amperes, 250 Volts  
15 Amperes, 125 Volts

Cat. No. 6361  
**Price 95c**

### 7 Wire Shielded Microphone Cable With Coupling Plugs

50 FEET LONG  
For condenser microphones connects battery supply and input to main amplifier.



Cat. No. 4477 **Net \$8.00**

### Three Wire 10 ft. Microphone Cable



For microphone coupling and other uses.

Cat. No. 3626

**Our Price 25c ea.**

### 3 Conductor Microphone Cable



A tough rubber jacketed yet extremely flexible cable which will stand all sorts of abuse without shorting. Water, oil and acid resisting. Each conductor rubber insulated and cotton braided. The ideal microphone cable.

Cat. No.	Length	Our Price
4425	12 ft.	\$0.60
4441	25 ft.	1.25
4442	50 ft.	2.25
4443	100 ft.	3.75

### Armored 3 Conductor Microphone Cable



A conductor heavily insulated cable encased in a steel flexible armor which acts as a shield (when grounded). Will resist all weather and the hardest wear. You can run a 10-ton truck over it without injuring it. Ideal for all outdoor public address work.

Cat. No. 4446

**4c per ft., \$3 per C.**

### Universal Microphone Cords Made Up Cables With Armoured Connectors



Cat. No.	Length	List	Net
4435	6 ft.	\$2.75	\$1.65
4487	12 ft.	\$4.50	\$2.70
4438	25 ft.	\$7.50	\$4.50
4439	50 ft.	\$12.00	\$7.20
4440	100 ft.	\$19.00	\$11.40

For outdoor use, over gravel, pavement, platforms, in water, or where crowds are walking, a rubber covered, shielded cable is an absolute necessity. Fitted with genuine G. E. Bakelite connections. Supplied in 3-conductor shielded only, the shield being soldered to the center conductor of the plug and socket. These assemblies made up complete as shown cannot be duplicated anywhere for the price.

### Microphone Suspension Springs



For suspension of microphones in rings, desk mounts, floor stands, etc. A much needed small part handy to have and sometimes hard to obtain. Special heads with one long loop, beautifully finished of highest grade spring steel allowing maximum flexibility without stretch. Eight are generally used per set.

Cat. No. 3631 **8 for 35c**

### CARBON GRANULES For Microphones

Care must be exercised in handling granules, and careful measurement must be made in refilling old buttons. They must be kept sealed before use and must not be handled by fingers.

The very best grade of transmitter carbon granules, each vial contains sufficient to re-carbon one ordinary two-button microphone. No. 100 size.



Cat. No. 6974

List, per Vial . . . . \$1.00

**Our Price 59c**

### Shielded Microphone Cable



Cat. No.	Wires	Price Per Ft.	100 Ft.
4490	3	6c	\$5.50
4480	5	10c	9.00

The shielding is fully insulated and may be used as an additional conductor.

This multiple conductor has a tinned copper shield beneath its extra thick rubber insulation and may also be used as an additional conductor. Each conductor is insulated and braided. Will stand plenty of abuse. For all public address work, indoors or outdoors. Acid resisting.

### A Gain Control Plate



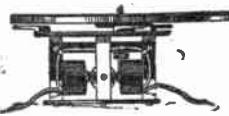
Cat. No. 6940

Diameter 1 1/2"  
Hole 3/8"  
**10c ea.**

This plate will be found excellent for public address amplifiers, faders, phonograph pick-ups, etc. It is graduated in 20 equal divisions and 10 numbered places. Etched aluminum with silver numerals.

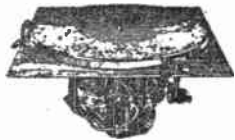
## GENERAL ELECTRIC Synchronous Motor With 10-inch Turntable

Aluminum frame—advanced design. Silent operation. Only 4 in. deep.



Cat. No. 215 **\$3.95**

## G. E. PHONOGRAPH Induction Motor With 12-inch Turntable



A compact, powerful, heavy duty induction type phonograph motor. Being free of commutators, brushes or cutout switches, it cannot set up

any disturbances. Large bearing surfaces provide adequate support and insure long life.

### Quick Starting Torque

Exceptionally quick starting torque. Full speed is attained instantly without manual assistance. Equipped with 12-inch turntable, cord and 2-piece plug.

Cat. No. 135 **\$7.95**

## Special Acratone Carbon Steel Recording Needles

This needle has been developed especially for recording. It may be used on either pre-grooved or blank discs of either aluminum or composition.

This recording needle is made of extremely hard carbon steel which is nickel plated and highly polished. Background noise is reduced 50% with this new type of needle. The tip of this needle is blunt and tapers acutely to a point. This cuts a U shaped groove which is more satisfactory than the V shaped groove of ordinary cutting needles.

Cat. No. 6975

## 15 Needles for 25c



## Fibre Playback Needles for Aluminum Records

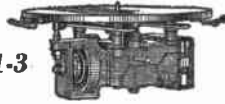
Cat. No. 6929 **25c pkg.**  
of 50 Needles

First—Perfect Reproduction.  
Second—Plays many records without repointing.

Third—Plays all makes of Disc Records.  
Fourth—No Surface Noise.  
Fifth—No Injury to Records.  
Sixth—Improves Tone Quality.

## The New Two-Speed Green Flyer

Model D  
Motor,  
78 & 33 1/3  
R.P.M.



One demonstration and they want it. Put on a new Long Playing Phonograph Record. Explain its merits. Show the slow 33 1/3 r.p.m. turntable speed. Then change to a Regular Phonograph Record, with turntable speed shifted easily to 78 r.p.m. by pushing the speed-change lever.

They want the Two-Speed Green Flyer Motor. They want new Long Playing Records. You're making a \$15 to \$20 or \$25 sale, that will bring the same customer back for more records. That will bring you other customers for motors and records.

Backed by over 15 years of Flyer Phonograph Motor and electrical manufacturing success. Responsibly guaranteed. Order a sample TODAY.

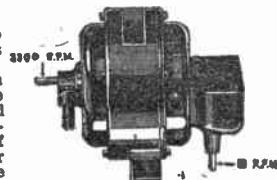
New Green Flyer Two-Speed Governor Controlled Electrical Motor—33 1/3 and 78 R.P.M., complete with 10" turntable, speed indicator dial, speed indicator pointer, speed change escutcheon plate, speed change pointer, mounting screws and washers.

Model "D"	110 Volts A.C., 60 Cycles	
Cat. No.	Turntable	Price
253	10"	\$ 9.75
275	12"	10.75

## Robbins & Myers 21 V. A.C. Motor

3300RPM  
is a red  
down to  
sets. This  
18 RPM.

Used on remote control mechanism of Kolster very fine rugged motor has many uses, such as toys, fans, etc. Can be mounted in a box with a turn-table and makes an excellent window display on account of its slow revolution.



Cat. No. 5539

6 in long, diameter 4 in.  
Weight 5 lbs.

**\$3.95 ea.**

## Wall-Kane 10 Record Needles

The original famous Wall-Kane 10-Record Needle. No better needle made. 50 to a box, 60 boxes, assorted loud, medium and soft, in a 3-color metal display stand.



Cat. No. 4371 **6c pkg.**  
**\$3.70 Display Stand**

## "Echo" Pregrooved Aluminum Record Blank

Can be used on any phonograph or electric turntable. Just sing or talk into horn or mike.

Cat. No. 5363—Diameter 6 in.

**\$1.80 dozen**

Including 2 Recording Needles

## Genuine Sapphire Reproducing and Cutting Needles



GENUINE  
SAPPHIRE

GENUINE WHITE ORIENTAL SAPPHIRE USED EXCLUSIVELY. This sapphire is rated, according to scientists' tables, hardness of which is 90% as that of the diamond. Consequently, it is very durable. To insure its long life, care must be taken that it is not dropped on a hard surface or used on rough surfaces.

Type AW, for cutting (grooving) and recording on ALUMINUM. It will work on practically all commercial and home made recorders. Its radius and angle is specially made to cut a fine groove. Same needle when used with a powerful motor, will also cut on ERAYDO.

Cat. No. 250 **\$2.50**

Type BW, for recording and playback on Victor type black composition pre-grooved home recording blanks, also pre-grooved aluminum or celluloid with a minimum of surface scratch.

Cat. No. 249 **\$2.50**

Type OW, for playback on regular commercial records such as Victor, Columbia, Brunswick, etc., also electrical transcriptions when all above are made to play at the rate of 78 revolutions per minute.

Cat. No. 289 **\$2.00**

Type DW, for cutting (grooving and recording on CELLULOID. This needle does not push away the material but cuts out a fine thread of celluloid while recording.

Cat. No. 290 **\$4.00**

Special DIAMOND NEEDLE for CELLULOID, used for professional recording.

Cat. No. 291 **\$16.50 ea.**

All above needles are tested and inspected before shipment and are guaranteed against defective materials and workmanship. They are used extensively by recording studios, laboratories, universities, language schools, etc.

## Remsen Aluminum Record for Home Recording

Cat. No.	Dia.	Price
5070	6 in.	13c
5071	7 1/2 in.	20c
5073	10 in.	33c
5072	12 in.	50c

Specially designed for recording devices utilizing blank records, like the Presto Home Recorder. Can be used on both sides.



## Universal Pregrooved Records

Cat. No.	Size	Price Ea.
7176	6 in	18c
7177	8 in.	29c
7178	10 in.	44c
7179	12 in.	59c

# SIGNAL

## Wireless Practice Set

Just the instrument for those who want to learn the code. The code is printed on a little brass plate fastened to base. Equipped with Type R-60 High Frequency Buzzer.



R-58 "Signal" Wireless Practice Set

Cat. No. 3554  
List Price, \$3.40

**Our Price \$1.98**

## I. C. A. 50 Watt Transmitting Socket with Isolantite Base



Cat. No. 3653

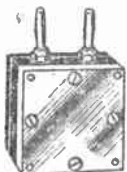
**\$1.50**

An excellent power tube socket. Fits all standard 50 watt tube bases. Maximum insulation is obtained by the use of heavy glazed isolantite base. All metal parts are nickel plated and the contacts are so arranged that connections are made either to the terminal screws or can be soldered on to the extended portion of the contact springs. All connections are plainly marked.

Diameter of socket 3 3/4. Two mounting holes.

## Quartz Crystal Holder

This plug-in dust proof quartz crystal holder is ideally suited for the amateur and broadcast transmitters.



It will accommodate the average one inch crystal. Contact with the crystal is made through brass plates ground perfectly flat. The bottom brass plate is nickel plated on its outer side and the top bakelite cover is held in place by four screws. Perfect electrical contact is maintained by means of a pigtail which rests lightly on the crystal, allowing it to oscillate freely. The inner dimension is 1-1/2" square.

Cat. No. 6627

**\$2.25**

## I.C.A. 250 Watt Tube Socket



Cat. No. 6951

**\$2.85**

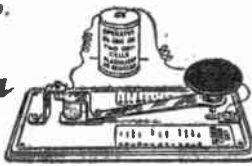
This socket will fit all double ended tubes such as types 64A, 49, 51, 61, 69, etc. Heavy glazed isolantite material is used for the mounting of the contacts and provides perfect insulation for high frequency work. All metal parts nickel plated.

## Na-Ald Code Practice Set

Cat. No. 6986

**45c ea**

Less Battery



Finely molded base. Nickel plated hardware. High pitched buzzer. Works on a single flashlight cell. Telegraph code etched on base. A wonderful 98c seller.

## ACRAPHONE, JR. Wireless Key



5 1/4" in. long, 2 3/4" in. wide. Weight 8 oz.

Cat. No. 6819

**Our Price \$1.10 ea.**

This is a really fine little instrument for the amateur, ham or for practicing. Steel lever arm and brass fittings. German silver contacts. Phosphor bronze tension spring. 4 adjustments. Composition finger rest. Mahogany finished wood base with rubber feet.

## High Frequency Buzzer

Is adjustable. Can be adjusted to standard frequency of 1000 cycles. Can be used in modulated audio oscillators as a standard frequency control. Has standard resistance of 2 ohms. Can be operated on a 6V. circuit. Can be furnished in special resistances on quantity orders. Black crystallized lacquer finish.



Type R-60

Cat. No. 3559  
**75c**



## Signal Wireless Key

A long time favorite with all amateurs. Universally used by most operators. Sturdily made. Coin silver contacts. All parts brass. Beautifully polished and lacquered. Brass base. Bakelite finger rests.

Cat. No.	Contacts	List Price	Our Price
3556	R-62 3/16 in.	\$3.50	\$1.98
3557	R-63 1/4 in.	3.70	2.21
3558	R-64 5/8 in.	3.90	2.30

## Headband for Earphones Indispensable to Short-Wave Fans and "Hams"

Cat. No. 3623

**15c each**



## The New Connecticut Duplex Telephone Set



Will Operate Efficiently Up to 1,000 Feet

Cat. No. 6555

**Price \$5.63 per set**

Connecticut Duplex Telephones are the result of 27 years experience in telephone manufacturing and are fully guaranteed for one year. Affords the easiest, simplest and least expensive means of communication between two neighboring points. Simple to install. Requires 2 ordinary dry cells at each end. Cases are of heavy gauge steel, finished light green. Packed in attractive display carton with 1000 ft. of wire, staples and instruction book.

Uses for the Connecticut DUPLEX Convenience Telephone

### IN THE HOME

Bedroom to kitchen—Bedroom to maid's quarters—Upstairs and downstairs—House to garage—House to workshop—Neighbor to neighbor.

### ON THE FARM

One farmhouse to another—House to barn—House to dairy—Home of one radio fan to that of another.

### IN FACTORIES

Manager's office to factory—One factory department to another.

## The Connecticut Duplex Telegraph Set

Every boy will want this real telegraph set to practice on and learn the code. Continental code on etched plate in large, easily read figures mounted beside key. Instruments may be used separately for practice. Just the set for Boy Scouts—can be carried on hikes and set up in camp in a few minutes. Manufactured and designed by engineers who have been building telegraph instruments for 27 years. Each instrument has its own buzzer. Will operate efficiently up to 1000 feet. Mahogany finish with black enamel parts and gold trim. Packed in attractive display box with 50 feet of wire and complete instruction booklet.



Weight complete, 4 lbs.

Cat. No. 6579 **\$3.75** complete

## Signal Junior Key



112-K Key

Black enamel key base. Mahogany finish base. Nickel plated lever. Coin silver contacts.

Cat. No. 3555

List Price. \$2.25

**Our Price \$1.35**

# You need Adapters for your Lab.

## Acratest

### Speaker and Headset Adapters



These adapters are of the same appearance as a tube above and are used to connect one or more additional magnetic or dynamic or recording pickup up to any set using a single or push-pull pentode output or '45 output. Simply remove the power tube from the socket, insert the adapter and replace the power tube or tubes. Can be used in the ACRA-TONE and other midget sets.

Cat. No.	Set Output	Our Price
6524	Single '45	\$.75
6525	Single '47	.75
6526	Push-pull '45	1.25
6527	Push-pull '47	1.25
6987	Single 6 prong	.75
6988	Push-pull 6 prong	1.25

### I. C. A. Phono or Microphone Adapter

Enables the use of a phono pick-up or microphone with any receiver not equipped with phono jacks. 1 prong.



Cat. No. 512?

**Our Net Price 60c**

### Multiple Speaker Extension Cord or Speaker Output Adapter

For sets using push-pull audio. Connects to filament and grid of UX tubes or grid and cathode of UY tubes.

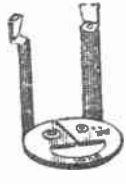


Cat. No. 4205

**75c per pair**

This device enables one to connect additional speakers to any radio set, without rewiring or soldered connections. Simply place the adapter under the power tube or tubes and connect the additional speakers with the connector furnished.

### Naald Pick-Up and Microphone Adapter



For UX or UY Sockets. Connects to filament and grid for UX tubes or grid and cathode of UY tubes.

Cat. No. 4111

**18c ea.**

### ACRATEST Pentode Adapter



Allows the Use of the Pentode Tube in 245 Sockets. Simply remove the 245 tube, insert the Acratest Pentode Adapter into the top of the adapter. Insert new tube.

Cat. No. 5200

**39c ea.**

### Analyzer Plug

This plug has a 5 prong UY base and the handle has a screen grid cap. The latch is not alive and the center post in the adapter No. 5886 is simply a locking stud over which the latch slips, engaging a ring in the stud. Thus the adapter will not come off unless the latch is pressed. Used in the latest Jewell No. 444 Analyzer. Can be used to adapt any analyzer for pentode and screen grid.



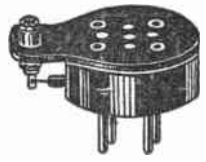
Cat. No. 5887—Analyzer Plug

**Our Price \$1.80 ea.**

Cat. No. 5888—4 to 5 Adapter  
Cat. No. 7146—5 to 6 Adapter

**Our Price 72c ea.**

### Earphone, Speaker and Testing Adapter (4 Prong)



Cat. No. 5250

**29c**

Has many uses, such as allowing the use of headphones on any set, connecting an extra speaker up. Simply remove power tube, insert phone tips of extra appliance into convenient jacks on the adapter. A connector with phone tips on each end is furnished with each adapter so that the adapter can be shorted out when not in use instead of having to remove it from the socket.

### PLUG IN ADAPTER For Test Kits and Short Wave Sets

Also used to connect dynamic speaker to chassis. A very handy accessory in the shop.



Cat. No. 3526 5-Prong  
Cat. No. 6990 6-Prong

**Our Price 29c ea.**

### NAALD ADAPTERS

Makes detector of any stage UV tube, breaking grid circuit for grid leak and condensers. Also breaks plate with phone tip terminals for headphones.



Cat. No. 5885 4 Prong  
Cat. No. 5886 5 Prong  
Cat. No. 6994 6 Prong

**72c ea.**

### I. C. A. PENTODE Speaker Adapter



This adapter is for connecting additional speakers to radio sets using one or more Pentode tubes in the output. Individually boxed.

Cat. No. 6456

**Our Price 60c pr.**

### Adapter and Trouble Finder for Servicemen

Especially adapted to trouble finding and making all circuit connections to a 5 prong tube base where no wires are exposed. Plate, grid, cathode, or heater circuits can be opened readily for connection of meters or test equipment. May be used for connecting phonograph pickups or meters to radio sets or amplifiers.



Cat. No.	Net
4257 Universal 5 Prong Socket	Adapted .....95c
4258 Universal 4 Prong Socket	Adapted .....95c
6993 Universal 6 Prong Adapter	95c

### Speaker and Analyzer Plugs



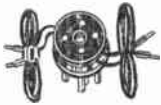
These handy plugs are extremely useful around any service shop. Easily attached to any four or five wire cable. Made of genuine bakelite.



Cat. No.	Our Price
5868 4-prong short cap	.....20c
5869 5-prong short cap	.....20c
5870 4-prong long analyzer plug	.....25c
5871 5-prong long analyzer cap	.....25c
6991—6-prong shot cap	.....25c
6992 6-prong long analyzer cap	.....25c



### I. C. A. Test Adapter for 280 Tube



Cat. No. 6963

**Our Price 90c**

With this adapter one may make all desirable tests on a 280 rectifier, including plate current, d.c. output voltage filament, a.c. filament voltage across filaments. Leads are attached to all prongs for above tests.

### I. C. A. Neutralizing Adapter

For use in balancing neutralizing condensers in superheterodyne or neutrodyne sets. One filament is dead, enabling the use of an ordinary tube for balancing. Supplied for 4- or 5-prong sockets.

Cat. No. 6964—4-prong  
Cat. No. 6965—5-prong

**Our Price 60c ea.**

No. 6965 Adapter is the same as No. 6964 but for a 5-prong socket. Cathode prong is dead and lug is brought out from cathode hole for external connection to current supply.

### I. C. A. Oscillation Control Adapters

These adapters break grid connection with tip jacks. They may be used for controlling oscillation by attaching resistors in series with grid circuit, and can also be used for general testing of grid circuits.



Cat. No. 6949—4-prong  
Cat. No. 6966—5-prong

**Our Price 75c ea.**

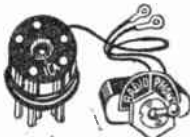
### I. C. A. Phono-Radio Switch and Adapter

For A.C. (5 prong)

Cat. No. 6953

List Price \$2.75

For D.C. (4 prong)



**Cat. No. 6954 \$1.65 ea.**

The simplest method of connecting a phonograph pick-up to the audio system of the radio. Adapter plugs into the detector socket, tube plugs into the adapter and the switch, which may be mounted on radio panel, changes from radio to phonograph instantly. Supplied for A.C. or D.C. sets.

### B.M.S. Fixed Detector

B.M.S. Fixed Detector will give renewed action to reflex or crystal sets. The sensitivity of the mineral is determined by laboratory methods and fixed permanently. Made to withstand high voltage.

Small and enclosed in Bakelite, it has proven to be an engineering achievement.



Cat. No. 7124 **60c**

### Naald Socket Saving Adapters



Save wear and tear on set analyzer sockets by inserting these adapters. Connections are straight through. When



tube connections wear out it is unnecessary to tear your analyzer apart to replace the socket; simply remove the Adapter and replace it with another one. Very useful when many tubes are to be tested and sockets would ordinarily wear out in short time. Can also be used to add additional height on the tube. Supplied in 4-, 5- and 6-prongs.

Cat. No.	Description
5883	To insert a 4-prong tube into a 5-prong socket.
5884	To insert a 5-prong tube into a 4-prong socket.
6962	To insert a 6-prong tube into a 5-prong socket.

**Our Price 60c ea.**

### The Famous M16 Elkon Replacement Rectifier NEW TYPE "XB16"

May be used on the following "A" eliminators: Majestic, Mayolian, Elkon, Philco, Webster, Knapp, Gen. Inst., Metro, Fada, Bernard, Sentinel, Elkon, and Briggs and Stratton. Also specially adapted for use with many standard dynamic speakers.



Cat. No. 4152  
List Price \$7.00

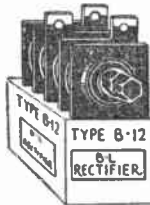
**Our Price \$3.75**

### BENWOOD-LENZ B12 Rectifier

For New Tube, Muter and other A eliminators, Sterling dynamic speakers, etc.

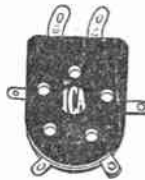
Cat. No. 4155

**Our Price \$2.50**



### I. C. A. Loud Speaker Adapters

For connecting additional speakers to sets using simple or push-pull 112A, 171A, 245, 247, 256, etc., power tubes. For single power tube order 1; for push-pull order 2 adapters.



Cat. No.	Type
6942	4-prong
6943	5-prong
6944	6-prong

**Our Price 20c ea.**  
4451-4255 20 Ft. Speaker Cord With Connector 23c

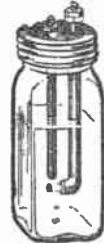
### Replacement Jars For Philco, Willard and Exide "A" and "B" Eliminators



Cat. No. 3663

**TYPE "A"**  
Small round for 4 volt "A" eliminators

**\$1.39 Each**



Cat. No. 3664

**TYPE "B"**  
for B eliminators

**\$1.79 Set of 4**



Cat. No. 3668

**TYPE "AA"**  
Large square for 6 Volt "A" eliminators

**\$1.79 Each**

REPLENO Rectifier cells are guaranteed to give satisfactory service and full charging rates in Power Units properly designed for their use.

### KUPROX RECTIFIER Replacement Unit

Type A-110.

For use on the following popular trickle chargers: Bakelite Type 'K' (.4-.5 Amp.); Silite (6 Amp.); Vesta (.5 Amp.).

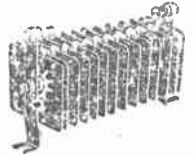


List Price \$5.00  
Cat. No. 5852

**Our Price 85c ea.**

### KODEL DRY DISC Rectifier With Brackets

For replacement in Kodel Kuprox power units and Dynamic speakers, etc.  
Single Unit.  
Cat. No. 4153

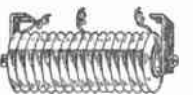


**Our Price \$1.10**

### RCA No. 106 Dynamic Speaker Rectifier Stacks

Also Used on Radiola G2 Speaker Delivers 100 Volts 100 Mils D. C. with Load

Will supply sufficient B voltage on a ny Dynamic Speaker having 600 ohm field.



RCA Part No. 6898 Cat. No. 5734

**Our Price \$2.50 ea.**  
\$4.50 per Pair

### I.C.A. Exploring Coil

Cat. No. 6945  
**\$2.10**

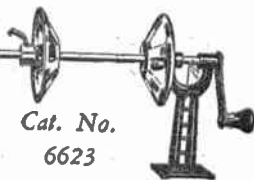


### Handy Service Tool

Designed for the serviceman to use in locating R.F. trouble. Can be used in conjunction with a signal supplied by an oscillator which is induced into the grid of the tube when the exploring coil is placed around the tube. A big time saver. Excellent for superheterodyne circuits for peaking the intermediates. When used in conjunction with an output meter, the amount of gain may be determined by bringing into resonance the parts of R.F. circuits.

### GOODELL-PRATT Coil Winders

An inexpensive machine that will be found ideal for winding induction and transformer coils for use in T.R.F. and Superheterodyne circuits on cylinders of bakelite, fibre, etc., up to 4 3/4 in. in diameter and 7 in. long. The base is substantial and finished in black enamel, and can be fastened to any table or bench. The discs are finished in red enamel and natural aluminum. All exposed steel parts nicely polished.



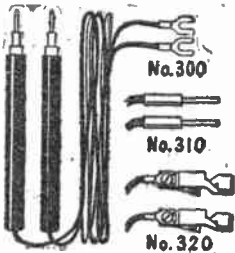
Cat. No. 6623

**Our Price \$3.50**

### Heavy Duty Laboratory Type Test Prods With Needle Point Tips

Tips Can Also Be Inserted Into Phone Jacks

The body of the needle tips act as phone tips when inserted into standard phone tip jacks. Equipped with 5 ft. heavy flexible wire with black and red fibre handles 5 in. long and 1/2 in. dia. The needle point phone tip is made of the highest grade hard bronze.



Cat. No. 6913 with Test Clips

**60c per pair**

Cat. No. 6914—With Spade Terminals  
**50c per pair**

### 16 Wire, 50 Foot Cable For Remote Control and Public Address Work

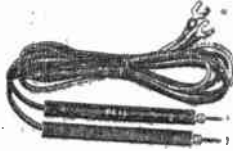


Also suitable for annunciator systems.

Cat. No. 5537.

**\$2.00**

### Test Leads With Chuck for Phonograph Needle Tips



These test prods are a great improvement over the ordinary prods, being equipped with two chucks in which are inserted any standard phonograph needles for tips. The needle will make contact through insulation and pitch, and get into tight places which cannot be reached with the ordinary test tips. Made with best grade fibre unbreakable prods and lacquered wire. Equipped with phone tips or spade tips.

Cat. No. 6532—With Phone Tips  
Cat. No. 6533—With Spade Tips

**49c per pair**

### Servicemen's Test Leads



Cat. No. 4331—  
With Spade Tips  
Cat. No. 6676—  
With Phone Tips

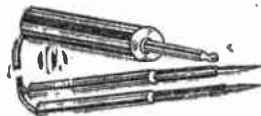
**23c  
pair**

The Test Leads are a convenience to the set owner and a necessity for the Radio Service Man and Radio Dealer. They are unsurpassed for testing sets and tracing trouble in sets where shorts, open and other defects common to radio sets are encountered.

They can quickly be attached to any meter for testing batteries or any electrical apparatus.

They are supplied with red and black wire for positive and negative identifications.

### I. C. A. Test Leads with Phone Plug



Cat. No. 6958

List  
**\$1.50**

**Our Price 90c**

The test leads have phonograph needle prods and the ends are attached to a double phone plug which makes it handy for testing in the laboratory and shop.

### Utility Test Leads



Consists of one No. 6020 test prod, 24 inches of finest grade lacquered wire and a No. 6019 crocodile clip. A very handy accessory for the service man.

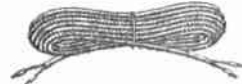
Cat. No. 6985 **30c ea.**

### Multiple Conductor Cables



Cat. No.	Make	Wires	Length	Our Price
7184		4	2 ft.	\$0.15
6763	General Electric	6	6 ft.	.20
6587	General Electric	8	6 ft.	.25
4474	Belden	10	8 ft.	.30
6784	General Electric	10	6 ft.	.30
6765	General Electric	12	8 ft.	.35

### EXTENSION Speaker Cords



Cat. No.	Length	Each
4451	20 ft.	\$0.18
4452	30 ft.	.24
4453	50 ft.	.35

### Headphone Cords (Double)

6 ft. long, with loop eyes on one end and pin tips on other.

Cat. No. 4454 **10c ea.**  
**\$1.00 dozen**

### SPECIAL SPEAKER CORD 8 FT. LONG WITH LUGS ON ONE END AND PINS ON OTHER

Cat. No. 4455 **10c ea.**  
**\$1.00 dozen**

### 5 FT. SPEAKER CORD WITH LUGS AND TIPS

Cat. No. 4456 **10c ea.**  
**\$1.00 dozen**



### 10 Conductor—5 Feet Long

Complete with female receptacle for wall plate.

List Price  
**\$5.75**



Cat. No. 4236 **45c ea.**

Every Acratest Power Transformer is brand new and packed in factory sealed boxes

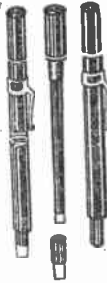
MAIL ORDERS TO See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C.  
or to our nearest branch

## I.C.A. 5 in 1 Neutralizing Compensating Tools

This tool set is a combination of a 1/4" nut wrench, a 5/16" nut wrench, a neutralizing screw driver with 1/4" blade and a full size screw driver. So constructed that all the parts telescope so that the entire outfit when closed is no larger than a fountain pen. Pocket clip attached.



