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Oct. - Nov.
1932

RADIO BARGAIN NEWS

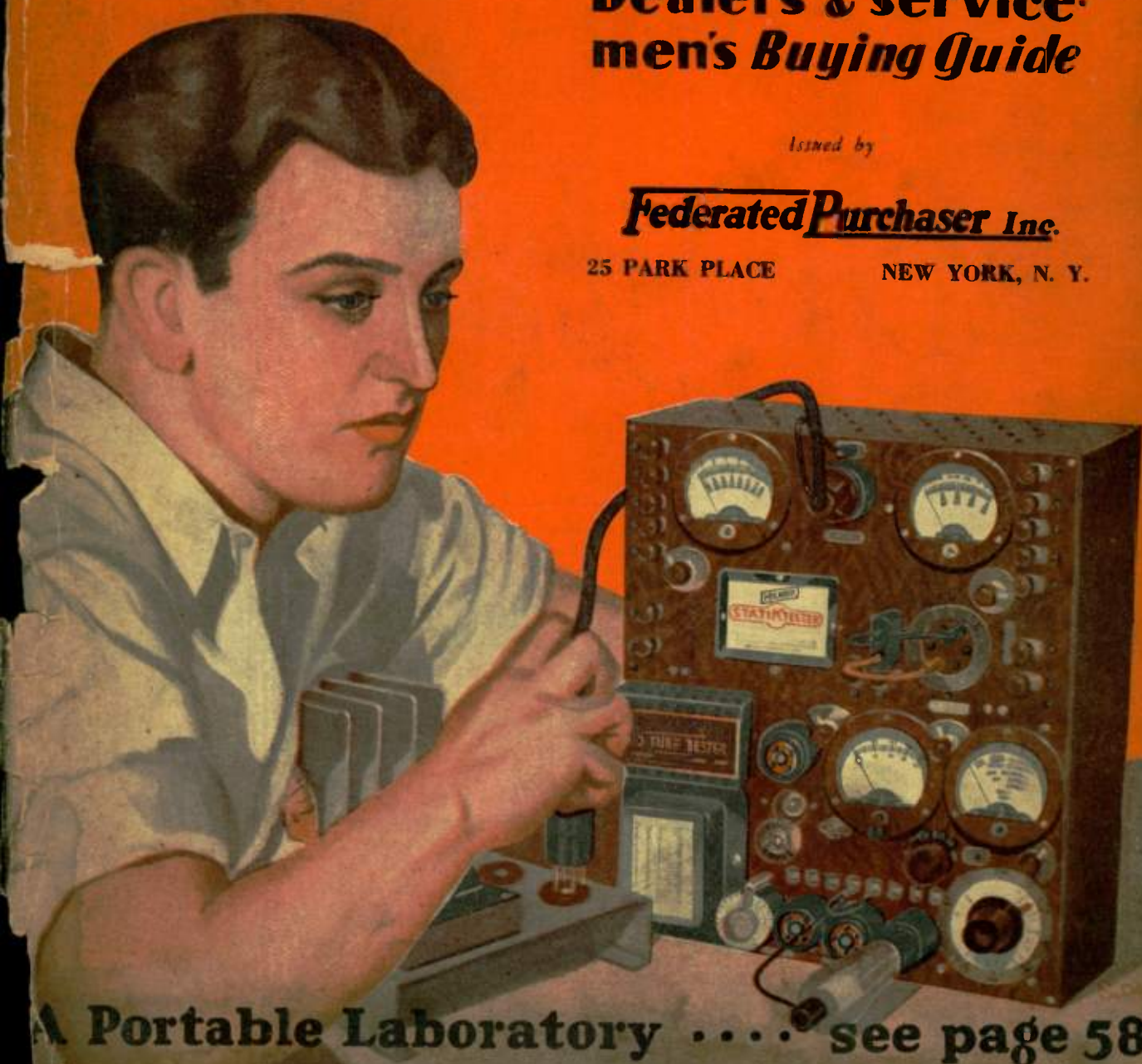
**Dealers' & service-
men's *Buying Guide***

Issued by

Federated Purchaser Inc.

25 PARK PLACE

NEW YORK, N. Y.



A Portable Laboratory see page 58



Acratone 16 Ghost tuning MODELS

Cat. No.
38

200-600 METERS
110 V. 50-60 CYCLES
Regular Broadcast Model

\$14.75
Less Tubes

AC Models employ 1-57, 2-58, 1-247 and 1-280 tubes.

DC Models employ 3-236, 1-237 and 2-238 tubes.

| | | |
|---------------------------|--------|--------|
| | A.C. | D.C. |
| Set of Universal Tubes... | \$2.95 | \$4.50 |
| Set of Arcturus Tubes... | 3.85 | 8.25 |

Features:

- **GHOST TUNING***
- 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. operation, less tubes. . . . \$33.50

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. 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. 38, \$18.50
42, less tubes . . .

Short and Medium 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, \$15.25
less tubes . . .

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

RADIO-PHONOGRAPH COMBINATIONS

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

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 from **FOREIGN COUNTRIES** must be accompanied by Cash in Full—plus Transportation, Consular, and Insurance charges. Or, they must be accompanied by an Irrevocable Letter of Credit on some bank in New York with instructions to that bank to pay us on presentation of shipping documents.

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.

The Observance of These Simple Rules Will Greatly Assist Us to Expedite Your Orders

1. Use our order blank whenever possible. (A supply will be sent on request.)
2. If you write your order on your business stationery, use one side of the sheet only and tabulate the items, one item on a line.
3. Order by catalog number and always fill in prices.
4. Do not list any items on your order which are not shown in our catalog. Write such items on a separate sheet of paper.
5. Do not write anything on the order blank which does not pertain to the order itself.
6. When you deduct a credit memo from an order, be sure to attach that credit memo to the order.
7. Please avoid sending us orders for less than \$3.00. Besides incurring a loss on such orders, this rule is for your protection. It discourages orders from individuals who are not entitled to wholesale prices.

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:

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

We Maintain the Following Branches for Your Convenience

169 Washington St., New York, N. Y.

92-26 Merrick Road, Jamaica, L. I.

51 East 3rd St., Mount Vernon, N. Y.

2909 No. Broad St., Philadelphia, Pa.

631 Spring St., N. W., Atlanta, Ga.

Main Office and Warehouse

25 PARK PLACE, NEW YORK, N. Y.

Telephones: Barclay 7-7582-7583-7584-7545

Cable Address: FEDERPURCH

When We Economize, You Profit

The circulation of **RADIO BARGAIN NEWS** has grown tremendously since it was first published in March, 1931. It is to-day the recognized "dealers' and servicemen's buying guide" and the demand for it is world-wide and requests for it from new readers never cease. To meet this large circulation has meant an enormous expense on our part. We have never shirked from this expense, but have, on the contrary, constantly improved and enlarged the book in order to justify its reputation and its universal patronage.

However, we are desirous of having our catalog go to only those dealers and servicemen who make good use of it. The only way we can ascertain that you want the book is by receiving an occasional order from you.

Therefore, henceforth the mailing of our catalog will be restricted to those who have been sending us orders. The others will be removed from our mailing list and our circulation reduced as a measure of economy. This saving will be reflected in our low prices and thus be passed on to you. Your co-operation will be of mutual benefit.

Samuel Loth

President.



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 1/2 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 **\$6.50**
Our Price

New Auto-Radio Steering Column Control

Feature Specifications:

Pressed steel construction—all metal parts rust proof cadmium and black finish—small size 3 1/4 in. x 4 1/4 in. x 1 in. thick—light weight—key lockswitch—millimeter 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 |
|---|-----------|
| 5163 Flexible shaft, 1 or 2 foot length | \$.30 ft. |
| 5166 Couplings for rod or flexible length | .15 ea. |
| 5167 Universal joints for rod or flexible shaft | .20 ea. |
| 5168 Bersemer 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.

If you are not receiving "Radio Bargain News" regularly, send in your name and address.

Silencer Kits

For all makes of automobile radios except Buick, etc., with overhead valves. These use Cat. No. 6534 suppressors.



Consists of 4, 6 or 8 spark plug suppressors, 1 distributor silencer, and a 1 Mfd. generator silencer. Most kits on the market use a 1/2 Mfd. condenser while we include a 1 Mfd.

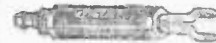
| Cylinders | Cat. No. | Price |
|-----------|----------|--------|
| 4 | 4237 | \$1.50 |
| 6 | 4238 | 2.00 |
| 8 | 4239 | 2.35 |

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 1

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.



MODEL T

Cat. No. 6534

Price 20c ea.

ACRATEST

Distributor Suppressor



sert wire in other end.

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.

Faradon 4 Mfd. 600 V. Condenser



3 1/2 x 2 1/2 x 3 in.
Suitable for A.C.
Line Filters.

Cat. No. 5604 **\$1.75**
Our Price

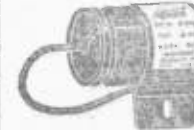
Distributor Silencer for Automobile Radios

The distribution of an automobile is the source of most noise due to the make and break action of the rotor. This condenser and choke coil, when connected in series with the low tension line and the can grounded to the chassis, will eliminate all distributor noises. Used and approved by some of the largest auto radio manufacturers.

Cat. No. 7518 **\$5.00**
Our Price

Generator Silencers

MODEL M



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

Cat. No. 6448 .5 mfd..... 38c
Cat. No. 6449 1 mfd..... 65c

De Luxe Car Antenna



FEATURES

1. More sensitive, in most cases 75000 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 Philips, Motorola, Majestic, General Motors, Spanton, Crosley and all other makes of Auto Radio.

Shipping weight, 5 lbs.

Cat. No. 240 **\$2.25**
Our Price

Flexible Car Antenna



Easy to Install

| Cat. No. | Length | Width | Price |
|----------|--------|-------|--------|
| 7186 | 36 in. | 4 in. | \$0.85 |
| 7188 | 34 in. | 6 in. | 1.25 |
| 7189 | 34 in. | 8 in. | 1.10 |
| 7190 | 34 in. | 8 in. | 1.40 |

Made of closely woven electrical copper mesh, and covered with a black melina synthetic leather. It is 62 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.

Special Automobile Antenna

Same in appearance and construction as the No. 240 De Luxe ANTENNA, except that the 17 ft. have been omitted in order to bring it down to a popular price.

Cat. No. 518 **\$1.95**
Our Price

BUD POLICE THRILLER SHORT WAVE CONVERTERS

What a Thrill to Get Police Calls and Reports or Pick up
Some Other Event Which Never Appears in Print!



Socket Type
Tube Cat. No.
227 6047
224 6048
List, \$2.50

BUD POLICE THRILLER fills a long wanted need for a simple device that can easily be attached to the radio set without the necessity of changing any wiring in the set or incurring any expense other than the price paid for BUD POLICE THRILLER.

BUD POLICE THRILLERS are made in two types. One type is to be used where there is ample space for the adapter and tube to fit into the socket. The other type is to be used where the cabinet of the radio set is so constructed that the Police Thriller would not fit in because of insufficient space in cabinet. Because of this we have one which has a plug attached to the Police Thriller. This plug is to be placed into Detector Tube Socket.

BUD POLICE THRILLER when connected to broadcast receiver changes the tuning from 80 to 200 meters on the broadcast receiver. This will enable you to bring in amateur broadcasts in addition to Police Calls. Instructions for operation of BUD POLICE THRILLER in broadcast receiver is printed on each box in which BUD POLICE THRILLER is packed.

No. 6048 for sets using screen grid detector tubes.
No. 6047 for sets using 227 or 327 detector tubes.

Our Price \$1.50



External Type

Tube Cat. No.
227 6049
224 6050

List, \$3.50

No. 6050 for sets using screen grid detector tubes.

No. 6049 for sets using 227 or 238 detector tubes.

Our Price \$2.10

SHORT WAVE Superheterodyne Coil Assembly



Short Wave Superheterodyne Coil Assembly for 10-200 Meters
Cat. No. 6572

Our Price \$3.75

An assembly of short-wave coils and a low capacity switch eliminating the inconvenience of plug-in coils. Just a turn of the switch enables the choice of the 10-20, 20-40, 40-80 or 80-200 meter coils. Coils may be readily wired into a short-wave converter circuit for use with T.R.F. or superheterodyne broadcast receiver. Circuit is so arranged that all power for the converter is furnished by the broadcast set. Complete wiring diagram and instructions for building short-wave converter furnished with each assembly. Each assembly equipped with knob and escutcheon plate marked with wave length. Overall dimensions of entire coil and switch assembly, 4 3/8 in. wide by 4 1/2 in. high by 6 1/4 in. long.

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. 22 1/2 in. high, 12 in. wide, 17 1/2 in. long.



\$2.50 Cat. No. 507

Naald Bakelite Short Wave Plug-In Coils

16 to 200 Meters

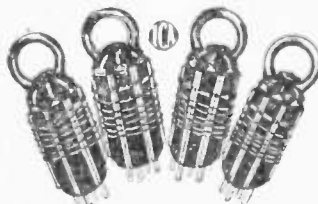
The finest grade Litz wire wound on bakelite forms. Will fit standard UX sockets.



Cat. No. 7180
Per Set of 4..... **\$1.50**

I. C. A. Short Wave Plug In Coils

Groove Wound



Cat. No. 6980
Our Price \$2.95

Per Set of 4

The finest quality short wave coils wound on ICA low-loss bakelite forms. Carefully and accurately designed to fit U.X. sockets. Four coils covering band of 16 to 225 meters.

THE A-C DAYTON Fleweling Short Wave Adapter

Wave length range 18-18 meters; has 3 plug-in coils for 3 wave length ranges—17-29, 27-48 and 47 to 84 meters, which are the only active broadcast bands. No additional tubes or batteries required. Adapter comes complete with nothing else to buy.

No wiring change in your set. Adapter is housed in a beautiful little cabinet finished in Adam Brown with an engraved control panel, making a very handsome appearance which will harmonize with the finest of radio cabinets.

Cat. No. 72

The Type UX Adapter, list price \$15.00, fits any set using

UX-201A

UX-201A

UX-199, WD-11

or AC-226

Cat. No. 73 type tubes.

The Type UX

Adapter, list

price \$15.00, fits

only those sets

using UX-227

A.C. tubes,

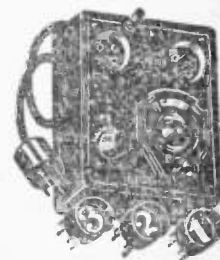
either as first

radio frequency

amplifier or as

detector in the

detector socket.



Price \$4.95

For Either Type

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**

Naald Coil Forms

Color Coded Plug-In Coil Forms

Genuine Makalot—brilliantly colored code rings of red, green, yellow and blue. Diameter 1 1/4". Winding space 2". Overall 2 11/16". Provided with flange for easy removing. Natural easy grip that removes coil without touching or distorting winding. Center opening to put wire through when winding and before soldering. Tapered holes to prongs for easy insertion of leads.



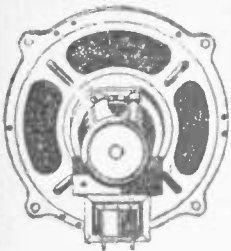
Cat. No. Each
6695-4 Prong—15e
6696-5 Prong—15e
7358-6 Prong—15e

MAIL ORDERS TO
See Terms on Page 3

Federated Purchaser Inc.

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

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 midset 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 Cat. No. | Model | Size | Our Price | P. P. Output Cat. No. |
|------------------------|-------|----------------|-----------|-----------------------|
| 141 | K-5 | 8 1/2 x 5 1/2" | \$4.50 | 178 |
| 142 | K-6 | 8 1/2 x 5 1/2" | 4.95 | 179 |
| 143 | K-7 | 9 1/2 x 5 1/2" | 5.25 | 184 |
| 144 | K-9 | 11 x 5 1/2" | 5.95 | 183 |

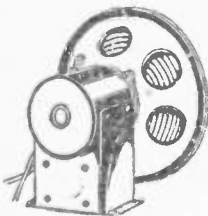
Equipped with either single or Push Pull transformer. Standard field coil resistance, 2500 ohms for excitation by 40 to 80 milliamperes of direct current at 75 to 150 volts.

Utah Balanced D.C. Chassis

2500 Ohm with Input Transformer

Utah Balanced Shielded Dynamic Chassis is the highest development in sound reproductions. This speaker is built for those who desire to handle volume quality of tone over the full range of musical instruments.

Cat. No. 111 \$3.50
Our Price



Dynamic Speaker Field Coils

| Cat. No. | Speaker | Our Price |
|----------|------------------------------|-----------|
| 6549 | Colonial 33 | 1.75 |
| 7191 | Freed Elseman 20, 85 | 1.45 |
| 7192 | Jensen 1,000 Ohms | 1.45 |
| 7267 | Peerless 7,000 Ohms | 1.25 |
| 5819 | Radiola 104 | \$1.50 |
| 5102 | Radiola 80, 82, Westinghouse | |
| | WR5, 6, 7 | 2.00 |
| 7142 | RCA Photophone 1,000 Ohms | 3.50 |
| 7143 | RCA Photophone 6 Ohms | 5.50 |
| 7314 | Silvertone 1000 Ohms | 2.50 |
| 6522 | Victor R32, 52, RE45, 76 | 1.95 |



Series "F"

These new Rola speakers are designed for use with midset 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.

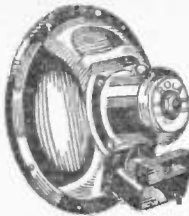
Cat. No. 187 \$3.75

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 mls at 50 to 200 volts.

| Cat. No. | Type | Price |
|----------|---|--------|
| 147 | 2500 ohm field for single 247, 233 and 238. Diameter 9" | \$2.95 |
| 398 | 2500 ohm field for Push-pull 245, 171A. Width 2 1/2". Diameter 9" | 3.45 |
| 399 | 650 ohm field for push-pull 247, 233, 238. Diameter 11 1/2" | 3.95 |



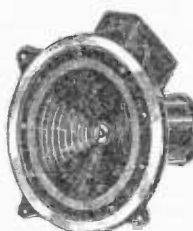
RADIOLA

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. 10 1/2 in. over-all cone dia.

Cat. No. 114

\$4.95

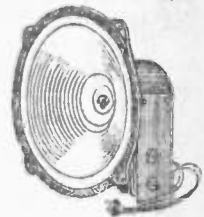


Utah 12-Inch Stadium A. C. Dynamic Chassis

SPECIAL MODEL

110 Volt A.C. 55 or 60 Cycle

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.

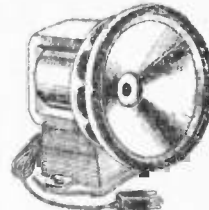


Individually packed.
Shipping weight, 24 lbs.

List \$30.00

Cat. No. 166 \$8.50

Genuine Victor D.C. Dynamic Speaker Chassis



Complete with Plug for connection to the Victor Amplifier.

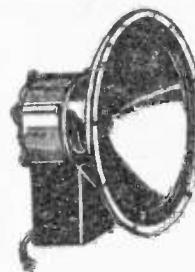
Used in Victor Receivers Nos. RE-75, RE-45, R-32, and R-52, in conjunction with Victor 245 Push-Pull Amplifiers.

Operates from 110-volt D.C. Voice coil impedance 16 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

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

4 order blanks have been included in the center of this catalog for your convenience. Use them.

MAIL ORDERS TO See Terms on Page 3

Federated Purchaser Inc.

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

R. C. A. PHOTOPHONE Dynamic Speakers



Cat. No. 161
Less Baffle

1000 Ohm
Field

Cat. No. 161—RCA Photophone, 1000 Ohm D.C. field, with convenient mounting holes on frame.....**\$7.50**

Cat. No. 110—RCA Photophone for 110 V. A.C. use, supplied with one Cat. No. 85 Field Exciter, which uses 2-280 tubes**\$12.50**

Sound Truck Photophone

Cat. No. 152—RCA Photophone with 6 V. D.C. field coil for use with 6 or 12 volt storage battery for auto trucks, portable systems, etc..**\$15.00**

Matching Transformers for RCA Photophones



Shielded output transformer for 245, 250, 171A and 230 tubes in push-pull.

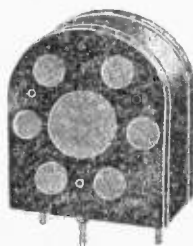
Cat. No. 2674**\$1.45**
Our Price
Unshielded output transformer, same as above.
Cat. No. 2571**\$1.00**
Our Price

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.

**Federated is headquarters for
all public address equipment.
See pages 50 to 62.**

OPERADIO

"Reflex Field" Speaker Chassis

Overall Diameter, 9 in.

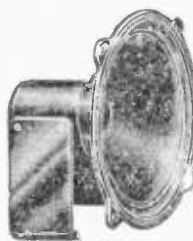
The unique construction of the Operadio Dynamic Speaker places it in a class by itself. The field coil pot is located in front of the diaphragm instead of the rear and is supported by extra heavy rigid cast iron frame, making the speaker rattlerproof and ultra sensitive. Supplied in standard field ohmages 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 | | |
|--------------|-----------|------------|
| Cat. No. | Tubes | Field Ohms |
| 195 | 171A, 245 | 2500 |
| 196 | 247 | 2500 |

All at the Remarkably **\$2.65**
Low Price of.....Each

Jensen "Concert" D.C.



Model D 7 D.C.
2500 ohm Field
10 in. Diameter
8 ohm Voice Coil

These units contain suitable push-pull transformers and are absolutely hum-free. Connect direct. 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.

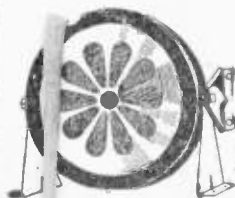
The wise merchant or repairman will take advantage of this exceptional "buy". Never before offered at a cut price. The available quantity at this price is limited. Act quickly.

List \$27.50
Cat. No. 121 **\$5.75**

CARTON OF 2, \$11.00

Original factory packing of 2 in a carton.

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 23 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 | |
|----------|---------------------------|-------------|
| 19 | Single 171, 233, 236, 238 | 4.45 |
| 19 | P.P. 236, 238 | |

Wright-DeCoster Dynamic Reproducers

A popularly priced line of the famous Wright-DeCoster speakers with no sacrifice in quality. Will handle up to 6 watts without distortion. Overall diameter, 8 in. Equipped with output transformer. The following models all have a 2500 Ohm field:



| Cat. No. | Type |
|----------|---|
| 336 | For Single 171A, 245 and 250 Tubes |
| 341 | For P. P. 171A, 245 and 250 Tubes |
| 337 | For Single 247 Tubes |
| 338 | For Push-Pull 247 Tubes |
| 339 | For Push-Pull 40 Class B |
| 340 | For Single 247 with 1800 Ohm field tapped at 300 ohms |

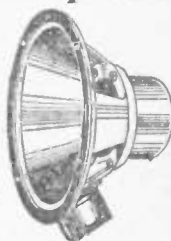
All One Price **\$4.50**
Each

Wright-DeCoster Super De Luxe Speakers

Overall
Diameter,
12 in.

For Push-Pull 245
and 250 with 1000
Ohm Field.

Cat. No. 347 **\$9.95**
Our Price ...



Wright-DeCoster 6 in. Dynamic Speaker

The size of this little unit greatly belies its accomplishments. You will really have to hear the No. 255 before you can believe a speaker so small is capable of reproducing with such splendid fidelity. We are anxious to have everyone looking for real quality in a small speaker hear this Model No. 255.

The good looking felt lined metal cabinet with its rich black crackle finish entirely shields and dust-protects the unit. Complete shielding of the chassis greatly decreases the chances of the speaker picking up ignition noises.

Cone 4 1/2 in. Outside diameter of cone bracket, 6 1/2 in. Depth 3 1/2 in. Diameter of Cabinet 7 1/2 in. Depth 4 in.

| Cat. No. | Type |
|----------|--|
| 342 | For Single 45, 2500 Ohm Field |
| 343 | For Single 47, 2500 Ohm Field |
| 344 | For Single 47 with 1800 Ohm Field tapped at 300 ohms |

Our Price **\$2.95**
Each

Wright-DeCoster Automobile Dynamic Speaker

Overall size 7 in.
An inexpensive Auto Speaker with Wright-DeCoster quality. Same chassis as described above.

| Cat. No. | Type |
|----------|-----------------------------------|
| 345 | For Single 171A, 233, 236 and 238 |
| 346 | For Push-Pull 236 and 238 |

Our Price **\$4.50**
Each



The Genuine BBL Magnetic Speaker Chassis

Employs the well-known B. B. L. Magnetic unit. Sturdy metal framework, 9 in. burlux diaphragm. Very compact. 5 ft. cord included. Shipping weight 6 lbs.



For many years B. B. L. has been the standard of comparison in speakers. A short time ago this speaker chassis was used by such well known manufacturers as Amplion, Newcomb-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. B. B. L.'s special cobalt steel magnet and over-size coils makes for faithful reproduction. Will handle 450 volts without burning out.

Cat. No. 803—List Price \$9 **\$3.25**
Our Price

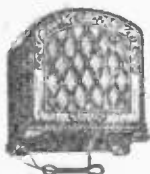
Kolster K-6 Speaker

Size:

12 1/2 in. high.
12 in. wide.
7 in. deep.

List Price \$35.00

Cat. No. 154 **\$3.35**
Each



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.

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 the exacting demands of 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.

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



Eismann Magneto Phones

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

Genuine Baldwin Type C Phones

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

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

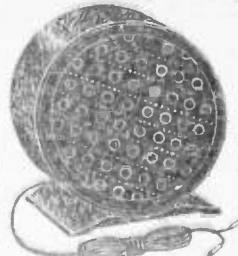


We Can Furnish Cones and Voice Assemblies for the Following Standard Dynamic Speakers

| Make of Speaker | Size | Cat. No. | Our Price |
|--------------------------|---------|----------|-----------|
| Atwater Kent | 11" | 552 | \$2.75 |
| Colonial 33 | 12 1/4" | 553 | 2.25 |
| Decatur | 9 1/2" | 554 | 1.90 |
| Eveready | 10" | 555 | 1.90 |
| Eveready | 12 1/4" | 556 | 2.25 |
| Farrand | 7" | 557 | 2.25 |
| Farrand Ind. | | | |
| Dyn. | 11" | 558 | 1.35 |
| First National | 10 1/4" | 559 | 1.90 |
| Freud-Eismann | | | |
| NR80, NR57 | 10" | 560 | 2.70 |
| Jensen DC7 | | | |
| Concert | 11 1/4" | 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 | 9" | 565 | 1.95 |
| Oxford | 8 1/2" | 566 | 1.85 |
| Peabody | 8 1/2" | 567 | 1.90 |
| Starling | 7" | 568 | 2.25 |
| Stromberg | | | |
| Carlson | 11" | 570 | 2.25 |
| Seminaton | 10" | 571 | 1.90 |
| Seminaton | 12 1/4" | 572 | 2.25 |
| Pearless copper coil | 8 1/2" | 573 | 1.60 |
| Pearless copper coil | 10 1/2" | 574 | 1.95 |
| Pearless copper coil | 12" | 575 | 2.10 |
| Pearless copper coil | 14 1/2" | 576 | 2.50 |
| Peerless wire wound coil | 8 1/2" | 577 | 1.45 |
| Peerless wire wound coil | 10 1/2" | 578 | 1.65 |
| Peerless wire wound coil | 14 1/2" | 579 | 2.75 |
| Temple | 7" | 580 | 2.40 |
| Temple | 11" | 581 | 2.75 |
| Temple | | | |
| Auditorium | 14" | 582 | 2.75 |
| Utah | 9" | 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 |
| RCA | | | |
| Photophone | | 592 | 2.95 |
| Bosch | 11" | 593 | 2.25 |
| Bosch | 10" | 594 | 1.90 |
| Brunswick D | 9 1/2" | 595 | 2.25 |
| Brunswick B | 14 1/2" | 596 | 2.75 |
| Brunswick E | 14 1/2" | 597 | 2.75 |
| Earl Inductor | 10" | 598 | .95 |

(Continued in next column)

Aeratone Magnetic Speakers



There are many people who still prefer the magnetic speaker to the dynamic and this speaker meets the demand for a perfect magnetic reproducer and embodies the latest acoustic principles.

Can be used as an auto radio speaker and with any battery or electric receiver utilizing a magnetic speaker. For auto use this speaker sounds better than the

Attractive black crystalline case, perforated metal grill and 6-foot silk cord. Chassis also sold separately.

average low price dynamic and can be mounted anywhere.

| SPEAKERS | | | CHASSIS ONLY | | |
|----------|----------|--------|--------------|----------|--------|
| Dia. | Cat. No. | Price | Dia. | Cat. No. | Price |
| 8" | 290 | \$1.25 | 8" | 298 | \$2.05 |
| 6" | 297 | 3.95 | 6" | 299 | 2.50 |

Phonotex Diaphragm

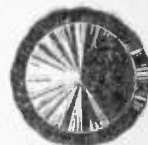
For Kolster Magnetic and Dynamic Speakers

11 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

Premier Magnetic Speaker

Cat. No. 5366

\$1.50



FEATURE SPECIFICATIONS

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

| | | | |
|-------------------|---------|-----|------|
| Majestic G1 | 9" | 599 | 1.80 |
| Majestic G2 | 9" | 608 | 1.80 |
| Majestic G3 | 11" | 609 | 1.80 |
| Majestic G5 | 14" | 610 | 2.75 |
| Jensen D9, D15 | 8 1/2" | 632 | 1.50 |
| Jensen D4 | 9 1/2" | 633 | 2.25 |
| Jensen Auditor | 13" | 634 | 4.50 |
| Magnavox | 9" | 635 | 2.25 |
| Newcomb-Hawley | 9" | 636 | 2.25 |
| Philco 65-90 | 11" | 637 | 1.50 |
| Philco 20 | | 637 | 1.50 |
| Starling | 9" | 641 | 2.25 |
| Stromberg Carlson | 12 1/4" | 642 | 2.75 |
| Stromberg Carlson | 9" | 643 | 2.25 |
| Sparton No. 737 | 9" | 644 | 2.25 |
| Steinlite | 10" | 645 | 1.90 |
| Utah Stadium | 12" | 647 | 2.75 |
| Wright DeCoster | 12" | 648 | 2.75 |
| Zenith 52 | 12 1/4" | 649 | 2.25 |

Great News for Battery Set Buyers!