Cat. No. 6946

**Our Price 90c Set**

Extra Neutralizing Attachments for above Set

For Majestic Sets—  
Cat. No. 6947 15c ea.

For Crosley Sets—  
Cat. No. 6948 15c ea.

## I. C. A. Neutralizing Tools With Metal Nibs



The I.C.A. Neutralizing Tools make it easier, quicker and more accurate to work with, are constructed of the finest quality insulating materials and are finished with highly nickel plated brass nibs. Compactly constructed, the screw driver fits into the duplex wrench making it a four-in-one set. The other end of the screw driver is a special magnetic steel for picking up and placing of screws, bolts, nuts, washers, etc. The I.C.A. Neutralizing Tools work on all standard make radio receivers.

Cat. No. 6457

**Our Price 88c**

## Neutralizing Wrench and Screw Driver



A Very Handy Tool for the Service Man

The wrench and screwdriver is made of case hardened steel. The handle is made of bakelite—prevents body capacity. Especially suited for Radiola sets.

Cat. No. 4207

**Our Price 45c ea.**

## Utilco Tool Chests

411 Utility Chest with Loose Tray

Size 14x6 1/2 x 6 in.

Tray has disappearing handle and movable partitions. Matched hardware. Permanent embossed rule on cover.



Cat. No. 411

**Our Price 85c ea.  
\$9.60 dozen**

## The 414 Utility Chest With Automatic Cantilever Tray

Size 14x6 1/2 x 6 in.

Movable tray partitions. Matched hardware. Permanent embossed rule on cover.



Cat. No. 414

**Our Price \$1.00 ea.  
\$11.50 dozen**

The 411 Utility Chest, truly the chest of a thousand uses, originally developed by UNION, refined and further improved with automatic tray as shown in the 414, has proved a merchandising sensation.

Usable as a mechanic's tool chest, fishing tackle box, for household tools, bathing suits, lunch and outing box, valuable papers and other uses too numerous to mention, hundreds of thousands of these boxes have been sold, until there are now more than a million in use.

## ELECTRICIANS' SCREWDRIVER



Cat. No. 5566

**98c**

A new slim-bladed ratchet screw-driver with knurled socket which can be rapidly rotated between the thumb and forefinger and is a great convenience for running small screws in and out. It is particularly useful for work on electrical and other apparatus where small machine screws are used.

The same dependable ratchet mechanism is used as in our 5078, which has proved its dependability over a great many years. Right or left ratchet or rigid action is controlled by turning the knurled sleeve.

The blades are made of tool steel, hammer forged and carefully hardened and tempered. All exposed metal parts are nicely polished or nickel-plated. Mahogany finished handle.

## INSULATED HANDLE Pocket Screw Drivers



A very handy and useful little tool for everybody. Put a display card of 12 on your counter and watch them sell. Three sizes.

Cat. No. 3263

**Our Price 75c per card of 12**

## DETECTO-LITE Tells All at a Glance!



Indispensable to Any Service Man

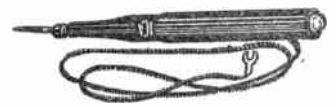
1. Will test any current from 110 volts to 550 volts and will indicate voltage.
2. Will tell instantly whether A.C. or D.C. current.
3. Will show how many cycles.
4. Will detect the live and ground wires.
5. Will act as pilot on any electrical apparatus.

Cat. No. 3255

**Our Price 88c**

## I.C.A. "Short-O-Tester"

Every Serviceman Should have one



With 2 1/2 V. Lamp

Cat. No. 6956

**\$1.50**

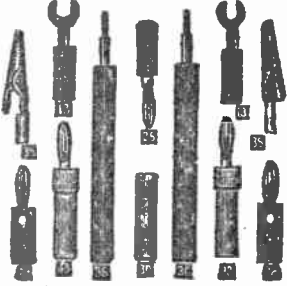
The I. C. A. "Short-O-Tester" is an ingenious new circuit tester containing a 2 1/2 volt lamp and a small tubular flashlight battery so connected that when the flexible wire lead with its spade tip is attached to one turn of the electrical circuit tested and contact made through the pin terminal on one end of the tester, it will indicate whether said circuit is open or closed. It is an excellent continuity tester for radio and electrical work and should prove a very useful tool to the serviceman. It can also be used as a flashlight in an emergency by touching the spade tip to the metal test prod, thus shorting the circuit. It is also furnished with a neon lamp so that circuits having any voltage or frequency may be tested for continuity and approximate indication of the relative strength of same, and whether it is A.C. or D.C.

MAIL ORDERS TO   
See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C.  
or to our nearest branch

## SERVICEMAN'S Test Terminal Kit A Fitting for Every Conceivable Connection



Cat. No. 5413

**Our Price \$1.50**

Contains fourteen (14) pieces: One (1) each Nos. 25 and 30; two (2) each Nos. 13, 28, 35, 36 and 42. Two No. 38.

RED and BLACK for POSITIVE and NEGATIVE respectively; except No. 35, which is high nickel polished. Colored parts have highest insulation quality, equal to Bakelite. WILL NOT FADE, and are made of fine material that will not break easily as in the case of hard rubber or similar materials.

### DESCRIPTION OF PARTS

Sold Separately

	Price	Cat. No.	per Doz.
No. 13—A Spade terminal that fits plugs Nos. 28 and 42	6408		\$1.25
No. 25—A plug that has a chuck that will hold a phonograph needle. Fits into No. 30 to use with the Kit to prod insulation on wires....	6016		1.25
No. 28—A plug that has a hole thru it to insert another plug to tap off a branch connection. Fits Nos. 13, 35, and 36....	6017		1.25
No. 30—A coupling to couple No. 25 to No. 42 and No. 46	6418		1.25
No. 35—A strong "Crocodile" jawed clip with fine teeth that will fit plugs Nos. 25, 28 and 42. No soldering or screws necessary	6019		.80
No. 38—A universal test prod which is very strongly built and will not fade from perspiration of the hand or warp with use. Plugs Nos. 28 and 42 will fit it at one end and the other will fit our standard tip jack.	6020		1.80
No. 42—A plug that is sturdy. The set screw for the wire is under a cap avoiding the possibility of getting a shock. Fits Nos. 30, 35, 36 and 13. Can be used as a small prod	6021		1.50
No. 39—Tip jack coupler will fit all tip jacks now on the market used on analyzers, meters, etc. Size 1 3/4 in. long by 11/16 o.d.	6419		1.75

### USE OF SET

Place a No. 28 and a No. 42 plug at each end of a wire; then plug either a No. 30, 35 or 36 onto these, as the individual test needs. It is recommended that the No. 42 plug be used at the No. 38 (test prod) end.

## Special Screw and Nut Assortment

Contains a generous supply of screws, nuts, washers, lugs, etc., which are indispensable to the service man. Should be in every repair man's kit. Can also be sold across the counter to set builders.



Cat. No. 3662 **19c ea.**

## Professional Hardware Assortment, 5 Pounds

For the dealer's and servicemen's shop. Contains an extra large assortment of every size of screws, nuts, washers and lugs for every radio purpose. This assortment is indispensable to the man who does repairing and building and will pay for itself over and over.



Cat. No. 3816 **75c**

## The Handy Scratch Remover

Mars and Scratches Vanish Instantly

Cat. No. 3379

**\$3.60**

**per doz**

(Sold one dozen to carton with counter display)  
SAMPLE 85c



## Rubber Howl Arrester

Fits over the tube and prevents oscillation and microphonic noises.

Cat. No. 6669

**10c ea.**

**\$1.00 dozen**



## Melomite Cat-Whiskers For Crystal Sets



Three in a cellophane envelope, mounted on attractive display card. Retail at 25c per card.

Cat. No. 4067

Retail at 25c per card

**\$1.00**

**per doz. cards**

## Live Rubber Casters For Radio Cabinets and Furniture

Prevents vibrations, cuts down tube noises and saves floors and rugs. Placed under legs of cabinet.

Retail at 40c for the set of 4

12 Casters mounted on attractive counter display.

Cat. No. 6470 Size 3 1/4 in. 75c doz.

Cat. No. 4427 Size 2 1/2 in. 60c doz.

Cat. No. 6471 Size 2 in. 40c doz.



## Supersensitive Crystals

Individually boxed.

A real mineral product.

Cat. No. 4054



**\$1.25 per doz.**

## STOPPANI Jeweled Compass

Stoppani Compass is an ideal SURVEYORS' instrument with elevated sights. It is made of Solid Bronze, Parkerized, non-rusting, graduated in 1/10. Rubby Jewelled, 4 in. square. Fitted case with set screw in corner to hold needle rigid when not use.



It is said that **Cat. No. 5303**

the U. S. Government paid more than \$30.00 for this precision instrument.

Being a precision instrument, the Stoppani Compass lends itself admirably for use in the Radio Experimenter's test laboratory. It affords an ideal means of determining the popularity on magnets, electro-magnets and solenoids carrying current.

### MAY BE USED AS A GALVANOMETER

Because of its uniform magnetic properties, high sensitivity, and delicate frictionless bearings, the Stoppani Compass may be utilized to advantage as a highly precise galvanometer for detecting electric currents in experimental or conventional radio circuits. The Compass is easily and readily converted into said galvanometer by merely winding several turns of ordinary radio wire completely around the face and lower case of the compass, leaving small spaces between turns to observe the movements of the needle. The ends of the wire are brought out as test leads to be inserted in series in circuits under test. A deflection of the compass needle in either direction indicates the presence of an electric current. Incidentally the intensity of the current may be closely approximated since the force with which the needle gyrates is proportional to the intensity of the current flowing through the wire.

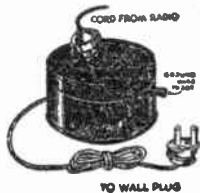
**Our Price \$4.50**

MAIL ORDERS TO   
See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C.  
or to our nearest branch

## GEM LINE Interference Eliminator



A great many noises interfering with your reception are caused by motors, such as electric refrigerators, vacuum cleaners and elevators, and numerous electrical appliances. The Gem Line interference eliminator will help prevent any A.C. or D.C. line interference from entering into your radio.

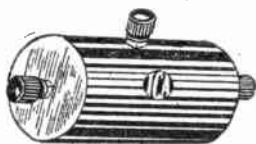
Due to the fact that the Gem Line Interference Eliminator is plugged into your wall socket, the power coming to your radio is filtered through, and the results obtained will please every set owner. Installation instructions are very simple, and can be easily followed by anyone.

**Cat. No. 5121 \$1.65**

## I.C.A. Wonder Aerial

Cat. No. 6955

List \$1.00  
**Net 59c**



A marvelous device which eliminates the outdoor aerial and yet is equal to it. It is scientifically designed and will work on all types of sets.

## F. & H CAPACITY Aerial Eliminator



Attractively Colored Connter Display

Furnished with 6 Capacitors

**Cat. No. 4264 75c**

The F. & H. Capacity Aerial Eliminator has the capacity of the average 75-foot aerial, is attached directly to radio set and complete with an attached wire for a ground connection.

The F. & H. Aerial Eliminator has many advantages. Increases selectivity, easier and cheaper to install, elimination of lightning hazards, unsightly poles, guy-wires, mutilation of woodwork for lead-in wires, lightning arresters, and certain types of man-made static. Being portable and easy to install, it also enables you to move radio set from room to room, should occasion demand.

## I.C.A. INSULTENNA Aerial Eliminator

A Startling Invention to Replace Outdoor and Indoor Antennas

The Insultenna is remarkably compact, measuring only 5x2½ x1 in. May be installed anywhere. It can be conveniently placed in the console or cabinet. It contains a number of feet of a new type filtered aerial wire and condensers which give it the capacity of 75 feet of ordinary antenna.



Cat. No. 6452  
**Price \$1.47**

## Filtervolt, Jr. Light Duty Line Noise Eliminator

Filtervolt, Jr., is the popular size line noise eliminator, suitable for eliminating all line noises caused by vacuum cleaners, switching on and off lights, electric heating pads, electric toasters and all electrical apparatus with make and break contacts or small motors.

Like the Filtervolt Sr., the Filtervolt Jr., is installed either at radio set or at the source of interference. It is quickly and easily attached without the use of tools and is an extremely small and compact unit. The housing is made of black enamel metal with nickel plated end rings.



**Cat. No. 3406 \$1.70**

## Storm King Lightning Arrester

The arrester with the FREE \$100 fire insurance policy.

Genuine molded bakelite. No air gap. Nationally advertised at \$1.00.



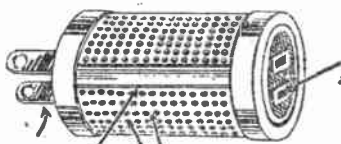
Cat. No. 6581

**Special 35c ea.**

## Line Voltage Regulator

Differential Resistance automatically adapts itself to any set.

Air cooled by draft holes. Steel clad perfectly fireproof. Standard outlet will take any set.



Fits any standard socket or outlet. Small, neat, compact; finished in nickel.

**Cat. No. 3277 35c ea.**

An air cooled, dependable voltage regulator. Will deliver correct voltage of any set. Less than the cost of an ordinary tube. Fits any standard set socket or outlet. Protects set from current surges, saves tubes.

## I. C. A. Wizard Aerial For Midget Receivers

Cat. No. 6941

List Price \$1.25

**Our Price 75c**



A clever new aerial for quick installation into midgets, as shown in the cut. Can also be used in consoles, portables and automobile radios. Self-contained. No ground connection needed on most of the midgets on the market today. In cases where a ground is necessary, the Wizard aerial has a provision for it.

## Line Voltage Ballasts Used in Majestic and other new sets. The Real Line Voltage Regulator

Electrically and mechanically, as well as merchandising and servicing standpoints, the Line Ballast represents the ultimate solution of the line voltage problem. The device, when properly matched to a given power transformer and load, is designed to maintain a practical constant voltage, or within the 5% plus or minus specified by tube manufacturers, on the primary, even though the line voltage may fluctuate as much as 30%. It is usually designed to function between the limits of 95 and 135 volts.



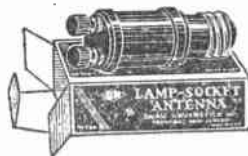
Set	Cat. No.	Set	Cat. No.
Bremer Tully	4023	Majestic 70	4010
Brunswick	4029	Majestic 72	4034
Grebe	4030	Majestic 80	4031
Hi-Q 30	4029	Majestic 80	4031
Hi-Q 31	4032	Nath'l Baldwin	4033
Kennedy	4030	Feerie.s	4033
Kylectron	4033	Sonora	4029

**\$1.47 ea.**

## SWAN-HAVERSTICK Light Socket Aerial

Cat. No. 6580

**43c**



The modern sets and especially the supers require a short aerial, and this device is ideal for this purpose. Eliminates all unsightly wires. Does not use current. Printed instruction sheet with each one, packed in attractive display box.

## STICKTAPE AERIAL

Cat. No. 4256

**59c ea.**

**\$6.40 doz.**



Packed in Display Carton of 12

Sticktape is made of a new metallic alloy of great capacity, the back of which is coated with an adhesive rubber that will stick to any surface. It can be easily concealed behind picture moulding, or on baseboard or under rug on floor or behind drapes, etc. It is the most amazing aerial of modern times and will increase the receiving range of any radio receiver.

## GOLD TEST AERIAL

Cat. No. 4268

**\$1.60**



The Wellston Gold Test Aerial is the world's smallest indoor antenna and yet it is as efficient as a 75-ft. outdoor aerial. Gets distance and reduces static. Improves reception. Works exceptionally well with superheterodyne receivers. Can be installed inside radio cabinet or on baseboard.

# Solder and Tape

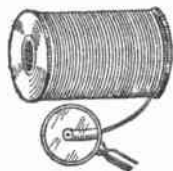
**Acratest**

## "E-Z" Flow Wire Solder

What Every Service Man is Looking For

Diameter 1 MM.

Cat. No.	Spool of	Weight	Our Price
6521	117 ft.	½ lb.	\$ .50
5997	235 ft.	1 lb.	.75
5998	1175 ft.	5 lbs.	3.50
5999	2350 ft.	10 lbs.	6.50



Note Special Fluid (not resin) in Center.

No Corrosion  
No Oxidation  
Quick Action

"Use Half as Much Solder Twice as Long."

This finest of solders is used by the largest radio and electrical manufacturers. Despite its extreme thinness (1 mm.) it has a fluid core which makes it hold to aluminum, nichrome wire and highly polished surfaces. The real advantage of this solder is that only sufficient solder to make the connection is used, while with many ordinary 3m.m. solder, a large globule is needed to make a connection. Will last twice as long as ordinary solder. Once you use this solder, you will never go back to ordinary solder. Sample free on request.

## "PERFECTO" Soldering Fluid



Any Solder, when used in connection with Perfecto Fluid, will enable you to solder substances which ordinary solder will not mend. Will also facilitate soldering of other metals. All that is necessary is to touch the fluid with the tip of the iron.

Cat. No. 5377

**Our Price 25c**  
Per 2 oz. Jar

**Nokorode Solder Paste**  
Packed 12 cans in attractive display

Cat. No. 4211

**\$1.20**

Box of 12 cans

Retail at 15c ea.



## Eveready Rosin Core Solder



A very high-grade solder for wiring and general house work use. Attractive spools and cans.

Cat. No.	Size	Our Price
4156	3 oz.	\$1.35 per display carton of 10.
4175	½ oz.	.25 each
4176	1 lb.	.40 each

## Kester Radio Solder Rosin-Core

The small package of Kester Rosin-Core Solder, being of the flat or ribbon type. Recommended by leading radio engineers for it is absolutely non-corrosive and non-conductive. Designed for the amateur set builder and for radio maintenance work. A liberal roll of solder is packed in a lithographed tin can; ten cans are put up in a handsome counter display carton.



Cat. No. 5220

**Our Price \$1.40**  
Per carton of 10

	For General Work	Electrical and Radio Work	Our Price
1 lb. Spool	5221	5225	\$0.43
5 lb. Spool	5223	5227	\$0.42
20 lb. Spool	5224	5228	1.95

## SOLDERALL



Cat. No. 4467

10c Retail Size

In Counter Display  
Carton of 24 Tubes

**Our Price \$1.35**

per carton of 24

This is a complete metal solder and flux combined. A small quantity applied to the joints to be soldered when heated will flow and unite the parts the same as wire or bar solder. Furnished in collapsible tubes.

## Special Servicemen's Adhesive Tape

3-oz. rolls, approximately 100 yds.  
Width, ¼ in.



Here is a handy item for the man who repairs and installs radio sets and does wiring. A narrow strip of black fabric coated on one side only with a very adhesive compound which will stick. Makes a very neat job and saves time and work. EVERY SERVICE MAN SHOULD ORDER A DOZEN ROLLS AT THIS SPECIAL PRICE.

Cat. No. 5578

**Our Price 5c ea.**  
50c per Dozen Rolls

## A Wonderful Time and Labor Saver for the Radio Service Man and Electrician "TWIN-TAPE"

Rubber and Friction Combined in One. "One wrap instead of two."

- 1—Muslin covering.
- 2—Rubber tape.
- 3—Friction tape.

Twin-Tape represents the highest grade of insulation tape. The best quality of materials obtainable is used in its manufacture, which insures uniformity and long life. One roll instead of two means saving in inventory and convenience to the workman.



8 Ounce Rolls—Cat. No. 5565  
**9c each**

## Friction Tape

Cat. No. 4226

1-Ounce Rolls, marked "5c Each."

**70c** Per box of 32 Rolls



Cat. No. 4219

2-ounce Rolls, marked "10c Each."  
**70c** Per box of 16 Rolls

Cat. No. 4215

4-oz. Rolls—8c each

Cat. No. 4223

8-oz. Rolls—15c each

Packed in individual cartons and attractive display containers which makes sales easier.

### LENK NO. 7 HANDY BLOTORCH



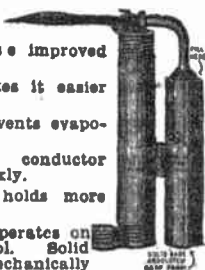
Handy for any soldering purpose. Made of brass heavily nickelled. 1200 degrees needle-point flame.  
 Size: 6 in x 7/8 in.  
 Packed six on a counter display card. Shipping weight per dozen, two pounds.

Cat. No. 6694  
**30c ea.**  
 \$1.75 Display Card of 6

### LENK NO. 108 New Model

Five Improved Features

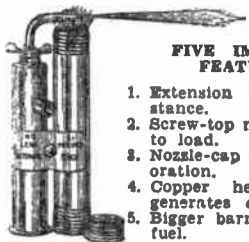
- 1-Extension base improved stance.
- 2-Screw-top makes it easier to load.
- 3-Nozzle-cap prevents evaporation.
- 4-Copper heat conductor generates quickly.
- 5-Bigger barrel holds more fuel.



Blows itself. Operates on denatured alcohol. Solid base makes it mechanically leak-proof.

Cat. No. 6693 **60c ea.**  
 Size: 5 1/2 x 2 1/4 x 1 in.  
 Packed 6 to a carton.  
 \$3.50 Display Card of 6

### Lenk No. 66 Improved



FIVE IMPROVED FEATURES:

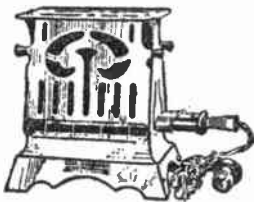
1. Extension base improves stance.
2. Screw-top makes it easier to load.
3. Nozzle-cap prevents evaporation.
4. Copper heat conductor generates quickly.
5. Bigger barrel holds more fuel.

Blows itself. Operates on denatured or commercial alcohol. Solid base makes it mechanically leak-proof.  
 Size 6 1/2 x 2 1/4 x 1 1/4 inches

Cat. No. 5435  
**Our Price 88c**  
 Carton of 6 \$5.25

### Special Toaster Value!

Richly designed, guaranteed element. Insulated fibre handles. Takes largest slices of bread. Toasting quickly and evenly. Large base prevents toaster from tipping. Made sturdy of heavy metal, not tin. Genuine nichrome wire imbedded in genuine refractory hooks. Equipped with electric cord and plug. Each packed in individual carton.



Height—7 in. Base—7 1/2 x 5 1/4 in.  
 Weight—2 1/2 lbs.  
 Cat. No. 393 **89c**

### Lenk No. 30 Champion Blotorch

For the Mechanic Who Knows Value

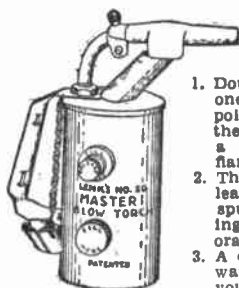


Mechanically foolproof.  
 All parts interchangeable.  
 Built to last a lifetime. Blows itself.  
 Burns 3 hours on one filling.  
 Starts in 20 seconds.  
 The Champion of Blow Torches.  
 Size 7 x 3 1/4 x 2 inches.  
 Packed one in a carton—six to a shipping container.

Cat. No. 5433  
**\$1.80**

### Lenk No. 50 Master Blotorch A Combination Alcohol Torch

Powerful 2200° blast with attached burner. One turn of thumb screw releases burner, pre-ignites 1700° needle-point flame.



1. Double burner—one for a needle-point flame—add the attachment for a heavy intense flame.
2. The pressure release valve—no sputtering, no boiling over, no evaporation, no leaks.
3. A cleaning pin always handy when you want it—kept securely in the handle.
4. A full grip handle, always cool.
5. Substantially built—to last a lifetime.

Cat. No. 5434  
 Size 7 x 4 1/4 x 3 in.

Packed one in corrugated carton  
 6. Fool-proof construction—no adjustment necessary.  
 7. Filter screen in jet prevents plugging of orifice.

**Our Price \$2.95**

### Special Therapeutic Electric Lamp

Relieves Pain With Heat

A quality product of heavy aluminum, highly polished. One-half of inside silver etched; scientifically correct in size, shape, etc., with 260 watt standard first quality carbon lamp. All made with 8 ft. silk cord, 2-pc. attachment plug, knob or push through socket. Will stand up under high heat.



Cat. No. 388

Either A.C. or D.C. current. Recommended by physicians everywhere.

**Each \$1.65**

Complete with 260 Watt Bulb

**260 Watt Bulbs Sold Separately**

Cat. No. 6562 **60c**

### Electric Soldering Irons



A handy soldering iron for the radio fan. Equipped with removable copper tip, heater cord and a two-piece attachment plug, alloy element.

**FULLY GUARANTEED**  
 Cat. No. 2720 **59c**

75 Watt High Heat Soldering Iron with removable brown handle, approved heater cord.

Cat. No. 5113 **\$1.15 ea.**

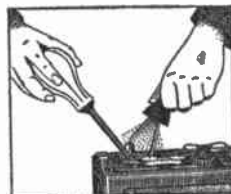
100 Watt Extra Heavy High Heat Iron with brown removable handle, approved heater cord.

Cat. No. 3305 **\$2.00 ea.**

7 1/2 Watt, 220 V.

Cat. No. 6707 **\$1.50 ea.**

### Mueller Battery Light



Cat. No. 6586

A Handy and Inexpensive New Battery Shop Tool

**Our Price 38c ea.**  
 Six for \$2.10

The MUELLER BATTERY LIGHT uses the storage battery itself as the logical source of power for lighting up the work when cells are being replenished with water.

Ideal as a Temporary Voltmeter  
 The MUELLER BATTERY LIGHT provides a simple and sure means of showing up a bad cell without the necessity of removing the battery from the car.  
 Packed in Individual Boxes.

### Electric Waffle Iron

In "Super" Chromium Plate

With Heat Indicator

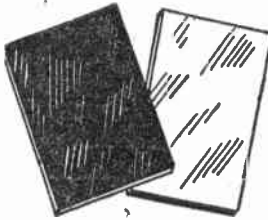


Here's a "Super" Chromium plated waffle iron, in popular "pedestal" style, attractively etched, ready to take its place as the unquestioned popular-priced VALUE-LEADER in any department! With unheard of selling features in its price class—such as the new patented Guaranteed Entombed Element, with nichrome wire and double strength terminal connections; non-breakable heat indicator, conveniently placed, as shown; full 7 1/2 in. cast aluminum greaseless grids; enameled wood handles; and matching silk cord set with pull-type bakelite double plug. Fibre feet. Operates on 115 volts, 600 watts.

Packed One to a Shipping Carton. Shipping Weight, 8 lbs.

Cat. No. 965 **\$3.95**

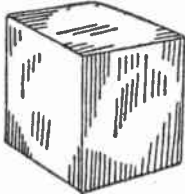
## Bakelite and Aluminum Panels



Special sizes of bakelite and aluminum panels can be furnished at short notice. Prices on request.

14 Gauge Aluminum			3/16 in. Bakelite		
Size	Cat. No.	Our Price	Cat. No.	Our Price	
7x10	5176	\$0.50	5169	\$1.00	
7x12	5177	.57	5170	1.25	
7x14	5178	.67	5171	1.50	
7x18	5179	.85	5172	1.90	
7x21	5180	.97	5173	2.25	
7x24	5181	1.16	5174	2.50	
7x26	5182	1.30	5175	2.75	

Aluminum shielding can, 5 in. by 6 in. by 9 in. with 4 corner posts.



Cat. No. 5184

**Our Price \$1.95**

Aluminum Corner Posts for making aluminum boxes, 6 in. long with holes drilled and tapped at each end.



Cat. No. 5183

**Our Price 20c ea.**

## Bakelite Tubing (Coil Forms)

Cat. No. 4085  
1 1/4 in. dia., 4 in. long



Cat. No. 3812  
1 1/2 in. dia., 3 in. long

**Our Price 10 ea.**

## Polished Bakelite Strips Black

Cat. No. 4383  
App. 15 in. x 1 1/2 in.—3/16 in. thick.

**15c ea.**



Cat. No. 4364—App. 5 1/2 in. x 1 1/4 in.

**5c ea.**

These bakelite strips can be used by the service man for many purposes. At these prices they should order a supply.

## Round Head Machine Screws

Cat. No.	Size	Round Head N. P.
5966	7/8x6/32	Round Head N. P.
5967	1/2x6/32	Round Head N. P.
5968	5/8x6/32	Round Head N. P.
5969	3/4x6/32	Round Head N. P.
5970	1 x6/32	Round Head N. P.
5971	1 1/4x6/32	Round Head N. P.

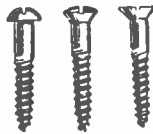
These machine screws are packed 10 screws to an envelope. Each envelope has an illustration and the quantity of the product on the front.



**Our Price 5c**

Per Envelope  
MAY BE ASSORTED

## Wood Screws in Envelopes



The wood screws are packed 10 to an envelope, each envelope illustrates the type of the wood screw head and always states the quantity.

4746	1/2 x No. 5, 10 Round Wood Screws to an envelope.
6474	3/8 x No. 6, 10 Round Wood Screws to an envelope.
6475	3/4 x 6, 10 Round Wood Screws to an envelope.
6476	1 x No. 6, 10 Round Wood Screws to an envelope.
6477	1 1/4 x No. 6, 10 Round Wood Screws to an envelope.

**Our Price 5c per envelope**

## Machine Screws, Nuts, and Washers

Cat. No.	Size	Machine Screws, Nuts and Washers.
3650	1 1/2x6/32	Oval Head Machine Screws, Nuts and Washers.
3651	1/2x6/32	Oval Head Machine Screws, Nuts and Washers.
3652	1 x6/32	Oval Head Machine Screws, Nuts and Washers.

The above mentioned merchandise is packed 12 of each in an envelope as follows: 12 machine screws, 12 nuts, 12 washers. The envelopes are printed in three colors and have an illustration of the product. Merchandise is brass nickel plated and packed 50 envelopes to a standard package.



**Our Price 10c**  
per envelope of 36 pieces

## Soldering Lugs



Tinned Brass

Cat. No. 4260

1/2 Actual Size

**25c per hundred**

## Hexagon Nuts, Knurled Nuts, and Washers in Envelopes

Cat. No.	Size	Hexagon Nuts, Knurled Nuts, and Washers in Envelopes
5959	6/32 x 1/4"	20 nuts packed to an envelope.
5960	8/32 x 1/4"	20 nuts packed to an envelope.
5961	6/32 x 5-16"	15 nuts packed to an envelope.
5962	8/32 x 5-16"	15 nuts packed to an envelope.
5963	6/32 x 5-16"	6 nuts packed to an envelope.
5964	No. 6 Washers	25 washers packed to an envelope.
5965	No. 8 Washers	25 washers packed to an envelope.



All of this merchandise packed to an envelope with an illustration of the product on the front side, also the quality.

**5c per Envelope**

## Brass and Copper Tinned Terminal Lugs

The No. 1 and 2 lugs are commonly used on battery cables.

The No. 3 lug is a solderless lug for round or square bus-bar.



The No. 4 lug is a flat lug for bus-bar connections.

The No. 5 lug is also flat but is 3/4 in. in length. This type of terminal is easily bent to any desired angle or shape.

The No. 11 lug. Tite-Lock. 7 1/2 in. in length.

All terminal lugs are packed 20 to an envelope, 50 envelopes to a box.

Style	Cat. No.	Style	Cat. No.
1	5972	4	5975
2	5973	5	5976
3	5974		

**Our Price 5c**  
per envelope of 20  
**\$2.25** box of 50 assorted envelopes

## SCREEN GRID Tube Caps with Leads

These Screen Grid Tube Caps have a lead soldered directly to the cap. The cap itself is manufactured of a spring brass and is cadmium plated.



Cat. No. 3892

**Our Price 20c doz.**

Cat. No. 4173—Without Leads  
**15c Dozen**

## FUSE CLIPS

Spring Phosphor Bronze fuse clips that have been carefully designed and accurately made so as to insure perfect electrical efficiency and durability.



Cat. No. 3893

**15c per doz.**

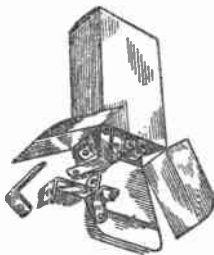


### Machine and Wood Screw Assortments

- 4142 Round Head 6-32 Machine Screws, 85 per box.
- 4288 Flat Head 6-32 N. P. Machine screws 85 per box.
- 4741 Oval Head 6-32 N.P. Machine Screws, 85 per box.
- 4742 Round Head 8-32 N.P. Machine Screws and Nuts, 75 per box.
- 4748 Assorted Fibre Washers and Grommets, 100 per box.
- 4744 Round, Flat and Oval Head Assorted Size Wood Screws, 85 per box.
- 4745 Round Head 6-32 Screws, nuts and Washers, 100 per box.

**Our Price 25c per box**

### Angle and Bracket Assortment



All Nickel Plated Brass.  
28 pieces in a box.  
Very handy for the service man.  
Cat. No. 3608

**Our Price 25c box**

### Transformer Brackets



Brass, Nickel Plated— $\frac{3}{8}$  in. wide.

Cat. No.	Length	Hole Center	Price Set of 4
5367	3 $\frac{1}{2}$ in.	2 $\frac{1}{2}$ in.	\$0.20
5368	4 $\frac{1}{2}$ in.	3 $\frac{1}{2}$ in.	.30
5369	5 $\frac{1}{2}$ in.	4 $\frac{1}{2}$ in.	.40

### Shaft Coupling

Cat. No. 5166



**Our Price 15c ea.**

This fitting connects two  $\frac{1}{8}$ " shafts together. Very handy for connecting condensers, volume controls, etc. With 2 set-screws. N. P. brass.  $\frac{3}{8}$ " long.

### EASY SOLDERING Phone Tips



These new Phone Tips are very easily soldered as may be noted by the illustration, merely insert wire and drop solder in the side hole.

Cat. No. 6531 **9c per env.**

10 to an envelope  
50 envelopes to a box

### Yaxley Solderless Phone Tips

Simply insert wire and tighten up on screw and you have a good solderless connection.

Cat. No. 7185 **35c doz.**

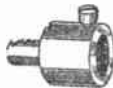
### "Clamp-On" Type Pilot Light Socket

Can be attached to any dial not already equipped with pilot light.

Cat. No. 6571

**Our Price 6c ea.  
60c doz.**

### Condenser Shaft Reducer



Adapts a  $\frac{3}{8}$ " condenser shaft for a  $\frac{1}{4}$ " dial or knob. Nickel plated brass. Length  $\frac{1}{2}$ ".

Cat. No. 6134

**Our Price 15c Ea.**

### Rodale Soft Rubber Handle Screw Driver



3 Sizes. Packed 6 of each size on a card.

Cat. No. 6490

**85c for card of 12**

### Flush Type Pin Jacks



Nickle-Planted Complete with solder lug.

Cat. No. 5629

**45c per dozen  
\$3.50 per 100**

### Pilot Light Sockets With Mounting Bracket



Can be used in any set Both contacts insulated from mounting.

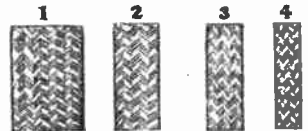
Cat. No. 4076

**\$1.50 per dozen**

Cat. No. 4077—Without Bracket

**Our Price \$1.00 dozen**

### Copper Sleeving for Shielding



This shielding is used on amplifiers, speakers, public address conduits, automobile radios and wherever it is desirable to eliminate electrical interference. The conductors are run through the sleeving and the sleeving is grounded. The wire is very flexible and can be stretched to double its original length.

Cat. No.	Size	Dia.	Per ft.	100 ft.
4408	1	1 in.	\$0.11	\$10.00
4469	2	$\frac{1}{2}$ in.	.09	8.50
4470	3	$\frac{3}{8}$ in.	.07	6.50
4475	4	$\frac{1}{4}$ in.	.05	4.50

### DE JUR PIN JACKS

Direct connection to the loud speaker or ear-phones without the use of a phone-plug is facilitated by the use of the DE JUR Pin Jack. This useful little terminal device finds adequate application in modern receivers where reception over a wide band of wave-lengths is accomplished with the use of plug-in coils. Their use on terminal strips is also a great convenience.



Cat. No. 4129

**50c dozen**

**Package of 100 \$3.50**

Solderless Phone Tips, Cat. No. 5373, 50c Dozen.

### HACKSAW



Cat. No. 5076

**Price 85c**

They are adjustable from 8 to 12 inches, with back, arms and clips made of a very hard grade of steel. The nicely-shaped pistol grip handle is made of steel stampings, corrugated to give a good grip. The handle is riveted to the frame. All other joints are everlastingly welded together.

MAIL ORDERS TO See Terms on Page 5

**Federated Purchaser Inc.**  
WorldRadioHistory

25 PARK PLACE, N. Y. C.  
or to our nearest branch

# JUST OUT!

## John F. Rider's Trouble Shooter's Manual



Vol. 2  
1932 Edition

No duplication between Volume No. 1 and Volume No. 2. Volume No. 2 is the continuation of the Perpetual Trouble Shooter's Manual Series. This volume picks up where Volume No. 1 left off.

Every service man is interested in having at hand as much data as possible about the various receivers produced for distribution in the United States. This information is of extreme value during service operations. It represents the data required to service that receiver with the greatest ease and in the fastest time. Without such information the service man is at a loss to know the type of circuit used—the location of the different parts in the receiver—the correct operating conditions—the correct resistance between points so that he may make his various tests.

VOL. 2

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**Net \$5.00**

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Companion to Vol. 2. Over 20,000 copies sold. Radio's most popular service manual. 800 pages.

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the service man is at a loss to know the type of circuit used—the location of the different parts in the receiver—the correct operating conditions—the correct resistance between points so that he may make his various tests.

### SUBJECTS COVERED IN VOL. 2

1. Alignment Frequencies.
2. Atwater Kent Electrical Values.
3. Point to Point Resistance Values.
4. Schematic Wiring Diagrams.
5. Chassis Layouts.
6. Voltage Data.
7. Electrical Values.
8. Peak Frequencies.
9. I.F. Trimmer Condensers.
10. Alignment Data.
11. Sealed Units.

### Volume No. 2 Is the Finest Manual Produced

There is no manual equal to Volume No. 2 of the Perpetual Trouble Shooter's Manual Series. If radio service work is your means of livelihood you just cannot be without this copy. If you own Volume No. 1, the combination of these two volumes will give you a reference library of approximately 1800 pages of the finest type of radio service information procurable anywhere. If you do not own Volume No. 1, you can still buy Volume No. 2, because it is complete in itself. The two volumes cover the radio industry from 1919 right up to date. Volume No. 2 has more than 700 pages—loose leaf. Handsomely bound.

20,000 service men and organizations purchased Volume No. 1. An equal amount will purchase Volume No. 2 because these men know that they get their money's worth when they buy a Rider book.

See Our Complete Power Transformer Listing On Page 92

## DRAKE'S Radio Cyclopeda

Answers in plain English every practical question on the servicing, adjustment, repair, remodeling and designing of radio receiving equipment. Each of the five hundred leading articles is complete in itself, and in addition there are hundreds of concise definitions. The entire volume is alphabetically arranged and self-indexed to make every fact instantly accessible.

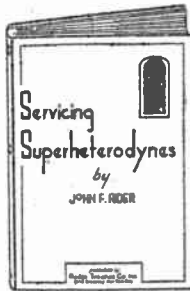


Cat. No. 366 **\$4.80**

## Servicing Superheterodynes

By JOHN F. RIDER

Pocket size. Any and all superheterodyne service problems are solved... How to adjust R. F. Trimmers... I. F. Trimmers... Oscillating Trimmers... How to apply a set tester to a superheterodyne... How to use R. P. and I. F. oscillators... How to eliminate double spot tuning... How to eliminate heterodyning... The principle of Superheterodyne Receivers... The use of Variable-mu Tubes... Pentode Tubes... everything... absolutely everything you want to know upon superhets... trouble shooting... actual service procedure... troubles... symptoms and analysis indexed. Everything made simple—available at your fingertips. Size 5x7 inches. Set in clear type. Profusely illustrated. Bound in flexible cover.



Cat. No. 355 **95c**

## Handbook for Projectionists

214 pages  
8 1/2 x 11  
Profusely Illustrated

Cat. No. 369

**Net \$1.50**

A book that should be in the possession of every Sound and Recording Engineer and Radio Serviceman engaged in Public Address Work.

Written by the Engineering Staff of RCA Photophone, Inc.

### Subjects Covered:

- Nature of Sound
- Elements of Electricity
- Motors and Converting Equipment
- Storage Batteries
- Battery Chargers
- Recording
- Turntables
- Sound Heads
- Input Controls
- Vacuum Tubes and Vacuum Tube Amplifiers
- Loudspeaker Equipment
- Theatre Acoustics
- RCA Photophone Equipments
- Trouble Shooting
- Type PG5 Portable Equipment

## Radio and Electronic Dictionary



The Radiotechnic Laboratory  
3,800 Words and Terms  
\$50 Illustrations

Cat. No. 367

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**\$2.19**

Radio Transmission and Reception  
Broadcasting. Commercial Communication, Aviation, Navigation, Industrial Control, etc. Photoelectricity and Photocell Applications. Sound Pictures and Public Address Systems. Television and Telephotography. Electricity and Magnetism

## The Radio Amateur's Handbook

By the Headquarters Staff of the American Radio Relay League  
For Those Who Don't Know It:

The Handbook is a practical manual of amateur radio in all its phases, published by the American Radio Relay League, the amateur's own organization. It starts at the beginning and tells the whole story: What amateur radio is; How to be a radio amateur; How to obtain your licenses; How to build the simple apparatus of a simple station; How to build the best known apparatus for the most modern station; How to operate the station—enough information to keep you busy and interested for five years.

For years the Handbook has been the practical working guide of successful amateurs the world over. It has just been given a most complete and thorough revision by members of the technical, editorial and communications departments of A. R. R. L. Headquarters  
244 Pages 6 1/2 x 9 1/2 227 Illustrations

Cat. No. 375 **\$1.00**

## Servicing Receivers by Means of Resistance Measurements



180 pages, type set; cloth bound; well illustrated.

Cat. No. 353  
**Price \$1.00**

Sold with a Money-Back Guarantee... A book which you must have!

### CONTENTS:

- Resistance, Types, Values and Wattage Series, Parallel and Series-Parallel Resistances.
- Resistances in Powerpacks.
- Resistances in Tube Circuits.
- Point-to-Point Resistance Measurement.
- Checking Resistance of Inductances and Condensers.
- The Application of the Ohmmeter to Receiver Servicing.
- Servicing Receivers by Means of Resistance Measurement.

MAIL ORDERS TO See Terms on Page 5

Federated Purchaser Inc.

25 PARK PLACE, N. Y. C. or to our nearest branch

# USALITE FLASHLIGHTS

Two Best Sellers



2-Cell Large Size Focusing Spotlight  
Will throw a beam of light over 400 feet.  
Size 1 3/4" x 6 3/4"

Cat. No. 6679 **85c**  
Complete



3-Cell Large Size Focusing Searchlight,  
with Extra Large Head  
Will throw a beam of light over 1000 feet.  
Size 1 3/4 in. by 9 1/2 in.  
Head 3 3/4 in. Diameter

Cat. No. 6684 **\$1.35**  
Complete

- 1—Heavy gauge solid brass cases.
- 2—Body finished in black.
- 3—Fully Niokoled.
- 4—Pool-proof safety switch that locks on and off in addition to intermittent flashes for signalling (popular with Boy Scouts.)
- 5—Hinged ring on bottom cap for hanging.
- 6—Head is Octagon-shaped to prevent rolling.
- 7—Shock absorber at base of bulb.
- 8—All parts are ribbed for sturdy usage.
- 9—Each Flashlight is complete with Bulb, and Batteries.
- 10—Each Flashlight is packed in an individual attractive box.

## New "Photo-flash" Lamp and Holder



Photoflash Holder  
with 7-in. Reflector  
and Batteries

Cat. No. 3377 **65c**

Makes picture taking easy under any condition, indoor or outdoor, day or night. No fire hazard, noiseless, safe and economical. Any child can operate it. Simply screw the new photoflash lamp into socket of this special holder, press button, and the picture is made. A boon to the amateur photographer—a necessity for the professional.

Photoflash Lamps Only

Cat. No. 3378 **18c ea.**

## 4 1/2 Volt "C" Battery

4 in. long x 3 in. high x 1 1/2 deep.  
Packed 10 in a shipping carton weighing 10 pounds.

Cat. No. 6655

**Our Price 20c ea.**  
**\$1.90 Standard Carton of 10**

## No. 6-1 1/2 Volt Dry Cell

This is a Dry Cell of the highest quality and will give satisfaction in any service for which this type of cell is adapted. It is especially qualified for all kinds of ignition work, doorbells, buzzers, Radio "A" Battery, and for other general uses of the Drycell. 2 1/4" diameter x 6 1/2" high



Cat. No. 6656

**20c ea.**

**\$5.00 per Carton of 25**  
Packed 25 in a shipping carton weighing 60 lbs.

## 22 1/2 Volt "B" & "C" Battery

4" long x 3" high x 2 1/2" deep.

Packed 5 in a shipping carton weighing 8 lbs.  
Cat. No. 6685



**Our Price 58c ea.**  
**\$2.90 Standard Carton of 5**

## Merit Flashlight Cells

LARGE SIZE

Fit Both Flashlights Shown Above.



Size 1 1/4 inches by 2 1/4 inches.

Cat. No. 6682—Regular Size

Cat. No. 6683—Baby Size

**Our Price 4c ea.**  
**\$1.85 per Carton of 50**

## Flashlight Lamps

Miniature Base—Imported

Cat. No.	Volts	Style
5092	2 1/2	Clear
5093	2 1/2	Opal
5094	3 1/2	Clear
5095	3 1/2	Opal

Packed 10 to the box, 100 to carton

**Our Price 30c Box**  
**\$2.50 per Carton**

## NEON

### Pilot and Night Lamps

Uses Very Little Current.  
Burns 24 Hours Per Day  
For 5 Cents Per Month.  
Can Be Used Anywhere—

No. 3673—1 Watt... 50c  
No. 3674—2 Watt... 65c  
Standard Package, 10

Acts as Pilot Light, Night Light, Indicator on Electrical Apparatus, etc.  
Uses Edison Medium Base  
Works on Both A.C. or D.C., 110-120 Volts



For VICTOR and COLONIAL Sets  
Intermediary Base, Frosted



Cat. No. 4224

**\$1.50 Carton of 10**

## NATIONAL Mazda Pilot Lights

FOR RADIO SETS

Cat. No.	Volts	Carton of 10
3665	2 1/2	<b>88c</b>
3675	5	

No Less Than 10 Sold



## Independent Pilot Lights

Cat. No.	Volts	Carton of 10
3676	2 1/2	<b>45c</b>
3677	5	

PACKED 25 to the box

Cat. No.	Volts	Price
3673	1	50c
3674	3	65c

No Less Than 10 Sold

## Pilot Lamps

110 V. Candelabra Base



For Pilot Receptacles and General Use.

Cat. No.	Color
5091	Clear
5091A	Amber

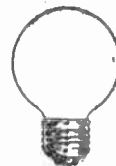
PACKED

25 to the box

**Our Price 9c ea.**  
**\$2.00 Box of 25**

## Round Decorative Lamps

Regular base, G18 1/2 and A19  
Packed 10 to the box.



Cat. No.	Color	Cat. No.	Color
5098	White	5099	Blue
5097	Amber		
5098	Red		

**90c Box of 10**

## 45 VOLT 'B' Batteries

Cat. No. 6905

**88c ea.**

**Carton of 5 \$4.00**



MAIL ORDERS TO See Terms on Page 5

**Federated Purchaser Inc.**

or to our nearest branch  
25 PARK PLACE, N. Y. C.

# Aerial - Lead-in - Magnet and Hook-up Wire

## AERIAL WIRE



Cat. No. 4401

Seven-Strand No. 26 Copper 90-ft. Coils

Lots of 25 coils . . . 15c ea.  
 Lots of 50 coils, . . . 13c ea.  
 Lots of 100 coils . . . 12c ea.

### No. 7-22 Heavy Gauge

Cat. No. 4402  
 90-ft. Coils

Lots of 25 coils . . . 22c ea.  
 Lots of 50 coils . . . 20c ea.  
 Lots of 100 coils . . . 18c ea.

Cat. No. 4462 1000 ft. Spool.....\$1.75

### 7-24 Stranded Enamel Wire

Cat. No. 4421—100 ft. coils

Our Price 35c per coil

### No. 14 Solid Enameled Wire

Cat. No. 4416 100 ft. coils

Our Price 30c per coil

Cat. No. 4475 1000 ft. roll  
 \$2.75

## Gold Plated Aerial Wire

Used on all U. S. Battleships.

Cat. No. 4213



Our Net Price 55c ea. \$5.50 dozen

## Indoor Aerial Tape

Cat. No. 4311

OUR PRICE

30c ea.

\$3.35 dozen



Tape is a flexible metallic ribbon antenna especially manufactured for indoor reception. Gives reception far superior to any other type of indoor aerial or loop. Can be easily placed about the room in convenient places. Placed around the moulding.

## LEAD-IN WIRE

Solid Copper, Rubber Covered

50-ft. Rolls

Cat. No. 4403

15c ea.

25 coils for \$3.15



100-ft. Rolls

Cat. No. 4404

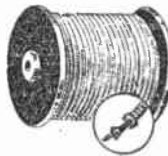
28c ea.

25 coils for \$6.50

## SPECIAL SHIELDED

### Lead-in Wire

Shielded Lead-in Wire consists of stranded cable with Easy-Strip Rubber Insulation enclosed in a braided shield of tinned copper wire. In service the shielding is grounded. Shielded Lead-in Wire is solving the problem of troublesome interference and thus protects the signal energy from interference caused by high tension lines, motors and similar disturbances.



Cat. No.	Length	Price
4460	50 ft. Coil	\$ .50
4461	100 ft. Coil	.95
4464	500 ft. Coil	4.50
4463	1000 ft. Coil	8.50

## SOMETHING NEW!

### Continuous Aerial

### and Lead-in Wire

### SPECIAL OFFER!

### Rubber Covered Tinned Copper Lead-in Wire

Underwriters' Label On Each Coil 500 Ft. Coils.



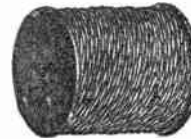
With this wire it is not necessary to use insulators or make any splices. You simply

tie one end on some high object on the roof and bring the other end down over the side of the roof and into the window. For a quick and secure installation, there is nothing better than this fine insulated copper wire.

Cat. No.	Gauge	Type	Our Price 500 ft. Coil
4422	16	Solid	\$2.65
4430	18	Stranded	1.75

The solid wire has a 3/64 rubber cover and is cotton braided and weather-proofed. The stranded wire has a lacquered cotton braid over the rubber insulation.

## Serviceman's Handy Wire Spool Assortment



Now! Every Serviceman can have a complete assortment of Wire in stock without a large investment

## Our Price 95c

For Any Spool Listed Below

Knowing that it is essential that every service shop has a complete assortment of electrical and radio wire in stock for every job, but very few servicemen can afford to invest too much money in wire, we have arranged with a very large wire mill to furnish us with every popular type of wire, put up in handy spools, so that a complete assortment is in the reach of everyone. For a small investment of \$8.50 you can have a good supply of every popular type of wire in stock.

Cat. No.	Description
4492	100 ft. No. 18, 1/64 Cotton Covered twisted green and yellow.
4493	100 ft. No. 18, 1/32 Parallel, assorted colors.
4494	100 ft. No. 18, 1/64 Silk Parallel, assorted colors.
4495	50 ft. No. 14 Cotton Covered Twisted for heavy filament circuits carrying exceptionally large current.
4496	200 ft. No. 18, 1/64 Single conductor Cotton Covered, for aerial and ground wire, lead-in wire, filament leads and general repair work.
4497	100 ft. No. 14, 1/32 Single conductor Cotton Covered, for heavy filament work and general use.
4498	100 ft. No. 18, 1/64 Silk Covered, twisted for filament leads and extensions. Assorted colors.
4430	350 ft. No. 22, 1/64 Single conductor for hook-up wire, assorted colors.

## No. 18 Bell (Annunciator) Wire

A real quality No. 18 single wire. Made by one of the largest wire companies and priced right.

Cat. No. 4409

All Colors in Boxes



1/2-lb. Coils, 15c ea.—\$1.50 doz.

25-ft. coils, white, for inside work, 25 coils to a box.

Cat. No. 6302

Our Price \$1.25

Per Box of 25 Coils

MAIL ORDERS TO See Terms on Page 5

Federated Purchaser Inc.

25 PARK PLACE, N. Y. C. or to our nearest branch

# Magnet Wire

Made from the best grade wire and insulated with the finest materials obtainable. Each spool contains a single length of wire neatly wound and suitably labeled. ALL 1/4 LB. SPOOLS

Gauge	Single Cotton Cat. No. Price	Double Cotton Cat. No. Price	Single Silk (Green) Cat. No. Price	Double Silk (Green) Cat. No. Price	Feet Per Spool	Plain Enamel Cat. No. Price	Feet Per Spool
18	6056 \$ .15	6063 \$ .17	6077 \$ .21	6084 \$ .27	45	6070 \$ .15	50
20	6057 .17	6064 .18	6078 .24	6085 .30	75	6071 .16	80
22	6058 .18	6065 .21	6079 .25	6086 .36	110	6072 .17	120
24	6059 .19	6066 .24	6080 .30	6087 .42	190	6073 .18	200
26	6060 .24	6067 .30	6081 .36	6088 .54	280	6074 .19	320
28	6061 .27	6068 .35	6082 .42	6089 .66	440	6075 .21	500
30	6062 .33	6069 .42	6083 .48	6090 .84	630	6076 .23	800

## "Push Back" Wire

Radio Hook-up Wire  
Every Dealer and Service Man Needs This Item



A high grade hook-up wire for general work. The 19-gauge wire is tinned, ready for soldering. Covered with paraffined push-back insulation. Black.

Used for wiring sets and general repair work. At this price you can afford to get 500 feet.

Cat. No.	Price
4408	100-ft. Roll \$0.50
4411	500-ft. Roll 2.00
4412	1,000-ft. Roll 3.75

## Stranded Push-Back Wire

For filament leads and wherever flexibility is desired. Tinned for quick coloring.

Cat. No. 4463

100 ft. coil	\$0.40
500 ft. coil	1.85
1000 ft. coil	3.50

## SPAGHETTI TUBING

Cat. No. 5630

36 in.—Black

**35c dozen**  
\$2.50 per 100 lengths



## Green Silk Covered Litz Wire



Litz wire is used for winding precision induction coils and for making loop aeriars. It is the most sensitive wire known and is excellent for indoor antennas.

1/4 lb. spools.

Cat. No. 4243 **20c**

## Colored Rubber Covered Stranded Hook-Up Wire



Very flexible tinned wire covered with blue, yellow, green or red rubber. Ideal for wiring or hooking up sets.

Cat. No.	Length	Each	Dozen
4405	25 ft.	11c	\$1.20
4406	50 ft.	20c	2.25
4407	100 ft.	40c	4.50

## Radio Set Hook-Up Wire

So many of our customers have asked us to supply them with the same type of hook-up wire that is used by the large production manufacturers of radio sets. This type of wire is unobtainable in the usual channels of trade and is made up only on order, which orders must be sufficiently large to make the wire on a production basis. We have arranged to stock this wire for the dealer and serviceman trade at extremely low prices.

Specifications  
Stranded copper,  
TINNED; (for easy soldering);  
1/64 rubber;  
glazed cotton braid. The braid is then lacquered, making it absolutely moisture proof. The lacquer also causes the braid to adhere permanently to the rubber.



VERY EASY STRIPPING  
ALL COLORS  
Packed on 250 ft. Spools.

Cat. No. 4430

- 1 Spool, 1 Color—250 ft.—95c
- 2 Spools, 2 Colors—500 ft.—\$1.75
- 4 Spools, 4 Colors—1,000 ft.—\$3.25

This is the same wire that is used by Atwater-Kent, Stewart-Warner, Majestic, Philco, RCA-Victor and all the large set manufacturers.

## Service Man's Handy Wire Assortment



Contains 150 ft. of Wire  
Cat. No. 4415

A complete assortment of wire lengths from 4 in. to 15 in. of every type of wire used in a service department. Contains hook-up, push-back, bus bar, shielded, heavy filament, A.C. leads and others. Will pay for itself many times and save you money on wire. Very handy to have on the repair bench or in your service kit.

**Our Price 39c**

## Special Heavy Duty Rubber Covered Stranded Filament Lead Wire



For 1 1/2 and 2 1/2 volt filament leads and wherever a heavy flow of current is carried.

14 Gauge Will carry 15 Amp. at 110 Volts	12 Gauge Will carry 20 Amps. at 110 Volts
Cat. No. 4497	Cat. No. 4459

**100 ft. for 95c**      **100 ft. for 95c**

Same wire as above also furnished in twisted pairs for A.C. leads and other uses where two conductors are required.

14 Gauge—Cat. No. 4495  
12 Gauge—Cat. No. 4500

**95c per 50 ft.**

MAIL ORDERS TO   
See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C.  
or to our nearest branch

### No. 18 Twisted Lamp Cord



A closely woven double braided and heavy rubber insulated stranded copper wire for all general uses. Green and yellow, white or brown, cotton covered.

Cat. No. 4418

**\$2.15 per 250 ft coil**  
**\$3.75 per 500 ft.**

### No. 18 Type "PS" 1/64 Reinforced Cord



Used for all portable applications like vacuum cleaners, etc.

Ruggedly built, substantial and will give real service and long wear.

Cat. No.	Length	Our Price
4431	100 ft.	\$1.75
4432	500 ft.	5.50
4433	1080 ft.	9.50

### Flat Cotton Parallel Wire

Will Stand a lot of abuse Approved No. 18. 1/32 Rubber All Colors



Cat. No.	Length	Price
4447	250 ft.	\$2.25
4448	500 ft.	4.25
4449	1000 ft.	8.00

### No. 16 Double Lighting Wire



Lacquered Braid For Auto Ignition Work Oil Proof

Cat. No.	Length	Our Price
4479	100 ft.	\$1.25
4487	500 ft.	5.50
4488	1000 ft.	10.50

### HEAVY DUTY "SJ" 2 Cond. Garage Wire

Run a 10-ton truck over it; leave it out in sleet and snow; will stand almost any abuse. Very popular for trouble lamps, motor leads, temporary outside lines and it will make a vacuum cleaner cord de luxe.

An extra heavy duty flexible rubber covered cord, positively water and oil proof. Suitable for garages, shops, etc. A full 80% Para rubber cord priced about 50% below market prices.



Cat. No. 4457

**\$2.25 per 100 ft. spool**

### Extra Special Value Silk-Covered Parallel Wire

For Electrical, Radio and General Use

No. 18, 1/64 P. C. Parallel Silk Wire for wiring homes with base-board convenience outlets, lamps, extensions and a hundred other uses.

This is the fastest moving wire, and every dealer and service man should have a spool on hand.

Cat. No.	Size	Price per 1,000 ft.
4410	18-1/64	\$5.85
4434	20-1/64	4.95



Furnished in white, green, maroon, brown and gold 1,000-ft. spools only

### Single Conductor Cotton Covered Fixture Wire



With inner braid and rubber insulation. For hooking up set to aerial and ground and general electrical use.

1000 FT. SPOOLS

Cat. No.	Gauge	Color
4484	18	Brown
4485	18	White

**Our Price \$3.20**

Cat. No.	Gauge	Color
4486	20	Brown
4499	20	White

**Our Price \$3.00**

### Asbestos Heater Cord



A closely woven heavy duty wire used for all appliances.