RADIOLA 28 8 Tube Super

Complete With
Eight Radiotrons

Cat. No. 28
List Price, \$260

\$13.75

Including
8 R.C.A.
Radiotrons

Brand
New in
Original
Factory
Sealed
Cases



Radiola 28
Second Harmonic
Super-heterodyne in
distinguished
and graceful
two tone mahogany
cabinet. Ample
compartment
for all batteries
directly
under cathode
comb easily
accessible by

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 Speaker Ready to Play

Cat. No. 128 **\$22.25**

GENERAL ELECTRIC End Table Electrola



Dimensions:
24½ in.
high
16 in. deep,
26 in. wide,
MODEL T5

Has sliding top. A Midget placed on top Radio can be and does not have to be removed when phonograph is used.

Cat. No. 200
Our Price

\$16.50

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

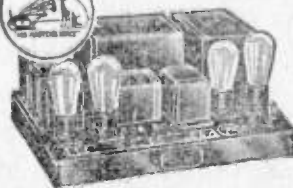
List Price, \$295.00

Special \$29.50

Employs 1-227, 2-245 and 1-280 Tube
SET OF UNIVERSAL TUBES \$2.50

Victor 2-Stage Power Amplifier R. C. A. Model AP-736

(S. P. U. 24)



Uses one 224, one 250, and two 81's.
Used with Victor Electric Orthophonic
Phonograph No. 13-15 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 60-60 cycle A.C. current. Excellent power amplifier for use with phonograph pick-up or radio sets.

Cat. No. 81 **\$11.49**

4 order blanks have been
included in the center of this
catalog for your convenience.

Use them.

STEWART WARNER Magnetic Speaker Chassis



It is the only magnetic speaker having laminated pole pieces increasing the magnetic flux. Coil impedance 171A, 245, 260, or 281 tubes.

Cat. No. 150
since 4500 ohms, match-

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 Amphon, Newcombe-Hawley, Maroon, 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.

Superior Shielded Audio Transformer

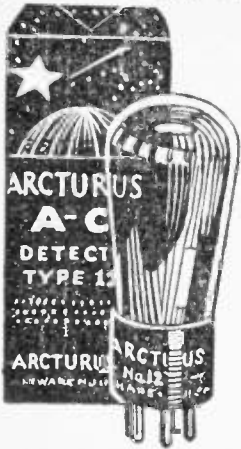


A real quality job for
pure tone and volume.

Ratio 5½ to 1.

Cat. No. 2518
Our Price

69c



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.

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.

124—Screen Grid

Another 7 second Arcturus tube,

List Price, \$1.05

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

| 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 | 1.35 |
| 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 |

New Arcturus Tubes

| | | | |
|-----|--|--------|--------|
| 56 | Detector-Amplifier | \$1.30 | \$.66 |
| 57 | Triple Grid Amplifier-Detector.. | 1.65 | .87 |
| 58 | Triple Grid Super-Control Amp. | 1.65 | .87 |
| 82 | Amplifier | 1.30 | .66 |
| 46 | Class B Amplifier | 1.55 | .82 |
| 134 | Super-Control R.F. Pentode | 2.80 | 1.48 |
| 139 | 6.3 V. Var. Mu R.F. Pentode.... | 2.80 | 1.48 |
| 44 | 6.3 V. Var. Mu R.F. Pentode.... | 2.85 | 1.51 |
| 53 | 2.5 V. Duplex Diode Triode.... | 1.60 | .85 |
| 58 | Var. Mu R.F. Pentode..... | 1.65 | .88 |
| 59 | Gen. Purpose Power Amp. | 2.20 | 1.17 |
| 83 | 5 V. Mercury Vapor Rectifier... | 1.55 | .82 |
| 85 | 6.3 V. Duplex Diode Triode.... | 1.60 | .85 |
| 89 | 6.3 V. Gen. Purpose Amplifier.. | 1.80 | .96 |
| GA | 5.0 V. Power Pentode..... | 2.75 | 1.45 |
| | Wunderlich "A" 2.5 V. Detector—5 Pin Base, 6 Pin Base | 3.00 | 1.95 |
| | Wunderlich "B" 2.5 V. Detector. Auxiliary Anode used as a Diode Rectifier; connected to top cap... | 3.00 | 1.95 |
| | Wunderlich "A" Automotive 6.3 V. Detector. 6 Pin Base | 3.00 | 1.95 |

133—2-Volt Pentode

List Price, \$2.80

\$1.48

136—6-Volt Screen Grid

List Price, \$2.80

\$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

Wunderlich "B" Automotive 6.3 V. Detector. Auxiliary Anode used as a Diode Rectifier; connected to top cap. 6 Pin Base

3.00 1.95

MAIL ORDERS TO 
See Terms on Page 3

Federated Purchaser Inc.

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 |
| 55 Duo Diode Detector | 1.60 | .70 |
| 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 |
| 59 Power Amplifier .. | 2.80 | .70 |
| 85 Duplex Diode Triode | 1.60 | .70 |
| 89 Power Amplifier .. | 1.80 | .70 |
| 112A " " | 1.55 | .53 |
| 120 3-v. Amplifier | 3.00 | .72 |
| 171A 1/2-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 1/2-Amp. Detector. | 4.00 | .70 |
| 201A 1/2-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-Volt Det. | 1.65 | .65 |
| 231 2-Volt Amplifier ... | 1.65 | .65 |

| Type | List Price | Our Price |
|----------------------------------|------------|-----------|
| 232 2-Volt Screen Grid. | 2.35 | .72 |
| 233 2-Volt Pentode | 2.80 | .79 |
| 234 D.C. Vario-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 | .63 |
| 247 Pentode | 1.60 | .53 |
| 250 Power Tube | 8.20 | 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 |
| 283 Rectifier | 1.55 | .70 |
| 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 |

TAYLOR TUBES

Amplifiers

| Type | Fil. volt | Fil. amp. | Mu | Max. plate volts | Max. plate watts | Normal plate volts | Grid bias volt | Plate milli. amps. | Unds. watts output | Aver. plate res. | Mutual cond. M Mhos. | List Price | Our Price |
|------|-----------|-----------|-----|------------------|------------------|--------------------|----------------|--------------------|--------------------|------------------|----------------------|------------|-----------|
| 210 | 7.5 | 1.5 | 10 | 450 | 20 | 450 | 30 | 30 | 2.2 | 4500 | 1700 | \$ 7.00 | \$ 4.20 |
| 250 | 7.5 | 1.25 | 3.8 | 450 | 25 | 450 | 84 | 55 | 4.6 | 1800 | 2100 | 6.00 | 3.60 |
| 520S | 7.5 | 1.5 | 4.5 | 450 | 25 | 450 | 84 | 55 | 7.0 | 1800 | 2500 | 7.50 | 4.50 |
| 845 | 10 | 2.5 | 5 | 1250 | 75 | 1000 | 150 | 75 | 20 | 2100 | 2380 | 25.00 | 15.00 |
| 211 | 10 | 2.5 | 12 | 1250 | 75 | 1000 | 55 | 75 | 10 | 3400 | 3600 | 25.00 | 15.00 |

Oscillators

| Type | Fil. volt | Fil. amp. | Mu | Max. DC volts modulated | Max. DC volts non-mod. | Max. plate watts | Max. RF grid amps. | Plate milli. amps. | Aver. plate res. | Mutual cond. M Mhos. | List Price | Our Price |
|------|-----------|-----------|----|-------------------------|------------------------|------------------|--------------------|--------------------|------------------|----------------------|------------|-----------|
| 210 | 7.5 | 1.5 | 10 | 425 | 500 | 20 | 6 | 75 | 4500 | 1700 | \$ 7.00 | \$ 4.20 |
| 211 | 10 | 2.5 | 12 | 1000 | 1250 | 100 | 7.5 | 175 | 3400 | 3600 | 25.00 | 15.00 |

Rectifiers

| Type | Purpose | Fil. volt | Fil. amp. | Plate Voltage and Plate Current | List Price | Our Price |
|------|---------|-----------|-----------|---|------------|-----------|
| 281 | HW | 7.5 | 1.25 | Max. volts per anode 750 RMS Max. milliamps 85..... | \$5.00 | \$3.00 |
| 866 | HW Mer. | 2.5 | 5 | Max. pk. inv. volts 7500 Pk. ma. 660 (420 RMS)..... | 6.50 | 3.90 |

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 | 1.76 |
| 46 | 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 | .96 |
| 58 | Triple Grid Super Control | 1.65 | .94 |
| 112A | Amplifier | 1.55 | .91 |
| 120 | Amplifier | 3.00 | 1.76 |
| 171A | Amplifier | .95 | .61 |
| 199DUV | Detector Amplifier | 2.75 | 1.61 |
| 199UX | Detector Amplifier | 2.55 | 1.50 |
| 200A | Super Detector | 4.00 | 2.35 |
| 201A | Detector Amplifier | .80 | .44 |
| 210 | Power Amplifier | 7.00 | 4.12 |
| 224 | Screen Grid | 1.05 | .62 |
| 224A | Quick Heater S. G. | 1.65 | .97 |
| 226 | A. C. Amplifier | .85 | .50 |
| 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. | 2.30 | 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 |
| 868 | Photo Electric Cell.... | 7.50 | 5.00 |
| 874 | Voltage Regulator | 4.90 | 2.88 |
| 876 | Ballast Tube | 6.70 | 3.86 |

The Taylor High Vacuum Tubes are nationally advertised through all sound engineering publications. These Taylor tubes are apt to be confused with standard types of tubes, but are especially constructed for public address and motion picture work.

As an instance, the 250 standard of Taylor is pumped for a period of 24 hours to assure the absence of gas and to remove distortion characteristics. The general run of 250 tubes are pumped for 1 hour 30 minutes.

Taylor tubes are not sold for resale purposes. These tubes are licensed by Western Electric and the Radio Corporation of America. They are guaranteed for a period of three months from the date of purchase.

Acratest



Power Transformers

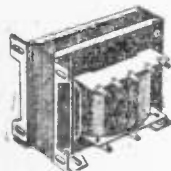
HERE at last is a most complete line of replacement power transformers, which are the result of the most exhaustive research and compilation of records which embrace every electrical set ever placed on the market. The transformers below will suit over 90% of the receivers on the market today. They have 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.

Acratest

Standard Replacement Transformer

With Universal Mounting Brackets

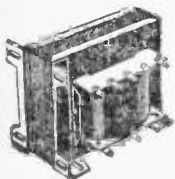


For Sets Using Up to 6-224 or 227, 2-245 or 247 and 280 Tubes

Size 4 3/4 in. x 3 1/2 in. x 4 1/8 in.

(No. 5191) Supplies the following:
2 1/2 V. at 10 1/2 amps. 5 V. at 2 amps. C.T.
2 1/2 V. at 3 amps. 750 V. at 75 mills. C.T.
Cat. No. 5191, 50-60 Cycles \$2.95
Our Price 2

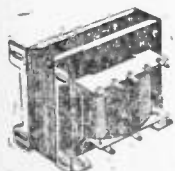
For sets using up to 4-226, 2-227, 2-171A and 1-280 tubes.



Size 4 3/4" x 3 1/2" x 4 1/8"

(6025) Supplies the following:
1 1/2 V. at 6 amps. 5 V. at 1 amp.
2 1/2 V. at 3 1/2 amps. 5 V. at 2 amps.
amps. 625 V. at 50 mills. C.T.
Cat. No. 6025 \$2.85
Our Price 2

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

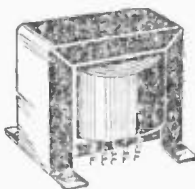


300 V. at 70 mills potential.

(6556) Supplies the following:
2 1/2 V. at 8 1/2 amps. 5 V. at 2 amps.
amps. 625 V. at 60 mills C.T.
5 V. at 1 amp.
Cat. No. 6556 \$2.95
Our Price 2

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:
5 V. at 2 amps.
2 1/2 V. at 7 amps.
575 V. at 80 mills.
Rectified: 325 V. at 20 mills.

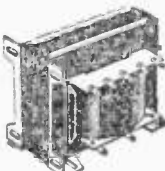
Size 3 1/2 in. x 3 1/4 in. x 3 1/4 in. Cadmium Plated Frame. This midget power transformer although of small dimensions, is very rugged and will furnish sufficient current for 4 screen grid, 1-245 or Pentode amplifier, and -280 rectifier tubes, without overheating. It will fit 90% of the midget sets on the market, like Clarion Junior, DeWald Audiola, Melorad, Radlette, 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



(5700) Supplies the following:
2 1/2 V. at 12 amps. 7 1/2 V. at 3 amps. C.T.
7 1/2 V. at 3 amps. 1,200 V. at 160 mills. C.T.
Cat. No. 5700 \$4.75
Our Price 4

This transformer is ideal for transmitting and public address operation.

It has a 2 1/2 volt winding at 12 amperes, 2-7 1/2 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.

Heavy Duty Side Mounting Midget Power Transformer

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



Size: 3 1/4 x 3 1/4 in.
Mounting Holes
2 1/4 x 2 1/4 in.
C. to C.

Cat. No. 2582 \$2.40
Our Price 2

Supplies the following voltages:
2 1/2 V. at 7 amps. 650 V. High, at 85 C.T. to shield. mills. C.T.
2 1/2 V. at 3 amps. C.T.

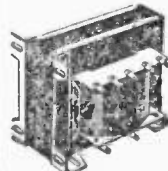
Features:

- 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.

Acratest

"250" Power Transformer



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

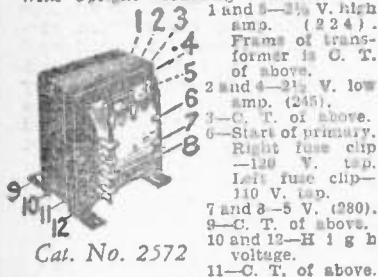
(5190) Supplies the following:
2 1/2 V. at 10 1/2 amps. 7 1/2 V. at 8 amps. C.T.
7 1/2 V. at 3 amps. 1,000 V. at 110 blis. C.T.
This transformer is excellent for use in power amplifiers and for replacement in standard sets. The unique bracket arrangement on this unit makes it extremely simple to install.

Cat. No. 5190 \$3.50
Our Price 3

We carry Power Transformers for over 200 standard receivers. See back of book for complete list.

Acratest**Midget Set Power Transformer**

For All Midget Sets Using
5-224, 2-245 and 1-280 Tubes
With Upright Mounting Brackets.



Cat. No. 2572

Price \$2.85

Supplies the following voltages:
9½ V. at 7 amps. C.T. 5 V. at 2 amps.
2½ V. at 3 amps. C.T. 635 V. at 120 mils.
Rectified: 650 V. at 85 mils. C.T.
Size only 4 in. x 4 in. x 3½ in. Equip-
ped with safety fuse block. For 110-120
v. 50-60 cycles A.C.

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 mils.
Rectified: 375 V. at 70 mils.
Can be used as replacement in such sets
as Gloriotone 4-tube, Pansteel Reporter,
Traveler 4-tube, Jackson-Hell, Peter Pan,
Paramount, Echo-Phone 4-tube, etc.



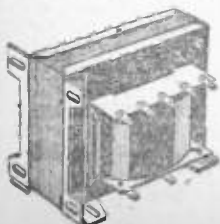
Wiring
Scheme
Included
with each
Transformer
3½ x 2½ x 2½
Weight,
2½ lbs.

Cat. No. 6027

Price \$1.35 ea.**Acratest****Replacement Transformer**

With Universal Mounting Brackets
For Sets Using Up to 5-224, 1-227,
2-250 and 2-281 Tubes.

Size: 4½ x 5½ x 4½ in.



Supplies the
following:
1½ V. at 7½ A.
2½ V. at 3½ A.
7½ V. at
3 Amps. C.T.
7½ V. at 3 A.
1000 V. at
110 mils. C.T.

Cat. No. 5193

\$3.95**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.



Cat. No. 5194

\$1.45

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

Acratest**Tube Tester Replace-
ment Transformer**
Supplies 1½, 2½, 5, 6 and
7½ Volts at 2 Amps
All from a single common

Cat. No. 6024
Size: 3¼ in. x 2¼ in.
x 2 in.

\$1.40

This transformer is a perfect replace-
ment in about 90 per cent of all standard
tube testers. 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 wind-
ings as their current is low and on low
current the voltage goes higher.

Acratest**25 Cycle Midget Transformer**

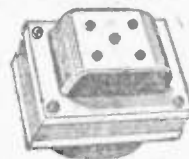
For 224, 235 or 551,
245 or 247, and 280
Tubes

Upright Mounting
4½ in. long, 3½ in.
wide, 4½ in. high

Cat. No. 5454

\$2.95

See Our Complete Power
Transformer Listing Contain-
ing Over 200 Transformers
in Back of Book.

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

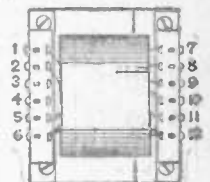
Size: 3¼ in. x 3¼
in. x 3¼ in.
Supplies the fol-
lowing voltages:
2½ V. at 7 amps.
2½ V. at 1½ amps.
5 V. at 2 amps.
600 V. at 90 mils.
Rectified 375 V. at
80 mils.

Cat. No. 5187 for 50-60 Cycles

Price \$1.95**Acratest****Midget Replacement Power Transformer**

Supplies:

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 & 8—High Voltage at 625 V. at 80

Mils.

10 & 12—2½ V. at 2½ Amps.

11—C. T. of above grounded to frames.

3¼ in. long, 3¼ in. wide, Weight 5 lbs.

Cat. No. 6250

\$1.95

Our Price

Acratest**Power Amplifier Transformer**

For 224, 227, 250
and 281 Tubes

Supplies:

2½ Volts at 8½ Amps.

C.T.

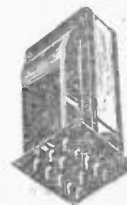
7½ Volts at 2½ Amps.

7½ Volts at 2½ Amps

C.T.

1200 Volts at 150 Mils.

Cat. No. 6918

Price \$3.85**Crosley Power Transformer**

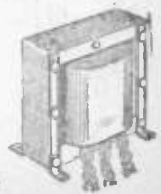
For Model 608

Replacement Part
No. 5145

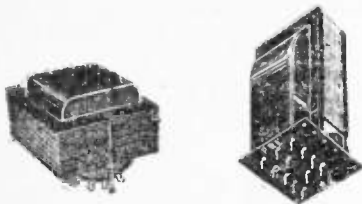
For Sets Using:
3-226 Tubes
1-227 Tube
1-171A Tube
1-280 Tube

For 110, 60 Cycle A.C.
Size 4½ x 3½ x 2½ in.

Cat. No. 5075

Our Price **95c**

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



CAT. NO. 6757

Size $4\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{4}$ "
Chassis opening $2 \times 2\frac{1}{2}$ "
1 & 2—Primary
3 & 4— $2\frac{1}{2}$ 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

Our Price \$1.95

Type F—8 Tubes

5-224, 2-247 and 1-280



CAT. NO. 6758

Size $4\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{4}$ "
Chassis opening $2 \times 2\frac{1}{2}$ "
1 & 10— $2\frac{1}{2}$ V. at 9 A.
6—C. T. of above
2 & 11— $2\frac{1}{2}$ V. at $3\frac{1}{2}$ 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

Our Price \$2.25

Type F—12 Tubes

9-224, 2-247 and 1-280



CAT. NO. 6759

Size $4\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{4}$ "
Chassis opening 2×3 "
1 & 9— $2\frac{1}{2}$ V. at 16 A.
6—C. T. of above
2 & 10— $2\frac{1}{2}$ V. at $3\frac{1}{2}$ 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

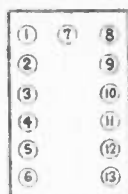
Our Price \$2.85

(Continued in Next Column)

(Continued from First Column)

Type P—9 Tubes

6-224, 2-247 and 1-280



CAT. NO. 6760

Size $4 \times 3\frac{1}{2} \times 3\frac{1}{4}$ "
Chassis opening $2-11/16 \times 2$ "
1 & 8—Primary
2 & 3—730 V. at 75 Mills
C. T. of high grounded
9 & 10—5 V. (280)
4 & 11— $2\frac{1}{2}$ V. at $10\frac{1}{2}$ A.
5 & 12— $2\frac{1}{2}$ V. at 3 A.
6—C. T. of above

Cat. No. 6760

Our Price \$1.95

Type P—12 Tubes

9-224, 2-247 and 1-280



CAT. NO. 6761

Size $4 \times 3\frac{1}{2} \times 4$ "
Chassis opening $2-11/16 \times 2$ "
1 & 9— $2\frac{1}{2}$ V. at 16 A.
2—C. T. of above
8—C. T. of above
4 & 5—5 V. (280)
3 & 10— $2\frac{1}{2}$ V. at $3\frac{1}{2}$ A.
11 & 12—675 V. at 110 Mills
C. T. of high grounded
6 & 13—Primary

Cat. No. 6761

Our Price \$2.85

TYPE F—9 TUBES

Size $3\frac{1}{2} \times 3\frac{1}{2} \times 5\frac{1}{2}$ " 31-224, 3-227, 3-241 and 1-280

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

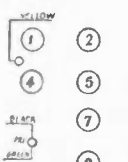


Cat. No. 6243

\$2.85

TYPE F—6 TUBES

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



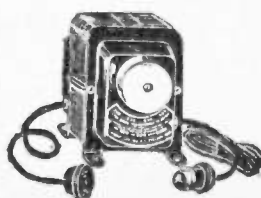
CAT. NO. 6260

Size $3\frac{1}{2} \times 3\frac{1}{2} \times 5\frac{1}{2}$ "
Size $3\frac{1}{2} \times 3\frac{1}{2} \times 5\frac{1}{2}$ "
7-9— $2\frac{1}{2}$ V. at 6A.
Yellow Lead—C.T. of above.
6-8-10— $2\frac{1}{2}$ 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



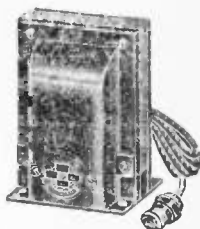
Primary 220 to 250 Adjustable
Secondary 110-125. Cap. 160 Watts.

Cat. No. 2576

Our Price \$4.25

Acratest Step-Down Transformer

Input: 220-250 Volt. 60-65 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 Shipping wgt. 6 $\frac{1}{2}$ lbs. mounted.

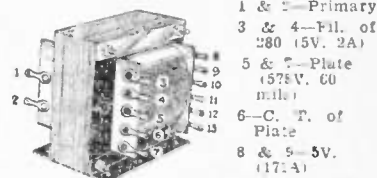


Cat. No. 3157

Our Price \$2.95

Kolster-Earl Power Transformer

For Replacement in Receivers Using 226, 227, 171A and 280 Tubes.



$3\frac{1}{2}$ in. long, 3 in. wide, $3\frac{3}{4}$ in. tall.
Weight 3 lbs.

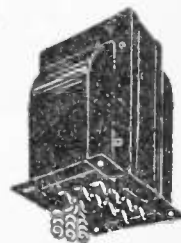
A very popular replacement transformer which can be used in many of the early A. C. receivers like Earl, Freed, Kolster, Philharmonic, King, etc. Mounting Brackets.

Cat. No. 2559

\$1.95

Philco Replacement Power Transformers

The Most Complete Set-up Ever Offered the Serviceman



\$2.80 each

| Cat. No. | For Models | Part No. |
|----------|------------------------|----------|
| 4321 | 20, 220 | 4234 |
| 2600 | 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 | 3106 |

RCA-Victor 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 |
|----------|-------------|--------------------|-----------|
| 2531 | 8335 | 17, 18, 33, 51 | \$1.80 |
| 2573 | 8172 | 14, 46 | 2.25 |
| 3729 | GW262 | 44, 46, 220V. A.C. | 3.95 |
| 2531 | 61950 | 48, 12 | 1.80 |
| 2566 | 8344 | 60, 62 | 2.25 |
| 2677 | GW16 | 60, 62 | 2.75 |
| | | 25 cycle | |
| 2683 | GW117 | 66 | 3.95 |
| 2676 | 61141 82401 | 80-82, 86 | 1.80 |
| 2566 | RCA-Victor | 31, 35, 39, 57 | 1.80 |
| 2531 | RCA-Victor | RE-14, 15 | 1.80 |
| 6070 | | 18, 25 cycle | 4.25 |
| 6816 | 8399 | 41 | 2.50 |
| 3734 | | 17, 18, 33, 51 | 3.95 |
| | | 220V. A.C. | |
| 2675 | | 64, 67 | 9.45 |
| 6009 | | 104 Speaker | 4.50 |
| 6769 | RCA-Victor | RE-35, 39, 57 | 1.80 |
| 6771 | | Supercette | 1.95 |
| 6919 | | Theramini | 3.95 |

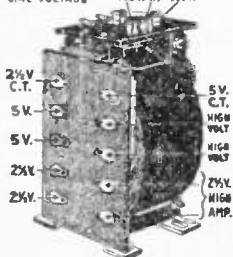
Universal Replacement Filament and Power Transformer

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 1/2" long,
3 1/2" wide,
3 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.

VARIABLE LINE VOLTAGE → 105V. 115 120V.



Cat. No. 2560 **\$2.95**

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 224'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 MPD. Condenser ahead of the first choke.

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

Acratest

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 7/8".
Height, 2 3/8".
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

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. 95-06

Employing 227, 245 and 280 Tubes.

6 3/4" high, 5 1/4" wide, 4" deep.

Weight, 10 lbs.

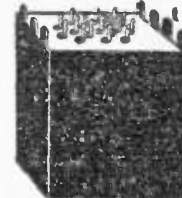
Cat. No. 5422 **\$4.50**
Our Price

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

Description: Equipped with tapped primary and two 2 1/2 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.



BRAND NEW VICTOR Replacement Power Transformer



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

Cat. No. 6830 **\$2.90**

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. C. T. for 280 rectifier and 800 V. C. T. at 150 mls high. Can is 4 1/2 x 5 5/8 inches. Weight 8 lbs.

Cat. No. 2554 **\$3.75**
For 25 Cycles

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. 2558 **\$1.45**

DEALERS and SERVICE MEN!

Utility Power Pack

For 5-226, 1-227, 2-171A Tubes

Here is an item which will enable you to convert your trade in battery sets into up-to-date A.C. receivers at a minimum cost and with very little work.

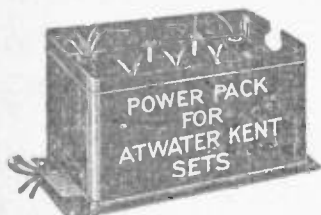
This complete power pack furnishes filament and plate current for 4-226, 1-227, 1-240 and 2-171A tubes and will convert any Atwater Kent battery set into a modern electric set. The unit includes power transformer, filter condensers, chokes and C bias. All terminals are conveniently brought out on top with screw terminals for easy connections, 280 tube socket attached to outside of can. Equipment with "Hi-Lo" switch. Two leads brought out for panel switch of set. Designed for conversion of Atwater Kent sets but may be used for any other battery set. Complete instructions furnished with each unit.

3 in. wide, 1 7/8 in. long, 5 1/2 in. tall.

Cat. No. 3155 **\$7.50**
Our Price



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

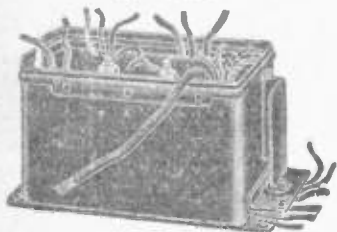


These packs are housed in a can identical with the original, but without the cover, as the old cover will fit. Made according to original specifications and guaranteed. Does not include resistance strip or socket.

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 | \$3.95 |
| 7050 | 42 | |
| 7051 | 50, 52 | |

Power Packs for Other A. K. Models

| | | |
|----------|----------|---------------|
| Sets | Cat. No. | \$9.00 |
| 46-47-52 | 6466 | |
| 43 | 6842 | |
| 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 1/4 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, 95, 65, and Earl 31, 31S, 32, 32S, 33, 33S, 21, 41

Cat. No. 3738

Our Price \$4.25

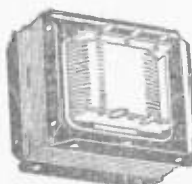
Acratest

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 1/2 x 3-
3/16, Vertical, 3 1/4
x 2 3/4; 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 245, two 245 and one 280 tubes are specified.

Primary—115 volts 50-60 cycle.
Filament 1—2.5 volts 8.75 amps.
Filament 2—2.5 volts 3 amps. ct.
Filament 3—5 volts 2 amps. ct.
Plates—350-0-350 volts 100 mils. ct.
Primary watt—full load, 80.