Cat. No. 4423

Cotton Braid

Overall

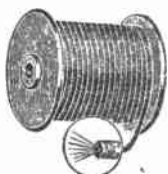
Per 500 ft.

\$5.50

Per 250 ft.

\$3.00

### Battery Charging Cable (Single)



Cat. No. 4450

The finest battery cable it is possible to manufacture. 100 ft. spools.

**95c per 100 ft.**

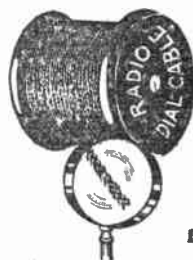
### We Carry a Complete Line of Cables, Cords and Belts for All Standard Receivers



Our Dials and Belts are made in accordance with the original manufacturers' specifications and are guaranteed to fit right.

Cat. No.	Set, Model and Type	Qty Price
5732	Amrad 84	25c
5231	Atwater-Kent, 35, 37, Left & Right	25c
6608	Atwater-Kent, 60, 61, Set of 2, Left & Right	40c
6609	Atwater-Kent, 30, Belts: Set of 2, Left & Right	20c
6611	Atwater-Kent, 65, Belts: Set of 2, Left & Right	20c
6604	Atwater-Kent, 44, Belts: Set of 2, Left & Right	40c
5234	Balkett Cable	25c
5229	Bosch Model 58a	25c
4200	Bosch Model 48a	25c
5729	Bosch 28	25c
5780	Bosch 68, 60	25c
6366	Bremer-Tully, 14, 21, Cord & Lug	14c
5230	Colonial 31, 32	30c
6367	Colonial 33, 34, 35, 37, Drive Cables, Set of 2	45c
6368	Columbia, All Nos., 2 Drive Cables & Spring	45c
5236	Crosley Band Model 40-B, 60-B, 804	25c
5237	Crosley Model 601-602-607	25c
5232	Emerson	37c
6369	Eveready, All Nos., Drive Cables	33c
4658	Freud-Elcmann Belts, Model N. R. 60	27c
5235	Freshman Model 2	37c
5233	First National	37c
4291	Globe SX4 Cable with Spring	25c
6364	Kellogg, Set of 2	45c
5584	Kolster, Heavy Cord & Beads on End	25c
6370	Kolster, 43, 44, Drive Cable	45c
5728	Majestic, 62, 60	30c
4279	Majestic Band Model, 70-71-72 and Comb	15c
6371	Peerless, All Nos., Drive Cable	27c
5731	Philco, All Models	25c
4270	R.C.A. 16, 17, 18, 33, Linnen	14c
4283	R.C.A. Dial Cable, Model 17-18-46-64-67	25c
5337	R.C.A. 64, 67 (very heavy phosphor bronze wire) complete with Connector	25c
6372	Spartan, All Nos., Drive Cables	42c
6373	Steinite, All Nos.	27c
6375	Sonora	27c
6805	Temple, 2 Drum Cables and Springs	45c

### Phosphor Bronze Dial Cable



Cat. No. 5288

**Our Price \$2.50**

Per 150 Ft. Spool

Cat. No. 4289—25 ft.	50c
Cat. No. 4286—50 ft.	90c

MAIL ORDERS TO  See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C. or to our nearest branch

### CORD SETS For All Electrical Appliances



Best grade asbestos heater cord, 2 pc. bakelite cap only.

No.	Type	Each	Doz.
3318	With cold mold plug, no switch..	\$0.17	\$1.80
3315	Same as above, plug and silk cord....	.40	4.45
3323	With Bakelite switch plug.....	.35	3.60

### BAKELITE Quadruple Table Tap



Compact, light and neat. Equipped with 6 ft. brown silk cord and bakelite handle cap. Makes four electrical outlets out of one.

Cat. No. 6584

**Our Price 45c ea.**

\$2.00 per box of 5

### Triple Outlet Cube Tap



Cord is of 3/18 silk parallel with inner braid approved by underwriters. General Electric attachment plug. Cap only. Monowatt cube tap.

Very handy for connecting one or more lamps, radio sets, etc., from the outlet.

Cat. No.	Length	Each	Dozen
3302	6 ft.	\$ .19	\$2.00
3340	9 ft.	.22	2.40
3352	12 ft.	.25	2.70
3353	15 ft.	.28	3.10
3358	20 ft.	.32	3.60

### Handy Extension Cord Sets

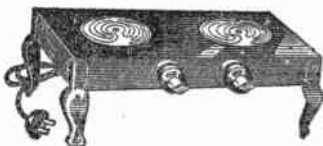
Heavy Silk Cord with inner braid. Beautiful Assorted Colors.



Approved Socket  
Approved Cord  
G. E. Bakelite Cap Only

Cat. No.	Length	Each	Dozen
3300	6 ft.	\$ .25	\$3.00
3324	9 ft.	.29	3.55
3325	12 ft.	.32	3.75
3316	15 ft.	.35	4.00
3301	20 ft.	.40	4.65

### Two-Burner Enameled Electric Stove



SINGLE HEAT			THREE HEAT		
Cat. No.	Finish	Price	Cat. No.	Finish	Price
381	Green	\$2.00	394	Blue	\$2.95
382	Blue	2.00	395	Green	2.95
384	Nickel	2.50	396	Nickel	3.35

A sturdy and useful Hotplate which will perform many of the every day cooking operations in the home. It has an open coil unit 6 in. in diameter, which fits 90% of all utensils. It heats quickly and provides a clean, sootless heat. Pressed steel construction. Polished nickel finish. Two open coil units, each unit 550 watts. Two single-heat, reversible switches. Complete with cord and plug. For 110-120 volts.

Connections concealed and protected—equipped with 6 ft. electric cord, and a two-piece attachment plug.

### Single Stove Without Switch

Colors:  
No. 402—Blue } \$7.20 dozen  
No. 403—Green }

### Commands Attention to Your Displays

Cat. No. 379

**\$2.75**

Complete with  
5 Assorted  
Color Films



SPOT LIGHTING is effectively employed to focus attention on a section or portion of a display to bring same out prominently.

Varied beautiful lighting effects may be procured by using spotlights with the colored gelatine screens of five assorted colors furnished with this outfit. Finds a ready sale in all retail stores, automobile show rooms, drug stores and should be used in every show window where you wish to have some article stand out. Built of heavy gauge aluminum with universal bracket and porcelain socket. Furnished complete with adjustable brackets and five assorted color films. SPOTLIGHTS will help eliminate daylight reflections in plateglass windows which are so annoying to merchants eager to compel attention to their window displays during the daytime as well as at night.

**We carry Voltage Dividers  
for over 200 standard receivers.  
See page 95 for complete list.**

### 6 L.B. DE LUXE HOUSEHOLD IRON

6 pound iron—beautifully designed and heavily nickel plated with bevel-edge sole plate, tip-up heel rest, black handle, complete with cord set. Half attachment plug. Imbedded type nichrome wire element, double strength terminal connections. 110 volts, 660 watts. One year guarantee.



Cat. No. 425 **\$1.15**  
\$6.50 per Carton of 6

### TOURIST IRON

2 3/4 pounds. Nickel plated, bevel-edge sole plate and black rubberized handle, with cord set and half plug. Porcelain element, tip-up heel rest. 110 volts, 375 watts.

Individual Carton. 13 to a Shipping Carton. Shipping Weight, 38 lbs.

Cat. No. 502 **95c ea.**  
\$10.50 per Carton of 12

### GOLD SEAL Automatic Water Heater

When Faucet is Turned On, Heating Element is Connected

When Turned Off, Current is Off, Also.

No Switches to Either With—Completely Automatic

Made of the Finest Materials

7 1/2 ft. Rubber Electric Cord  
Non-Breakable Rubber Plug  
Aluminum Case — Highly Polished  
GUARANTEED

Just slip over faucet and plug into nearest socket. Permanent installation in less than two minutes. Operates on 110-130 Volt A.C. Also made in 220 Volt at slight additional cost.

Cat. No. 6570 **\$2.25**



### A GUARANTEED Enameled Hot Plate

For 110 Volts

in Colors

Size of Stove:

10 1/2 in. diameter, 4 in. high  
Enamel in four different colors—black, blue, green and grey.

Each stove in an individual carton. 24 stoves to a standard shipping box. Made of heavy steel—'Genuine Nichrome Wire' elements imbedded in high grade porcelain bricks.

No. 587—Black — No. 404—Blue  
No. 407—Green — No. 406—Grey

**Our Price 79c ea.**



MAIL ORDERS TO   
See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C.  
or to our nearest branch

## COMPLETE AERIAL KITS

(We can supply Aerial Kits in quantities to your own specification.)

### Kit No. 4216

- 90 ft. 7/22 Stranded Copper Wire
- 50 ft. Rubber Covered Lead-in Wire
- 25 ft. Ground Wire.
- 1 Approved Lightning Arrester.
- 1 Copper Ground Clamp.
- 1 Lead-in Strip.
- 2 Glass Insulators.
- 2 Nailit Knob



**65c ea.; 10 for \$6.25**

### Kit No. 4217

- 90 ft. No. 7/28 Stranded Copper Aerial Wire
- 25 ft. R.C. Lead-in Wire
- 25 ft. Hook-up Wire
- 1 Copper Ground Clamp
- 1 Lead-in Strip
- 2 Glass Insulators
- 2 Nailit Knobs

**42c ea.; 10 for \$4.00**

### Kit No. 4220

Assembled to meet the demand for a real low priced kit, yet sufficient for the modern midget receiver.

Contents:

- 90 ft. 7/27 Stranded Copper Aerial Wire
- 25 ft. R.C. Lead-in Wire
- 1 Lead-in Strip
- 1 Ground Clamp
- 2 Nailit Knobs
- 2 Glass Insulators

**35c ea.; 10 for \$3.25**

## NEW GRIP-TITE GROUND CLAMP



Makes a real good connection on pipe up to 1 in. diameter.

Cat. No. 6046

**Our Price \$1.55**

Box of 50

## GLASS INSULATORS

3/8 in. length. Packed 100 to a box.

Cat. No. 2769

**\$3.00 per 100**



Smaller Quantities—4c Each

## Storage Battery Clamps



Non-Corrosive Heavy Duty In Boxes of Ten

Medium size, No. 64B  
Cat. No. 4261

**Per Box 60c**

Large size, No. 64  
Cat. No. 4278

**Per Box 85c**

## GROUND CLAMPS

(NON FARNESTOCK CLIP)



Cat. No. 4251

**25 for 75c**

**50 for \$1.16**

## GIANT

## Lightning Arrester

Cat. No. 4210 **15c**

**\$1.80 doz.**



Tested and Approved Radio Lightning Arrester, large type. Made from high tension, thoroughly vitrified porcelain, brown glazed. Expansion and contraction has no effect on the air gap of this arrester. Our arresters are so constructed that they may be installed indoors and out of doors.

## White Wiring Nails

Packed 100 to a box

Cat. No. 6658

**15c per 100**

**\$1.35**

**per 1000**



Wiring nails are ideal for fastening wire to baseboard when making extra electric outlets for the radio, lamps, etc. They are white colored to harmonize with the woodwork.

## Resistor Type Lightning Arrester



Transparent glass—all parts viable. Positive calibrated resistor.

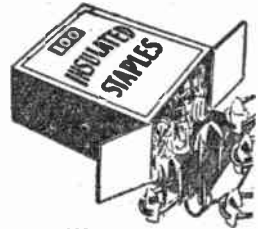
3 3/4 in. x 1 1/2 in. x 1 1/8 in.  
Packed in individual cartons with screws.

\$1.00. Guarantee card with each arrester.

Cat. No. 5298 **42c ea.**  
**\$3.75 dozen**

## INSULATED STAPLES

NATURAL FIBRE



**500 Staples 50c**

**1000 Staples 95c**

100 to a box

Cat. No. 4253

These staples also furnished with white or brown fibre to match indoor woodwork.

Cat. No. 6852—White

Cat. No. 6853—Brown

**\$1.60 per 1000**

## Jiffy Baseboard Wire Clips

Jiffy Wire Clips replace the old-fashioned double end tack for staple, or fastening insulated wires; and do a NEAT JOB for you INSTANTLY.



Your Radio Lead-in, inside Aerial, Telephone, and Lamp Wires are held by this device between trim and wall and cannot mar or damage your woodwork.

Cat. No. 3264

**50c per 100**

## INSULATED Window Lead-In



Cat. No. 4208

Entirely insulated and equipped with Farnestock Clips. Packed 50 to a carton.

**\$1.45 per box of 50**

## Lightning Arresters

Approved by fire Underwriters



Cat. No. 4209

**25 for**

**\$1.50**

## PORCELAIN Lead-In Anchor

Nickel plated fittings. Diameter 2 in. Ht. 2 1/4 in.

Cat. No. 5299

**Our Price 9c ea.**

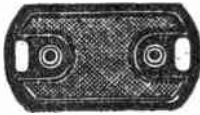
**25 for \$1.90**





**CORD CONNECTORS**

Cat. No. 4255



**6c ea.**

10 for 55c

**HYDROMETER**

PACKED IN NEAT DISPLAY BOXES



**LARGE SIZE**

ONE PIECE RUBBER BULB CLEAR READINGS ON FLOAT

Packed in Neat Display Boxes

**LARGE SIZE**

One piece rubber bulb's clear reading on float.

Cat. No. 4200 **25c ea.**

Extra Beaded Floats 10c ea.

Cat. No. 4203

**PORCELAIN Nailit Knobs**

Two-Piece

Cat. No. 2767



**\$1.00 per 100**



**3-In. Screw Eye Insulators**

Galvanized Screw

Cat. No. 2768

**\$2.00 per 100**

**SPRING AERIALS**



For Indoor and Outdoor Use  
Solid Brass, 75 ft.

Cat. No. 3657

**30c ea., \$3.50 doz.**

Copper-Plated, 75 ft.

Cat. No. 3658

**10c ea., 25 for \$2.25**

**SILK GRILL CLOTH**

Green and Gold  
Diameter, 11 in.  
For replacement  
in speakers  
and consoles



Cat. No. 6686

**Our Price 10c ea.**

**PORCELAIN Base Knife Switches**



Insulated handle  
Copper blades and  
contacts,  
Midget Size.

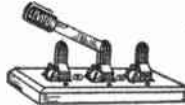
Cat. No. 4159

S. P. S. T. 95c Box of 10

Cat. No. 4177

S.P.D.T.

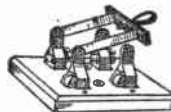
**\$1.60 Box of 10**



Cat. No. 4178

D.P.S.T.

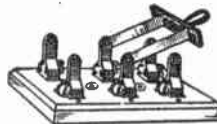
**\$2.00 Box of 10**



Cat. No. 4179

D.P.D.T.

**\$2.75 Box of 10**



**Radio Cartridge Fuses 1, 2, 3 and 5 Amp.**

Cat. No. 4206

**15c box of 5**

**\$2.75 per 100**



**Universal Dry Ribbon A Rubber Insulated**



Lead-In Strip

Cat. No. 6505

**\$1.75 Box of 25**

**DE JUR AUTOMATIC PHONE PLUG**



Cat. No. 4263

speaker or phone tips, simply insert them in the holes. No buttons to press, no screws to tighten.

**Our Price 15c ea.**

**UNIVERSAL Battery and Radio Clips**

Screw connections—no solder required. Channel construction throughout. Polarity indications. For positive, for negative.

Cat. No. 6485

No. 45—Pee Wee Cadmium Plated, 1 1/4 in. long.

**30c per box of 10**

Cat. No. 6486

No. 49B—Cadmium Plated, 1 1/4 in. long.

**35c per box of 10**

Cat. No. 6487

No. 24A—Lead Coated\*, 2 1/2 in. long.

**60c per box of 10**

Cat. No. 6488

**\$1.20 per box of 10**

No. 21A—Lead Coated\*, 3 1/2 in. long.

\*Lead finish protects the clip against acid.



**Grip-Tite Ground Clamp**

Cat. No. 4212

**Our Price \$1.75 for 50**

4c each



**PORCELAIN Screw Insulator**

Better than the ordinary aerial insulator because it can readily be attached to a pole, wall, roof, etc. Brown glazed porcelain, 3 1/2 in. overall, with a galvanized screw.

Cat. No. 6114

**7c ea., \$6.50 per 100**



**I. C. A. Double Phone Plug**



Moulded of brown bakelite and hardware is nickel plated brass. Takes two sets of phone cord which are held firmly in place by set screws. Individually boxed,

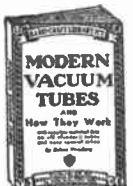
Cat. No. 6957 **30c**

**Modern Vacuum Tubes**

And How They Work

With Complete Technical Data on All Standard and Many Special Tubes

By ROBERT HERTZBERG  
Modern Vacuum Tubes describes the fundamental electron theory which is the basis of all vacuum tube operation, and goes progressively from the simplest two-element tubes right up to the latest pentodes and thyatrons. It is written in clear, simple language and is devoid of the mathematics which is usually so confusing.



Cat. No. 352

**50c**

MAIL ORDERS TO See Terms on Page 5.

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C. or to our nearest branch

**Two Piece Attachment  
Plugs  
Bakelite Plug  
Complete**

Cat. No. 3262  
Package of 25  
**\$1.00**  
Cap for Above  
Cat. No. 3266  
Package of 25  
**55c**



**Armored Cap Cat. No. 3268  
5c each**

**Bakelite Handle Cap**

Cat. No. 3260

**Our Price  
25 for \$1.00**



**Live Rubber, Cap, same as  
above, Cat. No. 3276  
10 for 50c**

**Round-Cord Connector**

Connector only, no cap.

Cat. No. 3338

**10 for 75c**  
Attachment Plugs for  
Same.

Cat. No. 3266

**10 for 25c**



**Bakelite Midget Cord  
Connector**

Smallest connec-  
tor made.  
For small motors,  
malted milk ma-  
chines, etc.



Cat. No. 3345

**\$1.60 box of 10**

**SPECIAL TWINLIGHT**

Cat. No. 3303

Box of 25

**\$1.75**

7 1/2c ea.

Here we offer what we consider and what our actual past experience has proven, the finest plug of its kind. Well made of the finest cold mold material used for this purpose. Absolutely guaranteed. Just figure the profit our low price gives you.



**Baseboard  
Outlets  
Unit Carton,  
20**

Cat. No.	Type	Carton Per of 20
3311	Composition .....	\$1.00
3312	Porcelain .....	1.00
3313	Bakelite .....	1.70
3314	Double Porcelain .....	1.95

**GENERAL ELECTRIC  
Flush Receptacle**

Provides an A.C. connection on any electrical appliance for standard attachment cap.



Cat. No. 6668

**10c ea.**

**3-WAY CUBE TAP**



A small, neat and compact 3-way plug with blades as shown to fit pin type receptacle. A very useful item for which there is always a big demand. It makes three outlets where there was one before.

Cat. No. 3329

**BAKELITE  
Box of 25..... \$1.75**

**Bakelite Side Outlet  
Pull Chain Socket**



Pull chain mechanism controls bottom light only. Slide outlet for iron or other appliance remains alive. A very handy kitchen accessory.

Cat. No. 3376

**Our Price 27c ea.  
\$2.30 per Display Box of 10**

**BAKELITE  
Twin Light Socket**



One-piece construction

Cat. No. 3335

**Our Price \$1.05  
Carton of 10**

**Bakelite Heater Plug**

Small and of exceedingly attractive appearance.



Cat. No. 3349

Unit Carton, 10

**Our Price 65c  
Box of 10**

**SPECIAL**

Bakelite Heater Plug with "On-Off" Switch

Cat. No. 3320

**\$1.95 Box of 10**

**Armored  
Heater Plug**

Cat. No. 3304

Unit Carton  
**10 for 80c**



**BAKELITE  
Feed Thru Switch**

Used as a make and break switch on any electrical appliance carrying up to 750 watt load. Unbreakable moulded case. Can also be used on electrical figures or as a pendant switch.



Cat. No. 3327

**15c ea., \$1.44 doz.**

**Twin Flasher**

Wonderful for Christmas Tree Lighting.

Cat. No. 3319



Made of genuine Bakelite. Has blades which can be inserted directly in receptacles. Has two outlets, both of which have a flashing mechanism.

**Our Price 19c ea.**


**Bakelite Current Tap**

One-piece construction with Uno Thread Unit carton, 10

Cat. No. 3334



**Our Price \$1.05  
Box of 10**

**MAIL ORDERS TO**   
**See Terms on Page 5**

**Federated Purchaser Inc.**

**25 PARK PLACE, N. Y. C.  
or to our nearest branch**

### Superior Electric Bell

2 1/2 Inch



Works on dry cells or bell-ringing transformer. Very sturdy construction and guaranteed.

Cat. No. 3257

**22c ea.**

### SUPERIOR Electric Buzzer

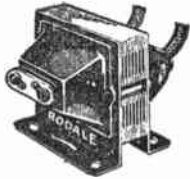
Works on dry cells or bell-ringing transformer. Same construction as the bell.



Cat. No. 3256

**21c ea.**

### BELL-RINGING Transformer



105-125V on Primary  
6-8 Volt Secondary

Cat. No. 3331

**Our Price 55c ea.**

### I.C.A. STATIC FILTER

The I. C. A. Static Filter is an accurate static filter and station eliminator. It cuts out all interfering stations and minimizes all static coming over the aerial. Easily attached. Individually boxed.



Cat. No. 6454

**Our Price 90c**

### General Electric Step-Down Auto Transformer

220-110 A.C., 275 Watt

Will deliver sufficient current for any large set, including radio-phonograph combinations. Also suitable for washing machines, vacuum cleaners, and other appliances drawing heavy current.



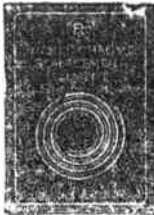
Cat. No. 6014

**\$2.75**

7 1/2 in. long; 4 in. wide; 3 1/2 in. tall. Weight, 12 lbs.

### NICHROME WIRE

On Card



Requires no further cutting. For repairing all electrical appliances.

One to the card.  
10 to the box.

Cat. No. 3337

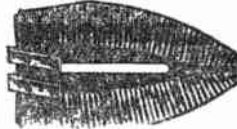
**Our Price 14c ea.**

Carton of 10, \$1.15

### UNIVERSAL Flatiron Element

For replacement in all 6-lb. irons.

Genuine Nichrome Ribbon Element



Cat. No. 3332

**Our Price 23c**

\$2.10 Carton of 10

### GLOWCOIL Heating Elements



Cone No. 3261

Straight No. 3275

**20c each**

Box of 10 \$1.80

Fits all screw type heaters. Best grade of coiled "Nichrome" wire used. 110-120 volts, 600 to 660 watts.

### Immersion Heater



This practical little appliance will heat water quickly, safely and economically in the home, office, barber shop, beauty parlor, dentists and doctors offices, etc. Simply plug into light socket and place the heater into the water. Instructions with each heater. Attractively packed.

Cat. No. 6489

**90c**

### CIGAR LIGHTER

UNIT ONLY

For replacing units that have burned out. This is the unit without the socket. Mounted on attractive display card.



Cat. No. 3336

**Our Price 12c ea.**

\$1.20 Carton of 10

### ELECTRIC FUSES



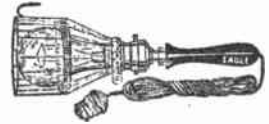
10, 15, 20, 25  
30 Amps.  
Clear Vision  
Top

Cat. No. 3307

**Our Price \$1.10**

Assortment of 50

### Portable Trouble Light



Equipped with heavy duty super-service cord. Full 60% rubber. Impervious to gasoline, oil and weather. Will last indefinitely.

Cat. No.	Length	Each	Dozen
3254	12 ft.	\$.60	\$7.00
3258	20 ft.	.85	9.75

### ALL-RUBBER Trouble Light



With Rubber Handle and Rubber Handle Cap. Packed one to the carton.

Cat. No.	Length	Price
3321	10 ft.	\$1.00
3322	20 ft.	1.10
5749	30 ft.	1.20

### Radio Frequency Choke



For Short and Long Wave Receivers

85 Mils. Fully shielded with 2 solder terminals and mounting screw. Dia. 1 1/4". Ht. 3/4".

Cat. No. 6752

**Our Price 25c Ea.**

# Handy Tools *for the* Radio Bench

## GOODSELL-PRATT TOOLS

### Ratchet Screwdriver Set



Cat. No. 5078

These tools can be used as automatic screwdrivers for driving screws, or the spirals can be locked for use as plain screwdrivers for either driving or drawing screws. They are simple in construction, but are strong and durable and will not get out of order.

### Our Price 95c

### Hand Drill



This tool represents an unusual value in a drill of 1/4-inch capacity. The frame is a little lighter than the preceding drills and no side handle is provided, and economies in finish have been made. Its performance is excellent.

Cat. No. 5077

**Our Price \$1.24**

### Steel Rule



Cat. No. 5082 **30c**

A very handy rule provided with a hole in one end for hanging up when not in use. It is made of tempered crucible steel nicely polished and graduated on one side in 8th and 32nd inches. Plain, deeply-etched graduation and large, clear figures.

### BENCH VISE

These bench vices are different in design and general appearance from any other small tools of this character. They are constructed to meet the demand for a small vise of better construction than those which have previously been made.



Cat. No. 5080 **\$2.05**

### Screwdriver



Crucial screwdriver, carefully manufactured from the best materials obtainable for the purpose and finished in keeping. This screwdriver is particularly useful in servicing Atwater-Kent, 8 1/2-inch blade.

Cat. No. 5083 **40c**

### Scriber



This scriber is made of a fine grade ground steel with a beautiful tapered point that is carefully tempered, ground and polished. The body is finely knurled and 5/32-inch in diameter.

Cat. No. 5084 **21c**

### Automatic Drill

Cat. No. 5081

This new tool is built for the home to provide a highly efficient drill at a very reasonable price.

It drills eight different size holes quickly and with surprising ease in hard and soft wood, soft metals, wall board, plaster, etc. The eight drill points are contained in the numbered compartments in the magazine handle made of shiny, jet black, molded bakelite. They are safely locked in until wanted.

The exposed metal parts are beautifully polished and nickel plated. The spiral driving mechanism is very well made and is practically indestructible with proper lubrication.

Eight fluted shank drill points, 1-16-inch to 11-64-inch in diameter, are furnished with each drill.

Length 9 3/4 inches. Weight 6 ounces.

**Our Price \$1.25**

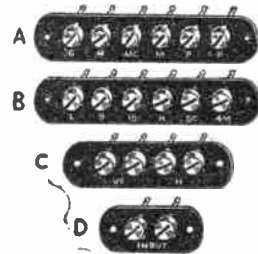
### Radio Socket Wrench Set

A finely-manufactured and finished set for tightening and loosening the small hexagon nuts and thumb screws encountered in radio construction and repair.

Four sockets are furnished: One each for hexagon nuts measuring 3/8, 5/16 and 1/4-inch between flats, and a four-jawed socket for handling knurled thumb screws such as found on dry cells, etc. The sockets are deeply drilled to accommodate screws and the hexagon portion accurately broached to a size. The sockets are steel, well case-hardened.

Cat. No. 5079 **85c**

### Terminal Strips for Mixing Panels and Amplifiers



Bakelite strips with specially designed nickel plated phosphor bronze screw terminals with "can't slip" collars. Find many applications in radio and public address work.

Strip A—6 post input strip for microphone and phonograph pickup and ground. Marked G, M, Mc, P, P.

Cat. No. 7148 **50c**

Strip B—6 post output strip for voice coil, 600 ohm line and 400 ohms. Marked L, 9, 15, H, 5C, 4M.

Cat. No. 7149 **50c**

Strip C—4 post output strip for voice coil and high impedance. Marked VC, H.

Cat. No. 7150 **35c**

Strip D—2 post input strip marked input.

Cat. No. 7151 **25c**

Strip E—(Not illustrated)—2 post output strip (same size as strip D) marked output.

Cat. No. 7152 **25c**

### Right Angle Ratchet Screwdriver

Cat. No. 6480



Weight, 3 ounces

**Our Price 65c**

There are innumerable places around automotive, electrical and radio equipment where this little unique screw driver will perform quickly and easily where an ordinary screw driver cannot be used. The ratchet mechanism is entirely enclosed in the head, thru which runs a square socket to hold the bit. The bit is 1/4-in. wide, 1/2-in. long, and has a square shank with a spring retainer to hold it firmly in the square ratchet socket. Tool is 4 inches long overall. The handle and head are finished in red and black enamel and all exposed parts are nicely polished. Packed one in box, 12 to a display carton.

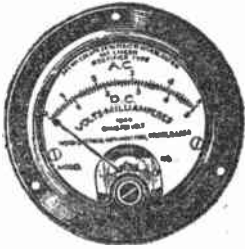
### Screw-Holding Screw Driver



Cat. No. 4166, 8 in. .... **85c each**

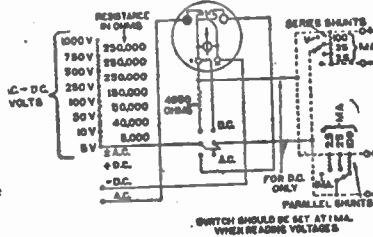
# WESTON RADIO INSTRUMENTS

## 3 1/4 Inch Panel Instruments



**Model 301**  
**Universal A.C.-D.C. Meter**  
 Cat. No. 321

Our Net Price  
**\$13.97**



Designed for the serviceman who desires to build a multi-range instrument to fill his particular testing requirements. It is for use with external shunts and external resistances for measuring D.C. voltages and currents and A.C. voltages.

The instrument is of the permanent magnet moving coil type with a self-contained copper oxide rectifier for the A.C. measurements. It is self-contained for 5 volts and 1 milliamper A.C. and 50 millivolts and 1 milliamper D.C. It has a double scale—one for A.C. and the other for D.C., each calibrated 0-5 volts.

A connection diagram giving suggested ranges is shown below, however the instrument, shunts and resistances may be purchased separately and the meter built up for any range desired.

This high grade matched line of meters offers an exceptionally wide range selection in D.C., A.C. and Thermo-Couple type instruments. Because of their inimitable Weston design and workmanship they are extensively used throughout the entire world on radio panels and in the allied electrical industries. Ordinarily they are supplied in flush type but can also be furnished in surface type, if desired. These meters may be specified with Bakelite cases at no additional charge.

**D.C. INSTRUMENTS—MODEL 301.—**Permanent magnet moving coil type. Accuracy within 2%. They are supplied as Voltmeters, Volt-Ohmmeters, Ammeters, Milliammeters and Microammeters. Weight approximately 8 ounces.

**A.C. INSTRUMENTS—MODEL 301 RECTIFIER TYPE.—**Extremely high sensitivity A.C. instruments are obtained by using a full-wire copper oxide rectifier in conjunction with a standard Model 301 D.C. movement. They have the excellent damping, even scale characteristics and high over-load capacities of the D.C. instruments.

Temperature errors at ordinary room

Model 301 D.C. Voltmeters	Net Price
1, 1 1/2, 2, 3, 5, 10, 15, 25, 50 and 100 Volts	\$5.88
150	7.35
250	8.09
500	11.76

Model 301 Volt-Ohmmeter	Resistance	Net Price
4.5 Ohm Scale	0-100,000 Ohms per volt	\$8.82
15 Ohm Scale	0-500,000 Ohms per volt	8.82

Model D.C. Ammeters	Net Price
1, 1 1/2, 3, 5, 10, 20, 30, 50 Amperes (have a drop of +5%)	\$5.88

Model 31 D.C. Voltmeters Resistance 1000 Ohms per Volt	Net Price
5, 10, 25, 50, 100	\$8.82
150, 200, 250	10.66
500	12.87
750	15.38
1000	19.20

temperatures and frequency errors over the power frequency range of 25 to 133 cycles are negligible. Frequency errors on higher frequencies up to 35,000 cycles may be corrected for as the instrument indications decrease approximately 1/2 of 1% for each thousand cycles per second.

**MODEL 425 A.C. AND D.C. INSTRUMENTS.—**These instruments are of the thermocouple type. The ammeters are for use on D.C. and on A.C. of any frequency. The milliammeters and Thermo-Galvanometer are for use on A.C. only. They may also be used on any frequency without impairing their accuracy. These instruments are accurate with 2%. Approximate weight 6 ounces.

**MODEL 476 A.C. INSTRUMENTS.—**Movable iron type for A.C. only. Supplied as Voltmeters, Ammeters and Milliammeters. They are accurate within 2%.

**MODEL 476 CONDENSER METERS.—**These meters are calibrated to read the capacity of condensers direct in microfarads. They are of the movable iron type and are accurate within 3% when used on the voltage for which they are adjusted.

Model 301 D.C. Milliammeters	Net Price
1, 1 1/2, 2, 3	\$7.00
5, 10, 25, 50, 100, 500, 1000	8.88

### Rectifier Type— Model 301 Voltmeters 1000 Ohms per Volt

Range	Net Price
2, 5, 15	\$10.20
50, 100, 150	11.03
300	14.09

### 2000 Ohms per Volt

1, 1 1/2, 3, 5, 15	11.03
50	12.86
100	13.60

### Rectifier Type

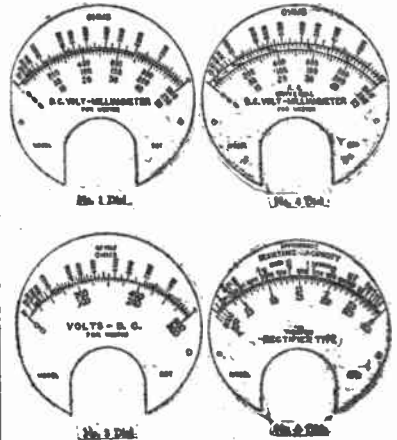
301 Milliammeters	Net Price
1, 2, 5	\$0.20

### Model 425 Ammeters

Range	Net Price
1, 1 1/2, 2, 5, 10, 20	\$0.93

(Continued on next column)

## Meter Dials



### Type D1 Cat. No. 6799

For the 1 mil D.C. with 27 ohm internal resistance (27 milli-volt). Has three scale readings and an ohm scale 0 to 100,000 using a 4 1/2 volt battery.

### Type D2 Cat. No. 6800

Same as D1 except for the lower scales.

### Type D3 Cat. No. 6801

For the 1 mil. A.C. Rectified (not the universal). This dial has two scales for A.C. volts from which many can be made by adding imaginary zeros, 5,000 to 1 meg. A.C. ohms, capacity range .0004 to 7 microfarads. Uses current supply from 115 V. 60 cy. line. Hookup furnished.

### Type D4 Cat. No. 6802

A special arrangement to allow the reading of many ranges of A.C. voltage and current and D.C. voltage and current from only one set of numerical figures, the scale in the center being for A.C. The main A.C. scale divisions connect to the D.C. divisions of the same value. At the top is a 0 to 100,000 D.C. scale using a 4 1/2 V. battery. By using a 10 mil. shunt across the meter and readjusting the circuit resistance, a 0 to 100,000 ohm scale will result.

### Our Price for All Types 45c each

Dials are of extra heavy Bristol board. When mounted on the back of your original dial, will compare to those of larger and finer meters.

(Continued from preceding column)

Model 425 Milliammeters	Net Price
120, 250, 500	\$11.03

Model 476 A.C. Voltmeters	Net Price
1 1/2, 2, 5, 10, 25, 50, 100	\$5.88
150	7.35
250, 300	8.82
500	11.76

Model 476 Condenser Meter	Net Price
15, 1.5	\$22.05

Model 476 A.C. Ammeters	Net Price
1, 1 1/2, 2, 5, 10, 20	\$5.88
30, 50	7.35

Model 476 Milliammeters	Net Price
15, 25, 50, 100, 250, 500	\$3.88

Note:—We are authorized distributors for and carry a complete line of Weston and Jewell instruments. Only a few popular numbers are listed here. A complete catalog will be sent free on request.

MAIL ORDERS TO See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C.  
 or to our nearest branch

## THE FAMOUS JEWELL

### Trio Panel Mounting Instruments



The Jewell Trio of radio instruments is popular for building special test panels and service instruments for use on experimental laboratory apparatus, and in amateur transmitting. Patterns 88, 63 and 76 comprise a new series of instruments available in flush type bakelite cases that duplicate the old Patterns 54, 64 and 74 in metal cases.

Patterns 88, 68 and 78 are furnished for mounting in cases of molded bakelite. Flange diameter, 3 1/2 in. case diameter, 3 3/4 in. Approximate shipping weight 3 lbs.

When ordering Jewell meters, please note that types Nos. 54, 64 and 74 have metal cases. Specify which type you desire. Externally adjustable, the pointer or needle can be exactly placed in the zero position which may vary slightly owing to normal changes in temperature.

### Pattern 88 (Bakelite) D.C. Instruments

High range instruments are supplied with external resistors, having molded bakelite heads which are amply large to take care of various requirements. These instruments are not recommended for testing the voltage of B power supply.

Cat. No.	Range	List Price	Our Price
514	0-3, 10, 15, 30, 50 volts..	\$7.50	\$5.51
515	0-150 volts .....	9.50	6.98
516	0-300 volts .....	12.00	8.82
454	0-500 volts .....	15.50	11.30
455	0-500 volts .....	19.00	18.97
519	0-1000 volts .....	22.50	16.54
457	0-1500 volts .....	28.50	19.96
458	0-2000 volts .....	34.50	25.55
459	0-3, 5, 10, 15, 25, 50, 100, 150, 200, 250, 300, 500 milliamperes .....	7.50	5.51
460	0-1 milliamperes .....	9.00	6.61
461	0-1.5 milliamperes .....	9.00	6.61
463	0-200, 300, 500 microamperes .....	24.00	17.64
464	0-1, 1.5, 2, 3, 5, 10 and 15 amperes .....	7.50	5.51
465	50-0-50 galvanometer .....	9.00	6.61

The above meters can also be furnished with metal cases, 3 3/4 in. flange, 3 in. case at same prices. Specify Type 64 for metal.

## JEWELL

### Pattern 88 Rectifier Type A.C. Instrument

The pattern 88 consists of a sensitive Jewell D'Arsonval direct current instrument used in conjunction with a self-contained full wave copper oxide rectifier unit.

#### Milliammeters

Cat. No.	Range	Net Price
478	1	\$9.39
479	1.5	9.39
480	2	9.39
481	5	9.39
482	0-500 Microammeter	10.88

#### Voltmeters

Cat. No.	Range	Net Price
483	5	\$10.50
484	15	10.50
485	25	11.25

These voltmeters also supplied 2000 ohms per volt at \$1.68 additional.

## JEWELL

### Pattern 68 Radio Frequency Instruments

#### PATTERN 68 RADIO FREQUENCY INSTRUMENT

Pattern 68 furnished in bakelite cases, flush type only. Flange diameter, 3 1/2 in., Case diameter, 2 3/4 in. Approximate shipping weight, 3 lbs.

Cat. No.	Range	List Price	Our Price
466	0-5, 1, 1.5, 2, 2.5, 3, 5, 10, 15 amperes.....	\$13.35	\$9.90
467	0-100 galvanometer .....	15.00	11.02



### Jewell Pattern 444 Analyzer



Complete with accessories; data book and pad of tube charts

Cat. No. 315

## Our Price \$82.32

Jewell's Newest Set Tester and Analyzer, tests all types of tubes including triodes, pentodes and tetrodes, and both plates of a 230 rectifier tube without the use of adapter.

This new Jewell Analyzer is the most complete radio service instrument ever built.

Its compact, rugged construction makes it easy to carry and enables it to stand up under the hardships of service work, and its professional appearance gives prestige to the radio service man. This new Jewell Set Analyzer and Tube Checker marks a big step forward in Radio Testing Equipment. With it practically every test can be made with a degree of accuracy never before attained. It incorporates features not found on any other type of radio set tester.

The Pattern No. 444 tests every circuit in any receiver, regardless of the type of tubes used. Full wave rectifier, variable-mu, output pentode, and pentodes having a direct connected fifth element, may be accurately tested under actual operating conditions.

A.C. and D.C. circuit tests are controlled by separate rotary selector switches making it necessary to set only one switch to obtain any desired test.

The following measuring ranges are provided: A.C.: 0-4-3 amperes; 0-20-100 milliamperes; 0-4-8-160-800 volts. D.C.: 0-12-60-120 milliamperes; 0-6-12-30-60-120-300-600 volts; 0-1000-100,000 ohms; and low-medium-high output ranges.

### Pattern 209 Checker

#### Tests Screen-Grid Tubes

For radio dealers who require an accurate and effective tube checker at a moderate price. Operates on a 50-60 cycle, 110-120 volt A.C. Needs no batteries. Has a D.C. meter with six tube sockets in a case of molded bakelite. The sockets provide filament voltages of 1.5, 2.5, 3.3, 5 and 7.5 to 4-prong sockets, and 2.5 to a 5-prong socket. Terminals are provided for tubes with terminals at the top.

Makes all tests. Correct values of readings are given in an engraved chart on the face of the tube checker.

Cat. No. 314 **\$22.05**



## JEWELL Pattern 78 A.C. Instruments

### PATTERN 78 A. C. INSTRUMENTS

Cat. No.	Range	List Price	Our Price
468	0-3, 5, 10, 15, 30 and 30 volts .....	\$7.50	\$5.51
469	0-150 volts .....	9.50	6.98
470	0-300 volts .....	12.00	8.82
471	0-3-5-150 Triple Range volts .....	13.00	9.98
473	0-25, 50, 100, 200, 300, 500 milliamperes .....	7.50	5.51
478	0-1, 2, 3, 5, 10, 15 amperes .....	7.50	5.51

The above meters can also be furnished in metal cases 3 3/4 in. flange, 3 in. case, at same prices. Specify Type 64 instead of 68 and 74 instead of 78 for metal.

## JEWELL

### Pattern 89 Ohmmeter-- Pattern 89 Voltmeter



For the radio serviceman who relies upon resistance, continuity, and independent voltage tests the Pattern 89 Ohmmeter and the Pattern 89 Voltmeter provide a combination that is unequalled for convenience, accuracy and speed in testing by any other equipment of comparable price.

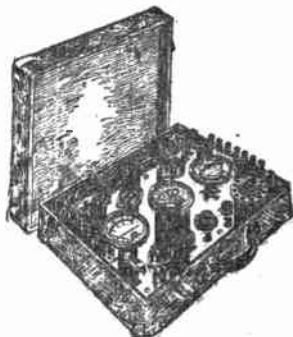
These instruments are mounted in cases of molded bakelite with suitable terminals, as illustrated.

A 1 1/2-volt cell, mounted inside the case of the Pattern 89 Ohmmeter makes it independent of outside sources of energy. A magnetic shunt provides convenient adjustment to compensate for variations in cell voltage. Since this adjustment may be made before each series of tests, very accurate direct resistance readings are assured.

Approximate shipping weight, 3 lbs.

Cat. No.	Type	List Price	Our Price
509	Pat. 98 Ohmmeter, with either 0-1000, 0-3000, 0-10,000 or 0-30,000 ohm ranges, including battery and test .....	\$16.50	\$12.19
510	0-100,000 ohms .....	19.50	14.34
512	0-5,000-50,000 ohms (double scale) .....	19.50	14.34
<b>PAT. NO. 89 VOLTMETER</b>			
513	0-30-300-600 volts (triple range), 1000 ohms per volt, with test leads....	25.00	18.75

## WESTON Model 565 Type 5 Radio Set Tester



A 3-Meter test set having an oscillator, a checker for A.C.-D.C. tubes and a complete radio set tester for all types of A.C.-D.C. sets. Checks pentodes without adapters.

### SERVICING SCOPE OF WESTON

#### MODEL 565

Tests With Tester Plug Inserted in Radio Set

All Filament Voltages . . . All Heater Voltages . . . Cathode Voltages . . . Four Bias Voltages . . . Two Control Grid Voltages . . . Two Plate Voltages . . . Three Plate Current Ranges . . . Bias Voltage on D.C. Sets with Reversed Filaments . . . Convenient Readings of both Plates of Rectifier Tubes . . . Two Screen Current Ranges . . . Space Charge Grid Volts on 250-volt range . . . Charge Grid Current on 25 M.A. range.

External Tests that can be made with Model 505

Measurement of Power Transformer up to 1,000 Volts A.C.  
Line Voltage Measurements on the A.C. Meter.

Heater Voltage at Power Pack—Three Ranges on D.C. Milliammeter.  
Plate Current at "B" Supply Taps—Three Ranges on D.C. Milliammeter.

"B" Supply at Power Pack—Four Ranges on D.C. Voltmeter.

"A", "B" and "C" Battery Voltages—Six Ranges on D.C. Voltmeter.

Continuity Tests—Using Self-contained 4½ Volt Battery and the D.C. Voltmeter with a resistance of either 100 Ohms per Volt as desired.

Resistance Measurements—The D.C. Voltmeter also serves as a Direct Reading Ohmmeter with ranges of 0-10,000 or 0-100,000 Ohms.

Condenser Measurements can be made from ¼ to 6 Microfarads—from 110 Volts A.C. line without resistors or adapters.

Tube Checker—For all Filament and Heater Type Tubes—Checker operates directly from any 50 to 60 Cycle, 90 to 130 Volt A.C. Line.

Input to Radio Set—On 4 or 8 Ampere A.C. Range and Small A.C. Measurements such as Currents in Voice Coil of Speaker, etc., using the A. C. 100 MA Range.

Filament or Heater Current of A. C. Tubes on 4 Ampere A. C. Ammeter.

R. F. Oscillator—Three Frequencies—For Neutralizing and Synchronizing and Testing Radio Sets when no broadcast signal is available (Grid Dip Meter.)

#### SERVICE MANUAL

A complete Service Manual comes with every Model 565—Type 5. It tells the probable causes of poor reception, how to locate them and what to do to fix them. It is more than an instruction book. It is a practical service man's handbook.

Cat. No. 320

**Our Net Price \$137.82**

## JEWELL Pattern 540 Portable Tube Seller



Dealers are using tube testing in homes to increase tube sales and to locate new set prospects. The Jewell Pattern 540 Portable Tube-Seller is ideal for this service, because a three color scale similar to the scale of the famous Pattern 588 is provided. This scale reads tube condition direct in terms of Satisfactory, Doubtful, and Unsatisfactory.

The salesman who shows the definite method in which the Pattern 540 reads tube condition secures admission into the most skeptical homes, because radio set owners really do want to know the condition of their tubes.

Gives direct reading for all types of tubes, including variable-mu and standard type screen grid, full-wave rectifier, and output pentode tubes with special adapter.

Operation is for 110 volt A.C. line, making tube tests entirely independent of the receiver. The true condition of the tube is read directly from a single meter; the reading of two values and the subtraction of one from the other is eliminated.

Line voltage indicating meter and adjustment compensate for fluctuations of line voltage from 105 to 125 volts. Lights in series with the short-check sockets indicate which element of the tube is shorted.

List Price \$75.00\*\*

Cat. No. 322

**Our Price \$54.15**

## Copper Oxide Rectifier

For D. C. Meter Conversion

Size, ½ in. x ½ in.



Make a Rectifier Type Meter from your present 0-1 D.C. milliammeter by using this rectifier. This will make an A. C. voltmeter up to 1,000 volts by the use of multipliers, which can be obtained from us. Rectifier is small enough to install in meter, if desired. Curve and diagram furnished.

Cat. No. 6675

**Our Price \$2.95**

## READRITE Portable Type Voltmeters



Readrite portable meters are offered in various ranges for particular purposes. The A.C. Voltmeters are of the repulsion type and can be used with equal accuracy for either A.C. or D.C. testing. This type should

not be confused with the ordinary vane type instrument with its restricted applications. Readrite A.C. Voltmeters are accurately calibrated and have very uniform divisions throughout the scale lengths. The higher reading voltmeters contain over 100 ohms per volt resistance. The D.C. Voltmeters are of the polarized vane type. Standard package portable meters 25. Average weight 20 lbs.

### D.C. VOLTMETERS

Description

With 3 in. Case

Cat. No.	List Price	Our Price
5381 Type 346, for testing "B" Eliminators—0-300 V...	\$4.00	\$2.40
5382 Type 347, for testing "B" Eliminators—0-500 V...	8.00	8.00

With 2½ in. Base

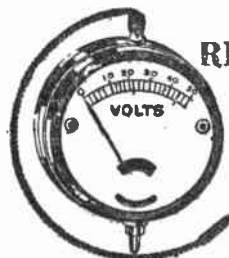
5383 Type 349—0-300 Volts...	3.00	1.80
5384 Type 246P—0-60-300 Volts, 92,640 Ohms .....	8.00	8.00

### A.C.-D.C. VOLTMETERS

Cat. No.	List Price	Our Price
5385 For testing A.O. Current Supply Line—0-150 Volts—Type 348 .....	\$4.00	\$2.40
6567 Type 355P—0-10-140 Volts A.C. ....	4.00	2.40
5386 0-600 Volts A.C.-D.C. ....	6.00	3.60
5387 0-150-750 Volts A.C.-D.C. ....	8.00	4.80
5388 0-300 Volts A.C.-D.C. ....	5.00	3.00
5390 0-60-300 Volts (300 Ohms per Volt) .....	4.50	2.70
5391 Type 249—0-750 V. A.C., Panel Mount .....	7.00	4.20
5392 0-300 D.C. Milliammeter (.8 Ohm), Panel Mount—Type 399 .....	1.00	.60
5393 0-50 V. UX Socket Testing Grid Voltmeter (15,400 Ohms) — Type 150 .....	3.00	1.80
5394 0-10 V. Filament Meter for UX Sockets (100 Ohms)—Type 152 .....	2.50	1.50

## READRITE

Pocket Meters



Cat. No.	Type	Each	Box of 10
3560	0-50 V.	\$0.40	\$3.80
3575	0-50 V.		
	0-50 A.	.60	5.50
3579	0-10 V.	.40	4.20

All set analyzers are shipped in original factory sealed cartons. Repairs and adjustments must be taken up with factory.

# The New Readrite

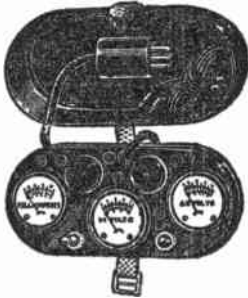
Model 245



**Pentode Tester and Carrying Case**

Cat. No. 245

For A.C.-D.C. and Screen Grid Tubes



**Our Price \$11.76**

Tests Screen Grid Tubes

This tester is especially designed for the new sets with 224 and 245 tubes. It is equipped with three double reading instruments; a milliammeter 0-20-100, a D.C. coil-meter 0-60-300, and repulsion type A.C.-D.C. voltmeter 0-10-140. This latter instrument should not be confused with the vane type, with its restricted application. A grid bias switch is provided.

Extra cords and tip jack connections permit the use of each meter individually. Also checks line voltage. Very compact and complete.

The extra cords are carried in the metal cover, which has a leather handle. Size 4x8 1/2 x 3 1/4 in. high. Cover finished in baked black enamel, wrinkle finish.

## Readrite Output A.C. Voltmeter

Copper-oxide Rectifier Type

A reliable instrument for indicating output voltage of a radio set. Used for lining up r.f. and i.f. stages by determining maximum gain. Also comparing gain of tubes, r.f. tuner selectivity, aum, and fading. A practical, low priced d.c. voltmeter with copper-oxide rectifier of the full wave type. Model No. 555 is same assembly as used on No. 550 oscillator. For convenience the portable instrument Model No. 575 has been designed. Test leads are furnished with Model No. 575. Case is baked enamel over seamless steel 4 1/2" dia. The assembly includes voltmeter, rectifier, jacks and condenser. Connect low voltage (0-5) jacks to dynamic speaker voice coil, and high voltage (0-50) jacks to magnetic speaker terminals.



CASE TYPE

Cat. No. 486

List Price \$6.00

**\$3.53**

PANEL TYPE

Cat. No. 487

List Price \$5.00

**\$2.94**



## Readrite Customer Tube Tester No. 430

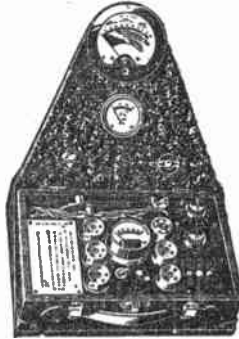
**\$23.52**

NET TO DEALER

Complete with No. 407 Tube and Short Tester

**\$41.36**

NET TO DEALER



The No. 430 Display Case is designed for use in connection with No. 406 or No. 407 Counter Tube Testers. The metal Display Case contains a color chart precision meter for direct reading of tubes and batteries. An A. C. Voltmeter with rheostat controls the line voltage. An ON and OFF toggle switch, tip jacks, and outlet receptacle complete the equipment of the No. 430 Display Case.

The No. 407 Tube and Short Tester is plugged into the receptacle and the tip jacks. The meter on this tester is then used for short testing of all tubes under operating conditions. The tester can be lifted out of the Display Case and used for portable testing as a separate instrument. The Display Case contains a convenient meter which the customer can observe and readily understand. It is beautifully finished in baked enamel. It is 10" high, and the base is 15 x 11".

This Customer Display Tester will not only increase your tube sales, but will add that customer satisfaction every dealer strives to obtain and hold. At the low price, no dealer can afford to be without this complete visible customer tube tester, which will add as much prestige to his tube testing equipment as the more elaborate testers at much higher cost.

The No. 407 is designed to take care of all the tubes, including the new six prong type, testing them without the use of adapters. It is the only tester on the market which tests rectifier tubes by the plate current change method.

## Household Utility Tester



List Price \$22.50

No. 800 Complete

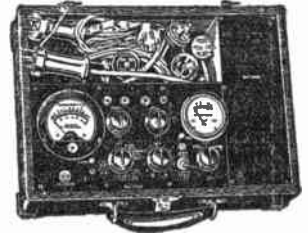
**Net \$13.23**

For servicing electrically operated refrigerators, ironing machines, water pumps, oil burners, stokers, ventilating systems, ranges and general household appliances.

Contains input and output amperes, A. C. Ammeter reading up to 20 amps., A. C. Voltmeter reading up to 300 volts, and a complete direct reading Ohmmeter 0-40, 0-10,000 ohms for continuity testing.

## READRITE Continuity and Capacity Tester No. 1000

For Set Analyzing, Testing Resistance and Capacity



The Modern Set Analyzer. Contains Ohmmeter 0-6,000,000 ohms, and Capacity Meter, .008 to 10 mfd., both direct reading. A unique and exclusive circuit is employed, providing a new method of set analysis. No serviceman will fail to recognize its superiority and outstanding advantages. Every serviceman needs this instrument to properly test modern receiving sets.

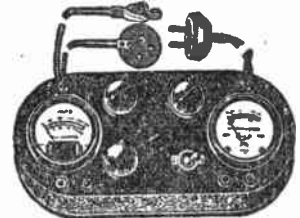
The No. 1000 Tester combines the very latest method into one instrument for testing resistances, continuity and capacity of radio receiving sets. The 3 1/4" D. C. precision meter has full scale deflection of one m. a. The lower scale is divided into kilohms, .003 to 3. This scale arrangement makes easy reading, and resistance tests are quickly made with extreme accuracy. Provision is made for increasing each scale reading by a multiple of two, and also for dividing the lower scale by 10, thereby giving good scale divisions of resistance measurements from 0 to 6 million ohms. The A. C. meter is calibrated for reading directly in microfarads. The lower scale reading is .008 to .25. The upper scale reading is .1 to 10 mfd. The instrument is calibrated for use on 60 cycle at 110 volts. The rheostat regulates the correct voltage to be applied.

Cat. No. 1000

List Price \$55.00

**\$32.34** NET TO DEALER

## Something New for Testing Condensers Electrolytic—Paper Types



No. 850 Capacity Tester contains one D.C. and one A.C. meter. Reads directly the capacity of condensers. The A.C. meter connects to A.C. supply line and adjusts to 100 volts. Tests paper type condensers .008 to 10 mfd. The D.C. voltmeter connects to rectifier tube and adjusts to 300 volts. Selector switch provides for measuring voltage, also forming and testing milliamperage capacity of electrolytic condensers. The maximum reading for a good electrolytic condenser is 2 m.a. per mfd. in a seamless metal case, with or without cover. A very practical and convenient instrument.

Cat. No. 850

**\$8.82**

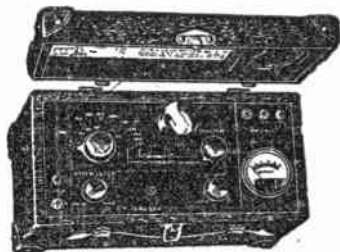
Same as above for testing paper type condensers only. In a seamless metal case, 4 1/4 in. dia., baked enamel finish.

Cat. No. 800

**\$5.49**



**NEW!**  
**Readrite Oscillator**



A necessary servicing oscillator for adjusting r. f. and i. f. circuits.

Used to align r.f. gang condensers, locate defective r.f. transformers, adjust i.f. transformers, check oscillator stage and determine sensitivity of a receiver. A modulated instrument which covers the broadcast band 550-15,000 k.c. and the intermediate circuit made with trimmer condenser through panel.

Furnished with 22½ v. and 3 v. batteries. One 30 tube is used. Cable is carried in the removable cover. Full operating instructions and wiring diagram included.

Built to a high standard. All parts are sturdy and strongly built to remain permanently accurate. A modern instrument for all old and new sets.

toLETAOINTaoinshrdiue

In leatherette case, 6x12x15 in. Weight, 8 lbs.

**Complete Less Output Meter**

List Price, \$30.00

Cat. No. 550

**Our Price \$17.64**

**Complete With Output Meter**

List Price, \$35.00

Cat. No. 551

**Our Price \$20.58**

**READRITE**  
**Resistance Meter**

No. 501 Resistance meter is used in above ohmmeter. Finished either with wide flange as shown or narrow rim type for rear clamping. A thoroughly reliable instrument at a popular price. Requires three small flashlight cells, which with resistances to be measured, are connected in series with meter. Used for testing resistances in radio receiving sets, and circuits generally. Mine for continuity tests.

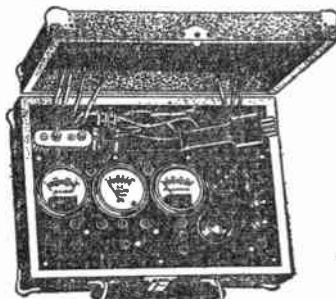


Cat. No. 5389

List Price, \$2.50

**Our Price \$1.47**

**PENTODE**  
**Set Testing Reduced to Simplicity**  
**Equipped with 6 Prong Tube Adapter**



List Price \$25.00

Cat. No. 710

**Our Price \$14.70**

These three meter analyzers are equipped with a practical selector switch for checking all parts of the tube circuits by connecting to the set sockets. Selection for testing voltage of plate, grid, cathode and screen-grid is done quickly and accurately. Plate current, filament volts, also line and power supply volts are measured. The grid swing test for tubes is used. Just push one button for screen-grid and another for other tubes. Makes testing of all type tubes simple and thorough. A 4½-volt grid battery is furnished. The battery is used for the grid test and also continuity testing of transformers, chokes, etc. Capacity and resistance charts are furnished showing use of instruments for testing condensers, also measuring resistances up to 100,000 ohms. The eight scale readings of the meters may be used separately with the jack terminals provided. The scale readings are 0-60-300-600 D. C. volts, 0-10-140-700 A. C. volts and 0-20-100 milliamperes. Both A. C. and D. C. filament voltages are accurately measured on the one meter. Housed in a strong case with leatherette covering. Attractive. Compact. Complete. Fills every need for the expert serviceman or the beginner for radio set analyzing. Size 10½x7x7½.