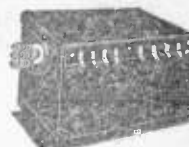
Our Price \$2.25

Jefferson Power Transformer and Chokes

For Sonora, Zenith, Stromberg-Carlson, Sparton and Other Sets Using the Following Tubes: 4—226's, 2—171A's, 1—227, 1—280

This unit contains the proper condenser and choke.

Red Wire—Start of primary.
Green—110 V. tap.
Black—120 V. finish.



Secondary connections shown on accompanying diagram.

Size: 7 1/4 in. long, 4 1/2 in. wide, 3 1/2 in. high.

Cat. No. 6541
Our Price

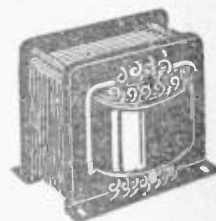
\$1.95

Earl and Kolster Power Transformer

For 3—256, 2—227, 2—171A and 1—280

Cat. No. 2575

Our Price \$2.25



Cat. No. 2656

For 25 Cycles, \$3.00

Kolster Power Packs

| | |
|------|----|
| 5528 | 6J |
| 5529 | 6K |
| 5530 | 6M |
| 5531 | 6P |
| 5532 | 6R |

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



Our Price \$9.85 ea.

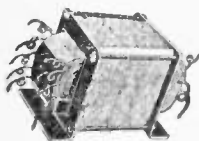
Atwater Kent 55, 55C Replacement Power Transformer

Cat. No. 6013

Our Price \$4.25



RADIOLA Power Transformer For Radiola 104 Speaker



Primary operated in series with (V876 Ballast tube.

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

Cat. No. 6009

\$4.50

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, 3 1/4 in. Wide, 4 in. High. Weight, 6 lbs.

1 & 5-5 V. (230 3/4)
2 & 12-HI (350 V. at 80 mls.)

3-125 V. tap of primary

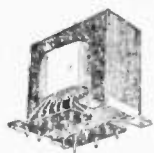
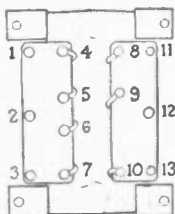
4 & 13-5 V. (171A)

8-C. T. of 4 & 13

10-115 V. tap of Primary

11-C. T. of 2 & 13

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.



Earl Transformer Coil and Terminal Strip

Ready to be assembled with laminations of old power transformer.

For Earl Models 31,

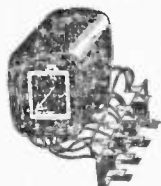
32, 32S and 41.

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, 7 1/2, 1 1/2 and 2 1/2 V. | | | 3448 3175 |
| Kolster-25-cycle for sets requiring 550, 5, 1 1/2, 2 1/2 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-220 Volts, 21, 22, 55, 56, 55 | | | 3180 |

Our Price \$2.00 ea.

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 and other electrical appliances drawing heavy current.



Cat. No. 6014

\$2.75

7 1/2 in. long; 4 1/2 in. wide; 3 1/4 in. tall. Weight, 12 lbs.

RCA-Victor Power Transformer

For 224, 227, 55, 56, 57, 58, 245, 247 and 280 Tubes



Furnishes the following current:
2 1/2 V. at 8 1/2 Amps.
2 1/2 V. at 8 Amps.
5 V. at 2 Amps.
790 Volts at 140 mls C.T.

C. T. Primary for 105 to 125 V. A.C.

Replacement Power transformer for the following receivers:

RCA 12, 48; Victor 14, 15, 17; General Electric T41 and Westinghouse WR4.

Part No. 61950. 3 1/2 x 5 1/2 x 1 1/4 in. Weight 7 1/2 lbs.

Cat. No. 2531

\$1.80

Our Price

ZE7 Filament Transformer

Supplies:

2 1/2 Volts at 6 Amp

1 1/2 Volts at 7 Amp

7 1/2 Volts at 3 Amp.

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



Cat. No. 5736

\$1.25

Filament and Plate Supply Transformer



for 280 Tube. For B Eliminators and conversion of D. C. dynamic speakers to A. C.

Supplies: 100V. output of rectifier at 100 mls. 5V. at 4 amps.

Cat. No. 5858

\$1.85

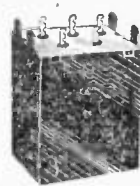
See Our Complete Power
Transformer Guide in Back
of Catalog.

R.C.A. 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 3:1x1.



This transformer has two primary windings, one to match either a high impedance pickup or the plate of a pre-amplifier tube. The other winding is approximately 200 ohms for either a single button mike or low impedance pickup. Can be used to couple a mike and high impedance pickup.

Cased in brass electromagnetic shield. Brown finish case.

Cat. No. 2581

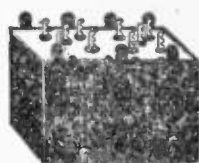
29c

Our Price 4 for \$1.00

R.C.A. Victor Push-Pull Audio Transformer Pack

Can be used with 245 and 247 Tubes.

Electrostatically shielded. Impregnated against lamination vibration, assuring amplification on all frequencies.



Output Matches Moving Coil on All Dynamic Speakers

Cat. No. 5744

59c

Per Pack

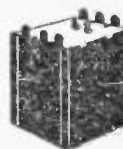
R.C.A.-Victor Choke

30 Henries, 150 Mils

200 Ohms

3x2 1/2 x 1 1/2" high

Weights 3 1/2 lbs.



Cat. No. 5474

29c

Our Price, Each 4 for \$1.00

Housed in a heavy brass case and impregnated in compound to prevent vibration and overheating. Can be used in all filter circuits where a good choke is essential. Can be mounted in any position by soldering brackets to the case. Ideal for transmitters and amplifiers. Invest \$1 for 4 of these fine chokes while the supply lasts. The first job will more than pay for the four.

Filament Supply Transformer

For 226, 227, 224 and 171A Tubes

Has following leads:

1 1/2 V. (226), 2 1/2 V.

C.T. (224 or 227)

5V. C.T. (171A or 112A)

3 1/2" x 3 1/2" x 3 1/4" tall



Cat. No. 3724

95c

Each

This transformer is ideal for tube testing outfits. The secondary can be hooked in series to supply any desired voltages like 1 1/2, 2 1/2, 3, 4, 5 and 7 1/2. 1 1/2 and 2 1/2 V. windings rated at 2 amps. 5 V. winding rated at 1 amp.

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 |
| 2551 | Push-Pull Input for use with 171A, 245, 250, 247, 231, 233, 238, 210 | .80 |
| 2553 | Push-Pull Output, ratio 80/1, for use with 171A, 245, 250, 231, for connection direct to 10 ohm voice coil of dynamic. | .95 |

Choke

| | | |
|------|--|-----|
| 2503 | Small heavy duty 30 henry choke, 125 Mils. matches above transformers. | .70 |
|------|--|-----|



Acratest

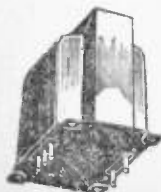
Midget Dynamic Speaker Output Transformer

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 1/2" x 2 1/2" 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 |

T. C. A. Shielded Super Input Transformer



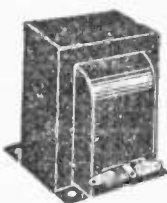
For 171A, 245, 247, 210, 231, 238 tubes. Cadmium plated shield 3 1/2" long, 2 1/2" wide, 2 3/4" tall. Weight 2 1/2 lbs.

Totally shielded and sealed against moisture. Silicon steel laminations. A real bargain.

Cat. No. T204
Our Price **95c**

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.

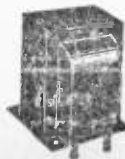
Sealing makes it impervious to moisture and eliminates the possibility of opens, either primary or secondary.

| Cat. No. | Description | Price |
|----------|--|--------|
| 2647 | Push-pull Input, lugs on bottom, for use with 171A, 245, 250, 247, 231, 238, 210 | \$1.15 |
| 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, 150 Mil Choke, with lugs on bottom like 2647 | 1.20 |

Acratest Choke

30 Henry, 150 Mils
at 100 Ohms
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.

| Cat. 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 |

T.C.A. Transformers and Chokes

Cone is of permalloy steel laminations bound by convenient mounting bracket which also serves as a shield. Dimensions: 2 x 1 1/2"



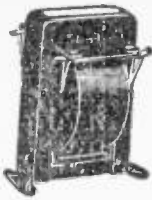
| Cat. No. | Type | Price |
|----------|---|-------|
| 5635 | Input for 171, 112A, 245, 210 and 250 tubes | .75 |
| 7260 | Straight 3 1/2 to 1 audio | .69 |
| 2505 | 30 Henry 100 Mil 250 ohm | .48 |

Amertran Audio Transformer

Volume and Tone Quality

Cat. No. 2577

95c each



Grebe Audio Transformer



Contains 4% silicon steel laminations. Excellent for Public Address Systems. 2 7/8 in. long, 2 3/4 in. wide, 4 in. tall. Weight: 2 lbs.

Cat. No. 5105

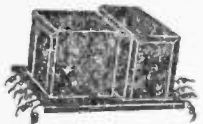
95c ea.

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 902 and 980. Housed in steel can and mounted on steel base, with all wire leads. 6" long, 3 1/2" wide, 3 1/2" tall.

Kolster Double Choke

Part No. A58010

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

Cat. No. 5543

\$1.95

Kolster Output Choke

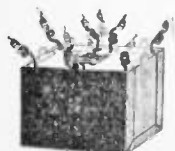
100 Mills tapped at 50

Same dimensions as Audio Transformer.

Cat. No. 3725

95c

KOLSTER Double Audio Pack



Cat. No. 5587

\$1.95

Part No. A99004. Used in Models K20 and K21. Ratio 3 1/2 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. 3 3/4" long, 2" wide, 3 1/2" tall.

Philco Audio and Push-Pull Transformers



2647



2651-52, 2503

| Cat. No. | Description | Used in Models | Part No. | Price |
|----------|------------------|---|----------|--------|
| 5834 | Push-pull Input | 20, 20A, 90, 90A, 70, 70A, 220, 220A | 4232 | \$0.95 |
| 2651 | Push-pull Input | 30, 77, 77A, 86, 87, 76 | | |
| 2503 | Filter Choke | 65, 87, 3518, 3472 | | .80 |
| 2647 | Push-pull Input | 96, 96A, 65, 95, 296, 111, 111A | 3537 | 1.40 |
| 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, 76, 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 7/8 x 1 7/8 x 2 1/2 in.

Cat. No. 5620

Our Price 75c

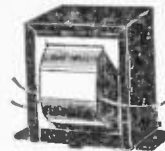
Thordarson Push-Pull Output Choke

Same size and appearance. Matched in same tubes.

Cat. No. 5621

Our Price 95c

Super Power Audio Transformers



These large transformers are built for heavy duty work on amplifiers, and large receivers. Electrolytic copper wound on a large silicon steel core. Well insulated and mounted on universal bracket.

etc. These are the lowest prices at which such high quality transformers have ever been sold.

Mounting holes 3/4" O. to O. Height 2 1/2". Weight 2 lbs. 3/4 to 1 Audio.

Cat. No. 7322, 3/4 to 1 Audio **45c**

Our Price

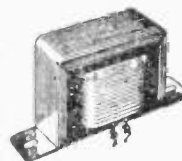
Push Pull Input for 171A, 245, 210, 250

Cat. No. 7323 **75c**

Our Price

Sangamo Push-Pull Input Audio Transformer

Model BX



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: 1x2 1/2 x 3 1/2 in. long. Weight, 2 lbs.

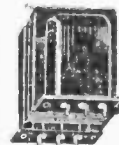
Cat. No. 7323, Push Pull Input for 171A, 245, 210, 250

Our Price **75c**

Push-Pull Interstage Transformer

For Zenith 50, 60 and 70 Series

For coupling Push-Pull 227 to Push-Pull 171, 245, 250, or 247 Output to 10 ohm Voice Coil.



Made by the original manufacturer to original specifications. May be used in other sets.

Mounting holes, O. to C., 2-5/16 x 2 in. 3/4 in. tall. Weight, 2 lbs.

Cat. No. 6785

Our Price, Each **\$1.85**

Earl and Freed Audio Transformers

For Model 41 Receiver

Also used in Freed Model 95

Cat. No. 3720 **\$1.50**

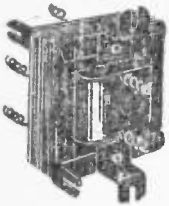
Our Price

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

Cat. No. 3726

Our Price **\$1.85**

Universal Replacement Audio Transformer



Cat. No. 2502

75c 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 3/4 in. high, 2 3/4 in. wide and 2 3/4 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 midsets. Universal mounting brackets.

Approximately 2 in. cube. Wt. 1 lb.

98c ea.

Cat. No. 5598—Output

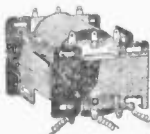
New Universal Tapped Output Transformer

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.

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

Cat. No. 6028

Our Price **98c**

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

DYNAMIC

Output Transformer

for Coupling
171, 245, 350 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"
batteries
Terminal 4—"B"
batteries
Terminal 5—Grid
Similar to RCA
Part No. 1353



CHOKE

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

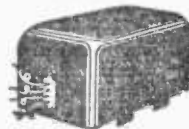
Cat. No. 2556

49c per pair

Output Choke Only, Sold Separately

Cat. No. 2557 **10c ea.**

Double Audio Transformers



RATIO 3 1/2 to 1

Used in
Radiola Models
17, 18, 33, 51

Cat. No. 2512

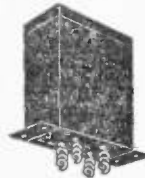
Our Price

\$1.40

Triple 30 Henry Choke

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

Cat. No. 2518

95c Each

Erla Audio Transformer

Fully Shielded



Cat. No. 2515

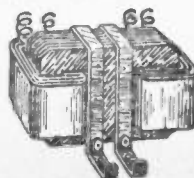
85c Each

Earl Double Choke

with
Mounting
Brackets

Cat. No. 2605

Our Price

\$1.05

BRUNSWICK Low Impedance Input Transformers



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

Cat. No. 7204

\$1.35

Stromberg Carlson Filter Chokes



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

Excellent for filter in medium powered transmitters or for replacement on series filament AC or DC receivers.

Single Choke

8 Henries, 300 Mhs., 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

Our Price

65c

Stromberg Carlson No. 3-A Audio Transformer



Permalloy Laminations. Totally shielded.

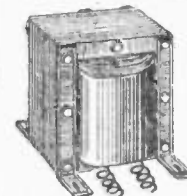
Ratio 3 1/2 to 1.
2x2 1/4 x 2 1/2" high
Weight 1 lb.

Cat. No. 7342

Our Price

95c

1/4 Amp. D. C. Choke



Used in All
Early Models

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 "CX171" 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 \$6.50



Atwater Kent Replacement Transformers

For Models
2006 20, 30, 35, 37
6896 41, 1st audio
6897 41, 2nd audio
P.P. Input
7057 40-42-46 Audio
7058 46 Input

50c ea.

Acratest De Luxe Phonograph Pickup

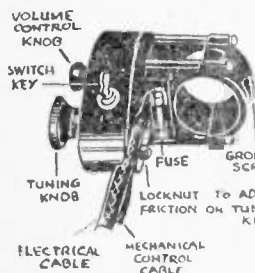


This pickup is especially recommended where particular stress must be placed on beauty of tone. This pickup far exceeds the performance of normal public address equipment and is for those radio engineers who desire the finest electrical reproduction. The pickup is skillfully counterbalanced so that it may be used for 78 or 33-1/3 r.p.m. No volume control supplied due to the fact that generally volume controls decrease the sensitivity and cut down the frequency response of an otherwise excellent pickup. Maximum output .65 volts, which exceeds by more than .1 volt the output of its nearest competitor.

Overall length 10 in. 7 3/4 in. from center pin to needle point.

| Cat. No. | Impedance | Our Price |
|----------|-----------|-------------|
| 6976 | 200 Ohms | \$5.95 Each |
| 6977 | 500 Ohms | |
| 6978 | 5000 Ohms | |

The New Federal Steering Column Control



Standard equipment has 3-ft. electrical conductor cable terminating in a polarity connecting plug and 10 feet of control cable.

Cat. No. 7435—List Price \$10 **\$4.95**
Our Price

The Federal Remote Control consists of a control unit, condenser driving unit, flexible drive cable, multiple-wire cable, and electrical connecting plug. It provides positive, simple, manual control of the receiver through a one-eighth inch flexible cable which is thoroughly weather-proof. The operating cable, firmly anchored to both units, and easily adjustable to any length, drives the tuning condenser of the radio receiver by means of a pulley attached to the condenser shaft, and enclosed in the snug-fitting housing of the condenser driving unit. One complete turn of the hand-grip tuning control covers the entire tuning range of the radio receiver. The unit is specially constructed to give precise, accurate tuning.

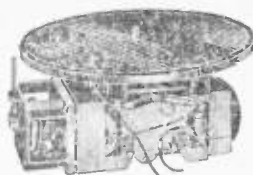
The illuminated dial uses a standard pilot light easily replaceable. The multiple-wire cable for switch, pilot light and volume control consists of five wires, in accordance with the R. M. A. standard color code.

The electrical connecting plug, sturdy in construction and attractive in appearance, protects the connections to batteries and speaker leads and simplifies installation.

The control unit is beautifully finished to harmonize with the rest of the equipment in any well-appointed automobile.

All control units are equipped with a lock-switch and key, together with a spare key.

Brown Flier Twin Recording Motor



May also be used for playback where constant speed is absolutely required.

This motor is the ultimate for recording purposes. It

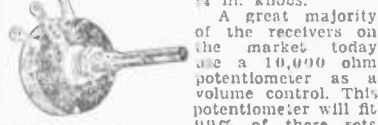
has the ability to turn at a constant speed even with a recording lead of 6 lbs. This motor is driven by two motors, one situated at each end of the casing. A special clutch control governor enables the maintenance of constant speed at 78 r.p.m. Furnished with 12 in. turntable and special mounting cushions to avert vibrations which is ruinous to good recording. For 110 V., 50-60 cycle operation only.

Cat. No. 274

Our Price **\$17.50**

Frost 10,000 Ohm Potentiometer

Graphite Element. Only 7/16 in. thick. 1 1/2 in. flat shaft with 3/8 in. thread and locknut. Will fit all 1/4 in. knobs.



A great majority of the receivers on the market today use a 10,000 ohm potentiometer as a volume control. This potentiometer will fit 99% of these sets because of its compactness and length of shaft. Absolutely noiseless. Positive wiping action. Perfectly insulated for 500 volts. Every serviceman should have a supply of these controls on hand for any emergency. Made to sell for 50c, we are offering them for half the price due to a special purchase.

WHILE THEY LAST

Cat. No. 5634

Our Price **29c**

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



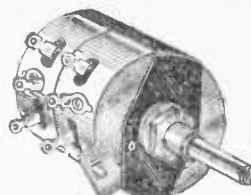
Cat. No. 3668

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.

Genuine Brand New Frost Victor Twin Potentiometer



Made by Frost For Models

RE32
RE35
RE52
RE75

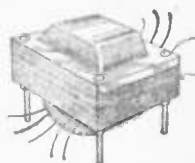
3800-3900 Ohms—Clockwise

Here is the genuine Victor Volume Control manufactured by Frost—not to be confused with surplus controls—and incorporating several improvements over the old type. Mounting panel on front of unit makes for ease of installation. Metal strap holds the two units rigidly. Completely shielded and enclosed against dust and moisture. Shaft 1/2 in. threaded and 1-3/16 in. long.

Cat. No. 7450
Our Price

95c

4 or 5 Tube Midget Replacement Power Transformer



Size: 3x2 1/2 x 3" high.
Weight, 2 lbs.

2 amps.; 300 v. each side of C. T.; 280 v. rectified at 60 mls.

This compact, yet ruggedly built power transformer can be used as a replacement in almost every midget receiver on the market using up to five tubes. It is universal in adaptability, having 4 long 8/32 mounting screws for horizontal mounting. It has a shielded top. The wire leads are adequately long and are instantaneously identified.

Every service man should have several of these fine transformers on hand for any emergency and the first job will more than pay for half a dozen transformers. Buy them now at this extreme low price as you may not have another opportunity like it again.

Cat. No. 5502

Our Price

Cat. No. 7374—For 220 V. A.C. **\$1.50**

95c

Acratest Field Exciter for Dynamic Speaker

6 x 4 1/2 x 3 1/2" high. Weight 5 lbs.



This unit is capable of delivering 200 milliamperes at approximately 100 volts. It is designed to operate with either one of the new 83 type mercury vapor full wave rectifiers or two of the 280 type

wave rectifiers. Greater efficiency and more current is attained with the 83 tube, due to the lower internal resistance of this tube. The unit is housed in a compact black crackle finished can with mounting holes in the base. Reading from left to right, binding posts 1 and 2 and 3 and 4 are separate pairs, and may be used to supply field current for two individual speakers.

Cat. No. 85
Our Price, Less Tubes.....

\$5.50

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 3/4" | 8-8 | 1.40 |
| 5317 | 16 Mfd. | 2 3/4" | 4-4-8 | 1.95 |
| 5318 | 18 Mfd. | 2 3/4" | 8-9 | 1.65 |
| 5324 | 24 Mfd. | 3" | | 1.60 |
| 5329 | 20 Mfd. | 3" | | 1.30 |
| 5332 | 32 Mfd. | 3" | | 2.10 |
| 5334 | 36 Mfd. | 3" | 18-18 | 2.65 |
| 5336 | 36 Mfd. | 3" | | 2.30 |
| 5354 | 54 Mfd. | 3 1/2" | | 3.25 |
| 5352 | 54 Mfd. | 3 1/2" | | 3.25 |



Single Section Electrolytic Condensers

Type I—
Inverted

Diameter 1 1/2"
Peak Volts 500



| Cat. No. | Cap. | Length | Our Price |
|----------|-------------|---------|-----------|
| 5301 | 1. Mfd. 400 | 7/8" | \$.35 |
| 5302 | 2. Mfd. | 1-7-18" | .47 |
| 5304 | 4. Mfd. | 2 3/8" | .51 |
| 5308 | 8. Mfd. | 4 1/4" | .75 |
| 6510 | 4-4 Mfd. | 4 1/4" | .95 |
| 6720 | 6-6 Mfd. | 4 1/4" | .44 |



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 |



Tubular Pigtail Electrolytics

These low voltage tubulars embody all the characteristics of the 500 volt Acratest Electrolytics. They are hermetically enclosed in a non-hygroscopic 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. | Peak Volts | Tube Size | Our Price |
|----------|------|------------|------------------------|-----------|
| 6644 | 7.5 | 25 | 5/8 in. O.D.x2 1/2 in. | \$.20 |
| 6645 | 10. | 25 | 3/4 in. O.D.x2 1/2 in. | .30 |
| 6646 | 25. | 25 | 3/4 in. O.D.x2 1/2 in. | .30 |
| 6647 | 2. | 50 | 5/8 in. O.D.x2 1/2 in. | .25 |
| 6648 | 5. | 50 | 3/4 in. O.D.x2 1/2 in. | .25 |
| 6649 | 7.5 | 50 | 3/4 in. O.D.x2 1/2 in. | .25 |
| 6650 | 10. | 50 | 3/4 in. O.D.x2 1/2 in. | .25 |
| 6660 | 2. | 100 | 3/4 in. O.D.x2 1/2 in. | .30 |
| 6661 | 5. | 100 | 3/4 in. O.D.x2 1/2 in. | .30 |
| 6662 | 1. | 200 | 5/8 in. O.D.x2 1/2 in. | .30 |
| 6663 | 2. | 200 | 3/4 in. O.D.x2 1/2 in. | .30 |
| 6664 | 1. | 400 | 3/4 in. O.D.x2 1/2 in. | .30 |
| 6665 | 2. | 400 | 1 in. O.D.x2 1/2 in. | .27 |
| 6724 | .5 | 500 | 3/4 in. O.D.x2 1/2 in. | .24 |
| 6725 | 1. | 500 | 3/4 in. O.D.x2 1/2 in. | .29 |
| 6726 | 2. | 500 | 1 in. O.D.x2 1/2 in. | .33 |

Mounting Brackets for Cardboard Condensers



Cat. No.
6196 For 4 Mfd. Condensers
6197 For 6 and 8 Mfd. Condensers

Our Price 5c Each

Acratest Is Standard

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 |
|----------|----------|---------------|-----------|
| 6191 | 1 Mfd. | 1 x 1 x 2 | \$.30 |
| 6192 | 2 Mfd. | 1 x 1 x 2 | .35 |
| 6193 | 4 Mfd. | 1 1/2 x 1 x 4 | .36 |
| 6194 | 6 Mfd. | 1 1/2 x 1 x 4 | .42 |
| 6195 | 8 Mfd. | 1 1/2 x 1 x 4 | .43 |

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 life.
6. Small size.
7. Excellent Filter action.

| Cat. No. | Capacity | Size | Net Price |
|----------|----------|-------------------------|-----------|
| 6931 | 2 mfd. | 1 3/4 x 2 1/4 x 5" High | \$.85 |
| 6932 | 4 mfd. | | 1.05 |
| 6933 | 8 mfd. | | 1.95 |

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.

| Cat. No. | Cap. | D.C.W.V. | Our Price |
|----------|------|----------|--|
| 3076 | .1 | 200 | 5-16x9-16x13 $\frac{1}{4}$ \$.11 |
| 3077 | .25 | 200 | 7-16x1 3-16x13 $\frac{1}{4}$13 |
| 3078 | .5 | 200 | "x11 1-16x13 $\frac{1}{4}$16 |
| 3079 | 1. | 200 | "x11 11-16x13 $\frac{1}{4}$22 |
| 3080 | 1. | 200 | "x11 $\frac{1}{2}$ x3 1-3-1622 |
| 3081 | 2. | 200 | 9-16x11 11-16x3 3-1641 |
| 3082 | .1 | 300 | 5-16x11-16x13 $\frac{1}{4}$13 |
| 3083 | .25 | 300 | "x15-16x13 $\frac{1}{4}$16 |
| 3084 | .5 | 300 | 9-16x1 9-16x13 $\frac{1}{4}$20 |
| 3085 | 5 | 300 | 7-16x1 3-16x3 3-1620 |
| 3086 | 1. | 300 | "x1 $\frac{1}{2}$ x3 3-1630 |
| 3087 | 1. | 300 | "x1 $\frac{1}{2}$ x3 5-630 |
| 3088 | 1. | 300 | "x1 $\frac{1}{2}$ x4 $\frac{1}{2}$30 |
| 3089 | 2. | 300 | "x1 13-16x4 $\frac{1}{2}$30 |
| 3090 | .1 | 400 | "x13-16x13 $\frac{1}{4}$16 |
| 3091 | .25 | 400 | "x11-16x13 $\frac{1}{4}$18 |
| 3092 | .5 | 400 | 11-16x11-11-16x13 $\frac{1}{4}$24 |
| 3093 | .5 | 400 | "x1 $\frac{1}{2}$ x3 3-1624 |
| 3094 | 1. | 400 | "x1 11-16x3 3-1638 |
| 3095 | 2. | 400 | 1x3 9-16x3 3-1681 |
| 3096 | 1. | 400 | 9-16x1 $\frac{1}{2}$ x4 $\frac{1}{2}$38 |
| 3097 | .1 | 600 | "x1 1-16x1 13-1620 |
| 3098 | .25 | 600 | "x1 $\frac{1}{2}$ x3 $\frac{1}{4}$22 |
| 3099 | .5 | 600 | "x1 11-16x3 $\frac{1}{4}$33 |
| 3100 | 1. | 600 | 15-16x2 $\frac{1}{2}$ x3 $\frac{1}{4}$57 |
| 3101 | 2. | 600 | "x1 $\frac{1}{2}$ x4 $\frac{1}{2}$63 |
| 3102 | .5 | 1000 | 11-16x2 $\frac{1}{2}$ x4 $\frac{1}{2}$50 |
| 3103 | 1. | 1000 | 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x4 $\frac{1}{2}$70 |
| 3104 | 2. | 1000 | "x1 $\frac{1}{2}$ x4 $\frac{1}{2}$ 1.21 |
| 3105 | .1 | 1250 | "x7 $\frac{1}{2}$ x4 $\frac{1}{2}$30 |
| 3106 | .5 | 1250 | "x7 $\frac{1}{2}$ x4 $\frac{1}{2}$81 |
| 3107 | 1. | 1250 | 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x4 $\frac{1}{2}$ 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; 332 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 |
| 3054 | 2. | 300 | .65 |
| 3055 | .1 | 400 | .21 |
| 3056 | .25 | 400 | .27 |
| 3057 | .5 | 400 | .37 |
| 3058 | 1. | 400 | .45 |
| 3059 | .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. | \$.30 |
| 7154 | 6-6 Mfd. | 1.05 |
| 7155 | 8-8 Mfd. | 1.20 |
| 7156 | 4-6 Mfd. | .50 |
| 7157 | 4-8 Mfd. | .98 |
| 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. | \$.70 |
| 7160 | 6-6 Mfd. | .90 |
| 7161 | 8-8 Mfd. | 1.05 |
| 7162 | 4-6 Mfd. | .80 |
| 7163 | 4-8 Mfd. | .90 |
| 7164 | 6-8 Mfd. | 1.00 |

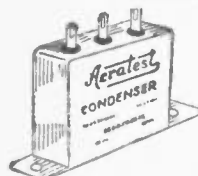
See Our Complete Filter
Condenser Listing on
Pages 98 and 99.