The No. 600 contains the same equipment as No. 700. The carrying case is largest with leatherette covering and equipped with lock. Rooms is provided for carrying tubes, tools and supplies. The test equipment and panel is in a removable tray in the top of the case. The tray equipment may be used separately as a complete test panel for shop purposes. Size: 14½x7x7½.

Cat. No. 610

List Price \$30.00

**Our Price \$17.64**

*We carry a complete line of "Readrite" Analyzers, Tube Testers and Meters. Our discount is 40-2% from list prices.*

**READRITE**  
**Counter Tube Testers**

Models 406—407

Test all Tubes Without Adapters

Connect to A. C. Supply Line Illuminated Dial



Cat. No. 406

List Price \$25.00

**Our Price \$14.70**

Dealers and servicemen use the No. 406 Tester for checking all new and old tubes used in receiving sets. Test card attached to panel gives simple instructions. Anyone can operate. A single push button provides two plate current readings for determining the conductance and worth of a tube. A new and outstanding feature applies the same test to rectifier as all other types of tubes. A separate push button provides for testing both plates of '80 type tubes.

The simplified single scale meter is made possible by the wide change in readings. The meter is connected in tip jacks. Attached to the meter is a small protecting fuse. A pilot light is also directly beneath the meter for illuminating the dial. Both the lamp and fuse are easily renewed by detaching the meter. These are features which will appeal to every user. Rejection and acceptance of tubes tested in the No. 406 will be equally as satisfactory as with testers costing many times more.

**Tube and Short Tester Combined**

Model 407

The No. 407 tester combines with the No. 406 described above, a complete short test of the tube. All shorts, gas and leakage tests are made with the tube heated under operating conditions. Tube is tested for its worth in the same socket used for short testing. The pilot light for illuminating the dial is also used to indicate the shorts, gas and leakage condition.

Cat. No. 407

List Price \$30.00

**Our Price \$17.64**

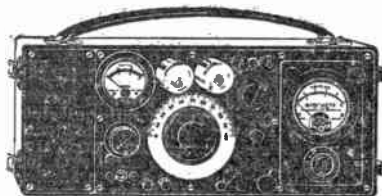
The cases for above testers are strongly built, with re-inforced corners and have rubber feet. The leatherette covering and trim makes up a very attractive instrument. The cover is removable and the leather handle is provided for portable use. Shipping weight ten pounds each. One extra ¼ amp. small fuse is supplied.

MAIL ORDERS TO   
See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C.  
or to our nearest branch

## WESTON Model 590 I.F. and R.F. Oscillator



**A New Weston Instrument for Aligning I.F. Stages—Aligning of Gang Condensers—Determining Sensitivity of Receivers—Checking R.F. Transformers and Condensers—Making Selectivity Tests and Checking the Oscillator Stages of Radio Receivers**

The new Weston Model 590 Oscillator is a very complete and practical signal generator. It has an intermediate frequency range of approximately 110 to 200 kilocycles and a broadcast range of 550-1500 kilocycles. Frequencies between 200 and 550, and above 1500 kilocycles may be obtained by means of harmonics.

The oscillator is equipped with an instrument which is mounted on the panel and which serves as a Grid Dip Milliammeter, Filament Voltmeter and Plate Voltmeter. This instrument remains in the grid circuit at all times unless connected across the Plate or Filament circuits by means of push button switches.

Two type '30 tubes are used in the oscillator, one for the R.F. and the other to modulate the R.F. to produce an audible note of 400 cycles with 30% modulation. The output of the oscillator is controlled by an especially designed attenuator.

The batteries for operating the oscillator are contained in a shielded compartment in one end of the case. They consist of an ordinary 22½ volt "B" battery and four 1½ volt unit cells commonly used in flashlights, which are connected automatically when inserted in their compartment and which will give over 20 hours of continuous operation.

An output meter is a necessary accessory for this instrument and a compartment has been provided in the case for the Weston Model 571 which can be purchased with the oscillator as shown above for \$22.50 additional.

Dimensions: 16¼x6¾x5½ inches—approximate weight, 15 pounds.

The Grid Dip Milliammeter is particularly important. It assures the service man that the oscillator is definitely operating and that when no output is obtained from the radio receiver it is the latter which is at fault. It also makes it possible to test each stage of the R.F. amplifier individually.

The Filament Voltmeter can be used to keep the filament voltage constant at two volts which is necessary to maintain accurate calibration of the oscillator and obtain maximum battery and tube life.

The attenuator is adjustable from practically zero up to its maximum range by smooth, gradual changes and not by steps. This makes it possible to obtain any degree of audibility desired.

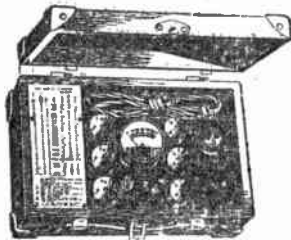
Because it produces signals above 1500 K.C. it can be used in testing short wave adapters and receivers.

**Model 590 Oscillator without Output Meter with tubes less batteries.**

Cat. No. 590

**Our Net Price  
\$79.38**

## READRITE Counter Tube Testers No. 405—No. 406—No. 407



Dealers and servicemen use the No. 406 Tester for checking all new and old tubes used in receiving sets. Test card attached to panel gives simple instructions. Anyone can operate. A single push button provides two plate current readings for determining the conductance and worth of a tube. A new and outstanding feature applies the same test to rectifier as all other types of tubes. A separate push button provides for testing both plates of '30 type tubes.

The simplified single scale meter is made possible by the wide change in readings. The meter is connected in tip jacks. Attached to the meter is a small protecting fuse. A pilot light is also directly underneath the meter for illuminating the dial.

Cat. No. 406 **\$14.70**

### TUBE AND SHORT TESTER COMBINED

The No. 407 tube tester combines with the No. 406 described above, a complete short test of the tube. All shorts, gas and leakage tests are made with the tube heated under operating conditions. Tube is tested for its worth in the same socket used for short testing. The pilot light for illuminating the dial is also used to indicate the shorts, gas and leakage condition.

Cat. No. 407 **\$17.64**

No. 405 Tube Tester is similar to No. 406, but has a two scale meter and 4½ volt grid battery.

Cat. No. 405 **\$14.70**

## READRITE Direct Reading Ohmmeters Models 500-502

These ohmmeters are complete with a small 3-cell flashlight battery; negligible. Tests resistances up to 10,000 ohms. Model 500 tests resistances by direct reading up to 10,000 ohms. Model 502 has a second scale for testing low resistances up to 40 ohms, in addition to the higher resistance of 10,000 ohms. Voice coils of dynamic speakers and shorted turns of i. f. transformers are tested best on the low range 0-40 ohms. Rheostat knob adjusts the needle to full scale. Wire leads are furnished for continuity tests. A high grade instrument. Case is beautiful baked enamel finish, seamless steel, 4 inch diameter. Weighs but one pound. Indispensable for service work.



Cat. No.	Range	List	Net
5380	0-10,000	\$6.00	\$3.53
6960	0-10,000 & 0-40	7.00	4.12

## WESTON Model 566 Type 3 Radio Set Tester



Checks Pentode Tubes without the use of Adapters—Tests every type of Broadcast Receiver and Checks all type Tubes in the Set.

### SERVICE MANUAL

A complete Service Manual comes with every Model 566—Type 3. It tells the probable causes of poor reception, how to locate them and what to do to fix them. It is more than an instruction book. It is a practical service man's handbook. This service manual is made in loose-leaf form and additional information is forwarded from time to time to keep it up-to-date.

Cat. No. 318

**Our Net Price  
\$84.53**

### SERVICING SCOPE OF WESTON MODEL 566—TYPE 3

#### TESTS WITH TESTER PLUG INSERTED IN RADIO SET

All Filament Voltages . . . All Heater Voltages . . . Two Cathode Voltages . . . Three Bias Voltages . . . Two Control Grid Voltages . . . Two Plate Voltages . . . Screen Currents . . . Bias Voltage on Voltage on D.C. Sets with Reversed Filaments . . . Space Charge Grid Volts (on 250 volt range) . . . Charge Grid Current (on 25 M.A. range) . . . Readings of Both Plates of Rectifier Tube . . . Three Plate Current Ranges.

#### EXTERNAL TESTS THAT CAN BE MADE WITH MODEL 566

Measurement of Power Transformer up to 1,000 Volts A.C.

Line Voltage Measurements on the A.C. Meter.

Heater Voltage at Power Pack—Three Ranges on A.C. Meter.

Plate Current at "B" Supply Taps—Three Ranges on D.C. Meter.

"B" Supply at Power Pack—Three Ranges on D.C. Voltmeter.

"A", "E" and "G" Battery Voltages—Six Ranges on D.C. Voltmeter.

Continuity Tests—Using Self-contained 4½ Volt Battery and the D.C. Voltmeter with a resistance of either 1,000 or 100 ohms per volt as desired.

Resistance Measurements—The D.C. Voltmeter also serves as a Direct Reading Ohmmeter with Ranges of 0-10,000 or 0-100,000 Ohms.

Condenser Measurements can be made from .001 (By Pass) to 2 Microfarads—From 110 Volts A.C. line without resistors or adapters.

Tube Checker for all Filament and Heater Type Tubes under the same condition as exists when in their sockets.

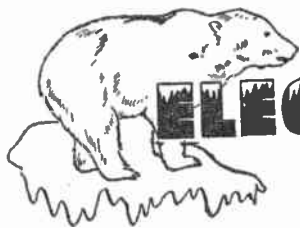
Input to Radio Set—On 4 Ampere A.C. Range and Small A.C. Measurements such as Currents in Voice Coil or Speaker, etc., using the A.C. 100 or 20 M.A. range.

Rectifier Type Output Meter—Range 100-5 Volts.

MAIL ORDERS TO  
See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C.  
or to our nearest branch



# ELECTRIC REFRIGERATION

By **FEDERATED**



By special arrangement with a prominent, long established manufacturer with over a quarter century of successful electric refrigerator experience back of his product, we are able to offer our customers the Federated Electric Refrigerator.

Behind each Federated Refrigerator stands a time tested reputation for unexcelled quality and performance dating back to the pioneer days of the industry. Everything that only long years of knowing how can give to a product, is built into every Federated Refrigerator—sturdy ruggedness, capacity for long, enduring service, simplicity and economy of operation, years of satisfaction. All Federated Refrigerator cabinets are known the world over for their distinguished beauty, quality and durability.

## Electric Refrigeration Offers a Real Opportunity to Radio Dealers and Service Men

Electric home refrigeration, the fastest growing industry today, enjoyed amazing progress and expansion during the past two years, in sharp contrast to the heavy falling off in most other lines of business. More and more radio dealers and service-men are turning to electric refrigeration as a source of profits. Every family is a prospect and there is a model for every requirement and pocketbook. Besides the profit on the initial installation, electric refrigeration offers a steady source of income from service and maintenance work. Get into it now.

### THE CABINET

Built and insulated so as to properly maintain an even temperature at all times. Exterior and Interior Walls 18 gauge steel. Improved type of insulation between walls. Air



and rubber cushion gasket seal for doors. Spacious storing arrangement. Convenient height shelves. Porcelain chill tray. Positive action snap latch on door. Exclusively designed. Bright chromium finished hardware of solid brass including hinge on door. Doors rigidly supported. Automatic electric light illuminates interior when door is opened on Model 404. Removable rustless shelves firmly mounted on rubber covered hooks. Models 402, 403 and 404 are raised above floor thus assuring maximum ventilation and sanitation. All these features mark the Federated Refrigerators as outstanding in quality and amazing in value. They will compare favorably with any refrigerator on the market, no matter how expensive.

ated Refrigerators as outstanding in quality and amazing in value. They will compare favorably with any refrigerator on the market, no matter how expensive.

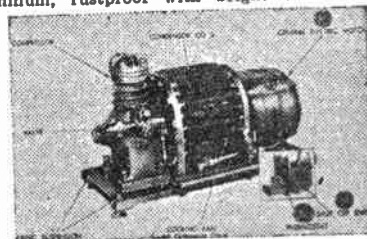
### 3 Year Guarantee

Every purchaser of a Federated Refrigerator is protected by a double three year warranty of the Federated Purchaser and also of the factory guaranteeing every refrigerator against inherent fault, improper assembly, or defective material. The Federated Refrigerator incorporates a very worthwhile and latest improvement in domestic refrigeration. Built to the highest standards, yet it costs you as little as many refrigerators of inferior grade and small capacity. Buy a Federated for moderate first cost and continuous care-free service—constant, clean, dry cold with maximum economy.

### THE UNIT

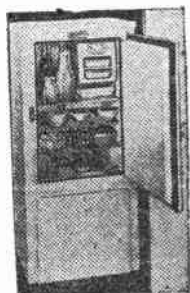
Handily located defrosting switch placed alongside automatic cold control with 10 stages of cold. Cooling unit porcelain covered. Adequate hand room between chill tray and unit. Ice cube trays of solid aluminum, rustproof with bright chromium plated fronts.

Frost coils of solid copper, will not corrode. Silent sturdy built compressor unit, Direct driven by flexible coupling; no belts, gears or pulleys. Fewest moving parts. General Electric 1-6 H. P. Motor. Motor-compressor assembly mounted on springs for quiet, vibrationless operation.



Motor-Compressor. Note sturdy simple construction. General Electric 1-6 H. P. Capacitor Motor.

General Electric 1-6 H. P. Capacitor type 1-6 H. P. Motor. Motor-compressor assembly mounted on springs for quiet, vibrationless operation.



Cat. No. 401

**\$98.00**

MODEL 401

Finish—Lacquer exterior; porcelain interior. Gross capacity, 4 cu. ft.; height, 54 in.; depth, 20 $\frac{1}{2}$  in.; width, 24 $\frac{1}{2}$  in.; depth with door open, 40 $\frac{1}{2}$  in.; shelf area including bottom, 8.12 sq. ft.; number of cube trays, 2—28 cubes per tray, total 56; insulation, 2 in. Shipping weight, 315 lbs.



Cat. No. 402

**\$110.00**

MODEL 402

Finish—Lacquer exterior, porcelain interior. Gross capacity, 5 cu. ft.; height, 52 in.; depth, 22 $\frac{1}{2}$  in.; width, 22 $\frac{1}{2}$  in.; number of cube trays, 2—total of 56 cubes; insulation, 2 in. Shipping weight, 325 lbs.

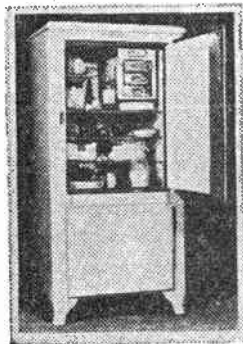


Cat. No. 403

**\$118.00**

MODEL 403

Finish—Lacquer exterior, porcelain interior. Gross capacity, 6 cu. ft.; height, 58 in.; depth, 22 $\frac{1}{2}$  in.; width, 25 $\frac{1}{2}$  in.; height of legs, 4 in.; number of ice trays, 3, total of 84 cubes; insulation, 2 $\frac{1}{2}$  in. Shipping weight, 330 lbs.



Cat. No. 404

**\$139.00**

MODEL 404

Finish—Porcelain interior, lacquer exterior. Gross capacity, 7 cu. ft.; height, 57 $\frac{1}{2}$  in.; depth, 22 $\frac{1}{2}$  in.; width, 26 $\frac{1}{2}$  in.; height of legs, 4 in.; depth with door open, 43 $\frac{1}{2}$  in.; shelf area including bottom, 10.21 sq. ft.; number of cube trays, 3—28 cubes per tray, total 84; insulation, 2 $\frac{1}{2}$  in. Automatic electric light when door opens. Shipping weight, 338 lbs.

Federated Refrigerators listed on this page are for operation on 110 Volts, 50 to 60 cycles alternating current. All models are also obtainable for 110 Volts direct current at same prices.

# Replacement Power Transformers for All Standard Sets

These Power Transformers in most cases are the originals and where they are not, they are the physical and electrical duplicates of the originals. This list is constantly being enlarged with transformers which have passed the approval of our engineers.

Where the original transformer has been duplicated, it is a reliable product. In many of the receivers listed

here the original manufacturers' transformers were unsuitable for continuous service, and we have made changes in the safety factor to bring it high enough above normal operating conditions so as to even compensate for shorts and break-downs in the receiver. Wherever the transformer is contained in a can both the finish and physical characteristics are identical to the original.

Set	Model	Cat. No.	Price
<b>A</b>			
A.C. DAYTON (O), Navigator		2560	\$2.95
ALL AMERICAN (LYRIC) (D), 90, 93, 94, 95		8922	3.75
ALL-AMERICAN (LYRIC) (D), Model D		7219	3.95
AMRAD (O), Bel Canto Series 81		255C	3.40
APEX (D), 36, 37		6995	4.50
APEX (D), 10 Series Supers		7005	3.75
APEX (D), 20 Series Supers		7006	2.40
ATWATER KENT, 66 Plate Transformer		7221	5.95
ATWATER KENT, 66 Filament Trans.		7220	3.75
ATWATER KENT (D), 37 38		2642	2.20
ATWATER KENT (D), 55, 55C		6013	4.25
ATWATER KENT (D), 60, 60C		7007	4.75
ATWATER KENT (D), H1, H2, L1, L2		7008	3.50
ATWATER KENT (D), 82, 85		7009	3.50
ATWATER KENT (D), 82F, 85F		7010	4.50
ATWATER KENT (D), 84 (Early and Late)		7011	3.50
ATWATER KENT (D), 84F (Early and Late)		7012	4.50
ATWATER KENT (D), 80F, 83F		7013	3.50
ATWATER KENT (D), 80F, 83F		7014	4.50
ATWATER KENT (D), 87, 89, 89P		7015	4.00
ATWATER KENT (D), 89F		7016	4.95
<b>B</b>			
BRANDES (O), B10, B11		5421	1.95
BRANDES (O), B15, 16		5504	4.70
BOSCH (D), 60		6552	3.95
BOSCH (D), 29, 825		6998	4.50
BOSCH, 28		6557	6.50
BOSCH, 48		3741	4.25
BOSCH, 58		6561	3.95
BOSCH, 29		6996	5.95
BREMER-TULLY, S-14, S-21, S-81, S-82		7225	3.25
BREMER-TULLY, 640, 641		7224	3.50
BRUNSWICK (O), 31, 32, Part No. 755		7202	3.50
BRUNSWICK, 15		7222	3.95
BRUNSWICK, 21, 31		7223	3.95
BRUNSWICK (D), S14, S21, S81, S82		7017	3.75
BRUNSWICK (D), S14, S21, S81, S82, 25 cycle		7018	4.75
BRUNSWICK (O), 29, 15-32 (4-224, 2-245, 1-280) without case		3739	2.85
<b>C</b>			
COLONIAL (D), 31		2632	5.50
COLONIAL (O), 32 AC		5045	3.75
COLONIAL (O), 33		5046	4.50
COLONIAL (O), 47		7198	2.50
COLUMBIA (D), SG8		6997	4.50
COLUMBIA (O), 6J2		5508	3.95
COLUMBIA (O), 840		5504	4.35
COLUMBIA (O), C10		5507	3.95
COLUMBIA (O), 930, 931		5512	6.85
COLUMBIA (O), 300		5510	5.25
COLUMBIA (O), 300, 25 Cycle		5511	6.85
COLUMBIA (O), 950		2656	4.65
COLUMBIA (O), C1, 2, 3, 4, 25 Cycle		5718	6.85
COLUMBIA (SCREEN GRID), 8		6997	3.95
CROSLEY (D), 40S, 41S, 42S, 82S		7019	4.75
CROSLEY (O), 41A, 42		5846	1.25
CROSLEY (O), 706		5846	1.25
CROSLEY (O), 608		5075	.95
CROSLEY; 47, 48, Part No. 22432		7213	1.50
CROSLEY, 59, Part No. 22413		7214	1.50
CROSLEY, 120, Part No. 20150		7215	2.50
CROSLEY, 53, 54, 57, 58, Part No. 20553		7216	1.50
CROSLEY, 122, Part No. 22356		7217	2.50
CROSLEY, 30S, Part No. 6682		7218	2.50
<b>E</b>			
EARL (O), 21, 22-25 cycle		2658	2.75

Set	Model	Cat. No.	Price
<b>E</b>			
EARL (O) 31, 31S, 32, 32S, 33, 33S, 24, 41, 55, 56		2522	3.00
EARL (O), 55, 56		2657	3.75
ECHOPHONE (O), 6 Tube		5828	2.85
ECHOPHONE (O), 8 Tube		5829	3.25
EDISON (O), R4		5855	3.85
EDISON (D), R6		6843	3.50
EDISON (D), R2, C2 Plate Trans.		6998	2.45
EDISON, R1, R2, C2 Plate Transformer		6998	3.50
EVEREADY (O), 30		6026	3.50
EVEREADY (O), 40, 50		2617	2.85
<b>F</b>			
FADA, 35		7226	3.95
FADA, 43		7227	3.95
FADA, 16, 17		7228	3.95
FADA, 42, 44, 46, 47		7229	3.95
FADA, 50, 70, 71, 72 (420 Electric Unit)		7230	3.95
FADA, 50, 70, 71, 72 (180 Electric Unit)		7231	3.95
FADA, 75, 77		7232	3.95
FADA, 45		7233	3.95
FADA (D), Special		6786	3.95
FADA (D), 10		5865	3.50
FREED (O), Model 55, 56, 60 Cycle		2402	2.75
FREED (O), Model 78, 78S, 79, 79S, 90, 95, 85 60 Cycle		3738	4.25
FREED-EISEMANN (O), Model NR60, 60 Cycle		2410	3.95
FREED-EISEMANN (O), Model NR57, 60 Cycle		2411	4.50
FREED-EISEMANN (O), NR85, 60 Cycle		2412	4.50
FREED-EISEMANN (O), Model 16, 60 Cycle, B and C Eliminator		2414	2.25
FREED-EISEMANN (O), NR73		2662	4.50
FREED-EISEMANN (O), NR80		2661	4.25
FRESHMAN, G Old Type Trans.		7246	2.95
FRESHMAN, K		7247	2.95
FRESHMAN (D), ERAC		6842	4.85
FRESHMAN (O), Model G-60-S, 60 Cycle (Plate)		2419	2.25
FRESHMAN (O), Model G-60-S, 60 Cycle (Filament)		3724	1.65
FRESHMAN (O), EAC		2553	3.50
FRESHMAN (O), Filament Transformer		2530	3.50
FRESHMAN (O), N, 25 cycles		2634	5.50
FRESHMAN (O), Q, 60 cycle		2628	3.85
FRESHMAN (O), QD 60 cycle		2628	4.50
FRESHMAN (O), QD 25 cycle		2629	6.00
FRESHMAN (O), N, 60 cycles		2644	5.50
FRESHMAN (O), Q, 25 cycle		2627	5.50
<b>G</b>			
GENERAL ELECTRIC (D), T41		6999	3.50
GEN. ELECTRIC (O), H31, H51, H71		2676	3.25
GRAYBAR (O), 700, 770, 900		2676	2.65
GREBE (O), AC6		6923	2.75
GREBE (O), SK4		5044	3.95
GREBE (O), 1931 Series with Clarostat Line Ballast		6652	3.75
<b>K</b>			
KING (O), Power Pack		6504	7.85
KELLOGG (D), 523, 526		7000	4.50
KENNEDY, 26, 34		7234	3.95
KENNEDY (D), 10, 20, 30 Series		6758	2.15
KNIGHT (D), P. T. and Choke		2529	4.50
KOLSTER INTERNATIONAL, K90		7235	3.95
KOLSTER INTERNATIONAL, K80		7236	3.95

(Continued on page 99)

Code: (O)=Original Manufacturer's Model; (D)=Duplicate; (R)=Replacement.

MAIL ORDERS TO   
See Terms on Page 5

**Federated Purchaser Inc.**

or to our nearest branch  
25 PARK PLACE, N. Y. C.

# Filter Condenser Blocks for Standard Sets

The condensers used are all of the highest quality, and in every case having higher safety factor than the original. The physical specifications and electrical specifications of the original condenser block have been duplicated in every respect.

There are no obsolete or cheap parts used in the making up of these blocks and all of them are guaranteed to perform as well as the originals.

Make	Models	Part No.	Cat. No.	Price	Make	Models	Part No.	Cat. No.	Price
<b>A</b>					<b>Freshman, H-5</b> ..... 5012 5.00				
Atwater Kent, 66			7055	3.95	Freshman, H		7254	3.95	
Atwater Kent, 37			5001	2.25	Freshman, K		7255	2.45	
Atwater Kent, 40 (condenser only)			5395	1.35	Freshman, Q		3120	1.50	
Atwater Kent, 44 (Condenser and Choke)			7170	1.50	Freshman, M12 (171 tube)		5013	3.50	
Atwater Kent, 46 (condenser only)			5396	2.75	Freshman, N11 (250 tube)		6014	3.50	
Atwater Kent, 55, 55C, 55F			6513	4.25	Freshman, Model G-60-S, 60 Cycle		2432	2.40	
Atwater Kent, 60			7054	.50	Freshman, Model N-60-S, 60 Cycle		2433	3.75	
Atwater Kent, 66			7055	.70	Freshman, Model Q. 2Q, 3Q, 60 Cycle		2434	2.75	
Atwater Kent, 70			7056	.50	Freshman, Model QD, 60 Cycle		2439	2.75	
Apex, 46, 46A			6834	1.85	Freshman, Model M-60-S, 60 Cycle		2440	3.10	
Apex, 47, 47A			6835	1.85	Freshman, ABC Elim., 60 Cycle		2442	1.60	
Apex, 48, 48A			6836	2.25	<b>G</b>				
Apex, 41			6837	2.25	Grebe, AC6, complete with resistors		6624	3.95	
Apex, 48, 48A			6837	2.25	Grebe, SK		6924	1.50	
Apex, 28A, 28AX			7248	2.95	<b>K</b>				
<b>B</b>					Knapp, A Elim. Condenser		5039	1.35	
Bosch, 501-2-3			7169	2.75	Kodel, A Elim. Single Condenser		5020	2.00	
Bosch, 28			6772	2.75	Kodel, A Elim. Double Condenser		5019	3.75	
Bosch, 50 Series			2988	3.25	Kodel, A Elim. Triple Condenser		5018	5.60	
Bosch, 48			2853	8.50	Kolster, 6H, K5	2316	3215	3.25	
Bosch, 73			7249	2.95	Kolster, K30, D.C.	3844	3609	1.50	
Bosch, 5			7250	2.45	Kolster, K23 Rectifier	5501A	3612	1.95	
Brandes, B10, 3.7 Mfd.	4838		5613	2.75	Kolster, K25, 27, 28, 25 Cycle	3663	5615	1.95	
Brandes, B11	4049		5614	.95	Kolster, K20, 25	3917	5023	2.50	
Brandes, B15	5038		5619	1.95	Kolster, K21		2312	2.50	
Bremer Tully, 6-40, 6-41			6925	3.50	Kolster, 6J, 6K, 6R		5022	3.25	
Bremer-Tully, 8-20, 8-21			7251	3.95	Kolster, K43		6774	2.50	
Bremer-Tully, 14, 22, 81, 82			6229	.49	Kolster, K44		6775	2.75	
Brunswick, 14, 22, 81, 82			6229	.49	Kolster, 6J, 6K		6776	2.50	
Brunswick, 15, 22, 32, 42, Part 3209			7203	1.85	<b>M</b>				
<b>C</b>					Majestic, "A" Elim		5031	2.45	
Colonial, 39			7197	1.25	Majestic, 9P3, 25 Cycle		7256	3.25	
Columbia, 950	4372		5611	3.50	Majestic, 7P3, 25 Cycle		7257	3.45	
Columbia, Screen Grid, 8			5003	2.75	Majestic, 7BP3		7253	3.15	
<b>E</b>					Majestic, 171 Sets		6026	2.35	
Earl, 41			5007	2.95	Majestic, 250 Sets		5027	2.35	
Earl, 31 and 32			5405	2.75	Majestic, 245 Sets		6028	2.85	
Earl, 21 and 22			5406	2.75	Majestic, 90 B		6678	2.85	
Edison, R6, R7			6840	3.50	Majestic, Master B. Super B.		5029	2.85	
Edison, R4, C4, R5			7252	2.95	Majestic, Special Master B.		5030	2.85	
Elkon, "A" Condenser			5009	1.35	Majestic, 50		6838	2.50	
Erla	5429		5624	2.50	Mohawk, Using Majestic Pack.		5032	2.50	
Erla, A2			5006	4.00	<b>P</b>				
Eveready, 50 Series			2988	2.95	Peerless, 22		2856	3.95	
<b>F</b>					Philco, 511	Z200	2933	.65	
Fada, 18	2-1252MS		3010	3.95	Peerless, 70		6339	3.00	
Fada, 10, 11, 31			7172	3.25	Philco, 511	Z200	2933	.65	
Fada, 35, 352, 40	1790X		3012	3.75	Philco, 87	3401	2934	3.50	
Fada, 41, 44, 46, 47			3740	3.25	Philco, 87, 25 Cycle	3652	2935	2.95	
Fada, 70			7253	3.95	Philco, 65	3515	2936	2.95	
Fada, "K"			6704	4.00	Philco Midget		3009	3.25	
Fada, A Eliminator			5009	1.35	Philco, 82		6621	2.95	
Fada, E420 for 50-70-71 and 72			5410	3.25	Philco, 62		6622	2.95	
Fada, 25, Part No. 1780 x 8 leads			3011	3.25	Polydyne, Model Q, 60 Cycle		2437	2.75	
Fada, 25, Part No. 1801 x 1 leads			3025	3.25	Polydyne, Model QD, 60 Cycle		2438	2.75	
Fada, ABC Eliminator "B" Cond.			6542	3.25	<b>R</b>				
Federal, D, E, F, G and H			5416	2.75	Radiola, 105 Speaker		7259	6.95	
Freed, Model 55, 56, 65, 78, 79, 79S, 90, 95			2443	2.75	Radiola, 64		6543	5.95	
Freed-Eisemann, No. 16 "B" Elim. Block			5010	3.75	Radiola, 67		7260	5.95	
Freed-Eisemann, NR57A			5010	3.75	RCA, 17	8289	2714	2.75	
Freed-Eisemann, Model 411, 60 Cycle			2428	3.95	RCA, 18, 33, 61		2710	.45	
Freed-Eisemann, Model NR70, 60 Cycle			2429	3.75	RCA, 44, 46		2715	2.50	
Freed-Eisemann, Model NR80, 60 Cycle			2430	1.50	RCA, 41		5033	3.50	
Freed-Eisemann, Model NR85, 60 Cycle			2431	3.10	RCA, 62, 60	8346	2726	2.50	
Freed-Eisemann, 480 A.C.			5420	3.30	RCA, 66	8487	2659	3.50	
Freed-Eisemann, 480 D.C.			5415	2.50	RCA, 80		6688	2.75	
Freed-Eisemann, 485			5419	4.80	RCA, 104 Speaker		3721	1.65	
Freed-Eisemann, NR57, 60			3214	3.00	RCA, 30A Filter Block, Part No. 81951		5445	.85	
Freed-Eisemann, NR80			6773	2.50	<b>S</b>				
					Sentinel, 440, 11, 12, 15, 16		5034	2.45	

(Continued on page 98)

# Volume Control Guide

This list of replacement volume control is not a haphazard collection of make-shift substitutes, but the result of four years of experience in merchandising replacement parts.