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 con-

densers 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 | .38 |
| 2751 | .5-.5 | 200 | .42 |
| 2756 | .25-.25 | 300 | .40 |
| 2757 | .1-1 | 400 | .31 |
| 2778 | .25-.25 | 400 | .44 |

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 |
|----------|------|----------|-----------|
| 2861 | .1 | 200 | \$1.18 |
| 2862 | .25 | 200 | .22 |
| 2863 | .5 | 200 | .27 |
| 2865 | 1 | 200 | .33 |
| 2874 | .1 | 300 | .20 |
| 2875 | .25 | 300 | .22 |
| 2876 | .5 | 300 | .30 |
| 2877 | .1 | 400 | .20 |
| 2878 | .25 | 400 | .26 |
| 2879 | .5 | 400 | .35 |

NON-INDUCTIVE UNIVERSAL BY-PASS Condensers

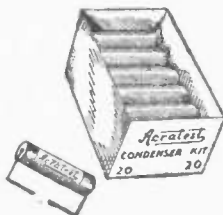


This type was designed to permit large capacities and high voltages. The metal terminals are all specially hot tinned and the cans wax sealed.

| Cat. No. | Cap. | D.C.W.V. | Our Price |
|----------|---------|----------|-----------|
| 2783 | .1-1 | 200 | \$0.30 |
| 2771 | .5 | 200 | .27 |
| 2981 | .5-.5 | 200 | .42 |
| 2980 | 1 | 200 | .30 |
| 2773 | .1 | 200 | .54 |
| 2784 | .1-1 | 300 | .32 |
| 2774 | .5 | 300 | .30 |
| 2819 | .1-.5-1 | 300 | .45 |
| 2775 | 1 | 300 | .40 |
| 2785 | .1-1 | 400 | .38 |
| 2779 | .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 — .03 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

3 x 1/10 Mfd. Sections By-Pass Condenser



Can Negative

2x1 3/4 x 3/4"

D.C.W.V. 200

Used in General
Motors sets.

Cat. No. 5214 40c
Our Price

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

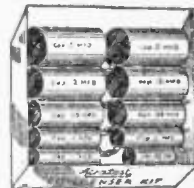


This condenser is by far the most useful of any condenser on the market and a real aid to the service man for making repairs. It is a small, compact unit, hermetically sealed and completely insulated. Furnished with tinned pigtail leads which permit free soldering to all parts of the circuit and very 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 | .12 |
| 2834 | .1 | 300 | .13 |
| 5638 | .15 | 300 | .17 |
| 5639 | .2 | 300 | .18 |
| 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. | 300 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 caused for single central. Bakelite base, mica dielectric, heavy phosphor bronze spring plates with an screw adjustment. The plates are tuned to permit easy soldering.

For T. R. F. Circuits

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

For Superheterodyne Circuits

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

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.

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 | .36 |

R.C.A. Buffer Condenser

.002 on Each Side of Common Negative

Cat. No. 2910

\$1.25 Dozen



MICAMOLD

Molded Mica Pigtail Condenser

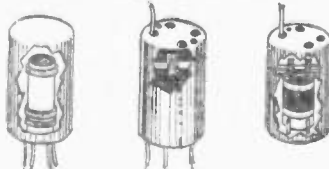


Size 4 x 3/8

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 | .00015 | .10 |
| 6632 | .00025 | .10 |
| 6633 | .0005 | .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 |

Gen-Win "5" Tube Super Heterodyne Coil Kit



Set builders, servicemen, experimenters, dealers, all should build this 5 tube Super Heterodyne marvel. This 5 tube Super Het will pull all the stations from all over the country, any time, anywhere and by anyone. It really and truly is the greatest little wonder in radio today. Think of it—it works like any 10 tubes, brings in the stations as clear as a bell, with perfect selectivity. No experience required either to build it or operate it. Can be assembled in an hour and about all the essential material required is a 3 gang .0035 Mfd. Condenser, small power transformer and some small carbon resistances. We highly and sincerely recommend this receiver to our customers.

The Coil Kit is made up into 3 conventional metal coil cases as follows:
Pre Selector Coil and Detector Coil.
Oscillator Coil and 1st Intermediate Frequency Transformer—175 K.C.
2nd Intermediate Frequency Transformer—175 K.C.

We are so enthused over the ingenuity of the design and unique construction of these coil units that we are sure you will be more than pleased when you actually see them. We fully guarantee these coil units to be the finest on the market and will make up when assembled the best Super Heterodyne you ever heard. The Kit of coils come complete with full instruction data and excellent wiring diagram. Shipping Weight 3 lbs.

Cat. No. 7455
Our Price **\$3.90**

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 directly to a metal base.

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

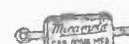
| Capacity | Type J | | Type A | |
|----------|----------|-----------|----------|-----------|
| | Cat. No. | Our Price | Cat. No. | Our Price |
| .00003 | 5126 | .10 | | |
| .00005 | 5122 | .10 | 5134 | .12 |
| .0001 | 5123 | .09 | 5135 | .10 |
| .00015 | 5121 | .09 | 5136 | .10 |
| .00025 | 5125 | .09 | 5137 | .10 |
| .0003 | 5133 | .10 | | |
| .00035 | 5126 | .09 | 5138 | .10 |
| .0005 | 5127 | .09 | 5139 | .10 |
| .00075 | 5128 | .10 | 5140 | .10 |
| .001 | 5129 | .12 | 5141 | .12 |
| .0015 | 5130 | .12 | 5142 | .14 |
| .002 | 5131 | .14 | 5143 | .15 |
| .0025 | 5132 | .14 | 5144 | .15 |
| .003 | 5133 | .15 | 5145 | .18 |
| .0035 | 5128 | .15 | | |
| .004 | 5129 | .18 | 5146 | .21 |
| .005 | | | 5147 | .22 |
| .006 | | | 5148 | .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.

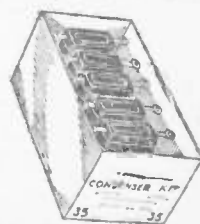


Contains 35 Condensers Assorted Capacities

Cat. No. 3530
Per Kit **\$3.50**

MICAMOLD Bakelite Condenser Kit

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



Cat. No. 3529
Contains 35 Condensers Assorted Capacities
\$2.95 per kit

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 |
|----------|--------|----------|-----------------|-----------|---------------|
| 5272 | GF 10 | .10 Mfd. | 3/4x1 3/4x1 | | \$0.24 |
| 5273 | GF 25 | .25 Mfd. | 3/4x1 3/4x1 | | .27 |
| 5274 | GF 50 | .50 Mfd. | 3/4x1 3/4x1 | | .32 |
| 5275 | GF 100 | 1 Mfd. | 3/4x2 1 1/4 | | .43 |
| 5276 | GF 200 | 2 Mfd. | 1 1/4x2 1 1/4 | | .65 |
| 5277 | GF 400 | 4 Mfd. | 1 13/16x2 1 1/4 | | 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 |
|----------|--------|----------|-----------------|-----------|---------------|
| 5264 | GB 10 | .10 Mfd. | 3/4x1 3/4x1 | | \$0.18 |
| 5265 | GB 25 | .25 Mfd. | 3/4x1 3/4x1 | | .21 |
| 5266 | GB 50 | .50 Mfd. | 3/4x1 3/4x1 | | .24 |
| 5267 | GB 100 | 1 Mfd. | 3/4x2 1 1/4 | | .32 |
| 5268 | GB 200 | 2 Mfd. | 1 1/4x2 1 1/4 | | .56 |
| 5271 | GB 400 | 4 Mfd. | 1 13/16x2 1 1/4 | | .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 | Capacity | Size, in. | Our Net Price |
|----------|--------|----------|------------------|-----------|---------------|
| 5278 | NU 10 | .10 Mfd. | 2x1 1/2x3 1/16 | | \$0.21 |
| 5279 | NU 25 | .25 Mfd. | 2x1 1/2x3 1/16 | | .24 |
| 5280 | NU 50 | .50 Mfd. | 2x1 1/2x3 1/16 | | .30 |
| 5281 | NU 100 | 1 Mfd. | 2x1 1/2x3 1/16 | | .36 |
| 5282 | NU 200 | 2 Mfd. | 2x1 1/2x3 1/16 | | .66 |
| 5283 | NU 400 | 4 Mfd. | 2x1 13/16x3 1/16 | | 1.25 |

Non-Inductive 1000 Volt High Voltage Units

Type HSM Rated at 1000 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 | HSM5 | .05 Mfd. | 2x1 3/16x1 1/16 | | \$0.57 |
| 5260 | HSM10 | .10 Mfd. | 2x1 3/16x1 1/16 | | .60 |
| 5261 | HSM25 | .20 Mfd. | 2x1 3/16x1 1/16 | | .65 |
| 5262 | HSM50 | .50 Mfd. | 2x1 3/16x1 1/16 | | .70 |
| 5263 | HSM100 | 1 Mfd. | 2x1 3/16x1 3/16 | | .90 |
| 5264 | HSM200 | 2 Mfd. | 4 1/2x2 1/2x1 1/2 | | 1.50 |
| 5265 | HSM400 | 4 Mfd. | 2x1 1/2x3 1/16 | | 1.50 |
| 5266 | HSM200 | 2 Mfd. | 4 1/2x2 1/2x1 1/2 | | 2.80 |
| 5267 | HSM400 | 4 Mfd. | 2x2 1/2x2 1/2 | | 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.



| Cat. No. | Type | Capacity | Our Price |
|----------|------|----------|-----------|
| 6091 | M-A | .0001 | \$0.20 |
| 6092 | M-B | .0002 | .20 |
| 6093 | M-C | .0005 | .20 |
| 6094 | M-D | .0005 | .20 |
| 6095 | M-E | .001 | .22 |
| 6096 | M-F | .002 | .22 |
| 6097 | M-G | .004 | .22 |
| 6098 | M-H | .005 | .22 |
| 6099 | M-J | .006 | .25 |
| 6100 | M-K | .01 | .28 |
| 6101 | M-L | .02 | .30 |
| 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 new stand-off insulator, 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.



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.



| Cat. | No. | Type | Capacity | Size, in. | List Price | Our Price |
|------|-------|--------|---------------|-----------|------------|-----------|
| 6331 | T 100 | 1 Mfd. | 5 1/2x4 1/2x1 | | \$3.75 | \$2.25 |
| 6332 | T 200 | 2 Mfd. | 5 1/2x4 1/2x2 | | 6.50 | 3.50 |
| 6333 | T 400 | 4 Mfd. | 5 1/2x4 1/2x4 | | 11.00 | 6.00 |

For the more advanced amateurs, Type T, familiar to thousands of them, is still the best bet for use with the 50 watt with 1000 volts of rectified A.C. on the plate. Also improved in its construction, this type condenser is now better than ever.

(Continued from preceding column)

| Cat. | No. | Type | Cap'ty | Size, in. | List Price | Our Price |
|------|--------|--------|-------------------|-----------|------------|-----------|
| 6325 | TC 100 | 1 Mfd. | 4 1/2x3 1/2x1 1/4 | | \$3.50 | \$1.65 |
| 6326 | TC 200 | 2 Mfd. | 4 1/2x3 1/2x1 1/4 | | 5.00 | 2.75 |
| 6327 | TC 400 | 4 Mfd. | 4 1/2x3 1/2x2 1/4 | | 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 Filter Section for Atwater-Kent Models 37 and 38

This unit is made up of the four necessary condensers, and is assembled in one unit with leads brought out and insulated. Remove the choke from top of the old condenser block, clean out old condensers, insert the assembly block, reconnect the choke and leads, and you have a new filter choke assembly with condensers rated considerably higher than the original manufacturer's specifications.

Cat. No. 2987

Replacement 3 Section By-Pass Condenser for Atwater-Kent

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

Speaker By-Pass Condenser for Atwater-Kent

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

Colonial Replacement By-Pass Condenser Block Used in Colonial 32

Yellow—1 Mfd. 250 V.
Green—1.10 Mfd. 200 V.
Brown—1 Mfd. 200 V.
Red—1.10 Mfd. 200 V.
Can. is negative.

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 1/2 in. high 2 in. wide

Triple By-Pass Condenser

3—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 1/2 x 1 1/2 x 1 1/2 in.

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

Dubilier .6-C-6 Buffer Condenser

Excellent for Mike Amplifier Filter

PL629

Cat. No. 5581 **35c**

CROSLEY 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 |
|----------|----------|--------|
| 5180 | WC471 | \$0.21 |
| 5119 | W7013 | .20 |
| 5120 | W4018C | .20 |
| 5109 | W10449 | .20 |
| 5110 | W12312 | .10 |
| 5111 | W20118 | .35 |
| 5112 | W71332 | .55 |
| 5107 | W3318 | .25 |
| 5102 | W6122 | .45 |
| 5401 | W20157 | .22 |
| 5313 | W20186 | .65 |
| 5298 | W25426 | .35 |
| 5299 | W4919 | .50 |
| 5407 | W22995 | .30 |
| 5408 | W7153 | .42 |
| 5409 | W4968 | .26 |
| 5411 | W4313A | .27 |
| 5412 | W21126 | .20 |
| 5417 | W20448 | .25 |

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. 2985 **65c ea.**



Zenith Quadruple .2 Mfd. By-Pass Condenser

Replacement Part No. 22-C

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 acetate by-pass condenser.

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

Sparton By-Pass Condensers

Used in all Sparton sets.

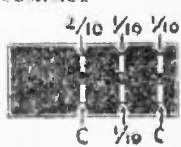
Cat. No. Size
5323 1 Mfd.
6394 1 Mfd.



List \$1.50

Our Price 35c ea.

Potter By-Pass 1 MFD. COMPACT



600 VOLT TEST

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

Potter Midget By-Pass Condensers

Working Voltage 200

Cat. No. Capacity
5182 1 mfd.
5181 .25 mfd.
6637 .5 mfd.



12c ea.

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



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

| Cat. No. | Size | Each | Box |
|----------|--------|------|------------|
| 2928 | 1 Mfd. | 35c | \$3.60 doz |
| 2929 | 2 Mfd. | 50c | 5.50 doz |
| 2936 | 4 Mfd. | 85c | 9.00 doz |

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.P. 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 | .31 |
| 2782 | .25 | 300 | .25 |

MAIL ORDERS TO **Federated Purchaser Inc.**
See Terms on Page 3

Federated Purchaser Inc.

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

Acratest

Filter Condensers

Atwater Kent Replacement Condenser Block

For Model 37 Sets

Cat. No. 5001 **\$1.55**
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.

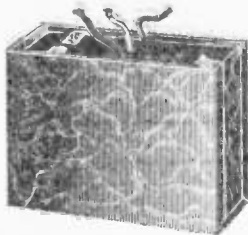
Hook-up for AK-37 Block

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

Our Price **50c**

G. E. 3 Mfd. 600 V Filter Condenser

With Leads and Mounting Bracket.

Dimensions: 5 1/2 x 2 1/2 x 1 1/2 in.

Cat. No. 6045

Each **49c**

Acratest Replacement Condenser Blocks

for Majestic Sets



| | | |
|----------|--------------|-----------------|
| Cat. No. | Set | } \$2.25 |
| 5026 | 70 Series | |
| 5027 | 80 Series | |
| 5028 | 90 Series | |
| 6678 | 90B and 100B | |

| | | |
|------|------------------|-----------------|
| 5029 | Majestic B | } \$1.98 |
| 5030 | Special Master B | |

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 is 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, 32 and 51

Cat. No. 2710

Special 39c ea.

R. C. A. Part 8393



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 1 1/4 in. x 5 in. high

Cat. No. 2973

35c ea.

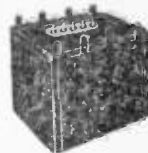
GENUINE BRAND NEW Victor Replacement Condenser Block

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—2 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. | Set No. | Our Price |
|----------|-----------------------|-----------------|-----------|
| 2714 | 8289 | WG4 17 | \$2.15 |
| 2710 | 8288 | WG12 18, 22, 51 | 2.20 |
| 2715 | 8476 | WG60 14, 46, 47 | 2.50 |
| 2720 | 8466 | WG10 66 | 2.50 |
| 2659 | 8487 | WG87 66 | 1.60 |
| 6544 | 8368 | 64 | 5.95 |
| 6498 | 8382 | 62 | 2.50 |
| 7260 | | 67 | 6.75 |
| 6888 | | 70 | 2.75 |
| 6033 | | 11 | 3.50 |

RCA 4 Mfd. 300 Volt Filter Condenser

Part No. D.L.2598235
In metal can
4 1/2 x 5 x 1 1/2 in.

An all around fine condenser for filter circuits, line filters, transmitters, etc. Will stand 1000 volt flash test.

Cat. No. 7292
Our Price**60c**

RCA 20 Mfd. Filter Condenser Block

D.C. W.V. 400



Excellent for A.C. line filters and speaker filters, also on transmitters, 2 1/2 in. long, 2 1/4 in. wide, 5 1/4 in. tall.

Part No. DL2598243

Cat. No. 5445

Our Price **85c**

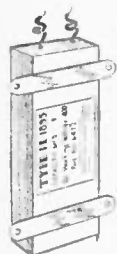
Polymet 2 Mfd. Auto Condenser



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

Cat. No. 5605

65c



Dubilier 1 Mfd. 400 V. Condenser

PL1395

1 Mfd. 400 D.C.W.V. With Mounting Brackets

2x3x5 in.

Cat. No. 5607

Our Price **75c**



Dubilier 4 Mfd. Condenser

PL610

D.C. W.V. 200

2x1 1/2x5 1/4 in.

Cat. No. 5603

Our Price **95c**



Dubilier 6.1 Mfd. Condenser Block

D.C. W.V. 400

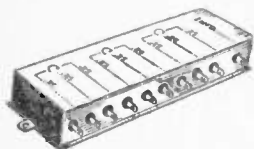
3 1/2x2 1/2x5 in.

PL1156

Cat. No. 5606

Our Price **\$1.85**

Multiple 1/4 Mfd. By-Pass Condenser



6 in. long,
2 in. wide,
1 in. deep.

Contains 9—1/4 Mfd. sections with one common negative for each 3 sections and one 1 Mfd. section, all at 300 W.V. D.C. Enclosed in metal can with 2 mounting lugs.

Used in Kennedy 20 Sets.

Cat. No. 7183

Our Price **48c**

Polymet 2 Mfd. Filter Condenser



200 V. D.C.

In metal can

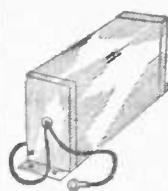
1 3/4x1 1/2x1 3/4" high.

Cat. No. 7434

Our Price **35c**

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 exceeding 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 1/2x1 in.

Cat. No. 6044

69c

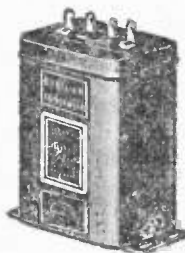
Dubilier 4 Mfd. Filter Condenser Blocks

PL571

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

Cat. No. 2924

\$1.50



1/2 Mfd.—1,000 Volts

As used in Peerless Sets 100 Volts, for Kyletron Speakers



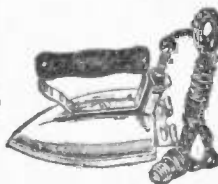
Note: These condensers were made for Kyletron Speakers. You will find them necessary if you do any repair work on Peerless Kyletron Sets.

Cat. No. 2903

30c ea.

6 L.B. DE LUXE HOUSEHOLD IRON

6 pound iron 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

Complete Filter Condenser Guide on Pages 98 and 99

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 3/8x5x1 1/2 in.

Cat. No. 3721

Each **\$1.65**

3.9 Mfd. 1000 V. in same can.

Cat. No. 3730

\$1.50

3 1/2 Mfd. 600 V. unmounted

Cat. No. 3731

75c

Sprague 8 Mfd. Upright Mounting Electrolytic Condenser

An excellent condenser for replacement in all sets using 8 mfd. electrolytic condensers or for replacing the old type paper condensers. Its simplicity of mounting makes it universally adaptable. Only one hole necessary. The removable base is fastened to the set chassis and the condenser then screwed into the base. A shell is provided for the top to keep out moisture and dust. Wire lead from condenser comes thru the hole in the cap. A very compact unit measuring 1 1/2 in. in diameter by 4 in. high. Copper container. Puncture proof. Rated at 450 working voltage.

Cat. No. 6809

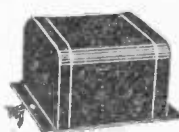
Our Price, Each



39c

RCA-VICTOR

Output Transformer



Output to 10 Ohm Voice Coil

For Radiola 46, 47 and 66. Can also be used in No. 106 Speaker with 2 1/10 mfd. condensers.

Part No. 6019

Cat. No. 5625

2 1/2x3 3/4x3 in. tall.

Our Price 60c

RCA Double Filter Chokes

Contains Two 30 Henry 80 Mill Chokes



This heavy duty, rugged, double Filter Choke is excellent for all types of filter circuits and experimental work in receiving sets, power amplifiers, eliminators, transmitters and various other purposes.

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

Weight 6 lbs.

Size: 5 1/4x3 3/4x2 1/4"

Cat. No.

2500

Our Price 48c

STEEL CHASSES

Cut and Drilled, Ready to Use for Receivers and Amplifiers

These cadmium plated chasses are constructed of a one-piece spot welded steel.

We offer you an assortment of sizes for almost any need. These chassis (with the exception of the last one which is blank) are all drilled to accommodate various types of sockets, electrolytic condensers, power transformers, audio transformers, volume controls, switches, etc. You really don't have to drill any other holes.

We offer you these bases at a real low price.

9 TUBE CHASSIS for super heterodyne receiver, with holes for standard wafer sockets, power transformer, filter condensers, coils and tuning unit. 13 1/2 in. long, 1 1/2 in. wide, 3 in. tall.

Cat. No. 7297 **\$1.00**
Our Price

6 TUBE MIDGET CHASSIS for receiver or amplifier. Cut and drilled with standard holes. 14 in. long, 6 1/4 in. wide, 2 1/2 in. tall.

Cat. No. 5478 **35c**
Our Price

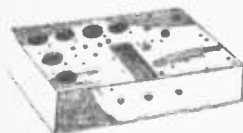
5 TUBE MIDGET CHASSIS, 13 in. long, 9 in. wide, 2 in. tall. For all standard size midgets.

Cat. No. 7298 **\$1.00**
Our Price

3 TUBE AMPLIFIER BASE for Single 245 or 247 amplifier. 16 1/2 in. long, 9 1/4 in. wide, 1 1/4 in. tall.

Cat. No. 4399 **75c**
Our Price

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.

Blank Receiver or Amplifier Chassis



17 1/4 in. long
9 1/4 in. wide
and 5 in. tall.

Cat. No. 6939
89c Ea.

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.

Headquarters for Genuine

Majestic

Replacement Parts

Our Prices as Low as 80% Off Regular List

| Cat. No. | Items | For Models | Part No. | List Price | Our Price |
|----------|-------------------------------|--------------------------------|----------|------------|-----------|
| 5458 | Filament Trans. | 180 | 619 | \$8.00 | \$1.25 |
| 5460 | Plate Trans. | 180 | 620 | 8.00 | 1.25 |
| 5464 | Filament Trans. | 70 Series | 61 | 8.00 | .90 |
| 5468 | Plate Trans. | 70 Series | 67 | 8.00 | .90 |
| 5461 | Filament and Plate Trans. | 90 Series | 436 | 10.00 | 1.65 |
| 5462 | Double Choke | | 180 | 5.00 | .95 |
| 5872 | Filament and Plate Trans. | 90B, 100B | | 12.00 | 4.75 |
| 5465 | Filter Choke, 100 Mils | 70 Series | 66 | 5.00 | .95 |
| 5459 | Double Filter Choke, 250 Mils | 90 Series | 281 | 5.00 | 1.25 |
| 2525 | Majestic "B" Trans. | | | | 1.50 |
| 2612 | Power Trans. | 91, 92 (227, 245, 280 Tubes) | | | 4.00 |
| 6767 | Power Trans. | 130, 131, 132, 233 | | | 3.95 |
| 5104 | Power Trans. | 71, 72 (Pack 7BP0) | | | 4.00 |
| 7020 | Power Trans. | 130, 131, 830A, 130A, 132, 133 | | | 5.25 |
| 2619 | Power Trans. | 180 Comb. (227-250-281) | | | 7.50 |
| 2684 | Fila. and Plate In one can | 71, 72 | | | 4.75 |
| 7239 | Power Trans. | 21, 22, 23 | | | 3.95 |
| 7240 | Power Trans. | 50 | | | 3.95 |
| 7241 | Power Trans. | 60 | | | 3.95 |
| 5872 | Filament and Plate Trans. | 90B, 100B | | | 4.75 |

Majestic 3600 Ohm Resistors



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

Dynamic Speaker Cable

Part No. 119

Cat. No. 4398 **25c**
Our Price

8 Wire Cable

(Chassis to Pack)

Pack No. 209, Model 90

Cat. No. 4398 **60c**
Our Price

Majestic "A" Replacement Condenser

For Majestic "A"

Cat. No. 5031

\$2.25 each
8000 Mfd.

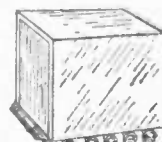


Exact replicas of the originals and made of the highest grade materials. Fully guaranteed.

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 |

Our Price **29c**
Each



Push-Pull Transformers

| Cat. No. | Type | Models | Part No. | Price |
|------------------------------------|----------------|------------------------|----------|--------|
| 5470 | Output | 70, 71, 72 | | \$1.25 |
| 5403 | Output | 70, 71, 82, 180 | 64 | .75 |
| 6350 | Straight Audio | 90 | 134 | .75 |
| | | 70, 71, 72, 90, 41, 92 | | .95 |
| 6818 | Input | 90 | 1551 | 1.35 |
| 6811 | Phono Input | | | |
| 2058 | Input | 62 | 1713 | 1.25 |
| Our Price 75c Each | | | | |

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

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

VOL. 1
Companion to Vol. 2.
Over 20,000 copies sold.
Radio's most popular service manual.
400 pages.

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Net \$4.50

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. Hand-somely bound.

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See Our Complete Power Transformer Listing On Pages 98 and 99

DRAKE'S Radio Cyclopedia

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**

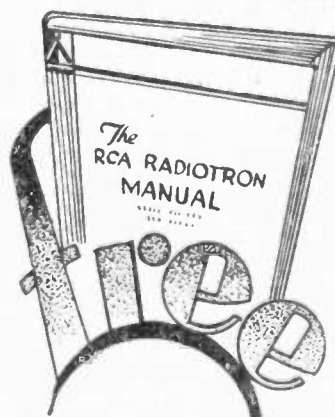
Servicing Superheterodynes

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. F. 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**



The RCA Manual of tube characteristics and the theory of vacuum tubes. 83 pages, over 150 illustrations and charts, value \$1.00, sent FREE with each purchase of 20 or more RCA or Cunningham tubes.

1932 Edition Official Radio Service Manual

With
FREE Supplements
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The OFFICIAL RADIO SERVICE MANUAL brings to the radio trade practically every radio diagram conceivable of which there is any record, including latest diagrams of testing equipment and mid-get radios. Not a single diagram which appeared in Volume 1 has been reprinted.

Cat. No. 356
\$4.00

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.

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Servicing Receivers by Means of Resistance Measurements

160 pages, type set; cloth bound; well illustrated.

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Price \$1.00

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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. Analyzing Special Circuits.

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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**

4 order blanks have been included in the center of this catalog for your convenience. Use them.

MAIL ORDERS TO
See Terms on Page 3

Federated Purchaser Inc.

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

made by
Chicago
Telephone Co.

FROST Volume Controls

A Control
for every
need

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**

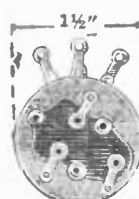
With
Switch

FROST-RADIO No. 70 Series Composi- tion 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 | 6165 |
| 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 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 requirement of the Underwriters' Laboratories.

Insulated thumb 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 | 6739 |
| 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.

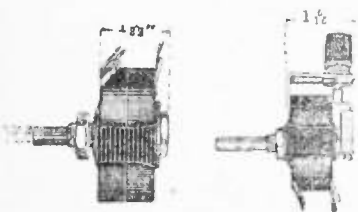
A positive wiping action between the resistance element and the disc, limited in degree and uniformly distributed over the entire arc of rotation is obtained by a flexing disc firmly secured and accurately positioned over frosted cone carrying the resistance element.

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 56c ea.

FROST 40 Series Dual Potentiometers



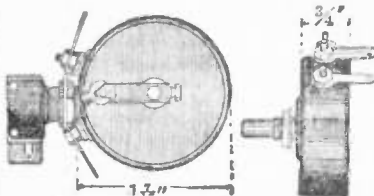
No. 40 Series
Tandem

No. 40 Series
Tandem with Switch
Combination

| Cat. No. | Size and Description | Our Price |
|----------|---|-----------|
| 3160 | 10,000 ohm Antenna Taper—50,000 ohm Screen Grid Taper with 1 in. shaft..... | \$1.25 |
| 3535 | 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 |
| 6212 | 10,000-50,000 ohm Pot. with switch..... | 1.45 |
| 6119 | 10,000-2,000 ohm Pot. with switch..... | 1.25 |

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 housings to be within commercial standards of electrical and mechanical accuracy.

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

**Our
Price
60c**
Without
Switch

**Our
Price
80c**
With
Switch

Panel Mounting Tone Control

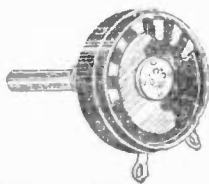
Only 2 1/2 in. deep.
Will fit in any
Set.

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 2 1/2 in. shaft.

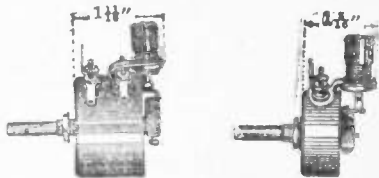
Cat. No. 5251

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, 56, 57, 62, 67, 64, 60, 61. Used in early models of 602, 613, 622, 642, 672..... | 1.25 |
| 6130 | Single Unit—33, 34, 35, 36A, 342, 352, 352A, 362, 35APX, 11, 12, 14, 15, 16, 17, 31, 32, 333, 353A..... | .80 |
| 6122 | Single Unit with switch—39, 39A, 40A, 392, 392A..... | 1.25 |

Table Tone Control



Cat. No. 4354
List Price, \$2.35

**Our
Price
\$1.35**

handy disc connectors.

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.

Table model beautifully finished in black and gold; felted base; long connecting cord and

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 |
|----------|-------|---|--------|
| 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 |
| 7030 | 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 Pt. 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

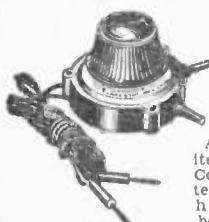


Heavy duty variable resistor for radio power units, transmitters, or general electrical applications. A favorite for line-voltage control. Dissipates heat rapidly and efficiently. Popular as C-bias control in auditorium amplifiers.

| Cat. No. | Model | Resistance Range | Carrying Capacity |
|----------|-------------------------------|------------------|-------------------|
| 5904 | Flt. Control | 4-10 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.

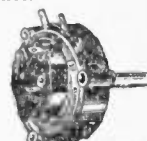
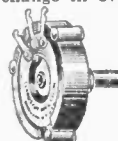
Switch for All Above Controls

Cat. No. 6750 **25c Each**

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 any 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. Coil | 5939 |
| 5914 | 10,000 | Antenna & C 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 | C Bias Rheostat R.P. Stages | 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 | Pentode 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 |
| 5953 | 1 meg. | Tone Control | 5958 |

70c

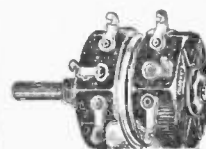
Without Switch

90c

With Switch

CLAROSTAT

Constant Impedance Controls



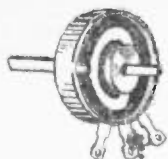
For constant impedance work in radio and sound equipment and also in phone line circuits. Real wire windings are necessary because of the low resistances used and because all units in one shaft must change uniformly.

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. | Resistance | Use |
|----------|------------|---|
| 2766 | 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 | 635 Rear | .65 |

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. 62940

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

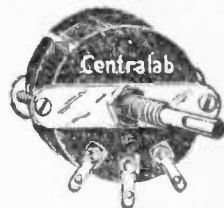


These controls are identical, both physically and electrically to the old controls but embrace several improved features since developed.

| Cat. No. | Size | Models | Our Price |
|----------|------------------------|--------------------|-----------|
| 6103 | 2,200 ohm, short shaft | 602, 608, 609, 610 | \$0.35 |
| 6105 | 25,000 ohm | 77-1 | .50 |
| 6108 | 10,000 ohm | 120 | .50 |
| 6104 | 25,000 ohm | 48P, WigIt | .50 |
| 6479 | 45,000 ohm | 30S, 49S, 31S | .35 |

Genuine Majestic Volume Controls

| Cat. No. | Models | Size | |
|----------|-----------|--------|------|
| 5738 | 180, 181 | 75,000 | Dual |
| | | 30,000 | Dual |
| 5696 | 90B, 100B | 75,000 | Pot. |
| | | 645 | Pot. |
| 5844 | 100 | 75,000 | Dual |
| | | 75,000 | Dual |



**Our
Price
35c ea.**

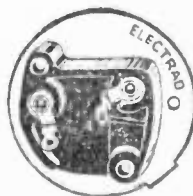
ELECTRAD "R I" CONTROLS



Accurate. Smooth Operating and Compact. The shafts are extra long to meet any mounting condition. The types listed below can be used as replacements in 343 standard models of receivers.

By simply attaching the switch coverplate, any volume control is turned into one with built-in switch.

This obviates the necessity of keeping both types in stock. The switch coverplate is standard and fits on all Electrad "R I" controls.



| —Without Switch— | | Value | Uses |
|------------------|--------|---------|---|
| Cat. No. | Type | (Ohms) | |
| 5633 | RI-273 | 200 | Cathode Bias |
| 2949 | RI-274 | 400 | Cathode Bias, Hum Neutralizer, Microphone Control |
| 2038 | RI-276 | 1000 | Cathode Bias Control |
| 5378 | RI-232 | 2000 | Untuned Antenna |
| 3039 | RI-233 | 3000 | R F Primary Shunt |
| 3040 | RI-234 | 5000 | Antenna Shunt |
| 2957 | RI-240 | 10,000 | Antenna or R F Pri. Shunt |
| 6848 | RI-201 | 15,000 | Ant. Pot. Center to coil, R. F. Primary Shunt |
| 2958 | RI-280 | 25,000 | Phonograph Pick-up Antenna-Ground Shunt, Screen voltage control |
| 2959 | RI-205 | 50,000 | Screen Voltage Control F. F. Plate Voltage Control |
| 2941 | RI-202 | 75,000 | Variable Mu Cathode Control Bias Voltage Control |
| 2960 | RI-242 | 100,000 | R F Plate Voltage Control, Tone Control |
| 2961 | RI-208 | 250,000 | Audio Trans. Sec. Control, R F Coil Shunt |
| 2962 | RI-203 | 500,000 | Audio Trans. Sec. Control |

| Cat. No. | MISCELLANEOUS DUAL TYPE POTENTIOMETERS | | Our Price |
|----------|--|---------|---|
| 5160 | 10,000 | 50,000 | Antenna and Screen Grid Control..... \$1.25 |
| 5158 | 50,000 | 50,000 | Antenna and Screen Control, Cathode Bias and Screen Control..... 1.45 |
| 3820 | 10,000 | 250,000 | R F Grid and Plate Shunt..... .35 |
| 3254 | 25,000 | 6,000 | Antenna and Screen Control..... 1.15 |
| 3751 | 3,800 | 3,800 | Antenna and R F Coupler Shunt..... .25 |

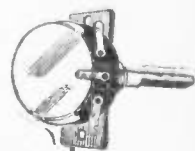
Replacement for Radiola 33

2000 Ohm Potentiometer

List Price
\$1.95

R.C.A. Replacement
Part No. 5091

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

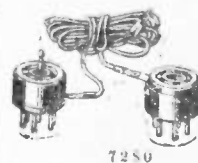


Cat. No. 3762

Our Price 60c

New Adapters for the New Tubes

57-58-82-41-42



Twin Adapter used in connection with 905 UY latch lock analyzer plugs. Test 57-58 tubes with the Jewell 444 analyzer.

Cat. No. 7280
Our Price..... **\$1.50**

Same as above but in analyzer plugs without latch lock. For Jewell 139, West- ton 547-565 and 566.

Cat. No. 7281
Our Price..... **\$1.50**

Miscellaneous Controls at Bargain Prices

CLAROSTAT

Speaker and Phonograph Fader



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

fourth terminal potentiometer.

2000 ohms—0-200 ohms.

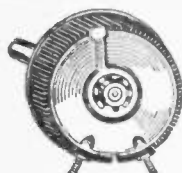
Cat. No. 2837

Our Price **\$1.35**

Acratone 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. 3810 **90c**
Our Price



Frost Rheostats

6 ohm—Cat. No. 3809

26 ohm—Cat. No. 3899

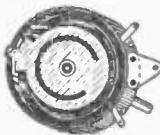
Our Price **18c**

CLAROSTAT 2000 OHM POTENTIOMETERS

New Type
Air Cooled

Used in Sonora Sets

Cat. No. 3759 **15c**
Each



Replacement Resistance Strip for Atwater Kent Volume Controls

Burnt out or defective strip replaced in a jiffy.

Cat. No. 3713



For AK 36, 37, 38, 40, 42, 44 and 52 Sets

For AK 55, 60, 66 Sets

Cat. No. 7303 **40c**
Our Price, Each.....

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. 3700 Size 20 Ohm

Our Price **25c**
Each **\$2.75**
Per dozen

Yaxley Potentiometers For Volume Control, Wire Wound, Air Cooled

| Cat. No. | Size | Price |
|----------|---------------------------|-------|
| 3755 | 40 with knob | 15c |
| 3763 | 300 V.C. | 35c |
| 3775 | 15000 with switch bracket | 25c |

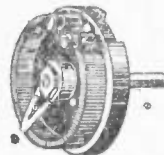


STROMBERG CARLSON RHEOSTATS

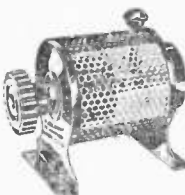
(Made by Amseco)

| Cat. No. | Size |
|----------|----------|
| 4074 | 2 Ohms |
| 4073 | 30 Ohms |
| 4074 | 250 Ohms |

Our Price **20c**
Each



Laboratory Model and Speed Control Clarostat



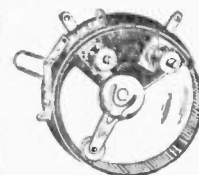
Especially adapted to control of variable speed motor in television and other precise work. May also be used as a heavy-duty variable resistor for laboratory work. Provided with heavy metal casing, protected

screw binding posts, and short-circuit button. Carrying capacity of 80 watts.

| Cat. No. | Model | Resistance Range | Carrying Capacity |
|----------|---------------|---------------------|-------------------|
| 6545 | Laboratory | 14-10 ohms | 80 watts |
| 6546 | Laboratory | 260 to 100,000 ohms | 80 watts |
| 6547 | Speed Control | 25-500 ohms | 80 watts |

Our Price **\$2.94 ea.**

Centralab Slide Contact Volume Controls and Potentiometers



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

| Cat. No. | Size | Desc. |
|----------|------------|----------------|
| 3758 | 25,000 Ohm | Potentiometer |
| 3759 | 1,000 Ohm | Volume Control |
| 3777 | 5,000 Ohm | Volume Control |
| 3779 | 35,000 Ohm | Volume Control |

Our Price **25c**
Each

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 **36c**
Our Price

Electrad 250,000 Ohm Volume Control

Wire Wound—bakelite frame.

Cat. No. 3890 **25c**
Each



Electrad 1,000,000 Ohm Volume Control

Used as Tone Control by Victor
Cat. No. 5862 **25c**
Our Price

RCA No. 106 Dynamic Speaker Rectifier Stacks

Also Used on Radiola 62 Speaker
Delivers 100 Volts 100 Mils D. C. with Load

Will supply sufficient B voltage on any Dynamic Speaker having 600 ohm field.



RCA Part No. 6898 Cat. No. 5734

Our Price **\$2.50 ea.**
\$4.50 per Pair

Federated is headquarters for all public address equipment.

ELETRAD Trivolt Fixed Resistors

(Every Fixed Unit Can Be Made Adjustable)

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 | 350 | |
| B-3 | 300 | 289 | |
| B-4 | 400 | 250 | |
| B-5 | 500 | 224 | |
| B-7.5 | 750 | 191 | |
| B-10 | 900 | 177 | |
| B-10 | 1,000 | 153 | |
| B-15 | 1,250 | 141 | |
| B-15 | 1,500 | 129 | |
| B-25 | 2,000 | 112 | |
| B-25 | 2,250 | 105 | |
| B-25 | 2,500 | 100 | |
| B-50 | 3,000 | 91 | |
| B-50 | 3,500 | 84 | |
| B-50 | 4,000 | 79 | |
| B-50 | 4,500 | 74 | |
| B-50 | 5,000 | 71 | |
| B-60 | 6,000 | 64 | |
| B-70 | 7,000 | 60 | |
| B-75 | 7,200 | 59 | |
| B-75 | 7,500 | 58 | |
| B-80 | 8,000 | 56 | |
| B-90 | 9,000 | 52 | |
| B-100 | 10,000 | 50 | |
| B-120 | 12,000 | 45 | |
| B-150 | 15,000 | 41 | |
| B-200 | 20,000 | 35 | |
| B-250 | 25,000 | 32 | |
| B-300 | 30,000 | 28 | |
| B-400 | 40,000 | 25 | |
| B-500 | 50,000 | 22.5 | |

Acratest

Carbon Resistors

ACRATEST 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 opera-

tion 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 $\frac{1}{2}$ watt all the same characteristics.



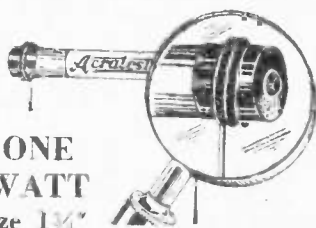
ONE-HALF WATT

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)

\$1.00 doz. Cat. No. 3860
ASSORTED



ONE WATT

Size $\frac{1}{4}$ "

| 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 | 250,000 | 200,000 |
| 350 | 3,000 | 30,000 | 250,000 |
| 400 | 3,500 | 40,000 | 350,000 |
| 500 | 4,000 | 50,000 | 400,000 |
| 600 | 4,500 | 60,000 | 500,000 |
| 650 | 5,000 | 70,000 | 600,000 |
| 700 | 6,000 | 80,000 | 750,000 |
| 750 | 7,000 | 100,000 | 1 meg. |
| 875 | 7,500 | | 1 1/2 meg. |
| 1,000 | 10,000 | | 2 meg. |
| | | | 3 meg. |

Cat. No. 3500

\$1.00 doz. Asstd.

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 |
| 300 | 3,000 | | |
| 400 | 3,500 | 10,000 | 300,000 |
| 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 | 4,000 | 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 | | |
| 1,500 | 8,000 | | |

Cat. No. 5185

\$1.75 doz. Asstd.

Carbon Resistor Kit

Contents: 25 2-Watt Carbon Pigtail Resistors

| Ohms | Ohms | Ohms | Ohms |
|-------|--------|---------|---------|
| 200 | 2,000 | 20,000 | 125,000 |
| 300 | 3,000 | 30,000 | 150,000 |
| 400 | 4,000 | 40,000 | 180,000 |
| 500 | 5,000 | 50,000 | 200,000 |
| 600 | 6,000 | 60,000 | 250,000 |
| 700 | 7,000 | 70,000 | |
| 800 | 8,000 | 80,000 | |
| 900 | 9,000 | 90,000 | |
| 1,000 | 10,000 | 100,000 | |
| 1,250 | 12,500 | | |
| 1,500 | 15,000 | | |

Cat. No. 6515

\$3.50 per kit of 25

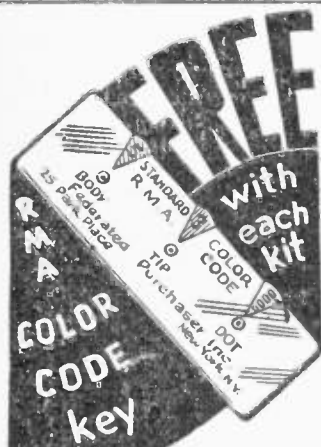
Carbon Resistor Kit

Contents: 36 $\frac{1}{2}$ -Watt Carbon Pigtail Resistors

| Ohms | Ohms | Ohms | Ohms |
|-------|--------|---------|---------|
| 200 | 2,000 | 20,000 | 125,000 |
| 300 | 3,000 | 30,000 | 150,000 |
| 400 | 4,000 | 40,000 | 180,000 |
| 500 | 5,000 | 50,000 | 200,000 |
| 600 | 6,000 | 60,000 | 250,000 |
| 700 | 7,000 | 70,000 | |
| 800 | 8,000 | 80,000 | |
| 900 | 9,000 | 90,000 | |
| 1,000 | 10,000 | 100,000 | |
| 1,250 | 12,500 | | |
| 1,500 | 15,000 | | |
| 2,000 | 20,000 | | |
| 2,500 | 25,000 | | |
| 3,000 | 30,000 | | |
| 4,000 | | | |

Cat. No. 6516

\$2.85 kit of 36

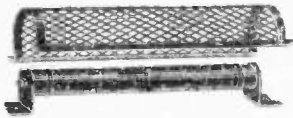


Every serviceman should have one of these handy little RMA resistor color code in his tool box. Made of celluloid. The three revolving wheels are lithographed in nine colors. No charts to consult -- no complicated calculations. Just turn the wheels to colors corresponding to resistor and the value is given instantly. To secure this valuable code key--FREE--all you have to do is to purchase any one of the RESISTOR KITS on this page or THREE DOZEN ASSORTED RESISTORS.

MAIL ORDERS TO 
See Terms on Page 3

Federated Purchaser Inc.

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

D.C. Converter Resistor66 Ohm Vitrohm Resistor and Cage
for D.C. ReceiversOverall length 1 1/2". Heat Dissipation
250 Watts

This Ward Leonard Vitrohm resistor is 66 ohms and is center tapped, for converting A.C. sets into D.C. 110 Volt sets. It has two mounting brackets on the ends and a protective wire cage goes with it. Used in D.C. sets, transmitters, etc.

Cat. No. 7288 \$2.00
Our Price**Edison Base Resistors,
Wire Wound on Lava
Tubes**

| Cat. No. | Ohms | Watts | Length |
|----------|------|-------|--------|
| 7352 | 18 | 60 | 3 1/2" |
| 7353 | 20 | 60 | 3 1/2" |
| 7354 | 60 | 100 | 7 1/2" |
| 7355 | 75 | 100 | 7 1/2" |
| 7356 | 90 | 100 | 7 1/2" |

Our Price **75c**
Each**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 3/8 in. diameter and dissipates 10 watts.

Used in Colonial 32, 33, 34

Cat. No. 5727

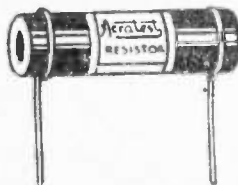
Our Price 75c ea.**Radio Socket Wrench**

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 3/4, 5/16 and 1/2 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 screw ends and the hexagon portion accurately broached to a size. The sockets are steel, well case-hardened.

Cat. No. 5070 **85c**
Our Price**Acra-test****5 Watt Wire Wound
Pigtail Resistors**

A resistor designed to meet the demand for a reasonably priced and compact high resistance unit. Recommended for use 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

Maximum Wattage, 5
Maximum Dia., 3/4"
Maximum Length, 1 1/2"
Tolerance, 2% plus or
minus rated resistance.

2. All Acra-test Resistors are wound with Double Coat Enamel Alloy Wire that has a very low temperature coefficient.

3. Every connection, between terminal and wire, on Acra-test Resistors are Hard Soldered. There can be no noise as there often is when a Mechanical Connection is used.

| Ohms | Ohms | Ohms | Ohms |
|------|-------|-------|--------|
| 50 | 600 | 2,000 | 1,000 |
| 100 | 650 | 2,500 | 7,500 |
| 150 | 700 | 3,000 | 10,000 |
| 200 | 750 | 4,000 | 12,500 |
| 250 | 1,000 | 4,500 | 15,000 |
| 300 | 1,250 | 5,000 | 15,000 |
| 350 | 1,500 | 6,000 | 20,000 |

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

30,000 Ohms 25c Ea., \$2.25 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 | .10 | .5 |
| .015 | .05 | .15 | |
| .035 | .075 | .25 | |

Our Net Price**40c Per Box of 10****Lynch Leak Proof
Mountings**

Meet the most exacting demands in design, material and construction. They are specified as Standard by leading manufacturers of precision apparatus.
Cat. No. 7436—Single Mounting **20c**
Our Price
Cat. No. 7437—Double Mounting **25c**
Our Price

**PRECISION
Wire Wound Resistors**

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

Used in Television Amplifier, Voltmeter Multiplier, 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 coefficient 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 |
| 300 | .75 | 80,000 | 1.30 |
| 1,500 | .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 | 300,000 | 1.60 |
| 10,000 | .90 | 350,000 | 1.85 |
| 12,500 | .90 | 400,000 | 1.85 |
| 15,000 | .90 | 450,000 | 1.85 |
| 20,000 | .95 | 500,000 | 1.85 |
| 22,500 | .95 | 600,000 | 2.00 |
| 25,000 | .95 | 750,000 | 2.15 |
| 30,000 | 1.05 | 1,000,000 | 2.15 |
| 35,000 | 1.05 | | 3.10 |

**Wire Wound Voltage
Dividers on Lava Tubes**

| Cat. No. | Ohms | Tapped at | Watts | Our Price |
|----------|--------|------------------------------------|-------|-----------|
| 3865 | 250 | 200 | 100 | \$0.25 |
| 5751 | 4,400 | 1,500, 1,000, 900 | 50 | .75 |
| 3922 | 4,650 | 2,500, 500, 50 and 1—1,600 ohm sec | 50 | .60 |
| 3786 | 5,125 | 4,125, 950 | 50 | .50 |
| 3903 | 5,400 | 3,000 | 100 | .20 |
| 3864 | 6,850 | 5,200, 900, 750 | 50 | .50 |
| 3787 | 7,095 | 20, 695, 6,205 | 50 | .50 |
| 4014 | 7,120 | 3,000, 3,000, 840, 220, 60 | 50 | .39 |
| 3905 | 7,835 | 3,400, 3,200, 55, 80, 40, 260 | 50 | .40 |
| 3873 | 8,000 | 4,500, 1,500, 1,250, 750 | 100 | .40 |
| 3874 | 8,350 | 7,500, 750, 100 | 50 | .39 |
| 3790 | 9,450 | 5,300, 2,200, 750 | 50 | .50 |
| 3919 | 9,800 | 3,500, 3,500, 2,800 | 50 | .50 |
| 3967 | 10,000 | 4 Sliders | 50 | .80 |
| 3788 | 12,300 | 8,000, 4,300 | 50 | .50 |
| 3785 | 12,900 | 9,000, 3,300, 600, 50 Watts | 50 | .40 |
| 3900 | 17,660 | C.T. | 50 | .25 |
| 3913 | 17,900 | 2,400, 3,000, 6,500 | 50 | .25 |
| 3906 | 18,100 | 100, 15,000, 3,900 | 75 | .40 |
| 3908 | 63 | 50 | 50 | .25 |
| 3911 | 6,120 | 5,000 | 100 | .40 |
| 3915 | 23,000 | 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 3

Federated Purchaser Inc.

World Radio History

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 | 3 in. | 50 | .25 |
| 3974 | 12 | 3 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 |
| 3923 | 400 | 2 in. | 5 | .25 |
| 3909 | 420 C. T. | 2 in. | 25 | .25 |
| 3926 | 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 |
| 3852 | 15000 | 2 in. | 10 | .25 |
| 3917 | 20000 | 4 in. | 25 | .35 |
| 3940 | 30000 | 6 in. | 75 | .35 |
| 3970 | 40000 | 6 in. | 75 | .55 |
| 3946 | 50000 | 6 in. | 75 | .55 |

General Utility Voltage Dividers

50 Watts
17,900 Ohms
Tapped at 3400,
8000, 6500,
4 1/2 in. long,
1 in. diam.
On baked lava
tube.



Cat. No. 3913 **25c**

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



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 several times the price we ask. Get a few at this low price and be prepared for the next repair job.

Cat. No. 3900 **25c 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
7155 50 C.T.
7166 1000
7167 200

15c Each

1,000 Ohm 10 Watt Wire Wound Resistors

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



Cat. No. 3924 **10c ea.**

ATTENTION — SERVICEMEN!



Every radio dealer and serviceman should have a complete stock of the above resistors in stock. Resistors in radio are like sugar in the grocery business. Ordinarily you would have to pay \$1.00 to \$3.00 PER DOZEN for these resistors, which are all guaranteed to be in perfect condition. We are making up an assortment of 100 popular sizes of resistors and offering them to you at 2c EACH, or less than 25% of REGULAR PRICES! Why, the first repair job calling for one of these resistors will pay for the entire lot! A fortunate purchase of 20,000 assorted resistors from a nationally known radio manufacturer permits us to make this remarkable offer. Every resistor meter tested for value and most of them marked. Take advantage of this offer as the opportunity may never come again.

KIT OF 100 RESISTORS CONTAINS THE FOLLOWING:

| 5 Watt Carbon Resistors | 1 Watt Carbon Pigtails | Wire-Wound Grid Suppressors | Flexible Wire-Wound Resistors |
|-------------------------|------------------------|-----------------------------|-------------------------------|
| 1000 ohms | 200 ohms | 20000 ohms | 200 ohms |
| 2000 " | 300 " | 25000 " | 400 " |
| 20000 " | 400 " | 40000 " | 600 " |
| 25000 " | 500 " | 60000 " | 1000 " |
| 25000 " | 1200 " | 70000 " | 1200 " |
| 100000 " | 1250 " | 75000 " | 1400 " |
| 250000 " | 2500 " | 80000 " | 1500 " |
| | 4000 " | 125000 " | |
| | 4700 " | 150000 " | |
| 1/2 Watt Carbon | 5000 " | 150000 " | |
| 100 ohms | 8000 " | 250000 " | |
| 1000 " | 1000 " | 400000 " | |
| 1200 " | 1500 " | 600000 " | |
| 25000 " | 10000 " | 750000 " | |
| 50000 " | 12000 " | 1 Meg | |
| | 15000 " | 2 Meg | |

Just Think! 100 of the above Assorted Resistors for only.....**\$1.95**
Cat. No. 7455 Sold in Kits of 100 only.

Note: We reserve the right to vary the assortments in accordance with stock on hand.

Ward-Leonard D. C. Voltage Regulator

50 Ohms—300 Watts

Original resistor as used in Grebe SK4 Receiver.

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

Cat. No. 4245 **\$2.00**



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

6850 Ohms, divided 750, 5200, 900 Ohms. Used in Temple Models 8-60, 3-80 and 6-90.

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.

35c



Cat. No. 3865

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

Ward Leonard Vitrohm

8359 Ohm Voltage Divider
Tapped at 5,000, 3,000 and 550 Ohms.
6 in. long



Cat. No. 3863 30c each

7850 Ohms
Tapped 750, 7900, 100—4 in. long

Cat. No. 3914 30c each
\$3.50 dozen

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 | 3956 | 65,000 | L. Gray |
| 3925 | 5,000 | | 3957 | 85,000 | Black |
| 3926 | 15,000 | | 3958 | 100,000 | Red |
| 3927 | 10,000 | Black | 3959 | 250,000 | Maroon |
| 3952 | 20,000 | D. Green | 3960 | 500,000 | Brown |
| 3953 | 22,000 | Black | 3961 | 1 1/2 Meg. | Black |
| 3954 | 25,000 | Black | 3962 | 3 Meg. | Orange |
| 3954 | 28,000 | Orange | 3975 | 100 | Black |
| 3955 | 50,000 | D. Gray | 3995 | 30,000 | Orange |

Our Price 15c ea.

\$1.50 Dozen, Assorted

Victor Voltage Divider



For all 1825 Model Receivers. Total 2,325 Ohms tapped at 200, 1,350, 260 and 775.

Cat. No. 3170

Our Price 65c ea.

Aerovox Crosley Voltage Divider

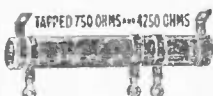
5,000 Ohms tapped at 2,000, 25 watts. 4 in. long
Wire wound on baked enamel.



Cat. No. 3965

Our Price 50c ea.

5,000 Ohm Resistance, Wire Wound on Lava



Specially Designed for Freed-Elsemann Model 78, 79 and 85 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, 3500, 6800 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 101 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 or mounting 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. | 10 | 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 | 2,000 | 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 |
| 3690 | 8,600 | 2 in. | 10 | 25c |
| 3691 | 10,000 | 3 in. | 25 | 30c |
| 3692 | 12,500 | 3 in. | 25 | 30c |
| 3693 | 15,000 | 3 in. | 25 | 30c |
| 3694 | 20,000 | 3 in. | 25 | 30c |
| 3695 | 25,000 | 4 in. | 50 | 45c |
| 3696 | 30,000 | 4 in. | 50 | 45c |
| 3697 | 40,000 | 5 in. | 75 | 55c |
| 3698 | 50,000 | 5 in. | 75 | 55c |

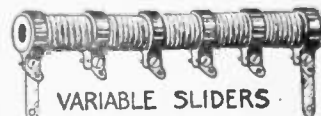
3000 Ohm Davohm Resistor

Precision Wire
Wound on
grounded Lava
Tube
Accuracy 99%



Cat. No. 5699 Price 25c

VARIABLE VOLTAGE DIVIDER



VARIABLE SLIDERS

Cat. No. 3967—10,000 Ohms, 4 Sliders, 1 1/2 in. long.

Cat. No. 3915—25,000 Ohms, 4 Sliders, 5 1/4 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 6 resistance. List \$1.50.

Especially adapted for Freshman and Earl Sets.

Our Price 80c ea.