The majority of these volume controls are the exact replicas of the manufacturers' originals and the others best replacements obtainable. The physical dimensions and electrical specifications in each case are exact duplicates of the original controls.

These controls are the products of Frost, Centralab, Electrad, Clarostat and Yaxley.

The resistance taper, value, size of shaft, size of case and switch specifications have been closely adhered to, and in no case is a control specified without our having studied the requirements of the particular receiver.

Any controls not listed here can be possibly furnished by us from stock and we invite your inquiries for special controls.

Any controls not listed here can be possibly furnished by us from stock and we invite your inquiries for special controls.

Receiver	Models	Cat. No.	Price
<b>A</b>			
Acratone, 2, 3, 4, Midgets.....		6148	\$0.70
All-American Lyric, K.....		6190	.50
All-American Mohawk, 90 series, C6, J.....		6142	.50
All-American Mohawk, D.....		7093	1.40
All-American Mohawk, S80.....		7094	.70
Amrad, 81, Bel Canto series.....		6186	.50
Amrad, 71, 7100, 70.....		6140	.50
Apex, 80 series.....		6142	.50
Apex, 40 series.....		6138	.50
Apex, 30 series.....		6142	.50
Atchison, 5 and 6.....		6142	.50
Atwater-Kent, 1928-29 Models.....		5241	1.10
Atwater-Kent, 61, 61A, 66.....		5695	1.75
Atwater-Kent, 37, 38, 36, 44, 40, 42, 52.....		3713	.45
Atwater-Kent, H2, H1.....		6186	.50
Atwater-Kent, 55, 55C, 60, 66.....		7123	.45
Audiola, Jr.....		6142	.50
Audiola, 30B and 7330.....		6182	.50
Audiola, 8430.....		6187	.50
Audiola, 889.....		6138	.50
Audiola, 31.....		6142	.50
<b>B</b>			
Balkeit, A3, A5, A7.....		6190	.50
Balkeit, B7, B9.....		6142	.50
Balkeit, F.....		6142	.50
Balkeit, C.....		6142	.50
Bosch, 73, 74, 20.....		6142	.50
Bosch, 49.....		6142	.50
Bosch, 60, 62.....		6190	.50
Bosch, 54, 48, 56, 49.....		5840	1.75
Bosch, 58.....		6115	.89
Bosch, 28, 29.....		6502	.90
Bosch, 5, 20, 20J, 20K, 20L, 31, 32, 73.....		7075	.90
Bremer-Tully, 640, 641.....		7100	.70
Bremer-Tully, 7-70, 7-71.....		6142	.50
Bremer-Tully, 8-23, 8-21.....		6127	.50
Bremer-Tully, Counterphase 8.....		6183	.60
Bremer-Tully, 81-82.....		6170	.65
Bremer-Tully, S-81, 82.....		6538	.99
Browning-Drake, 34, 36, 38.....		6180	.50
Browning-Drake, 69.....		6142	.50
Browning-Drake, 70-71.....		6189	.50
Brunswick, 10.....		7101	1.00
Brunswick, 18.....		7102	.60
Brunswick, 3KR8, 3KR0, 3KR6.....		4165	.45
Brunswick, 5KR, 5KRO, 2KRO, 5KR6.....		4165	.45
Brunswick, 5NC8, 5NO, 5NC8.....		4170	.50
Brunswick, PR-17-8, R-1, K1104.....		4165	.45
Brunswick, 14, 21 and 31.....		6185	.50
Brunswick, S14, S21, 331, S81, S82.....		6588	.90
Brunswick, 1930 Models.....		6223	.75
Buckingham, 80.....		6181	.50
Bulova, M501.....		7103	.90
Bulova, M701.....		7104	.65
Bulova, C751.....		7105	.85
Bush & Lane, 10 12.....		3203	.65
<b>C</b>			
Case, 80.....		6142	.50
Clarion, Jr., 60.....		6148	.70
Clarion, 51, 53, 55.....		6148	.70
Clarion, 40, 45.....		7106	.90

Receiver	Models	Cat. No.	Price
Clarion, 80.....		7107	.65
Clarion, 90.....		7108	.85
Cleartone, 112.....		6190	.50
Colonial, 22 DC & 12 AC.....		5535	1.25
Colonial, 32, 32DC.....		7109	1.50
Colonial, 31, 33.....		7110	.90
Columbia Radio, S.G. 8.....		2951	.70
Columbia Phono, C11, 961, 902, C4, 980, K24.....		6185	.50
Columbia Phono, C1, C2, C3.....		6189	.50
Columbia, 32, 34.....		7111	.65
Columbia, 31, 33.....		7112	.90
Colonial, 32.....		7195	.45
Crosley, 602, 608, 609, 610.....		6103	.35
Crosley, 704, 705, 706, 706DC, 804, 704B.....		6113	.35
Crosley, 48P. Wight.....		6104	.50
Crosley, 58Q, Buddy Boy, Chum, 55, 53, 54, Buddy D. C.....		6106	.50
Crosley, 77-1.....		6105	.50
Crosley, 124.....		7113	.85
Crosley, 124 Tone Control.....		7114	.75
Crosley, 53, 54, 57.....		7115	.65
Crosley, 30S, 40S, 31S, 34S, 62S.....		6479	.35
Crosley, 804, 20, 21, 22.....		6187	.50
Crosley, Roamio.....		6186	.50
<b>D</b>			
Dayten, Navigator.....		6142	.50
Dayfan, 8AC, A5003, 5091.....		6142	.50
Dayfan, 5065.....		6185	.50
Dayfan, 5057.....		6185	.50
Dayfan, 5051.....		6186	.50
Dayfn. 5 AC.....		6138	.50
De Wald, 632.....		6148	.70
<b>E</b>			
Edison, C1, C2, R1, R2.....		5378	.50
Edison, R6 and R7.....		2966	.85
Erla, R1.....		6142	.50
Erla, 224 AC.....		6141	.50
Erla, 245.....		7116	.85
Erla, SG Radio.....		7117	1.40
Erla, SG Combination.....		7118	1.50
Earl, 21, 22, 24.....		3920	.33
Earl, 31, 32, 41, 33.....		6186	.50
Earl, 31S, 32S, 33S.....		7189	.40
Eveready, 1, 2, 3.....		6502	.90
Eveready, 50 Series.....		5840	1.75
<b>F</b>			
Fada, 48, 49.....		7095	1.00
Fada, 48, 49 Flash.....		7096	.55
Fada, 45, 53, 57.....		7097	.85
Fada, 51.....		7098	.60
Fada, 55B.....		7099	1.40
Fada, 265UA, 262, 265CA, RP-65UA, RP-65CA, 262UA, 262CA, RP-62UA, 262CA, RP-62UA, RP-62CA.....		5853	.65
Fada, 7AC, 475UA, 472CA, SF45/75UA, CA45/72.....		5841	.65
Fada, 10, 11, 30, 31, 10Z, 11Z, 30Z, 31Z, 50, 70, 71, 72.....		5842	.65
Fada, 16, 17, 32, 16Z, 32Z, 18DC.....		5842	.65
Fada, 20, 20Z, 25, 25Z, 15M, 15MZ.....		5493	.65
Federal, D, E, F.....		6126	.60
Federal, G, H, K, M.....		6126	.60

(Continued on next page)

MAIL ORDERS TO  See Terms on Page 5

**Federated Purchaser Inc.**

25 PARK PLACE, N. Y. C. or to our nearest branch

# Volume Control Guide

Receiver	Models	Cat. No.	Price	Receiver	Models	Cat. No.	Price
Freed, 65, 78, 79, 95		7188	.40	Norden-Hauk, Super DZ-5A	N	6185	.50
Freed, 78S, 79S, 95S		7190	.40			P	
Freed-Eisemann, NR78, 79AC, NR90S, NR-95AC		6186	.50	Peerless, 65		3763	.35
Freed-Eisemann, NR80DC, NR80AC, NR85		3819	.50	Peerless, K71, 72		6603	.55
Freed-Eisemann, NR55DC, NR56DC, NR-78DC, NR79DC		6189	.50	Peerless, K70		3040	.60
Freed-Eisemann, NR55, NR56		3820	.35	Philco, 511, 512, 513, 521, 87, 82, 88		6142	.50
Freshman, L, LS, G60S, H, K		2982	.60	Philco, 65		6186	.50
Freshman		7193	.40	Philco, 95, 96, 96A, 296, 298A, 211, 211A, 111, 111A, 30		6190	.50
Freshman, K60S, G, 2N, M, N		3772	1.35	Philco, 77, 77A, 20, 20A, 41D.C., 42D.C., 220, 220A, 70, 70A, 270, 270A		6118	1.25
Freshman, Q15, Q16, 3Q15, 3Q16, QD16S		3787	.35	Pilot, All-elec. Air Scout, SG105, K106		6189	.50
French, Jesse Jr., G		7119	1.75	Pilot, Midget, PE6SG, K122, 123, 124, 126, 128		6186	.50
French, Jesse, 8, 5-093G		6119	1.25	Pilot, Auto 180		6188	.50
				Pilot, Pilotone, K108, K117		6142	.50
<b>G</b>				<b>R</b>			
Garod, E. A.		6190	.50	Radiola, 33, 33 D.C.		3762	.60
General Electric, H-31, H-51, H-71		6141	.50	Radiola, All combinations		3794	.45
General Motors, A		5535	1.25	Radiola, 17, 41, 41DC		5741	.50
General Motors, 120, 130, 140		7120	1.50	Radiola, 48, 42		5158	1.45
General Motors, S3A, S3B, S2B, 252-3-4-5-6, 28		7121	.90	Radiola, 60, 82, 66		6138	.50
General Motors, S1A, S1B, 216, 217, 219, 250		7122	.90	Radiola, 64, 67		3798	.50
Graybar, 700, 770, 900		6141	.50	Radiola, 80, 82, 86		6141	.50
Graybar, 600		2956	.45	Radiola, 44, 46, 47		3765	.45
Graybar, 311		4165	.45	Radiola, 21, 22, 46DC		6186	.50
Grebe, AHI		3041	.85	Radiola, 18, 50, 51, 18DC		4165	.45
Grebe, SK4		3698	.50	Radiola, R10, R11, RAE26, RAE18		7070	.75
Grebe, AC7		3039	.60	Radiola, R7A, 7DC, 9DC, Superette		7071	.60
Grebe, De Luxe, AC6		3040	.60	Radiola, R5, R5X		7072	.70
Grebe, HS-4, Model 5		7059	1.00	Radiette, F14		6146	.70
Grebe, HS-4, Model 5 Tone Control		7060	1.50	<b>S</b>			
Grebe, HS-4, 1, 2, 3, 4		7061	1.00	Sentinel, 11, 12, 15, 16, 104, 106, 440, 444, 666, 666C		6142	.50
Grebe, HS-4, 1, 2, 3, 4 Tone Control		7062	.65	Sentinel, 108A, 109, 110, 111		7073	.90
Grebe, HS-4		7063	.90	Sentinel, 118, 120		7074	1.00
Gulbrandsen, 8, 9		6142	.50	Silver, 710, 720, 724, 740, 35A, 34A, 36A		3039	.50
<b>H</b>				Silver, 620, 770		2958	.50
Howard, Green Diamond, S.G.A., S.G.C.		5160	1.25	Silver, 712, 714, 722, 30, 30B, 60B, 75B, 90B		6142	.50
Howard, 135, 395, 445, 495		6141	.50	Sonora, 2RP25, 3R, 4R, 5R, A30, A32, B31, A36, A46, A40, 44		5378	.50
Howard, D4		7064	.85	Sparton, 110, 931, 101, 103, 109, 301, 591, 593, 930		6589	.90
<b>J</b>				Sparton, 600, 610, 620, 737, 740, 750, 574, 870, 589		6590	.90
Jackson-Bell, 62		6588	.90	Sparton, 79, 89, 60, 103, 109, 301		7076	.80
<b>K</b>				Sparton, 111, 564, 570, 574, 589, 600		7077	.80
Kellogg, 523, 526, 524, 525, 527, 528		6142	.50	Sparton, 410, 420, 9A, 600A, 610A, 620A		7078	1.75
Kennedy, 10, 20, Royal 34, 26, 826B, 36, 38, 40, 22, 20, 32, 30		3203	.65	Sterling, 1930 Models inclusive		6119	1.25
Kennedy, 60, 80		6190	.50	Stewart-Warner, 50, 40, 102, 40C, 60C, 70, 80, 95, 991, 992, 993		2941	.60
King, J. H.		6141	.50	Stewart-Warner, 900 Series		2941	.60
King, E80, 81, FGH, 97, 98, Monarch		6142	.50	Stewart-Warner, 950 and R100 Series		5739	.50
Kolster (Brandes), K20, K21, K23, K24, K28, K22, K25, K27, K42, K45, B10, B15, B16		5725	.95	Stewart-Warner, 715, 720		3750	.25
Kolster (Brandes), K42, 43, 45		5254	1.75	Storey & Clark, 36, 43, 51		7079	.65
<b>L</b>				Storey & Clark, 3A, 4		6142	.50
Lang, BA5AC, BD6DC		6182	.50	Stromberg-Carlson, 846, 848 Front		6591	.55
Lang, F9DC, J7DC, M7AC, R8DC		6141	.50	Stromberg-Carlson, 846, 848, Rear		3205	.75
Leutz, Universal, Trans-oceanic, Seven Seas Console		6190	.50	Stromberg-Carlson, 10, 11		6593	.55
Lincoln, 31 Superhet		6185	.50	Stromberg-Carlson, 638 Front		3208	.70
<b>M</b>				Stromberg-Carlson, 638 Rear		6592	.75
Majestic, 20 Series		5157	.90	Stromberg-Carlson, 635, 636		3210	.45
Majestic, 130A, 230A		6139	.50	Stromberg-Carlson, 641, 642, 652, 654		3206	.50
Majestic, 90, 91, 92, 100		6187	.50	Steinite, 36, 43, 51		6142	.50
Majestic, 70, 60, 70B, 71, 72, 80		6184	.50	<b>T</b>			
Majestic, 180, 181		5738	.35	Temple, 8-60, 8-80, 8-90		3802	.25
Majestic, 90B, 100B		5696	.35	Temple, 861, 881, 891		5243	1.75
Majestic Equalizer, 90, 90B, 91, 92, 100, 100B		5698	1.25	<b>V</b>			
Majestic, 60, 160		7065	.60	Victor, R32, RE45, RE52, RE75		3751	.25
Majestic, 15, 15B, 150, 155		7066	1.00	Victor, R34, R35, RE39, RE57		6501	1.75
Majestic, 15, 15B, 150, 155 Tone Control		7067	.65	(Continued on page 97)			
Majestic, 25		7068	1.00				
Majestic, 25, Tone Control		7069	.65				
Majestic, 100		5844	.35				
McMillan, 8AC, Series 900		6142	.50				
Melorad, Cathedraltone		6175	.65				

MAIL ORDERS TO  See Terms on Page 5

**Federated Purchaser Inc.**

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25 PARK PLACE, N. Y. C.

# VOLTAGE DIVIDERS For All Standard Receivers

The Voltage Dividers listed herein are duplicates of the original voltage dividers used in the various sets. All values and physical dimensions conform to the originals and in many cases the safety factor has been brought up above normal load.

Make	Models and Values	No. Part	No. Cat.	Price
<b>A</b>				
Amrad, A.C.—4,080 ohms .....			6857	.75
<b>B</b>				
Balkett, AB6, 180A, 180B—10,800 ohms .....			6858	.75
Balkett, ABC, 135, 180—10,800 ohm..			6380	.75
Balkett, B7, B9—24,800 ohm.....			6381	.95
Balkett, C—4,370 ohm .....			6382	.55
Brandes, B11—4,650 ohm .....		4919	3922	.40
Brandes, B-10 .....			5756	.75
Brandes, B15, B16—2,955 ohms .....			6859	1.00
Bosch, 48, 49 .....			5756	.70
Bosch, 58 .....			5753	.75
Bosch, 60, 61, 63—9,000 ohm.....			5754	.75
Bosch, 62C—4,790 ohm .....			5755	.75
Bosch, 28, 29, 825—10,000 ohm.....			6274	.85
Bosch, 28, 29 825—2,000 ohm.....			6375	.55
Bosch, 60, 61—9,000 ohm .....			5752	1.00
Bosch, 54 D.C.—20 ohm, Edison Base			5848	.85
Bosch, 62, 63—4,260 ohms .....			6850	.75
Bosch, 63—26,050 ohms .....			6851	.85
Bremer-Tully, 820A, 8-21A — 13,400 ohms .....			5758	.75
Bremer-Tully, 6-40—16,720 ohm .....			6377	1.80
Brunswick, 3, 8, 10, 11, 13—6,770 ohms			6860	1.00
Brunswick, 3ER8—6,285 ohms .....			6861	1.00
Brunswick, SRU, X902, 3NW8—7,780 ohms .....			6862	1.00
3,040 ohms .....			6863	1.00
4,470 ohms .....			6864	1.00
Brunswick, PR6—11,700 ohms .....			6865	1.00
<b>C</b>				
Colonial, 33, 34, 110,000 ohms tapped at 60,000 .....			4017	.50
Colonial, 28—15,500 ohm .....			5750	.75
Colonial, 32 D.C., 34.9 ohm.....			5453	.95
Colonial, 32, 33, 34—122,000 ohm.....			5727	.75
Colonial, 36, 39 A.C.—165,000 ohms tapped at 65,000.....			5636	.50
Colonial, 33, 34, 35 — 80,000 ohms tapped at 25,000.....			7199	.35
Colonial, 33, 34—420 ohm C.T.....			3969	.25
Colonial, 31 D.C.—Speaker Resistor..			7205	3.00
Colonial, 31, A.C. ....			5674	.75
Colonial, 31 D.C., 60 ohm.....			5856	.85
Colonial, 28—7,200 ohm .....			6378	.75
Columbia, C1, C3, 960 .....			4014	.39
Columbia, C5—7,835 ohms .....			3905	.40
Columbia, C1, C3—7,120 ohms .....			4014	.39
Colonial, 950—50,000 ohm .....	4810		5517	.30
Columbia, 902, 950, 980—13-110 ohm.			5716	.75
Columbia, 930—2,060 ohm .....	5478		5521	.40
Columbia, 980—6,155 ohm .....			5522	.40
Columbia, 300, 930, 500, 2,640 ohm..			5523	.40
Columbia, 902—430 ohm .....	4290		5527	.30
Columbia, C5, 961—8,050 ohms .....			6866	.75
Columbia, 902, 930, 980—2,220 ohms..			6867	.75
Columbia, 931—9,035 ohms .....			6868	.75
Columbia, 940—2,955 ohms .....			6968	1.00
Crosley, D.C. sets using 224 Tubes—47.7 ohm Resistor.....			5790	.40
Crosley, 602, 740—5,000 ohm, tapped at 3475 .....			3965	.35
Crosley, 50, 102—25,867 ohms .....			6710	.50
Crosley, 40C, 601, 102C—6,515 ohms..			6711	.50
Crosley, 77, 77-1—4,295 ohms .....			6870	.95
Crosley, 602, 704—650 ohms .....			6871	.75

Make	Models and Values	No. Part	No. Cat.	Price
<b>D</b>				
Dayton Navigator—8,350 ohm .....			5760	1.00
<b>E</b>				
Edison, R-1, R-2, C-2—1500 ohm....			5761	.75
Edison, R-1, R-2, C-2—13,400 ohm..			6520	.75
Earl, Model 31-32, 32S-41, 5,000 ohm.			3907	.35
Eria, R1—17,660 ohm .....			6379	1.00
<b>F</b>				
Federal, 73-060—2,685 ohm .....			6383	1.25
Federal, 79-070—20,000 ohm .....			6384	1.25
Freed, Model 65-78-79-95-90, 4,000-750 ohm .....			3840	.45
Freed-Eisemann, 78, 79, 95 — 5,000 ohm .....			3907	.35
Freed-Eisemann, Model NR80, 1,750-2,000 ohms .....			3842	.60
Freed-Eisemann, Model NR80, 4,000-350 ohms .....			3843	.60
Freed-Eisemann, Model NR85, 1,000-350-2,000 ohms .....			3844	.80
Freed-Eisemann, NR70, 85 .....			5765	.80
Freed-Eisemann, NR80 .....			5766	.80
Freed-Eisemann, 411 B Eliminator...			5767	.80
Freshman, All N Models—18,000 ohms			3963	.65
Freshman, G—10,950 ohms .....			3966	.65
Freshman, G10—6,560 ohms tapped at 1,100, 1,500, 1,460, 1,500, 1,000..			3918	.75
Freshman, G60S—113,000 ohms .....			5762	.75
Eveready—8,925 ohms .....			6872	1.00
<b>G</b>				
General Electric, P41 .....			6393	1.50
General Motors, 16005 — 9,372 ohms tapped at 800, 59, 1,863, 2,000, 4,500	14547		3169	.80
General Motors, 5057—5,185 ohms...			6385	1.25
General Motors, 5524, 5525 — 6,300 ohms .....			6873	.75
General Motors, 5050—18,530 ohms...			6874	1.00
Graybar, 678 .....			6398	1.20
Grebe, SK4—D.C. Filament Resistor.			4245	2.00
Grebe, AC6—7,090 ohms .....			5768	1.00
Grebe, AC6—9,450 ohms .....			6512	1.00
Grebe, 671B .....			5770	1.00
Grebe Synchrophase—5,135 ohms....			6386	1.00
Grebe Synchrophase—12,900 ohms...			6387	1.50
<b>H</b>				
Howard, 135, 395, 445, 495—13,600 ohms			6388	1.25
Howard, 135, 395, 445, 495—16,000 ohms			6389	.90
Howard, 135, 395, 445, 495—17,500 ohms			6390	1.50
<b>K</b>				
King, 82—1,480 ohms .....			6391	.80
King, 82—16,000 ohms .....			6392	.95
Kolster, 6-H, K-5 .....			5513	.65
Kolster, 6J, 6K, 6L, 6F, 6R — 7,120 ohms .....			2441	4014
				.39
Kolster, K42—3,580 ohms .....	5071		5516	.40
Kolster, K38—4,430 ohms .....			5515	.50
Kolster, K24, K28—7,835 ohms .....	3983		3905	.40
Kolster, K44—2,600 ohms .....			6376	.80
Kolster, K21—30,000 ohms .....	4348		5525	.40
Kolster, 6J—6,560 ohms .....			3918	.75
Kolster, 6K, K20, K22, K25, K27 — 7,120 ohms .....			4014	.39
Kolster, K23—25,000 ohms .....			4024	.50
Kolster, 6H, 6K—Fixed Resistance...	4713		4025	.25
Kolster, K43—2,980 ohms .....			5864	1.10
<b>L</b>				
Lyric (Rudolph Wurhlitzer), 6,200 tapped at 2,000, 1,000, 3,000, 900...Y-439-R6			3482	.80
<b>M</b>				
Majestic, 9P6—3,600 ohm Resistor...	399		5466	.25
Majestic, 9P6—2,170 ohm Resistor...	102		5467	.25
Majestic, 30—10,471 ohms .....			6875	1.00

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## VOLTAGE DIVIDERS

Make	Models and Values	No. Part	No. Cat.	Price
<b>P</b>				
Philco, 76, 77, 77A—4,900 B Resistor tapped at 1,400, 1,500		3865	3987	.80
Philco, 511, 521, 531, 551, 571, 541, 561, 581—23,965 ohms		3088W	5568	.95
Philco, 20, 20A, 220, 220A—5,102 ohms		4230	3880	.60
Philco, 65			5771	.75
Philco, 87			5772	.75
Polydyne—Using 250 Tube			3963	.65
Polydyne—Using 171 Tube			3966	.65
<b>R</b>				
RCA, 33 D.C.—584 ohm tapped at 80.		2571	3871	.25
RCA, 18, 33, 51—3,940 ohms		2242	3872	.30
RCA, 17—voltage divider, 8,195 ohms.			3030	.60
RCA, 66—4,800 ohm Series Resistor.		6031	6395	.75
RCA, 64—3,040 ohms, tapped at 1500, 1000, 250, 126, 165		2343	6394	1.05
RCA, 44, 46, 47—8,250 ohms, tapped at 2750, 900, 3500, 1100		2543	6396	1.05
RCA, 33 D.C., 46 D.C.—48 ohms, tapped at 16			2582	.75
RCA, 46 D.C.—480 ohms, tapped at 195			6544	.75
RCA, 105 Speaker—3,825 ohms, tapped at 1050, 1475			6554	1.45
RCA, 41, Receptor Pack—25,300 ohms			5867	1.00
RCA, 64—7,780 ohms			5784	1.25
RCA, 30A—6,700 ohms			5785	1.25
RCA, 47—8,400 ohms			5786	1.25
RCA, 64, 67—4,470 ohms			6397	.95
RCA Electrola, AP952, 997, 860—400 ohms			6298	1.20
RCA, 44, 46, 47—2,580 ohms			6876	.75
RCA, 60—1,340 ohms			6877	.75
RCA, 67—4,030 ohms			6878	.95
RCA, 67—7,335 ohms			6879	.75
RCA, 42, 48			6398	1.20
<b>S</b>				
Silver-Marshall, 655—11,350 ohms			3164	1.00
Silver-Marshall, 659—10,300 ohms			3165	1.00
Silver-Marshall, 651—7,200 ohm tapped at 6,200 (large)			3166	1.85
Silver-Marshall, 651—9,720 ohms (small)			3167	1.10
Silver-Marshall, 672—5,500 ohms			3168	.75
Sonora, A33			5773	1.00
Sparton, 110—7,000 tapped at 2,000	A4260		3976	.80
Sparton, De Luxe—7,000	A3535		3977	.70
Sparton, 110 A.C.—10,000	A2043		3978	.50
Sparton, 301, 931—110 ohms			5857	.20
Sparton, 110—29,000 ohms			6880	.95
Splittorf, 153C			5774	1.00
Stewart-Warner—8,000 ohms tapped at 3,500, 3,500, 2,800		3873		.40
Stewart-Warner—15,000 tapped at 10,000	61665	3990		.95
Stewart-Warner—600 ohms C.T.	62163	3989		.50
Steinlite, 991—2,500 ohms		6881		.75
Steinlite, 50—25,877 ohms		6882		.95
Steinlite, 40—20,200 ohms		6399		1.50
Steinlite, 70, 80, 95, 22, 440 ohms		6400		.75
Stromberg-Carlson, 19, 20—3,285 ohms		6883		.75
Stromberg-Carlson, 638—9,000 ohms.		6884		.75
Stromberg-Carlson, 10, 11—4,880 ohms		5775		1.25
Stromberg-Carlson, 12, 14—6,570 ohms		5776		1.38
Stromberg-Carlson, 10, 11—9,860 ohms		5777		1.38
Stromberg-Carlson, 401		5778		1.00
Stromberg-Carlson, 403—5,500 ohms.		5779		1.25
Stromberg-Carlson, 403—3,770 ohms.		5780		1.00
Stromberg-Carlson, 635, 636—9,270 ohms		5586		.95
Stromberg-Carlson, 12, 14—11,025 ohms		5781		1.38
Stromberg-Carlson, 846, 848—6,380 ohms		5782		1.13
Stromberg-Carlson, 846, 848—9,200 ohms		5783		1.25
Stromberg-Carlson, 635 D.C.—30 ohms		5847		.75

Make	Models and Values	No. Part	No. Cat.	Price
Stromberg-Carlson, 641, 642, 652, 654—9,750 ohms			6401	1.25
Stromberg-Carlson, 641, 642, 652, 654—11,000 ohms			6402	1.20
<b>T</b>				
Temple, 8-60, 8-80, 8-90—6,850 ohms			3864	.30
Temple, D. C.—33 ohms			3867	.35
Temple, All—1,500 ohm audio bias			3861	.30
Temple, D. C.—250 ohm tapped at 50			3865	.25
Thorardson, 210 Resistor—8,000 ohm tapped at 6,800			3163	.60
Thorardson, 171 Resistor—13,000 ohm tapped at 2,000, 3,000, 3,000, 3000 and 2,000			3162	.95
<b>V</b>				
Victor, R-32, R-42, RE-45 and RE-75 2,525 ohm tapped at 200, 1,350, 200 and 775			3170	.65
Victor, 9-54, 9-18—4,470 ohms			6397	.95
Victor, 7-11, 7-25, 7-26, 9-16—8,195 ohms			6885	.75
Victor, 9-18—7,935 ohms			6886	.95
Victor, 9-18—3,670 ohms			6887	.95
Victor, 14, 15			6398	1.20
<b>W</b>				
Westinghouse, WR4—4,805 ohms			6398	1.20
<b>Z</b>				
Zenith, 33, 34, 35, 35A, 342, 352, 352A, 362—for Packs 10, 13—22,700 ohms.	63-85	3897		.95
Zenith, 34P, 35P, 35AP, 342P, 352AP, 37—7,200 ohms—for Packs 11, 14—6,750 ohms	63-72	3980		.95
Zenith, 35PX, 35APX, 352PX, 352APX—35,800 ohms—for Pack 18	63-97	3979		.95
Zenith, 39, 39A, 392, 392A, 40A—for Packs 12, 16	63-76	3983		.95
Zenith, 52, 53, 54, 60, 61, 62, 50, 60, 70, 702, 602, 612, 622, 64, 67, 642, 672, 71, 72, 73, 77, 712, 722, 732, 777—6,000 ohms	63-105	5567		.95