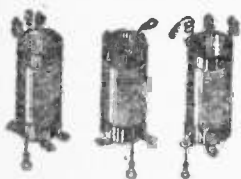
MAIL ORDERS TO
See Terms on Page 3

Federated Purchaser Inc.
World Radio History

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

Radio frequency Coils super-heterodyne

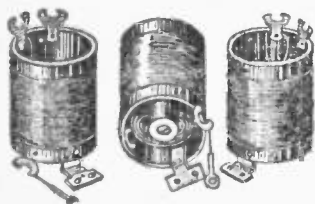
ATWATER KENT Model 55 Replacement R. F. Coils



1 3/4 in. Dia-
meter. 2 1/2 in.
high. Primary
wound on a
separate
form.

Cat. No. 3551 **\$1.50**
Per Set of 3 Coils

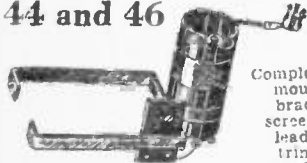
RADIOLA Super Heterodyne Coils



Used in Radiolas 64 and 67
Victor Models 9-18, 9-34 and 9-36.
Enamelled wire on bakelite form 1 1/2 in.
diameter x 3/4 in. long. R.F. chokes in-
cluded.

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

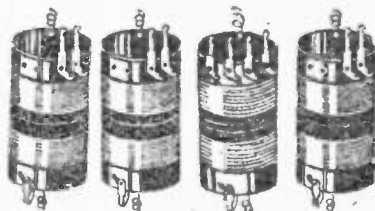
Brunswick T R F Coils in Shields



For .00035 condensers.
With mounting screws
Used in all early Bruns-
wick sets.

Cat. No. 5751
Our Price, Each, **25c**

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 con-
densers.

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 tub-
ing. Coils are equip-
ped with mounting
brackets which are
attached to the alu-
minum shields. Two
tapped holes corre-
spond with two holes
in the shield. These
high grade coils will give 100% efficiency
in any receiver.

Set of 4 Coils—1 Antenna, 3 Screen
Grid with Shields

Cat. No. 4136 **95c**
Per Set of 1

Band-Pass, Detector and Oscillator Coils



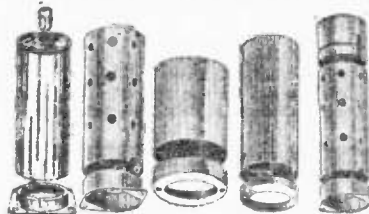
An unusu-
ally fine
superhet can
easily be
built with
this unique
coil combination.

These coils incor-
porate a 10 K.C.
band pass coil com-
bination 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 frequen-
cies and harmonics. These coils tune with
our 5361 4-gang condenser and cover the
entire broadcast band. Using these coils
for the intermediates, condensers and
other equipment listed on this page will
make up a low priced superhet of ad-
vanced design. Wiring diagram and in-
structions furnished with each set.

Cat. No. 6654 **1.75**
Per Set of 2

4 order blanks have been
included in the center of this
catalog for your convenience.
Use them.

Aluminum Shields for Tubes and Coils



4171 7270 7272 720M 7178

All one piece seamless construction,
highly polished and properly designed for
their particular purpose.

Screen Grid Shield, Cap and Base.
Cat. No. 4171 **18c**
Per Set of 3

3 Piece Shield for Type 66, 67, 68
and 58 Tubes.
Cat. No. 7173 **20c**
Per Set

2 Piece Shield for Type 82 Tubes.
Cat. No. 7508 **13c**
Per Set

2 Piece Shield for Type 35 Tubes.
Cat. No. 7270 **13c**
Per Set

2 Piece Shield for Small Coils. Dia-
meter, 2 in.; height, 2 1/4 in.
Cat. No. 7272 **10c**
Per Set

Acra-test

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 fre-
quency 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 selec-
tive 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.

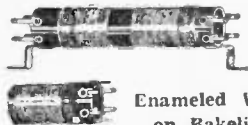
Cat. No. 3217
98c Set of 3
Consisting of 1 Ant. and 2 R.F. Coils

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 superheterodyne 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
\$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—RF, 1—Detector and Oscillator, 1—IF, 1—2nd Detector, 1—Pen-tode, 1—Rectifier.

Radio Frequency Choke



Cat. No. 6752

Our Price 25c Ea.

For Short and Long Wave Receivers

35 Mils. Fully shielded with 2 solder terminals and mounting screw. Dia. 1 1/4". Ht. 1 1/4".

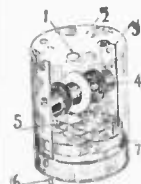
Acratest

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 to, & 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. 5385

for 175 K.C.

Cat. No. 6612

for 465 K.C.

Cat. No. 7313

for 175 K.C.

For center tapped secondary for use with 55 tube.
Complete with Diagram
Our Price, Each **95c**

BAND-PASS Or Pre-Selector Coil For .00035 MFD Condensers

Suitable for use on any receiver. This coil will add selectivity to the broadcast 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 tuning 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.

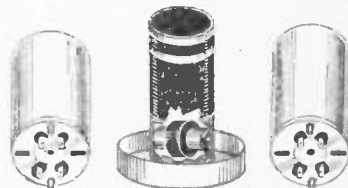
Cat. No. 6755

10c ea.; \$1.00 doz.

We carry Voltage Dividers for over 200 standard receivers. See pages 104 and 105 for complete list.

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

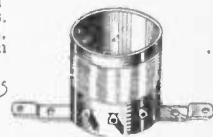
Price \$1.75 Per Set

Earl and Freed RF Coil

Used in all Earl and Freed sets. Diameter 1 3/4 in., height 2 in., with brackets.

Cat. No. 5375

45c ea.



Acratest RF Choke

85 Millihenries

With Mounting Brackets

Cat. No. 2871

17c ea.; \$1.75 doz.



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

6-tube Catacomb for RCA models 25 and 25AC; Victor models: Alhambra 11, Florenza; 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, Tuscany, 9-15, 9-25, 9-40, 9-55; Brunswick models: BR-18, Cordova 8, 2-0, BRP-4, BRP-1A.

Our Price \$5.50 ea.

Genuine Victor R.F. Coils



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



Power Amplifier Or Midget Chassis Base of Heavy Gauge Steel

15 3/4" long
9 1/4" wide
1 1/2" tall
Weight,
4 lbs.



Green Finish

16 3/4 in. long, 9 1/4 in. wide, 1 1/2 in. tall.
Weight, 4 lbs.

Cat. No. 4399

75c

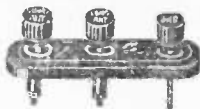
Just the thing with which to build that amplifier or midget receiver you have been planning. All holes cut out and drilled for transformer, condenser, choke, sockets, switch, etc. Made for Stromberg-Carlson power amplifiers. Has many uses.

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 |
|----------|------------|----------|------------|
| 4066 | — | 5685 | 22V. |
| 5678 | Blank | 5686 | Spkr. Plug |
| 5679 | B | 5687 | Spkr. — |
| 5680 | 67V. | 5688 | 1" |
| 5681 | 45V. | 5689 | 2" |
| 5682 | A— | 5690 | 3" |
| 5683 | Long Ant. | 5691 | Gnd. |
| 5684 | Short Ant. | 5692 | 96V. |



50c per doz. Ass't

"Push-Down" Spring Binding Posts

Nothing to turn—makes positive strong contact.

Cat. No. 5495—"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

Midget Set Escutcheon Plate

2-5/16 in. high
2 in. wide

Cat. No. 4043

15c



Eby Twin-Jacks

In a brown bakelite strip.

Cat. No. 4060
Marked "Phono"

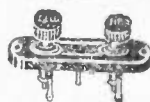
Cat. No. 4069
Marked "Speaker"



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.

4 Gang Condenser



Cat. No. 4356

Our Price 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.

3 Gang Super Variable Condenser



4 1/2" long, 4 1/2" wide, 2 1/4" tall. 3/8" shaft.

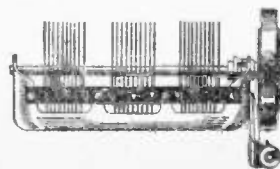
A very high grade 3 gang variable condenser made expressly for superheterodyne receivers. Will cover wave band of 200 to 600 meters when used in conjunction with any standard super coils. Equipped with trimmer condensers. Ball bearings on both ends. Made to sell for twice the price we offer them for.

Cat. No. 7337

Our Price \$1.20

Tuning Condenser Assembly

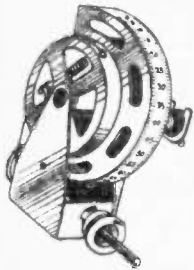
As used in Radiolas 17, 18 and 33. Complete with aluminum drum and cable. Capacity .00035. 9 1/2 in. long, 3 1/4 in. wide, 5 in. high.



Cat. No. 5796

Our Price \$1.50

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

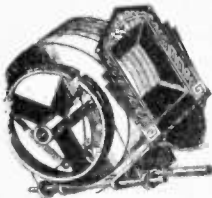
Cat. No. 4202

$\frac{3}{8}$ in. Shaft

Complete with Dial Light Socket **70c**
Our Price

ESCUTCHEON PLATE FOR THIS MODEL
Cat. No. 4042 **17c**
Our Price, Each

Illuminated Drum Dial For Short and Long Wave and Television Sets



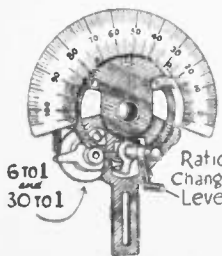
Cat. No.
6903

\$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 $\frac{3}{8}$ in. shaft. Complete with pilot light socket and plate. $2\frac{1}{2}$ in. dia., 5" high.

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 $2\frac{1}{2}$ in. wide, 3" high. Translucent celluloid dial.



COUNTER
CLOCKWISE
DIAL
(Illustrated)

Cat. No. 7171

#250

Complete
with
Escutcheon

CLOCKWISE
DIAL
Cat. No. 7327

Metal Belt Friction Drive Tuning Dial



Outside diameter of dial, $3\frac{3}{4}$ in. Shaft hole for $\frac{3}{8}$ in. or $\frac{1}{2}$ in. shaft.

Cat. No. 4041

$\frac{3}{8}$ in. Shaft

Cat. No. 4128

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

75c

Complete with Pilot Light Socket

Spring Friction Drive Tuning Unit

Outside diameter of dial $3\frac{3}{4}$ in. Shaft hole for either $\frac{3}{8}$ or $\frac{1}{2}$ in. shaft. Pyralin translucent scale of 0 to 100.

Cat. No. 4040

$\frac{3}{8}$ in. Shaft

Cat. No. 4127

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

50c

Complete with Pilot Light Socket



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.

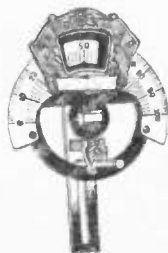


Cat. No. 6911

60c

Complete with Plate

Fan Dial and Plate



For
Midget
Receivers

Fan dial with very legible black numerals. For $\frac{3}{8}$ in. shaft. Handsome bronze escutcheon plate. $2\frac{1}{4}$ in. long, $3\frac{1}{2}$ in. diameter.

Cat. No. 6904

60c

Complete with Plate and Socket

Escutcheon Dial Plates of Latest Designs



25c
ea.

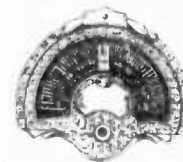


Cat. No. 4042

Cat. No. 4046

Coin Embossed Bronze Finish Modernistic Design. Especially suited for Drum Dials, similar to our Cat. No. 4201-4202 4 in. high, $2\frac{3}{4}$ in. wide.

The New 'Spot Tuning' Illuminated Dial and Escutcheon



Cat. No. 5505

67c

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.

Medium Sized Escutcheon Plate



For Either
Midget or
Larger Sets
Size: 3 in. high,
 $2\frac{1}{2}$ in. wide

Cat. No. 4044

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

90c
ea.



4 order blanks have been included in the center of this catalog for your convenience. Use them.

Genuine Walnut Wood Carved Knobs



Dia. 1 3/8"
Cat. No. 3215



Dia. 1 1/4"
Cat. No. 3380



Dia. 1 1/4"
Cat. No. 3552



Dia. 1 1/8"
Cat. No. 3561

Our Price for Any of the Above Knobs
10c ea.; \$1 doz.
Assorted



Dia. 1 1/4"
Cat. No. 3565



Dia. 1 1/8"
Cat. No. 3716



Dia. 1 5/16"
Cat. No. 3717

Complete Line of Modernistic Bakelite Knobs



Two-Tone Walnut Knob
Dia. 1 1/8 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

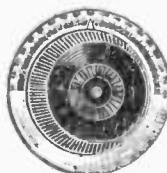
Dia. 2 3/4 in.
(for Midget
and auto sets)
Cat. No. 5143

Our Price 49c each

Walbert Univernier Dial

Calibrated 0-180.
Ratio 10-1.
Bakelite knob.
Etched plate.
Cat. No. 4117

10c ea.



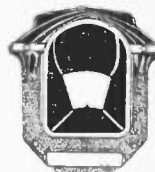
Attention Short Wave Fans and Hams! A Precision Vernier Dial Geared 10 to 1! This fine vernier dial is a product comparable to any fine instrument. The simplicity in tuning with this dial takes all of the guesswork out of short-wave reception. The accuracy and sharpness of its precision calibration makes 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

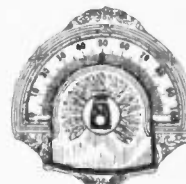
Cat. No. 5108

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

25c

Complete

Naald Bakelite Tuning Knob



1/4 in. shaft
with set screw
Black only

Cat. No. 3405

8c ea.

75c per dozen

Karz-Kasch Bakelite Knob



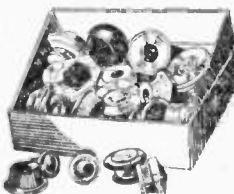
for rheostats and
volume controls.
Mahogany and Black

Cat. No. 4123

5c ea.

50c per dozen

Serviceman's Knob Assortment

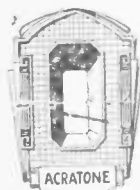


Contains
25
Wood
and
Bakelite
Knobs

How many times have you needed a knob to replace one on a set with a stripped or broken set screw and have been unable to get one? This assortment of 25 wood and bakelite knobs include styles to replace a majority of sets on the market. Will pay for itself over and over. Every serviceman should have a box in his shop for any emergency.

Cat. No. 7319
Our Price **\$1.50**

Grecian Design Drum Dial Escutcheon Plate



4 in. x 2 3/4 in.
Burnished
Bronze Finish

Cat. No. 5107

18c ea.

FEDERATED PURCHASER
is the premier radio replacement parts house in the U. S. A. 3,000 items carried in stock.

MAIL ORDERS TO See Terms on Page 3

Federated Purchaser Inc.

World Radio History

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

A complete assortment of switches for every need

Carter Triple Pole Double Throw Switch



A switch which finds many applications in short and long wave receivers. Due to its special construction it may be used as a three circuit "on" and "off" electric switch carrying up to 50 watts on each circuit without danger of arcing or overheating. Shaft 5" long by 1/4" Dia. of switch 1 1/2".

Cat. No. 7273

Our Price

For use with our No. 6009 coils.

85c

CARTER "IMP" Inductance Switches



List Price \$1.00

Cat. No. Pt.

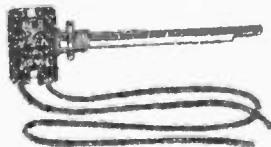
5484 3

5485 4

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 1/2 in.

CUTLER-HAMMER Rotary Snap Switches



Cat. No. 6688

Cat. No. 6666

Single Circuit with 2 1/2 in. shaft and 12 in. leads

Two-Circuit for Radio-phonographs with 1 1/2 in. shaft

45c ea.; \$4.80 doz.

H. & H. Dual Time Delay Switch

Two toggle switches mounted on one shaft and so arranged that one is thrown at a time. Used in transmitters, amplifiers (to turn filament on before turning the plate current on), on short and long wave sets, and for antenna switching.

Grosley part No. 21012 used in model St. Front switch is a single circuit, rear switch a single pole, double throw. 1 1/2 in. milled shaft.

Cat. No. 7433

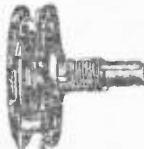
Our Price

95c

SELECTOR SWITCHES With Knobs and Plates



Single Pole



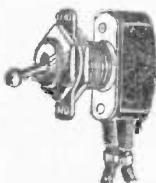
Double Pole

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 volts. 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

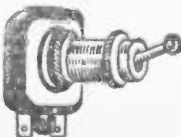
23c

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 amperes, 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.

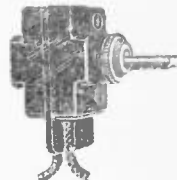
Cat. No. 5286

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.

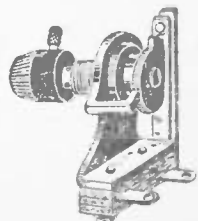
Cat. No. 4121

**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

MAIL ORDERS TO **A**
See Terms on Page 3

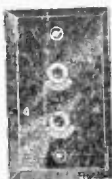
Federated Purchaser Inc.

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

WALL PLATE Radio Outlets

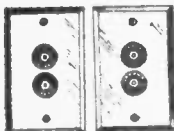


To Fit Any
Standard
Electric
Outlet Box



| Cat. No. | Type | Price |
|----------|-----------------------------------|--------|
| 5301 | Ant., Gnd. and A.C. Outlet | \$.75 |
| 5482 | Speaker Tip Jacks | .35 |
| 5500 | Antenna and Ground Bind- Posts | .50 |

Brass Radio Wall Plates



Made of .040
gauge brass with a
brushed finish, they
mount on a stand-
ard switch box and
are electrically and
mechanically perfect.

| Cat. No. | Style |
|----------|--------------------------|
| 6595 | "Antenna-Ground" |
| 4141 | "Speaker" |
| 5491 | With Single Circuit Jack |

Our Price **25c**
Each

Sub-Panel Brackets

1" x 8 1/2"
Bracket



An ideal bracket for receivers using
box or large shielding; or large audio
frequency transformers. Leaves enough
clearance underneath the sub-panel for
average by-pass or fixed condenser. Will
accommodate any sub-panel up to 3
inches in width. Aluminum construction.
Shipping weight, 4 lbs.

Cat. No. 7335 **24c**
Our Price, Per Pair

2" x 9"
Bracket



An improved sub-panel bracket with
cutout corners that will fit any type of
cabinet. Aluminum construction. Ship-
ping weight, per pair, 4 lbs.

Cat. No. 7336 **36c**
Our Price, Per Pair

Handy Extension Cord Sets

Heavy Silk Cord with
Inner Braid. Beauti-
ful Assorted Colors.

Approved
Socket

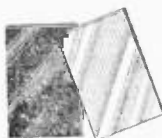
Approved Cord
G. E. Bakelite
Cap Only



| Cat. No. | Length | Each | Dozen |
|----------|--------|--------|--------|
| 3300 | 6 ft. | \$.25 | \$3.00 |
| 3324 | 9 ft. | .29 | 3.35 |
| 3325 | 12 ft. | .32 | 3.75 |
| 3316 | 15 ft. | .35 | 4.00 |
| 3301 | 20 ft. | .40 | 4.65 |

4 order blanks have been
included in the center of this
catalog for your convenience.
Use them.

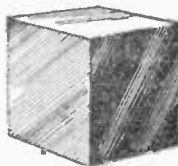
Bakelite and Aluminum Panels



Special sizes of
bakelite and alumi-
num panels can be
furnished at short
notice. Prices on
request.

| 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 shield-
ing can, 5 in. by
6 in. by 9 in. with
4 corner posts.



Aluminum Corner Posts
for making aluminum
boxes. 6 in. long with
holes drilled and tap-
ped at each end.

Cat. No. 5183 **20c**
Our Price, Each

Automatic Electric Turntable Switch

This device, when
installed on any elec-
tric turntable, will
shut the current off
when the pick-up
reaches the end of
the record and the
arm comes in con-
tact with the switch.
Used on all RCA and
Victor Radio-phono-
graph combinations.

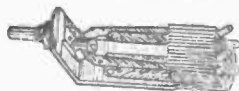


Cat. No.
4222

25c ea.

Yaxley Phonograph- Radio Switch

Used in Temple sets.
Has neutral position.
For panel mounting and knob control.



Cat. No.
4119

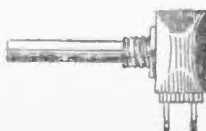
15c ea.

Rotary Snap Switch For Fada and AC Dayton Sets

1 1/2 in. Shaft

Cat. No.
5284

25c



Carter "IMP" Jack

Single circuit open.
These jacks are made
very small to fit into the
smallest possible space.
Bakelite washers are used
to prevent leakage. Indi-
vidually boxed.

Cat. No. 5491
Our Price



14c

Rotary Snap Switch

3 amp. 225 volts,
with 15 in. pigtales.

Cat. No. 4122



Our Price 14c

Stewart Warner Rotary Snap Switch with Knob

Cat. No. 4114

25c each



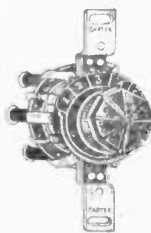
Carling Toggle Switch



For Volume Control. Switch
Combinations on all A.C.
sets. 125 V. 3 Amp.

Cat. No. 4118 **25c**
Our Price, Each

CARTER CHANNEL Selector Switch With Knob and Plate



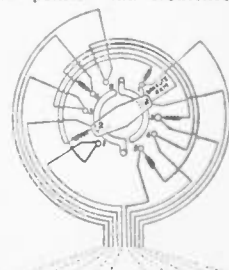
Gives instant se-
lection up to 5 chan-
nels with constant
impedance of 5000
ohms. A switch of
advanced design for
use in centralized
radio installations,
enabling the listener
to switch to any of
5 programs with con-
stant impedance
maintained through-
out the line. Con-
structed to fit into
a standard electric

outlet box. The impedance coils are se-
curely riveted to the frame and all wiring
concealed. Depth of switch 1 3/4 in. Screw
connections provided to all leads.

Equipped with attractive brown baka-
lite knob, arrow pointer and escutcheon
plate.

Cat. No.
5488

List Price
\$5.00



This diagram
illustrates the
wiring and
section of the
Selector
Switch.

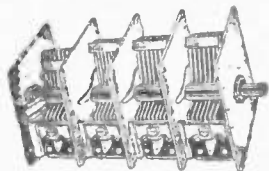
5 4 3 2 1 5 4 3 2 1

Our Price 85c

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.



FOR SUPERS FOR STRAIGHT R. F.

| Cat. No. | Gangs | Size | Cat. No. | Gangs | Price |
|----------|-------|-------------------|----------|-------|--------|
| 3292 | Two | 3 1/2 x 3 1/2 in. | 3359 | Two | \$1.75 |
| 3293 | Three | 4 1/2 x 3 1/2 in. | 3360 | Three | 2.50 |
| 3294 | Four | 5 1/2 x 3 1/2 in. | 3361 | Four | 3.25 |

Modernistic Full Vision Dial and Escutcheon



Used extensively on expensive sets and will enhance the appearance of old sets. Plate 5 1/2" long by 2" wide. Bronze finish.

Cat. No. 7175 **\$1.25**

Complete with escutcheon plate and pilot light socket.

Santa Maria Full Vision Dial and Escutcheon

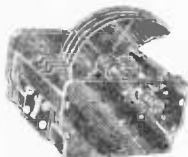
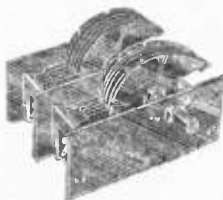


A very attractive new dial in a popular motif. Pilot light travels over the dial as knob is turned. Plate 4 1/2" dia. 2" high.

Cat. No. 7174
95c

Complete with escutcheon and pilot light socket.

ACRATEST SHORT-WAVE Tuning Condensers

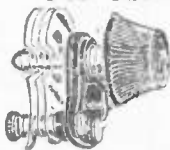


These condensers are of the half shield type insuring isolation between stages. They are all cased in heavy aluminum frames and tapered for remarkable wave spread. Easily mounted and precise in operation.

| Single | Cat. No. | Price |
|--------|----------|--------|
| .00014 | 6854 | \$.95 |
| .00025 | 6855 | .95 |
| .00035 | 6906 | .95 |
| 2 Gang | | |
| .00014 | 6708 | 1.50 |
| .00025 | 6856 | 1.50 |
| 3 Gang | | |
| .00014 | 6709 | 2.50 |

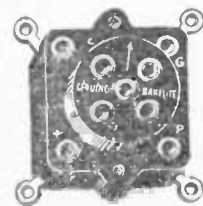
U. S. L. Midget Condensers

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 |
| 5258 | .0001 Mfd. | 65c |



Bakelite U. X. Sockets

Cat. No. 4075
Spring
Socket 20c

Reinforced Spring Wafer Sockets

Bronze Prongs
Phosphor
Non-Shorting
4 Prong

280, 281, 171A,
245, 201A

Cat. No. 4064

Our Price 5c ea.



BAKELITE Wafer Sockets

Special construction makes short circuits or flashovers impossible.

Cat. No. 4062—

4 Prong—

201A, 226, 112A,
171A, 245, 210,
250, 280, 281, 230,
232, 231, 234, 82.

Cat. No. 4063—5 Prong—227, 224, 46,
52, 58, 233, 236, 237, 238, 239, 247.

Cat. No. 6934—6 Prong—57, 58, 59.

6c ea., 60c doz.



Genuine Eby Sockets

REGULAR TYPE

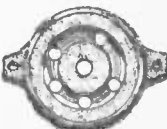
| Cat. No. | Prongs | Price |
|----------|--------|-------|
| 5873 | 5 | .16 |
| 5874 | 4 | .16 |
| 6935 | 6 | .22 |



Eby UX 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 | .14 |
| 5876 | 6 | .14 |
| 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

Cat. No. 4080
Sub Base Mount



12c ea., \$1.20 doz.

MAIL ORDERS TO 
See Terms on Page 3

Federated Purchaser Inc.

World Radio History

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

Acratone

Super Power Semi-Class B 245 Power Amplifier



**Cadmium
Plated
Chassis**

Cat. No. 107

\$18.50

Less Tubes

**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**

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

This amplifier is operated as a standard class A audio amplifier until its output reaches 1 watt, 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 the lower levels. The gain of this amplifier in decibels is 30.

Quality and Performance

The reproduction of this amplifier is excellent and is particularly room speed for recording, medium sized public address systems and sound cars. The response from this amplifier is good from 20 to 10,000 cycles.

This amplifier will fill an auditorium of theatre seating up to 2,000 people, will operate 16 auditorium dynamic speakers at maximum and can handle up to 8 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 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.

Suggested P. A. Systems Using the No. 107 Amplifier:

Intercommunicator System No. 701

This system is recommended for intercommunication in factories, large offices, etc., where there is a noise level greater than the human voice can overcome. The undistorted output of this outfit is approximately 10 watts. FOR EACH ADDITIONAL POINT OF COMMUNICATION IT IS NECESSARY TO ADD ONE TWO BUTTON MIKE, ONE DYNAMIC SPEAKER ONE S. P. D. T. KNIFE SWITCH THE SAME AS FOUND IN THE LISTING BELOW.

| Equipment | Cat. No. | Price |
|---------------------------------------|----------|----------------|
| 1 Acratone Semi-Class B Amplifier | 107 | \$18.50 |
| 1 Utah A. C. Stadium Dynamic Speaker | 166 | 8.95 |
| 1 Universal Model "X" 2 Button Mike | 524 | 5.88 |
| 1 Universal Microphone Ring & Springs | 5636 | 1.47 |
| Total Price | | \$34.80 |

Special Auditorium and Studio Sound System No. 702

This system is ideal for auditorium and studio work because of its flexibility and simplicity. It can be rolled from place to place and is instantly ready for use. The amplifier used is our dual P.P. modified class "B" amplifier completely described above.

The sound board and rack for the equipment is a beautiful ornamental column type portable stand mounted on ball bearing rubber casters. Those of our readers who are familiar with the special R. C. A. installation Sound board will readily recognize this stand by the description. The regular price of the sound board is \$275.00. It is specially drilled to hold three dynamic speakers so placed that each speaker covers a different part of the auditorium. The speakers are completely hidden from view. 50 feet of shielded heavy rubber covered cable is provided.

| Equipment | Cat. No. | Price |
|--|----------|----------------|
| 1 Acratone Semi-Class B Amplifier | 107 | \$18.50 |
| 2 RCA Phonograph A.C. Dynamic Speakers | 152 | 30.00 |
| 1 Acratone Auto Converter | 274 | 24.50 |
| 1 Universal Model "BB" Mike | 209 | 14.70 |
| 1 Universal Microphone Ring & Springs | 3621 | 2.35 |
| Total Price | | \$90.05 |

Small Truck Sound System No. 703

Small sound systems are in big demand. Every serviceman or dealer without taking up any room in his truck, or service car, can have this outfit installed. Thereby allowing the use of the car for regular work when he is not selling sound.

This sound system utilizes our new "Modified Class B Amp." This amp. is a dual push pull using 2 57 tubes into 2 245 tubes. It has an undistorted output of 10.4 watts, and has a remarkable fidelity curve from 30 to 9000 cycles. The "highs" which are generally lacking in amplifiers capable of reaching "lows" as low as 30 cycles are evident in their correct percentages.