## VOLUME CONTROL GUIDE

(Continued from page 95)

Receiver	Models	Cat. No.	Price
<b>V</b>			
Victor, R14, R15, R17		5158	1.45
Victor, 7-25		7080	.55
Victor, 7-11		7081	.55
<b>W</b>			
Ware, SB45		7082	.90
Ware, K5		7083	.90
Ware, SBF		7084	.85
Ware, SBA		7085	.85
Ware, 8-1		7086	.80
Ware, B-1, B-2		7087	.80
Wells-Gardner, C, CG, 82, 72		6142	.50
Wells-Gardner, 13-10		7088	.75
Wells-Gardner, 13-10 Tone Control		7089	1.00
Westinghouse, WR5, WR6, WR7		6141	.50
Westinghouse, WR4		5158	1.45
<b>Z</b>			
Zaney Gill, 54		7090	.85
Zaney Gill, 54 Tone Control		7091	.85
Zenith, AH, CH, RH, 2012		7092	.80
Zenith, 33, 34, 35, 35A, 342, 352, 352A, 362, 35APX, 11, 12, 14, 15, 16, 17, 31, 32, 333, 353A		6120	.80
Zenith, 362X, 34P, 342P, 41, 42, 422		6121	.80
Zenith, 39, 39A, 40A, 392, 392A		6122	1.25
Zenith, 52, 53, 522, 532, 54, 542, 55, 57, 62, 64, 67, 60, 61, 602, 613, 622, 642, 672.			
(Note: Some of these models were later changed to dual controls. See below)		3204	1.25
Zenith, 52, 53, 522, 532, 54, 542, 55, 57, 62, 67, 64, 60, 61, 602, 613, 622, 642, 672, 71, 72, 73, 77, 712, 722, 732, 777		3201	1.50

MAIL ORDERS TO   
See Terms on Page 5

**Federated Purchaser Inc.**  
WorldRadioHistory

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or to our nearest branch

# By-Pass Condensers for Standard Sets

Sets and Models	Capacity	Cat. No.	Price
Atwater Kent 37, 38, 40, 42, 44, 46	3-.25 mfd. 1-.5 mfd.	2985 2984 7211	\$0.85 .75 .40
<b>Speaker Condenser</b>			
Bosch 1928-1929 models	2-.25 mfd. 1-.30 mfd.	2983	.65
Brandes B-10	.6-C-.6 mfd.	5618	.30
Colonial 32	2-.25 mfd. 2-.10 mfd. 1.5 mfd.	3211 5807	.65 .50
Crosley 60S, 61S, 62S, 63S, 65S Roamio 41, 41A, 42, 704, 706 60S, 61S, 62S, 63S, 65S	W6471 W7944 W4013O .6 mfd. W20449 W22412 W20446 W7753B W20186 W5943 W6428 W20187 W25426 W4919 W22995 W7753 W4968 W4313A W23738 W20448	2780 5219 2980 2781 5209 5210 5211 5212 5213 5402 5403 5404 5398 5399 5407 5408 5409 5411 5412 5427	.21 .30 .30 .25 .40 .40 .55 .55 .65 .25 .45 .22 .38 .30 .30 .42 .26 .27 .70 .33
Dayfan All	2-.1 mfd.	2761	.10
Earl All	.5 mfd.	2872	.15
Eveready 1928-1929	2-.25 mfd. 1-.30 mfd.	2983	.65
Fada All	1. mfd.	2902	.35
Federal D, E, F, F, H	3-.25 mfd. .001 mfd. 4 mfd.	2939 2963 5604	.40 .05 1.75
Freed All	.5 mfd.	2872	.15
General Motors 1930 Series A	3-.1 mfd. 1,202,685 1,202,273 1,202,251 1,202,287 1,203,860	5214 5215 5216 5217 5218 5400	.40 .55 .45 .50 .65 1.50
Kellogg All	.5 mfd.	2752	.25
Kolster 44, 45 43, 48 44, 45 430, 32 D.C. 44, 45 6, 6L, 6F, 6M, 75 6J	3-.5 mfd. .6-C-. mfd. 1. mfd. C-.1-.5 mfd. .5 mfd. 4. mfd. .6-C-.6 mfd.	5617 5618 5627 5628 5608 5603 5581	.50 .30 .35 .30 .20 .95 .35
Majestic 70, 90, 180	.5 mfd. 2-.5 mfd. 3-.5 mfd.	5448 5446 5447	.30 .30 .30
Peerless All Kylectron	.5 mfd. 7-.1 mfd. 1-.5 mfd. 3-.1 mfd.	2903 2864 2904	.30 .30 .39
Courier 65	3-.1 mfd.) 1-.00025")	7195	.45
Kennedy 20	Multiple By-pass	7183	.48
Radiola 64, 67		4180	1.75

Sets and Models	Capacity	Cat. No.	Price
80, 82, 86	3-.25 mfd. 2-.1 mfd. ) 1-.25 mfd.) 3-.1 mfd.) 1-.5 mfd.)	4182 4181	.40 .45
42, 48	3-.1 mfd. 2-.1 mfd.	3026 3027	.15 .15
44, 46, 47	.25-C-.25 mfd. 1-.1 mfd.	3028 3037	.15 .15
44, 46, 47	3-.1 mfd. 1-.25 mfd.	3026	.15
16, 41, 17, 60, 62 and All Supers All Models	1-.1 mfd. R.F. Choke 2-.001 mfd.	5295 2910	.35 doz. 1.25
Sparton All	1/2 mfd. 1. mfd.	5833 6894	.35 .35
410 Victor 9-18, 9-54, 9-56	4-.1 mfd. .1 mfd. 2-.1 mfd. 1-.25 mfd.	6608 4180 5728 4180	.35 1.75 .15 1.75
Victor RE 14, 15	3-.1 mfd. 2-.1 mfd.	3026 3027	.15 .15
U. S. Radio & Television	2378 964A 2628 170 2235B	5204 5205 5206 3013 5208	1.25 .75 .50 .35 1.25
Zenith 50, 60, 70 Series	4-.2 mfd.	6478	.90

## FILTER CONDENSER BLOCKS

(Continued from page 93)

Make	Models	Part No.	Cat. No.	Price
Sonora, Using 245 tubes			2914	1.85
Sparton, 930			5039	3.50
Sparton, AC 5			3159	3.50
Sparton, AC7, 601, 62, 63			5040	3.50
Sparton, 89			6576	3.25
Sparton, 109			7261	4.25
Splitdorf, M8			7263	2.95
Steinite, 70			7262	2.95
Steinite, 45, 70A			5037	3.50
Steinite, 40A			5038	3.50
Stewart Warner, 950, 100A			6575	3.25
Stromberg-Carlson, 635, 636, 638			3723	4.50
Stromberg-Carlson, 641, 642, 652, 654			6514	4.95
	T			
Temple, 8-60, 8-80, 8-90			2754	.95
Temple, Same as above for 25 cycles			2758	.95
Temple, 7-50, 7-60			2753	.95
	U			
U. S. Radio & Television, 46, 46A.			6777	1.75
U. S. Radio & Television, 47, 47A.			6778	1.75
U. S. Radio & Television, 41			6779	1.95
U. S. Radio & Television, 48, 48A.			6780	1.95
	V			
Victor, R-32, R-42, RE-45 and RE-75			2709	.95
Victor, Electrola, Hyperion and Borgia			3721	1.65
	W			
Willard, B Elim. Condenser			5041	3.25
	Z			
Zenith, ZE11, '12, 14, 18		PL1145	2800	1.35
Zenith, ZE18...35PX, 35APX and		37A	2701	4.50
Zenith, ZE17		353AX	2700	1.50
Zenith, ZE10			3160	3.00
Zenith, ZE13			3161	4.00
Zenith, ZE6			3171	5.00
Zenith, 39			3181	3.75
Zenith, ZE8 (set of 2)			5042	7.50
Zenith, ZE9, Pack			5043	2.50
Zenith, 9E, 11E, 14E			5043	2.95

# POWER TRANSFORMERS

(Continued from page 92)

Set	Model	Cat. No.	Price
<b>K</b>			
KOLSTER INTERNATIONAL, K70		7237	3.95
KOLSTER INTERNATIONAL, K60		7238	3.95
KOLSTER (D), K29		6781	3.95
KOLSTER (D), 6J, 6K		2534	4.25
KOLSTER (O), 6H, K5		5632	7.85
KOLSTER (O), 20, 21, 22, 23		5509	4.95
KOLSTER (O), 28		5507	3.95
KOLSTER (O), K38		5503	6.50
KOLSTER (O), K45		6815	8.85
KOLSTER (O), K43, 48, using 171A or 245 tubes		5504	4.75
KOLSTER (O), K44		5506	6.75
KOLSTER (O), K25, 27		5718	6.85
KOLSTER (O), K24		2655	5.50
<b>M</b>			
MAJESTIC B ELIMINATOR (D)		2525	1.50
MAJESTIC 91, 92 (227, 245, 280 tubes)		2612	4.00
MAJESTIC (D), 130, 131, 132, 233		6767	3.95
MAJESTIC (D), 71, 72 (Pack No. 7BP6)		5104	4.00
MAJESTIC (D), 130A, 230A, 130, 131, 132, 133		7020	5.25
MAJESTIC 180 (Radio-Phono Combination) (227, 250, 281)		2619	7.50
MAJESTIC (O), 71, 73 Filament and Plate transformers in one can		2684	4.75
MAJESTIC (O), 90B, 100B		5872	4.75
MAJESTIC (O), 180 Filament		5458	1.50
MAJESTIC (O), 180 Plate		5460	1.50
MAJESTIC (O), 70 Series Filament		5464	2.50
MAJESTIC (O), 70 Series Plate		5463	1.50
MAJESTIC (O), 90 Series Filament and Plate		5461	2.95
MAJESTIC, 21, 22, 23		7239	3.95
MAJESTIC, 50		7240	3.95
MAJESTIC, 60		7241	3.95
MAJESTIC (O), 90B, 100B Filament and Plate		5872	4.75
<b>P</b>			
PEERLESS (O), Courier, 65		2615	2.75
PEERLESS (O), K70, 20, 22		2569	4.85
PHILCO (O), 20, 220		4321	2.85
PHILCO (O), 65		2600	2.85
PHILCO (O), 70		6248	2.85
PHILCO (O), 76, 77		6242	2.35
PHILCO (O), 82, 88		6241	2.85
PHILCO (O), 87		2604	\$2.25
PHILCO (O), 90 (using 245 tubes)		6247	2.85
PHILCO (O), (using 247 tubes)		6247	2.85
PHILCO (O), 95, 98, 296		6246	2.85
PHILCO (O), 111, 112, 211, 212		6244	2.85
PHILCO (O), 500 Series		2620	2.85
PHILCO (O), 500 Series, 25 cycle		2621	3.95
POLYDYNE (O), Model Q, 60 cycle (222 Tube)		2423	3.25
<b>R</b>			
RADIOLA (O), 18, 25 Cycle		6770	4.25
R C A (O), 17, 18, 33, 51		2551	1.80
R C A (O), 17, 18, 33, 51, for 220 V. A.C.		3734	3.95
R C A (O), 41		6816	2.50
R C A (D), 44, 46		2573	3.25
R C A (O), 48, 42		2531	2.85
R C A (D), 60, 62		2568	3.25
R C A (O), 60, 62, 25 Cycle		2677	4.85
R C A (O), 66		2683	3.50
R C A (O), 44-46 for 220 V., A.C.		3729	3.95
R C A (O), 80, 82, 86		2676	2.65
R C A (O), 104 Speaker		6099	4.50
R C A, 64, 67		2675	9.45
R C A SUPERETTE (O)		6919	1.95
R C A -VICTOR (O), R35, R39, RE57		6769	3.95
R C A -VICTOR (O), RE14, RE15		2531	2.65
R C A THERAMIN (O)		6771	3.95
<b>S</b>			
SEARS ROEBUCK (O), Power Pack		6504	7.85
SILVERTONE (O), Power Pack		6504	7.85
SLEEPER MONOTROL, Type 70		7242	3.50
SONORA (O), A31, B31		2603	3.40
SPARTON (D), 69, 79A, 89A		5851	2.98
SPARTON (O) 301		7001	3.85

Set	Model	S	Cat. No.	Price
SPARTON (D), 589			7002	4.75
SPARTON (D), 931			7003	4.75
STEINITE (O), 40A, 40S, 40, 45A			5866	3.40
STEINITE, 70 80			5364	3.95
STEWART WARNER (D), 100A-B-E			6921	3.75
STEWART WARNER (D), 801, 801A, 802			7021	3.25
STROMBERG-CARLSON (D), 638			6768	6.50
654			2663	4.50
STROMBERG-CARLSON (D), 635, 630			3722	4.25
STROMBERG-CARLSON (D), 10, 10A, 11			5850	5.25
STROMBERG-CARLSON (D), 848			5601	4.50
STROMBERG, 12, 14			7243	3.95
STROMBERG-CARLSON, 19, 20			7244	3.95
STROMBERG-CARLSON, 29			7245	3.95
<b>T</b>				
TEMPLE (O), 8-60, 8-80, 8-90, 8-61, 8-81, 8-91			5583	3.75
<b>U</b>				
U. S. TELEVISION & RADIO (O), Gloriatone			6250	2.35
U. S. RADIO & TELE. (O), 561			2501	1.50
U. S. RADIO & TELE. (O), 540			2509	1.50
U. S. RADIO & TELE. (O), 581			2510	1.50
U. S. RADIO & TELE. (O), 680			2514	1.50
U. S. RADIO & TELE. (O), 681			2516	1.50
U. S. RADIO & TELE. (O), 682			2507	1.50
U. S. RADIO & TELE. (O), 1945			2517	1.50
<b>V</b>				
VICTOR (O), R-32, R45, 75			6330	3.45
VICTOR (O), R-32, 25 Cycles			2554	3.75
VICTOR (O), 14, 15, 17			2531	2.75
VICTOR (O), 34, 35, 39, 57			5456	2.65
<b>W</b>				
WESTINGHOUSE (O), WR4			2531	2.25
WESTINGHOUSE (O), WR5, WR6, WR7			2627	2.65
<b>Z</b>				
ZENITH (D), KE9			6841	3.25
ZENITH (O), Super 27, No. 4 Pack			2568	1.85
ZENITH (O), 10, 11, 12, 60 cycle			2527	2.75
ZENITH (O), 53, 54, 55, 52, 57, 62, 60, 61, 64, 67, 522, 602, 613, 622, 642, 672, 71, 72, 73, 77, 712, 722, 732, 777			5422	2.25
ZENITH, 9			6841	3.25

## Audio Transformer Guide

Receivers	Models	Cat. No.	Price
Atwater Kent	40, 42, 46, 1st audio	7057	.50
Atwater Kent	46 Input	7058	.50
Atwater Kent	P.P. Output	7168	.50
Atwater Kent	20, 30, 35, 37	2606	\$1.25
Atwater Kent	41, 1st audio	6890	1.25
Atwater Kent	41, 2nd audio	6897	1.25
Brunswick	32.42 Input	7204	1.35
Columbia	902, 920	5534	3.85
Crosley	126 D.C., 126-1 D.C., Double PP Input	7212	1.25
Earl	41	3720	1.50
Earl	All	2515	.85
Freed	95	3720	1.50
General Motors	A Input Trans.	7264	1.65
Grebe	Straight Audio	5105	.95
Grebe	Input Audio	6651	1.50
Kolster	K20, K21	5587	1.95
Kolster	Output choke	3725	.95
Kolster	Double choke		
	6J, 6K, 6F, 8M, 6R	5534	1.85
Philco	See Complete Philco Listing on Page 19.		
R C A	17, 18, 33, 51	2512	1.40
R C A-Victor	46, 47, 66	5825	.60
R C A	All, Push-pull	2566	.49
Sonora	Input Transformer	7266	.95
Stromberg Carlson	846	6517	2.75
Stromberg Carlson	846 Audio & Input	6517	2.75
Victor	All	2581	.75
Victor	All early models		
	Push-pull pack	5744	1.00
Zenith	50, 60, 70 series		
	Interstage	6585	2.75
Peerless	All	2513	.60

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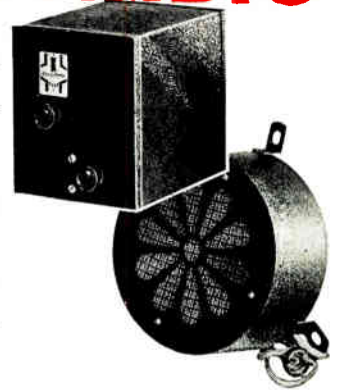
# New Heights of perfection

## reached with the *Acratone* AUTO-RADIO

**A**FTER months of experimenting, ACRASTON engineers have perfected a really marvelous automobile radio, utilizing the new type auto screen grid tubes throughout, giving uniformly good reception in all locations and the most simple of sets to install.

Now *everybody* can afford a radio in their car! You can sell the ACRASTON AUTO RADIO for *less than \$50 completely installed*, and still net a handsome profit. Despite the extremely low price the ACRASTON has the following features:

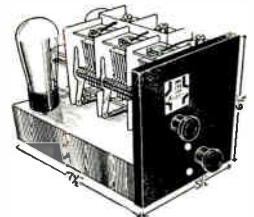
1. Employs 2-239 RF Pentodes, 1-236, 1-237 and 1-241 A. F. Pentode Tubes.
2. Equipped with Magnavox Special Auto Dynamic Speaker.
3. Installed on steering post or dashboard—only 4 holes to drill.
4. Low battery drain—only 20 M. A.
5. Sold complete—nothing else to buy.



### The Receiver

The ACRASTON Automobile Radio is a super-sensitive 5 tube improved radio frequency receiver employing new type auto radio tubes of low current consumption:

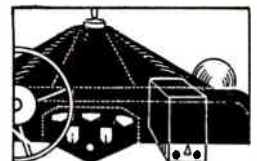
Three tuned circuits, followed by a stage of 41 power pentode, provides the utmost selectivity, sensitivity and fidelity of reproduction. The compact chassis is cadmium plated and is housed in a metal can. Only 2 screws to loosen in order to remove the chassis.



### Compact

The ACRASTON Auto Radio is the most compact on the market. It measures only 5½ in. wide, 7½ in. long and 6½ in. high, and weighs 7 lbs. The Magnavox Dynamic Speaker is 7½ in. in diameter and housed in a metal case, with mounting brackets and has a center bolt so that it may be easily mounted on the cowl, on the ceiling, on back of the driver's seat or on the dash. Both set and speaker are finished in handsome black crackle to harmonize with the inside fittings of the car.

### 1933 Model



Can be installed under dash or on steering post

**Can Be Installed in—**  
**AUTOMOBILES**  
**MOTOR BOATS**  
**AEROPLANES**  
**MOTOR BUSES**  
**TAXICABS**

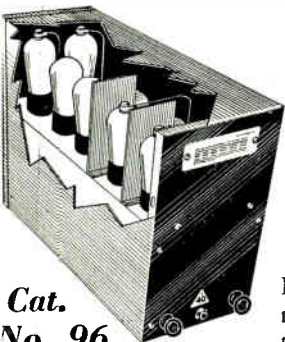
A complete suppressor kit, consisting of 6 spark plug suppressors, 1 generator silencer and 1 distributor suppressor is furnished with the set. A Ward Royal Auto Antenna, which is attached underneath the running board, is also furnished, as is a steel battery box, 5 Sylvania tubes, and 3 large 45 volt B batteries, which furnish all the necessary B and C current for the set. The car storage battery is utilized to furnish the current to light the filaments of the tubes.

# STERLING AUTOMOBILE RADIO

The set of simple installation, marvelous operation

Utilizes All Heater Type Tubes—2-236, 2-237, 2-238

Illuminated Dial . . . Lock Switch . . . Magnavox Dynamic Speaker. Made to sell for around \$45.00 to the dealer and now offered to you for less than half!



Cat. No. 96

For Outfit consisting of a 6-Tube Chassis housed in a heavy steel case, Magnavox dynamic speaker, shielded cable, shielded battery cable, steering column clamp and mounting brackets.

**Our Net Price** . . . . . **\$19.85**  
**Set of Universal Tubes** . . . . . **\$4.35**

# Midgets in size GIANTS - in performance

## Publix Receivers

**FEATURING 5 MODELS**  
With Latest Improvements

Including—

- TONE CONTROL
- FULL VISION DIALS
- VARIO-MU AND PENTODE TUBES
- FULL DYNAMIC SPEAKERS

Outstanding in value without sacrifice of quality, these splendid receivers incorporate features usually found only in high priced receivers. The reception is remarkably faithful, selectivity minute and volume ample for all requirements.

**Model 54** For people living in districts using Direct Current this efficient receiver will be a revelation in performance. The use of heater type tubes makes the set very efficient and insures the absence of line hum. The set also boasts of Tone Control and 2 of the new direct current Pentode Power Tubes are used in push-pull, giving great volume if desired. A very artistic walnut cabinet with fluted sides and Gothic grille houses this receiver. Illuminated single dial control.  
Cabinet 19½ in. high, 15½ wide, 9½ deep.  
Uses 3-236 Screen Grid and 2-233 Pentode Tubes.  
Set of Universal Tubes .....\$3.85  
Set of Arcturus Tubes ..... 7.25

**Model 77** Incorporating the most recent developments in super-heterodyne design, this 7-tube model is the last word in radio efficiency. Its ability to receive stations at great distances with ample volume is almost uncanny. In this receiver selectivity attains perfection and fidelity of reproduction is second to none. Volume from a mere whisper to auditorium-filling crescendo can be attained. Tone control enables you to bring out any desired shading of tone color. The cabinet is beautifully designed with a suggestion of the Orient and lends itself to any surroundings. The illuminated tuning dial is enhanced with a handsome bronze escutcheon plate.  
Cabinet 19½ in. high, 15½ wide, 9½ in. deep.  
Tubes used: 2-551 or 235 Vario Mu, 2-224 Screen Grid, 1-227 Detector, 1-247 Pentode and 1-280 Full Wave Rectifier.  
Set of Universal Tubes .....\$3.45  
Set of Arcturus Tubes ..... 5.50

**Model 93** A receiver extremely low in price, yet embracing the latest improvements in design, including the new type tubes. Tone control enables you to emphasize high or low notes and bring out the proper shading. Vario Mu tubes eliminate cross-talk and make for sharp tuning. The Pentode Tube gives ample volume for every requirement. Cabinet 15" high, 13½" wide and 9½" deep.  
Uses 2-58, 1-57, 1-247 and 1-280 tubes.  
Set of Universal Tubes .....\$2.95  
Set of Arcturus Tubes .....\$3.85

**Model 70** This 7 Tube Tuned Radio Frequency Model is designed primarily for people with whom great distance reception is secondary but who desire the utmost in quality of reproduction. The receiver uses three of the new Vario Mu tubes for utmost selectivity, on Screen Grid Detector and two of the powerful Pentode Tubes in push-pull. This combination makes for remarkable fidelity of tone with great volume where the occasion requires. The Cabinet is of a very popular Gothic design and of very beautifully matched walnut overlays. Illuminated dial with bronze escutcheon. Tone Control gives you just the right emphasis of instruments.  
Cabinet 19½ in. high, 15½ in. wide, 9½ in. deep.  
Tubes used: 3-551 or 235 Vario Mu, 1-224 Screen Grid, 2-247 Pentode and 1-280 Full Wave Rectifier.  
Set of Universal Tubes .....\$3.45  
Set of Arcturus Tubes ..... 5.50

The set is the product of the Publix Laboratory and is well constructed with materials throughout. Operates on a 25-ft. aerial and brings in stations in a radius of 500 miles and more. Full vision dial. Handsome mahogany two tone cabinet.

The set is ideal for the bungalow, camp, sun-parlor, bedroom, or anywhere a small individual set is required. You can sell this set at \$19.50 complete with tubes to thousands of prospects right in your town. Order your sample today and get started making sales to people who have no radio sets in your city. Nobody can afford to without radio for \$19.50!

11¼ in. long, 8¾ in. wide, 14½ in. tall.  
Uses 1-235 or 551, 1-224, 1-247 and 1-290 Tubes.  
Set of Universal Tubes \$2.00  
Set of Arcturus Tubes. 3.00



**MODEL 74** \$10  
4-TUBE 110V. A.C.



**MODEL 93** \$13  
5-TUBE 110V. A.C.

**MODEL 54** \$14  
5-TUBE 110V. D.C.



**MODEL 70** \$17  
7-TUBE TRF

**MODEL 77** \$19  
7-Tube Superheterodyne  
Both for 110 V. A. C.

# A Great Success!

## Acratone RECORDER



### For Cutting and Recording on Aluminum Record Blanks

Has Won Universal Acclaim From Sound Engineers, Broadcasting Studios and Recording Laboratories

A Really Practical Recording Device for Recording Favorite Radio Programs, Sound Truck Announcements, Musical Accompaniments, Home Movie Sound Effects, Transcription Programs, Sound Effects, Dancing Studio and Gymnasium Recording, Advertising Talks, Campaign Speeches, etc., etc.

The recorder is extremely simple to install. One single 3/8" hole is all that is necessary to mount it. In recording it is only necessary to move the arm to the center of the record and throw the lifting lever to the down position. This immediately starts the recording which evenly grooves the record. The remarkable number of 96 grooves per inch are cut which allows the recording as long a playing time as standard phonograph records. The recorder may be operated at either 78 or 33-1/3 r.p.m.

### Amplifier to Match

Acratone has developed an amplifier suitable for recording and public address use. This amplifier uses three stages and gives excellent quality for microphone, radio and phonograph recordings. This amplifier has special settings of its volume control for recording purposes. Fully described elsewhere in this catalog.

Cat. No. 101 **Price \$24.50**

### Recording Motor

We have found that ordinary phonograph motors are hardly suitable for recording as they are not powerful enough for such purposes.

This Motor is specially fitted for recording purposes. It is extremely powerful and can be switched from 78 r.p.m. to 33-1/3 r.p.m. by just a throw of the switching lever.

Cat. No. 274 **Price \$12.50**

The Acratone Recorder makes records that are really outstanding in quality and are comparable to standard transcription records. Already this recorder is being lauded by broadcast engineers as the first practical and simplified studio recording unit. It is extremely simple to operate and records instantaneously. Records are practically free from needle scratch and background noise.

### For Complete Cutting Outfit

Consisting of:

**CENTER SPINDLE  
CUTTING HEAD  
THREADER  
HARDWARE  
SWIVEL ARM**

Cat. No.	Impedance of Cutter
70	15 ohms
71	500 ohms
72	4000 ohms

In Ordering Mention Type Required

**DIAMOND RECORDING NEEDLE**  
Cat. No. 276 **Price \$6.00**

**FIBRE REPRODUCING NEEDLES**  
Cat. No. 6929 **25c Package of 50**

### Simple to Operate

In recording a great deal of volume is unnecessary. An ordinary midget receiver at normal room volume is sufficient. For microphone announcements the volume should be turned slightly higher. A special cutting needle is suggested for best recordings. Fibre needles are used for reproduction except where the records are processed. This process enables the use of steel needles. The processing is done after the recording has been made. This processing, described below, hardens the surface of the record and makes it last thousands of reproductions.

### For Campaign Speeches

This recorder can be put to use to great advantage by political organizations and individual office seekers. Speeches may be recorded on blanks and distributed to theatres, clubrooms, and other public places for reproduction. With a portable public address system, such speeches can be reproduced to great numbers of voters. This angle offers a real opportunity to radio dealers and servicemen.

Easily installed on phonograph turn table. Only one hole to drill.

Three Stage "250" Amplifier for recordings using -56, 1-58, -250 and -281 tubes.

Special Recording Motor. Two speed, 78 p.m. and 33 1/3 p.m.

### Processing

We have arranged for a service to process these records. All records are shipped to 25 Park Place to attention of Recording Department.

**Price \$1.25 each**  
ONE WEEK DELIVERY

Radio servicemen and dealers will find a new field of endeavor with this recorder as it lends itself to many applications.

# 7 Links in our service chain!

- 1.** NEW YORK, N. Y.  
169 Washington St.  
BARclay 7-7545

*M. Raymox, Manager*

- 2.** JAMAICA, L. I.  
92-26 Merrick Rd.  
REpublic 9-8187

*Nat Love, Manager*

- 3.** MT. VERNON, N. Y.  
51 East 3rd St.  
Hillcrest 2293

*H. H. Moore, Manager*

- 4.** NEWARK, N. J.  
273 Central Ave.  
Market 2-5390

*Walter Fisher, Manager*

- 5.** PHILADELPHIA, PA.  
2909 Broad St.  
Baldwin 2825

*Mark Freas, Manager*

- 6.** ATLANTA, GA.  
631 Spring St. N.W.  
Hemlock 4613

*John R. Dye, Manager*

- 7.** MAIN OFFICE  
AND WAREHOUSE  
25 Park Place  
New York, N. Y.

SAMUEL ROTH  
*President*