The entire outfit connects to your car battery. No additional batteries are necessary and recharging will put back what you take out.

| Equipment | Cat. No. | Price |
|------------------------------------|----------|-----------------|
| 1 R.C.A. Auditorium Sound Board | 410 | \$30.00 |
| 1 Acratone Semi-Class B Amplifier | 107 | 18.50 |
| 1 Two-Speed Electric Turntable | 253 | 9.75 |
| 1 Acratone Low Impedance Pick-up | 6898 | 4.75 |
| 1 "BB" Mike | 209 | 14.70 |
| 1 Floor Stand | 333 | 8.50 |
| 1 S.P.D.T. Switch | 1479 | .28 |
| 2 R.C.A. 100 D.C. Dynamic Speakers | 114 | 14.85 |
| 1 Field Exciter for above Speakers | 85 | 5.50 |
| Total Price | | \$106.83 |

When in New York, be sure to visit our newly completed and fully equipped Sound Studios, at 25 Park Place. Experienced sound engineers in charge will assist you in your selection of sound equipment.

30 WATTS
output



POWER

Acratone

Class "A" Prime

Triple push-pull

De Luxe

AMPLIFIER

WHAT IS CLASS "A" PRIME

This amplifier "packs a real wallop." Has an output of 30 watts from a phonograph pickup or microphone. Accomplished by 3 push-pull stages using high gain tubes and Class "A" output stage. The first stage uses two type 57 high gain pentodes in push-pull, bridge-coupled to a pair of type 56 general purpose tubes in push-pull coupled to a special Class "A" Prime Transformer to a pair of 250 in push-pull. Class "A" Prime is a modification of Class "B" audio.

To explain its reaction, let us illustrate by some of your own experiences. Do you remember switching on a battery set that had either abnormal "C" bias or none at all? Recall the sudden burst of volume which just as suddenly lapsed into distortion? Well, that is the basis of Class "A" Prime; but in Class "A" Prime the circuit is so arranged that peak volume is maintained with no distortion.

Specially designed parts prevent any semblance of distortion with resultant marvelous quality.

Quality, Power And Performance

This amplifier is particularly adapted for airplane advertising, sound trucks, stadiums, broadcast transmitters and for multi-speaker installations in hotels, wired radio systems, hospitals and convention halls. Up to 25 dynamic speakers may be hooked up to this circuit. It has a coverage of up to 10,000 persons and a space coverage of over three square city blocks. The tonal reproduction of this amplifier is as fine as can be obtained from any, regardless of cost. A true straight line curve from 30 to 10,000 cycles

proves this claim. The use of high quality audio transformers and bridge coupling assures consistently perfect reproduction.

Attenuation Control

The Attenuator Control of this amplifier is no ordinary volume control but a specially constructed dual potentiometer giving excellent reproduction over the entire output range. This control has absolutely no audio frequency discrimination and the original quality is maintained at high or low volume levels. A graduated plate aids in locating proper volume levels for various installations.

UNIVERSAL INPUT AND OUTPUT CONNECTIONS

The input transformer of this amplifier eliminates the necessity for additional microphone, input stages. It is wound for use directly with a single or double button microphone 500 ohm speech line or condenser microphone amplifier. This transformer also enables the use of a low or high impedance pickup.

The output transformer is wound as follows:

9 ohms for Wright-DeCoster and similar speakers.

15 ohms for RCA Photophone Dynamics, recorders and Dynamic units.

500 ohms for speech lines, multiple speakers and mixer lines.

4000 ohms for magnetic speakers and dynamics already containing output transformers.

MONITOR SPEAKER OUTPUT

Two special output posts are brought out for use in multi-speaker installations or where speakers are distantly located for monitoring or listening-in with phones or magnetic speaker. This output is at a low level for comfort. This in no way affects the volume or quality of the amplifier.

Power Output

30 WATTS

Power Consumption

200 WATTS

Power Supply

110-125 V., 60 CY.

Size: 16 in. long, 11 in. wide,
8 in. high

Cat. No. 125 \$37.50

Our Price . . . \$37

Less Tubes

Employs 2-57, 2-56, 2-250
and 2-281 Tubes

Set of
Universal Tubes . . . \$3.00

Set of
Acratone Tubes . . . \$14.75

Features:

Triple Push Pull
Class "A" Prime Audio
Monitor Speaker Output
Attenuator Control
Gain 90 DB.

Built-In Microphone Pre-amplifier

Input from Mike or Phone
—With Built in Transformer

Output to Voice Coils, 500
Ohm Line or High Impedance

ATLANTA, GA.
631 SPRING ST., N. W.

ATLANTA, GA.
631 SPRING ST., N. W.

DO NOT WRITE IN THIS SPACE

Cable Address: FEDERPURCH

Date _____

Ship to _____
(Write or Print Name Clearly)

Street and No.

City _____ State _____

Shipping Point (If different from above address) _____

SHIP BY: Express ☐ Parcel Post ☐ Freight ☐
(What Railroad)

Please indicate by an X how you want goods shipped.
If postage is not included we will ship charges collect.

[illegible]

Balance C. O. D.

World Radio History

**Lowest Prices in
Radio History—
Buy now and hasten
the return of
National Prosperity!**

ASTOUNDING



Exquisite Six Legged Console

Especially Suited for the

Acratone MODEL 35 CHASSIS

A beautiful example of modern radio furniture, of simple design, delicate lines and expert workmanship. Instrument panel of 5 ply center matched rotary cut walnut. Top center of rail elm burl. Balance of cabinet of 3 ply gum for strength.

Set compartment: 11 in. high, 21 1/2 in. wide, 10 1/2 in. deep.

Outside dimensions: 40 in. high, 23 in. wide, 11 1/2 in. deep.

Packed in shipping cartons. Completely assembled.

Cat. No. 749

\$9.50

Our Price

F.O.B. Indianapolis, Ind., or New York City

Frost 10,000 Ohm Potentiometer

Graphite Element. Only 7/16 in. thick, 1 1/2 in. flat shaft with 3/8 in. thread and locknut. Will fit all 1/2 in. knobs.



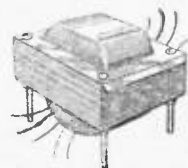
A great majority of the receivers on the market today use a 10,000 ohm potentiometer as a volume control. This potentiometer will fit 95% of these sets because of its compactness and length of shaft. Absolutely noiseless. Positive wiping action. Perfectly insulated for 500 volts. Every serviceman should have a supply of these controls on hand for any emergency. Made to sell for 50c, we are offering them for half the price due to a special purchase.

WHILE THEY LAST

Cat. No. 5634
Our Price

29c

4 or 5 Tube Midget Replacer



Size: 3x2 1/2 x 3" high.
Weight, 2 lbs.

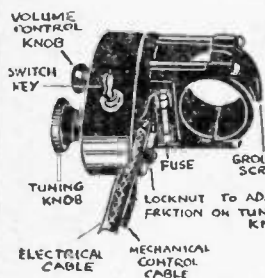
2 amps.; 300 v. each side of C. T.; 289 v. rectified at 60 mls.

This compact, yet ruggedly built power transformer can be used as a replacer.

For sets using up to 3-224, 235, 551, 227, 66, or 57 tubes (or a combination of same), 1-245 or 247 and 1-280 tubes

Supplies the following voltages: 2 1/2 v. at 8 3/4 amps.; 5 v. at 289

The New Federal Steering Column Control



Standard equipment has 3-ft. electrical conductor cable terminating in a polarity connecting plug and 10 feet of control cable

Cat. No. 7435—List Price \$10
Our Price

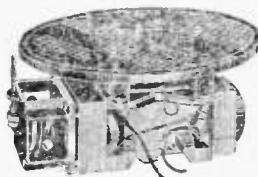
\$4.95

The Federal Remote Control consists of a control unit, condenser driving unit, flexible drive cable, multiple-wire cable, and electrical connecting plug. It provides positive, simple, manual control of the receiver through a one-eighth inch flexible cable which is thoroughly weather-proof. The operating cable, firmly anchored to both units, and easily adjustable to any length, drives the tuning condenser of the radio receiver by means of a pulley attached to the condenser shaft, and enclosed in the snug-fitting housing of the condenser driving unit. One complete turn of the hand-grip tuning control covers the entire tuning range of the radio receiver. The unit is specially constructed to give precise, accurate tuning.

The control unit is beautifully finished to harmonize with the rest of the equipment in any well-appointed automobile.

All control units are equipped with a lock-switch and key, together with a spare key.

Brown Flier Twin Recording Motor



May also be used for playback where constant speed is absolutely required.

This motor is the ultimate for recording purposes. It

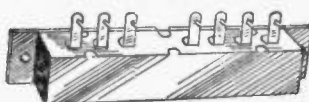
has the ability to turn at a constant speed even with a recording lead of 6 lbs. This motor is driven by two motors, one situated at each end of the casing. A special clutch control governor enables the maintenance of constant speed at 7 1/2 r.p.m. Furnished with 12 in. turntable and special mounting cushions to avert vibrations which is ruinous to good recording. For 110 V., 50-60 cycle operation only.

Cat. No. 274

\$17.50

Our Price

Multiple 1/10 Mfd. By-Pass Condensers



Compact, metal encased by-pass condensers suitable for General Motors and other receivers. Overall dimensions 5 x 1 1/2 x 3/4 in.

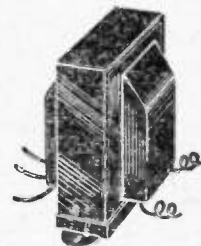
Cat. No. 7452—4 x 1/10 Mfd.

Cat. No. 7453—5 x 1/10 Mfd.

Our Price

25c

PACENT PUSH TRANS



Shielded Input
Cat. No. 7430 \$1.15

Shielded Input Push-Pull Transformer

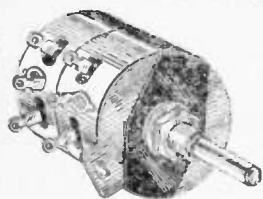
So well hermetically sealed within an attractive black japanned steel case that life-long, uninterrupted service is assured! Ideal for universal mounting applications. Equipped with well insulated flexible leads. 3 1/4 in. tall, 2 1/2 in. long, 2 3/4 in. wide.

Generously proportioned for use in sets of premium. The benefit, in that it is a silent reproducing greater current in. tall, 2 1/2 in. long, 2 3/4 in. wide. lug terminals.

NG VALUES!

Items featured in this supplement were received too late to be included in the pages of the Catalog

Genuine Brand New Frost Victor Twin Potentiometer



Made by Frost For Models

RE32
RE35
RE52
RE75

2800-3900 Ohms—Clockwise

Here is the genuine Victor Volume Control manufactured by Frost—not to be confused with surplus controls—and incorporating several improvements over the old type. Mounting panel on front of unit makes for ease of installation. Metal strap holds the two units rigidly. Completely shielded and enclosed against dust and moisture. Shaft $\frac{1}{8}$ in. threaded and 1-3/16 in. long.

Cat. No. 7450

Our Price **\$95c**

ment Power Transformer

ment in almost every midsize receiver on the market using up to five tubes. It is universal in adaptability, having a long 8/32 mounting screws for horizontal mounting. It has a shielded top. The wire leads are adequately long and are instantaneously identified.

Every service man should have several of these fine transformers on hand for any emergency and the first job will more than pay for half a dozen transformers. Buy them now at this extreme low price as you may not have another opportunity like it again.

Cat. No. 5502

Our Price **\$95c**

Cat. No. 7374—For 220 V. A.C. **\$1.50**

PULL AUDIO FORMERS

ortioned; not designed there space is at a eased size is a marked u are assured excel- qualities, due to the rrying capacity. 2 3/4 in. wide. Uni- Equipped with solder

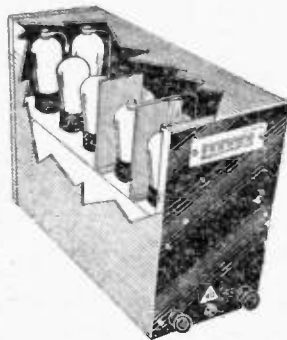


Output
Cat. No. 7431 **\$1.15**

Output Push-Pull Transformer

Equipped with 15 ohm impedance secondary—which matches voice coil impedance of R.C.A. Photophone Dynamic Speakers, Racoon Units, etc., etc. Also excellent for use with two Jensen Dynamic Speaker Voice Coils in series!

Similar in all mechanical respects to Cat. No. 7430 INPUT transformer. For 1 or 2—245, 256, 295, 171 Tubes.



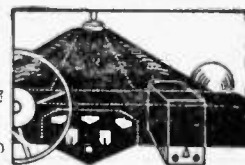
STERLING Automobile Radio

The set of simple installations, 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!

1933 Model



For Outfit consisting of a 6-Tube Chassis housed in a heavy steel case, Magnavox dynamic speaker shielded cable, shielded battery, steering column clamp and mounting brackets.

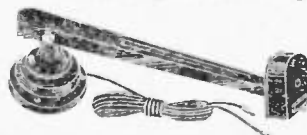
Our Net Price **\$19.85**

Set of Universal Tubes

Can be installed under dash or on steering post

\$4.35

Acratest De Luxe Phonograph Pickup



This pickup is especially recommended where particular stress must be placed on beauty of tone. This pickup far exceeds the performance of normal public address equipment and is for those radio engineers who desire the finest electrical reproduction. The pickup is skillfully counterbalanced so that it may be used for 78 or 33-1/3 r.p.m. No volume control supplied due to the fact that generally volume controls decrease the sensitivity and cut down the frequency response of an otherwise excellent pickup. Maximum output .65 volts, which exceeds by more than 1 volt the output of its nearest competitor.

Overall length 10 in. 7/8 in. from center pin to needle point.

| Cat. No. | Impedance | Our Price |
|----------|-----------|-----------------------|
| 6976 | 200 Ohms | \$5.95 Each |
| 6977 | 500 Ohms | |
| 6978 | 5000 Ohms | |

Polymet 1/4 Mfd. By-Pass Condenser



With mounting lugs and pigtaills.

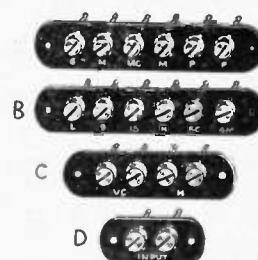
Zenith part No. 22-43.

Size 1 1/4 x 1 1/2 x 1/2 in.

Cat. No. 2806

15c
Each

Terminal Strips for Mixing Panels and Amplifiers



Bacelite 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
Our Price **\$50c**

Strip B—6 post output strip for voice coil, 500 ohm line and 400 ohms. Marked L, 9, 15, H, 5C, 4M.

Cat. No. 7149
Our Price **\$50c**

Strip C—4 post output strip for voice coil and high impedance. Marked VC, H1.

Cat. No. 7150
Our Price **\$35c**

Strip D—2 post input strip marked Input. Cat. No. 7151
Our Price **\$25c**

Strip E—(Not illustrated)—2 post output strip (same size as strip D) marked output.

Cat. No. 7152
Our Price **\$25c**

3 Terminal Strip marked "M—Mc—M" for mike input.

Cat. No. 7448
Our Price **\$30c**

4 Terminal Strip marked "F1 and F2" for 2 dynamic speaker fields.

Cat. No. 7449
Our Price **\$35c**

ATLANTA, GA.
631 SPRING ST., N. W.

World Radio History

TEAR OFF ALONG THIS LINE

ATLANTA, GA.
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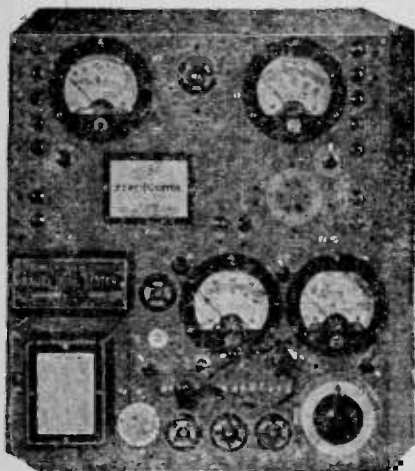
DO NOT WRITE IN THIS SPACE

Laboratory Accuracy With the

HICKOK

STATIKTESTER

INDIVIDUAL MEASUREMENT



THE FIRST— ALL NEW— SET TESTER DEVELOPMENT IN YEARS

Size 12 1/16 x 13 1/4 x 3 in.

The only service device which measures every unit in a radio receiver.

The only Tester which locates every defective receiver unit when the receiver is entirely inoperative.

What It Measures

All Values of D. C. Volts on Quadruple Range Voltmeter from 0 to 1000 Volts—High Sensitivity Voltmeter, 1000 Ohms per Volt. Ranges 0 to 20, 0 to 200, 0 to 500, 0 to 1000 Volts.

All Values of A. C. Volts on Quadruple Range A. C. Voltmeter 0 to 800 Volts. Ranges 0 to 8, 0 to 40, 0 to 160, 0 to 800 Volts.

All Values of D. C. Milliamperes on Double Range Milliammeter from 0 to 200 Milliamperes. Ranges 0 to 40, 0 to 200 Milliamperes.

All Values of A. C. Milliamperes on Double Range Milliammeter from 0 to 200 Milliamperes. Ranges 0 to 40, 0 to 200 Milliamperes.

All Values of Resistance on Triple Range Ohmmeter from 1/2 Ohm to 20 Megohms. Ranges 1/4 to 1000, 200 to 200,000 Ohms, and 2000 Ohms to 20 Megohms.

All Values of Capacity on Double

Range Capacity Meter from .05 to 15 Micro Farads. Ranges .05 to 1 M.F., 1/4 to 15 M.F. Capacities from .0005 to .05 measured on Megohmmeter.

TESTS ELECTROLYTIC CONDENSER LEAKAGE AND CAPACITY UNDER OPERATIVE CONDITIONS. OUTPUT OF RECEIVERS MEASURED ON MILLIAMMETER.

All Values of Inductance on Double Range Inductance Meter from 1/2 to 50 Henries.

Tests Radio Tubes by the most accurately known method by applying standard values of D. C. Voltage to Plate and Grid, reading standard values of plate current, mutual conductance and gas content.

All measurements without use of Auxiliary Apparatus. Instructions include Loose Leaf Book in Leatherette Binder covering—Point-to-Point Resistance Measurements on Receivers.

\$150.00

Cat. No. 412—List Price \$250.00

Our Net Price

Cat. No. 413—List Price Carrying Case \$15.00

Dealers' Net Price Carrying Case

Tests All New Type Tubes and Receivers

\$9.00

P.A. Systems Employing the Model 120 Amplifier Store and Specialty Salesman's P.A. System

There is a big market for radio men that is being overlooked. All over the country you will find window space devoted to special sales where a man or woman holds up cards for the public to see what he wants to say. Why not say it through an amplifier. Of course! Price is of paramount importance in this case. This system will fill the bill under all conditions. With an outfit of 4 watts a crowd of from 500 to 700 people will be able to hear perfectly.

- 1—3-stage 245 P.P. Amplifier (Cat. No. 120).....**\$12.50**
- 1—Set of Universal Tubes.....**2.25**
- 1—Victor Handmike (Cat. No. 523).....**1.95**
- 1—RCA Speaker (Cat. No. 103).....**3.43**
- 1—Mike Battery (Cat. No. 6656).....**.20**

\$20.33

Club Room and Lodge Meeting P.A. System

The Boys' Clubs, Athletic Clubs, and various Lodges in your town need an amplifier when the discussion becomes heated and the speaker cannot be heard. Also they are always running private shows and open meetings where entertainment is necessary. This amplifier system is ideal for such purposes.

- 1—3-stage 345 P.P. Amplifier (Cat. No. 120).....**\$12.50**
- 1—Set of Universal Tubes.....**2.25**
- 1—Mayo Model F Mike (Cat. No. 385).....**8.75**
- 1—Mike Ring (Cat. No. 3636).....**1.47**
- 1—Rotrola Electric Motor, Turntable and Pick-up (Cat. No. 151).....**9.50**
- 1—Utah 12 in. Stadium Dynamic (Cat. No. 166).....**8.95**
- 1—Mike Battery (Cat. No. 6656).....**.20**
- 1—SPDT Switch (Cat. No. 4104).....**.24**

\$43.86

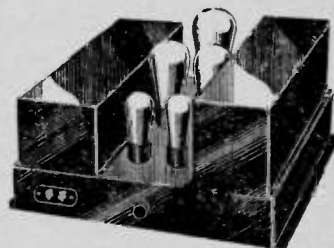
FREE

This handy 5-in-1 set of neutralizing and compensating tools sent **FREE** with any Analyzer or Tube Checker in this catalog.

with each Analyzer

Three Stage Push-Pull 245 Amplifier

Using 2-56's, 2-45's and 1-280 Tubes



Output: 4 Watts.

Size: 14 in. long, 10 in. wide, 8 in. tall.
Shipping weight: 35 lbs.

- Cat. No. 120.....**\$12.75**
- Our Price—Less Tubes.....
- Set of Universal Tubes.....**\$2.25**
- Set of Arcatrus Tubes.....**2.75**

This amplifier has three stages, two of which are voltage gain stages and consist of two of the new 53 type tubes. Output stage is two 45's in push-pull and the rectifier is a 280.

An exclusive method of providing for the use of high and low impedance input and high and low impedance output is incorporated in this unit. The input is suitable for use with single button microphone or low impedance phonograph pick-up. The high impedance input is suitable for use with the plate of a radio tube so that a Radio Tuner can be converted, or with high impedance pick-ups.

Serviceman's Truck System

(Portable Advertising Systems)

You can use your service car to make money while making your service rounds. Sell advertising time on your car with this system installed. Not more than 12 in. of your truck is consumed by it.

- 1—3-stage 245 P.P. Amplifier (Cat. No. 120).....**\$12.50**
- 1—Set of Universal Tubes.....**2.25**
- 1—G.E. Induction Motor (Cat. No. 135).....**7.95**
- 1—Acetone Pick-up (Low Impedance) (Cat. No. 6898).....**4.75**
- 1—Victor Handmike (Cat. No. 523).....**1.95**
- 1—Mike Battery (Cat. No. 6656).....**.20**
- 1—SPDT Switch (Cat. No. 4104).....**.24**
- 2—Phonophone Dynamic (Cat. No. 161).....**15.00**
- 1—Field Exciter (Cat. No. 85).....**5.50**

\$50.34

- 1—32 V. 150 Watt Motor Generator, less filter.....**33.75**

\$84.09

Circuit of No. 101

This amplifier consists of three stages. The first stage uses a 250 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 250 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, radio and microphone coupling. The output transformer is tapped at the following impedances: 9, 15, 500, and 1000 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 Phonophone Speakers. The 500 ohm winding is for speakers and mixer lines while the 1000 ohm secondary is recommended for magnetic mount for speakers and dynamics that already contain output transformers.

Quality

A true straight line curve from 50 to 10,000 cycles has been 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 core. 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 1,500 people. It is capable of filling to maximum 4 auditorium type speakers but will handle 8 to 8 such speakers with ample power. Special output is provided for use with exponential horns, equipped with dynamic units.

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

Greater his 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 watts. The gain of this amplifier measured by the same standards was found to be 87 D B.

Acratone

3-Stage "250"

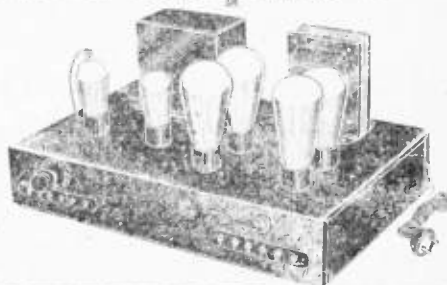
Power Amplifier

Cat. No.

101

\$24.50

Less Tubes



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 Arcurus Tubes \$13.00

This Acratone Amplifier has been on continuous 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 12 degrees Centigrade from normal room temperature.

P. A. Systems in Which the Acratone Three Stage "250" Amplifier Is Used:

Large Truck Sound System No. 704

A great many servicemen and dealers are taking advantage of today's market by equipping their trucks with sound systems instead of letting them lie idle. These trucks are rented for advertising purposes and they are quickly repaying the dealers for their efforts. The sound system recommended here is the most suitable one for constant sound work on all regular rentals.

The amplifier used in this outfit is our already famous 101 amplifier. This amplifier is a three stage 250 P.P. amplifier with an undistorted output of 8.5 D.B. on mike and 7.5 D.B. on phone. It will easily handle four RCA Phonophone speakers rated at 15 watts each.

The generator used in this outfit is a Japette "the standard of comparison" in motor generators.

The turntable is a special sturdy 2 speed motor job enabling the use of either 33 r.p.m. or 78 r.p.m. records:

| Equipment Used | Cat. No. | Our Price |
|---|----------|-----------------|
| 1-3 stage 250 P.P. Acratone Amp. | 101 | \$24.50 |
| 1-2 speed motor and turntable | 253 | 9.75 |
| 1 Acratone Super Pick-up | 5979 | 4.75 |
| 1 Universal 2 Button P.B. Mike | 209 | 14.70 |
| 1 Universal Mike Ring | 3624 | 2.35 |
| 1 D.P.D.T. Knife Switch | 4179 | .28 |
| 1 RCA 110 V. Phonophone Speakers | 151 | 30.00 |
| 1 Field Exciter for Speaker | 85 | 5.50 |
| 1 Janette Rotary Converter, 22 V. T.D. 110 V. A.C. | 256 | 53.00 |
| Total Price | | \$144.53 |

Sound System No. 705

For Auditoriums, Theatres and Outdoors

Where sound system of low price is required to cover a large area this system will work satisfactorily.

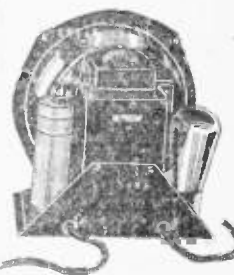
System No. 3 is ideal for operation at small dance halls, funeral parlors and portable public address work for installation on trucks. It will give about 75 watts undistorted output and cover an average city block in length. It has sufficient power to operate two or three dynamic speakers with very slight 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.

| Equipment Used | Cat. No. | Our Price |
|---------------------------------------|----------|----------------|
| 1 Acratone 3 stage 250 P.P. Amp. | 101 | \$24.50 |
| 1 Universal 2 Button "B" Mike | 209 | 14.70 |
| 1 Universal Mike Ring | 3624 | 2.35 |
| 1 RCA Phonophone Dynamic | 151 | 7.50 |
| 1 Field Exciter for Speaker | 85 | 5.50 |
| 1 G.E. Turntable | 215 | 3.95 |
| 1 Acratone Pick-up | 5979 | 4.75 |
| 1 D.P.D.T. Knife Switch | 4179 | .28 |
| Total Price | | \$63.53 |

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 dam backing ring which balances out the induced A.C. current in the voice coil is built into every unit.

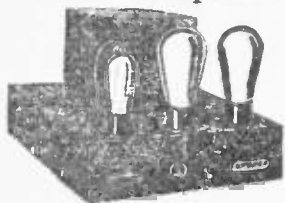


A.C. Electro Dynamic Speaker for 110 V. 50-60 Cycles A.C. Operation.

Uses 280 rectifier tube, heavy duty power transformer and filter system containing 26 Mfd. electrolytic condenser. 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 \$9.50

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

\$14.95

The Loftin-White '250'

(Licensed)

For Theatres, Public Address and Microphone Amplification

Employs 1-50, 1-24, 1-24, 1-24 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.

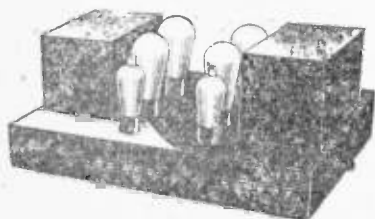
The output of the '250' is from 6 to 8 watts, undistorted.

'250' AMPLIFIER—Wired and Tested (less tubes)

Cat. No. 78

\$19.95

250 Push-Pull De Luxe Amplifier



The output is rated at 15 watts and has a tapped output of 9, 15, 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 2-224'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 50 to 2000 cycles.

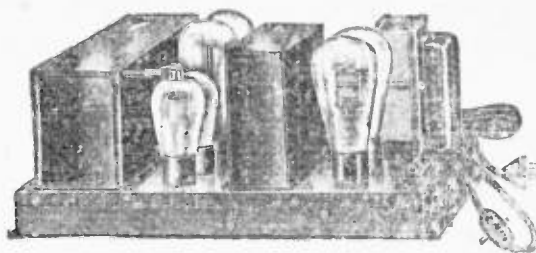
Mounted in a strong steel crystal (black) finished chassis this unit is the last word in amplifiers from every angle. A tapped output with engraved symbols makes for ease of operation. The input is also tapped for microphonic radio and phonograph inputs. The gain control is built in. Size—18" x 10" x 8 1/2".

Suitable for Phono, Mike and Radio Input

Cat. No. 79

Less Tubes

\$42.50



Type PA-1

3 Stage

250

Amplifier

In presenting the PA-1 amplifier a precedent has been established. Never before has an amplifier of such outstanding merit been produced, or offered, in the low-priced field. Combining all the worthy features found in more costly amplifiers with many novel improvements, the PA-1 amplifier represents a triumph in engineering skill and manufacturing ingenuity.

It is a three stage amplifier embodying the new 58 and 56 tubes, and push pull 250's. The high gain of the new tubes, nearly fourteen watts of undistorted output from the 250's, low hum level, and an unusually fine frequency response result in an amplifier ideally suitable for installation in theatres, auditoriums, dance halls, stadiums, and other public places where music or speech must be amplified to fill large spaces, and good quality is paramount.

Among the noteworthy features is the extremely flat frequency response, as evidenced by the frequency response curve published elsewhere on this sheet. This is flat through the entire upper register, resulting in a crispness and brilliance of tone usually deficient in amplifiers. Other salient features are line voltage adjustment, protective fuse, logarithmic tapered volume control, master feed-through switch, Belden line cord with unbreakable rubber plug. Field current is available for a large dynamic speaker field, or an A.C. speaker may be connected without the use of external choke or resistor as required by most amplifiers supplying field current.

The amplifier is constructed on a heavy steel base, all parts being electrically and mechanically shielded. The finish throughout, is a smooth black lacquer. All materials are carefully selected and tested, a wide safety margin being provided. The complete unit is an unparalleled example of fine craftsmanship, carried out on a modern production scale.

SPECIFICATIONS

Tubes—1st stage 1-58, 2nd stage 1-56, 3rd stage 2-250 push pull, rectifier 2-281 full wave.

Input—To any high impedance pickup. Coupling transformer should be used for microphone input or low impedance pickup.

Output—Low impedance output direct to standard 10 or 15 ohm voice coil. High impedance output to couple to 1000 ohm input transformer.

Maximum Undistorted Power Output—12.5 watts.

Input Signal to Obtain Max. U. P. O.—0.6 volts.

Gain at 1000 Cycles—45 db.

Frequency Characteristics—Substantially flat from 15 to 15,000 cycles.

Hum Level—1.2 per cent or 45 db below maximum undistorted output.

Speakers—Will supply up to 5 large dynamic speakers, or 25 magnetic speakers.

Field Supply—Will furnish current to a large dynamic field of 250 ohms.

Power Consumption—150 watts.

Size—overall—17 1/2" in. long, 11 1/2" in. wide, 7 1/2" in. high.

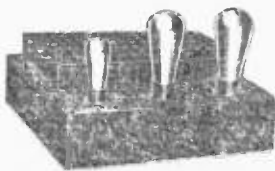
Weight—32 lbs. (estimated).

Cat. No. 122

OUR PRICE, Less Tubes

\$19.75

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 ampere. In addition, is no more costly than any A.C. unit of the same power. Size—11 1/2" x 4 1/2" x 5".

Suitable for Phono, Mike and Radio Input

Cat. No. 267

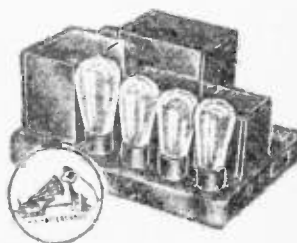
\$17.50

4 order blanks have been included in the center of this catalog for your convenience.

Use them.

Victor 2-Stage 245 Amplifier

For Victor Receivers
RE-75, 32, 42 and 45

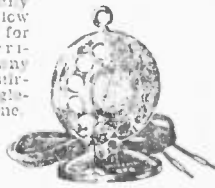


Uses one 226, two 245's (push-pull) and one 250. Push-pull output transformer in amplifier matched for 15 ohm voice coil and 2500 ohm field resistance. Supplies dynamic speaker field of 110-volt D.C. at 50 mls. Undistorted output at 4 watts. Fine for use with phonograph pickup or radio set. Operates on 110-120 volts 50-60 cycle A.C. current.

Cat. No. 62 **\$7.65**

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 $3\frac{1}{2}$ in. high and is finished in beautiful polished chrome. 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.



Furnished with 3-ft. phone tin cord.
Packed wt., 1 lb. 1 oz

Cat. No. 212
List Price \$5.00
\$2.94

Universal Baby Mike



UNIVERSAL
"BABY MIKE"

Cat. No. 206
List Price \$7.50
\$3.95

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.

Baby Mike is a genuine single-button carbon microphone of 200 ohms resistance. It is mounted in a die-cast mounting $3\frac{1}{2}$ inches high—a replica of the regular Broadcast models. It may be connected to amplifiers or direct to almost any radio set in the market.

Baby Mike is a beautiful miniature microphone finished in attractive polished chrome.

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., $2\frac{1}{4}$ lbs.
Packed wt., $3\frac{1}{2}$ lbs.

Cat. No. 211
List Price \$75.00
\$44.10

Model "LL" is $3\frac{1}{2}$ inches in diameter by $1\frac{3}{4}$ inches thick and is standard 200 ohms per button. Polished chrome finish.

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 previously considered possible. 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



Cat. No. 208
Net weight 1 lb
Packed weight $1\frac{1}{2}$ lbs.
List Price \$15.00
\$8.82

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 $1\frac{1}{4}$ in. thick. It is beautifully plated in polished chrome and can be mounted in various ways. Model K Desk stand or $5\frac{1}{4}$ in. suspension ring recommended.

Universal Model "BB"

1933 Value—New Super-Design



Cat. No. 209
Net weight 1 lb
Packed weight $1\frac{1}{2}$ lbs.

List Price \$25.00
\$14.70

ished, highly polished chrome plate. Model "BB" has extra heavy 24-Kt. Pure Gold Spot Centers, 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.

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 6000 cycles. The buttons are of 200 ohms resistance each. Entire microphone finished in 24-Kt. polished gold. It is $2\frac{1}{2}$ in. in diameter and $1\frac{1}{4}$ in. thick.

Each unit is carefully laboratory tested before shipment.



Net weight, $1\frac{1}{4}$ lbs.
Packed weight, 2 lbs.

Cat. No. 210
List Price \$50.00
\$29.40

Universal Model X Two Button Microphone

A Sensational Microphone at a Sensational Price



Diameter, $2\frac{1}{2}$ "
Thickness, over all, 1"
Weight packed, 1 lb.
Polished Nickel Plate

Cat. No. 524
List Price \$10.00
\$5.88

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, $2\frac{1}{2}$ in. Overall thickness, 1 in.

Nowhere can a better microphone be purchased at anywhere near this astonishingly low price.

Special Desk Mount for Model X Mike with 8 springs.

Cat. No. 391 **\$2.00**
Our Price



MAIL ORDERS TO 
See Terms on Page 3

Federated Purchaser Inc.

World Radio History

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

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 best 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.

Desk Stand for Above Mikes

To be mounted inverted.

| | |
|--------------|--------|
| Cat. No. 289 | \$2.35 |
| Our Price | 2 |

Floor Stand for Bullet Type Mikes

| | |
|--------------|---------|
| Cat. No. 390 | \$11.76 |
| Our Price | 11 |

Frost Microphones

Desk Microphone

| | |
|---------------|--------|
| Cat. No. 6201 | \$4.00 |
| Our Price | 4 |

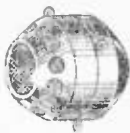
Hand Microphone

| | |
|---------------|--------|
| Cat. No. 6203 | \$3.75 |
| Our Price | 3 |



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, are more compact, 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 | \$17.61 |
| Torpedo "KK" | 228 | \$55.00 | \$32.51 |
| 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.

List Price \$10.00

Our Price \$5.88



Cat. No. 215—Regular Model

Cat. No. 216—For Home Recording

Universal Double-Button "Handi-Mike"

Same size and appearance as the Single Button Mike.

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 Handi-Mike Stand

Designed for Handi-Mike, either one or two-button. Is particularly good for holding the microphone when making home recordings. It also permits Handi-Mike to be used as a desk announcer's microphone.

Furnished with a rubber covered base and finished in gun metal.

Net weight, 2 lbs.

Packed weight, 2½ lbs.

| | |
|--------------------------------|--------|
| Cat. No. 218—List Price \$3.00 | \$1.77 |
| Our Price | 1 |



UNIVERSAL Miniature Microphones

MODEL W

MODEL Y



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.

Cat. No. 221—List \$3.00

\$1.77

Our Price, Model W.

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.

Cat. No. 222—List \$2.00

\$1.18

Our Price, Model Y.

RCA-Victor Hand Microphone

Priced Extremely Low!

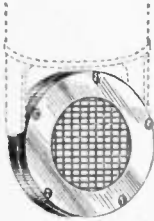
| | |
|--------------|--------|
| Cat. No. 523 | \$1.95 |
| Our Price | 1 |

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 mile 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.

Build The Radio News Condenser Microphone With This Complete Kit For Only \$3.00!



The superiority of the condenser microphone over the carbon type is acknowledged. No hiss, no button current necessary. This microphone can be assembled in less than an hour and the amplifier built into any convenient box or can. Kit includes a machined unit, protective screening, Dural diaphragm, perforated brass backplate, prongless tube base and all necessary hardware. Radio News (August, 1932) says about this mike: "In fact, this new unit is superior (to the original Western Electric unit) in that it is ready for use and does not require any machine work or changes of any kind." Complete instruction sheet furnished with each kit.

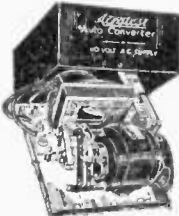
Cat. No. 7451 **\$3.00**
Our Price, Per Kit
Cat. No. 435—Factory Assembled **\$7.95**
Our Price

Acratest

Auto Converter

Furnishes 110V. 60 Cycle A. C. Current From A Storage Battery NOT A "B" ELIMINATOR

OPERATES—
A.C. Midget Sets
A.C. Fans
A.C. Amplifier and Turntable
And any A.C. appliance consuming up to 65 watts



This unit is only 7 1/2" x 6" x 1 1/2" high. Weighs 6 lbs.

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 room 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.

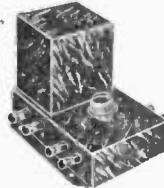
Small Electrical Appliances drawing from 40 to 65 Watts may also be used with this Converter. Such Appliances as Fans, Heating Pads, Baby Bottle Warmers, Curling Irons, Juice Extractors, Drink Mixers, Trouble Lamps and many others come in this classification.

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.

Cat. No. 1 **\$24.50**
Our Price
Complete with Cable and Control Box

Acratest Matching Stage For Mike, Phono and Radio

Input high impedance for use with radio sets and high impedance phonograph pick-ups. Input low impedance for use with low impedance phonograph pick-ups and single-button microphones. Output impedance 400,000 ohms.



Base 5 1/2" x 3 1/2" in. Height 5 in. Weight 5 lbs.

This unit is compact, housed in a small black crackle finished metal case. Equipped with a volume control which assures fine, noiseless control of the output. Particularly adaptable for use with Loftin-White amplifiers which are generally supplied without input transformers, or any other amplifier not equipped with input stage. The use of this input stage in conjunction with Loftin-White amplifiers will permit greater voltage gain and better frequency response, due to the fact that all units are properly matched to the amplifier. Space in the can is provided for a 1 1/2 volt flashlight cell to provide current for the microphone.

Cat. No. 7370 **\$3.25**
Our Price

Acraphone Microphone Input Stages

These units each contain the well known Acratest Microphone Input Trans-



formers, microphone button current control and output switch to preserve the life of the microphone. Frequency range 30 to 7600 cycles. Input standard microphone impedance; output, 400,000 ohms. Completely shielded to avoid excessive feed-back. A volume control with an "on-off" switch for controlling current at the microphone are included. The volume control has a very fine adjustment not ordinarily found in other input stages. A single No. 6 dry cell is used for microphone current supply and is carried in the flat space. The size and finish of this unit harmonize with any surroundings.

Brown crackle finished steel case. 7x6 x 2 3/4 in. high. Shipping weight 5 lbs. less battery.

For Single Button Mikes
Cat. No. 5628 **\$3.85**
Our Price

For Double Button Mikes
Cat. No. 6529 **\$5.50**
Our Price

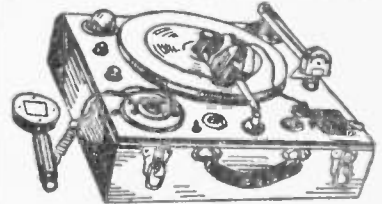
3-Conductor Telephone Type Plug and Jack For Mike and Mixing Circuits

A special design of 3-conductor plug and jack for microphone use. Standard size. High insulation factor. Connection made by solder joint insuring positive connection. Plug size—length overall, 2 7/8 in. Diameter, 3/4 in. Tip—length, 1-3/16 in. Diameter 1/4 in. Jack fits 7/16 in. mounting hole and may panel up to 3/8 in. thick. Over-all length 3 1/2 in.

Cat. No. 7320—JACK
List Price 75c
Our Price **44c**
Cat. No. 7321—PLUG
List Price \$1.50
Our Price **88c**

That Brings New Thrills to Your Home and Converts Your Radio Into an Electric RECORD MAKER

THE PRESTO Record Maker is not a toy or an experiment. It is the crowning achievement of a nationally known manufacturer with twenty years' successful background in the production of sound recording devices. It is a proven scientific instrument that reproduces any



sound with startling realism—the result is life itself! The records are permanent and can be played many hundreds of times without any loss of the original brilliance of reproduction. It is ideally suited for musicians, speakers, actors and teachers to test their offerings and voice inflection.

THE PRESTO Record Maker is simple to operate. The instrument is sturdy and compact. No delicate or complicated parts to cause trouble or inconvenience. The PRESTO is always ready to go! In addition to giving you rare joys of home recording, the PRESTO record maker converts your radio into an ELECTRIC PHONOGRAPH that will play all standard records. It brings you the musical gems of all times when, and as often as, you want them.

THE PRESTO Record Maker is in no way similar to other record-making devices now being offered. It was made primarily to produce a superlative record which cannot be duplicated. PRESTO uses a smooth disc 6-8-10 or 12-inch size, and cuts its own grooves as it records—assuring an accurate and lasting record that cannot be had with devices using pre-grooved records. A special recording head, instead of the phonograph pick-up, also insures perfect reproduction. There is no substitute for PRESTO!

This instrument comes to you complete with motor, turn-table, volume control, microphone, selector switch, and is housed in a beautiful compact portable leatherette case.



Cat. No. 185 **\$29.50**
Our Price

Look! A Fine Microphone Floor Stand for Less Than \$5.00



Adjustable.
Maximum height, 6 ft. 5 in.
Minimum height, 3 ft. 10 in.
Antique bronze finish.
Substantial weighted base.

Microphone cable runs thru the center of the stand and comes out at the base.

A remarkable value.

Cat. No. 434 **\$4.95**
Our Price

MAIL ORDERS TO
See Terms on Page 3

Federated Purchaser Inc.
World Radio History

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

Mixing Transformers

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 1/2 x 3 1/2 x 3 1/2 inches. Matches impedance of all standard type carbon 2-button microphones.



Cat. No. 2625 \$1.95
Our Price



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

Cat. No. 5596 \$1.25
Our Price

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 \$4.75
Our Price

Microphone-Phonograph Transformer

This transformer is similar in appearance to No. 7145 and has a primary to match a two-button microphone and a secondary to match the phonograph pickup posts of any radio set. It may also be used as an output transformer from a single 227, 56 or 30 type tube into a 200 or 500 ohm line.

Cat. No. 7338 \$1.95
Our Price

Push-Pull Output Transformer to Match

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 speaker 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

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

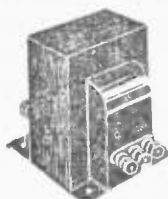


Supplies filament and plate for 10 tubes. Has 3-2 1/2 volt winding. For the '32 Rect. Electrostatically shielded.

Cat. No. 7125

\$2.85

Class B Coupling Transformer



Input For a Single 46 Into 2-46's

Cat. No. 7127

\$1.95

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

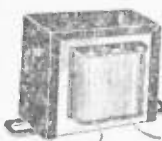
Cat. No. 7144 \$1.95

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

Cat. No. 7129 \$1.95

Output to 9 ohm, 15 ohm, 500 ohm and 4000 ohm from 2-246's.

Cat. No. 7128 \$2.95



Class B First Choke

Cat. No. 7126

95c



Class B Second Choke

Cat. No. 7130

95c

Acratest Special Matching Transformers for Mixer Panels



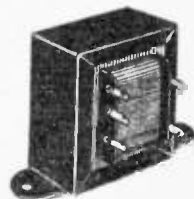
Each of these transformers were designed for a particular purpose, in connection with public address and studio use. With these transformers as a basis, input and output mixing parts may be constructed at exceptionally low cost. Excellent frequency response and

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 | \$4.50 |
| 7132 | Microphone to 50 ohm transformer. Four of these transformers with their secondaries in series for 4 mikes into 200 ohms. Diagram furnished | \$4.50 |
| 2625 | Plate of 232, 224 or 257 Tube to 200 or 500 ohms input transformer. Primary impedance 250,000 ohms | \$2.75 |
| 7133 | Plate of 230, 227 or 56 Tube to 200 or 500 ohm input transformer | \$4.50 |
| 7134 | 500 ohm line to from one to six 15 ohm voice coils | \$4.50 |

Microphone or Phonograph Input Transformer LARGE AUDIO MOUNTING

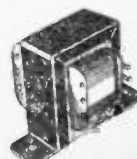
This is an excellent transformer for use on any amplifier or radio receiver. It matches the standard microphone, viz. 200 ohms on each side of center tap for double button microphones and a 5,000 ohm phonograph pick-up. The secondary of this transformer has an impedance of 250,000 ohms.



Cat. No. 7145 \$1.95

Filter Choke to Match

15 Henries at 150 Mils. Identical in appearance to the 6915 input transformer.



Cat. No. 6916 95c ea.

Brunswick 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.

Cat. No. 3870 200 OHMS
Our Price **\$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**
Our Price



Brunswick Low Impedance Pick-Up Head

Same as No. 7201 above, except with female plug.

Cat. No. 7200 **\$2.25**
Our Price

The Latest and Greatest Hit of the Day Gen-Win 5 Meter Super-Regenerative Coil Kit

For the new thrills that radio has to offer today we recommend the building of this new Super-Regenerative 5 METER RECEIVER for the Ultra-High Frequencies. The new television broadcasting stations are experimenting on this wave length and thousands of radio amateurs are heard transmitting. This marvelous receiver offers the following features:

- 1—It has high sensitivity.
- 2—Freedom from microphonic noises.
- 3—Simplicity and effectiveness of adjustment which makes it unnecessary to touch the tuning set at the least vibration as is usual with other Short Wave Receivers.
- 4—Exceptionally quiet in operation.

The GEN-WIN 5 METER COIL KIT is expertly constructed with precision and infinite care and of the finest material. The kit consists of the following:

L1 Tuning Coil; L2 Tuning Coil.
Special Radio Frequency Choke Coil.
L3 and L4 Special Auxiliary Oscillator Coils.

Included with each Coil Kit is a well drawn blue print. Shipping Weight 2 lbs.
Cat. No. 7456 **\$2.75**
Price Complete

Phonograph Motor Governor



In all G.E. and Victor Motors.
Cat. No. 5791
Our Price **75c**

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 statuary 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 3/4" 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.

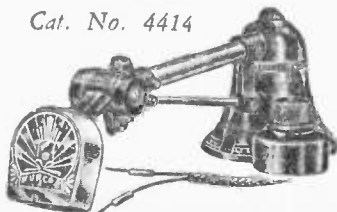
Cat. No. 5996 **\$5.25**

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

General Electric Induction Start-Synchronous Drive Phonograph Motor

After you read the description of this motor you will wonder why we are "giving them away" at such a ridiculously low price. The answer is that we made a lucky purchase from the G. E. company and we don't want to hold them, but pass our good luck on to our customers.



A compact, powerful motor which really embodies two separate motors—one induction and one synchronous. The induction part overcomes the starting torque so that it starts off immediately but as soon as it rotates at a speed of 78 r.p.m. the synchronous motor comes into action and keeps the revolutions at exactly 78 r.p.m. constant. No brushes—no radio interference. At the price asked, you can afford to buy several of these motors to replace old, weak and worn out motors; to dismantle for parts like coils, governors, gears, etc., and for window displays. Amateur experimenters in radio, television and machinery should take advantage of this opportunity. The motor will drive anything within its power.

Diameter 8 in. overall, depth 5 in.
Weight 1 1/2 lbs. No turntable supplied.
Cat. No. 383

Our Price, Less Turntable..... **75c**

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 Acetone 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 to 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.

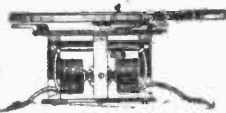
Cat. No.

220

Our Price \$4.70

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



any disturbances. Large
provide adequate support and insure long
life.

Quick Starting Torque

Exceptionally quick starting torque. Full
speed is attained instantly without man-
ual assistance. Equipped with 12-inch
turntable, cord and 2-piece plug.

Cat. No. 135 **\$7.95**

Remsen Aluminum Record for Home Recording

| Cat. No. | Dia. | Price |
|----------|--------|-------|
| 5070 | 6 in. | 13c |
| 5071 | 7½ in. | 20c |
| 5073 | 10 in. | 33c |
| 5072 | 12 in. | 50c |

Especially designed
for recording de-
vices utilizing blank
records, like the
Presto Home Re-
corder. 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 |

"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

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 Rec-
ords. 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 manu-
facturing success. Responsibly guaran-
teed. 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 | Turntable | Price |
|-------------------------------------|-----------|---------|
| Cat. No. | | |
| 253 | 10" | \$ 9.75 |
| 275 | 12" | 10.75 |

"Blue Flyer" Motors 78 R.P.M.

A slightly heavier and sturdier type
than the "Green Flyer." Recommended
for non-synchronous sound or other heavy
duty installations where a specially de-
pendable motor is required. Very high
torque, on actual test will out-pull any
similar motor. Will not heat in en-
closed cabinet. Complete with 12 inch
turntable.

Cat. No. 304—For 110-120 volt 50-60
cycle A. C. **\$7.50**

Our Price, Each

Special Blue Flyer for 33 1/3 R.P.M.

For new style recordings and synchron-
ous moving pictures.

Cat. No. 305 **\$9.75**
Our Price, Each

Special Acratone Carbon Steel Recording Needles

This needle has been developed espe-
cially for recording. It may be used on
either pre-grooved or blank discs of
either aluminum or composition.

This recording needle is made of ex-
tremely 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

4 order blanks have been
included in the center of this
catalog for your convenience.
Use them.

Genuine Sapphire Reproducing and Cutting Needles



GENUINE WHITE ORIEN-
TAL SAPPHIRE USED EX-
CLUSIVELY. This sapphire
is rated, according to sci-
entists' tables, hardness of
which is 90% of that of
the diamond. Consequently,
it is very durable. To in-
sure 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 records. 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**
Our Price

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**
Our Price

Type CW, for playback on regular com-
mercial records such as Victor, Columbia,
Brunswick, etc., also electrical transcrip-
tions when all above are made to play
at the rate of 78 revolutions per minute.
Cat. No. 289 **\$2.00**
Our Price

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**
Our Price

Special DIAMOND NEEDLE for CEL-
LULOID, used for professional recording.
Cat. No. 291 **\$16.50**
Our Price, Each

All above needles are tested and in-
spected before shipment and are guar-
anteed against defective materials and
workmanship. They are used extensiv-
ly by recording studios, laboratories, uni-
versities, language schools, etc.



Fibre Playback Needles for Al- uminum Records

Cat. No. 6929 **25c**
Our Price

Package of 50 Needles

Cat. No. 6929 **25c**
Package 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.

Wall-Kane 10 Record Needles

The original fa-
mous Wall-Kane
10-Record Needle.
No better needle
made. 50 to a
box, 60 boxes, as-
sorted loud, med-
ium and soft, in
a 3-color metal
display stand.

Cat. No. 4371 **6c**
Our Price, Per Package



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 making 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. 6336—Body

Net Price 60c

Cat. No. 6139—Plug

Net Price 45c

Cold Mold Composition Connector, same as above, but without armor.

Body—No. 7140—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

3 Wire Microphone Coupling

Polarized Plug and Cable



The 18 inch cable is permanently attached to the microphone and the female plug allows the instantaneous connecting or disconnecting of the microphone to the line. Prevents wear of mike and saves time. Cable has 3 different colored conductors.

Cat. No. 7291

Our Price **45c**

THREE CONDUCTOR MALE CAP

To Match

Cat. No. 7141

Our Price **20c**

Three Wire 10 ft. Microphone Cable



For microphone coupling and other uses.

Cat. No. 3626 **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.

Microphone Cords

Made Up Cables With Armored Connectors.



| Cat. No. | Length | List | Net |
|----------|---------|---------|---------|
| 4435 | 6 ft. | \$2.75 | \$1.65 |
| 4437 | 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



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 carbon phone. No. 100 size.



Cat. No. 6974 **59c**

List, per Vial . . . \$1.00

Shielded Microphone Cable

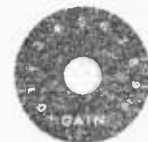


| Cat. No. | Wires | Per Ft. | 100 Ft. |
|----------|-------|---------|---------|
| 4490 | 3 | 6c | \$5.50 |
| 4490 | 5 | 10c | 9.00 |

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 1/4"
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.

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 **\$8.00**
Net

P. A. HORNS

Suspension Horns



REFLEX HORN
6 foot Exponential
AIR COLUMN

Designed primarily to reinforce the voice reproduction in theatres. It has found usefulness in portable talking picture installations, centralized radio systems, for sales conventions, schools, etc. Its compact size, carrying and tonal qualities are startling in realism.

Air column, 6 feet; depth, 26 3/4 inches; weight, 25 pounds; bell, 29x29 inches.

Especially adapted for: Small Capacity Theatres, Ice Skating Rinks, Dance Halls, Small Auditoriums, Churches, etc.

Cat. No. 117—List Price \$35 **\$32.34**
Net Price

Bell, 13x15 in. Depth, 14 1/4 in.

Overall dimensions, 17 1/2 x 16 x 14 1/4 in.

Air column, 5 feet.

Equipped with cast aluminum throat, bronze loose coupling.

An excellent horn for monitoring and for all types of sound systems requiring a portable horn.

Weight, 7 1/2 pounds.

Cat. No. 119—List Price \$18 **\$10.58**
Net Price

Public Address Dynamic Units

TYPE GAC-4N

Giant Electro Dynamic Horn Unit—
Operates on an Output of 10-30
Watts — Weight, 19 lbs. — Standard
Threads — Response 50-8,000 Cycles

Requires a field supply of 1.6 amperes at 6 volts D.C. The source of supply may either be a 6 volt storage battery or a rectifier that will give 6-8 volts D.C. from 110 volts A.C. The standard voice coil impedance of type GAC-4N is 16 ohms.



DYNAMIC UNIT

Available also for 110, 220 volts D.C.

Cat. No. 162—List Price \$50 **\$29.40**
Our Price

TYPE GAC-3N

Junior Electro Dynamic Horn Unit—
Operates on an Output of 7-10 Watts
—Weight, 10 lbs.—Standard Threads
—Response 50-8,000 Cycles

Requires a field supply of 1.6 amperes at 6 volts D.C. The source of supply may either be a 6 volt storage battery or a rectifier that will give 6-8 volts D.C. from 110 volts A.C. The standard voice coil impedance of type GAC-3N is 16 ohms.

Available also for 110, 220 volts D.C.

Cat. No. 164—List Price \$38 **\$22.34**
Our Price

Exponential Stormproof Cone Trumpets



BAFFLE HORN

Bell, 30"
Depth, 24"
Weight, 11 lbs.
Opening, 9"

For the Amplification of Human Speech Used in Classrooms, Department Stores, Hospitals, etc.

A bell flare makes a directional speaker of a non-directional one, concentrates the sound emanating from the cone and sends it to a direct course, thereby adding greater efficiency to the output. It loads the diaphragm of the cone, thus giving it an air column. This prevents blasting and in addition retains the high notes.

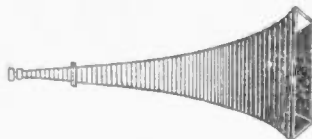
Cat. No. 192—List Price \$20 **\$11.70**
Net Price



Type S-9. A 4 ft. Square Cone Trumpet of special all weather material. All joints metal reinforced. Standard finish—aluminum. Speaker Enclosure.

Length, 48 in.; bell, 30x22 in.; weight, 21 lbs.

Cat. No. 108—List Price \$30 **\$17.64**
Net Price



Type S-3054. A 6 ft. Square Cone Trumpet. Metal reinforced joints. Special all weather material. Standard finish—aluminum. Speaker enclosure.

Size bell opening, 31x31 in.; length, 6 ft.; weight, 26 lbs.

Cat. No. 109—List Price \$36 **\$21.17**
Net Price

The R-207 Speaker Unit consists of a baffle horn with speaker enclosure, into which may be mounted a dynamic cone type speaker.

Dimensions: Horn opening—height, 18 in.; width, 30 in.; total depth, 24 in.; weight, 14 lbs. Standard French gray finish.

Cat. No. 112—List Price \$17 **\$10.00**
Net Price

R-207-W. Same as R-207 but built for outside use.

Finish, aluminum. Weight, 18 lbs.

Cat. No. 113—List Price \$18.50 **\$10.80**
Net Price

TRUMPET HORNS for Amplification of Direct Speech

The types described are especially recommended for: Conventions, Open Air Assemblies, Political Gatherings, Hotels, R.R. Stations, Race Tracks, Athletic Fields, Stadiums.

Bell, 30 in. round; length, 6 ft. Heavy Duty, equipped with demountable aluminum throat, one inch metal beaded edge, suspension ring, finish French gray. Standard threads. Weight, 22 lbs.

Cat. No. 165—List Price \$55 **\$32.34**
Net Price

Standard: PA-6 equipped with metal beaded edge, cast aluminum throat, and suspension ring for interior use. Weight, 14 lbs.

Cat. No. 167—List Price \$48 **\$27.22**
Net Price

Bell, 23 in. round; length, 3 1/2 ft. Heavy Duty: Equipped with demountable throat, beaded edge and suspension ring, coupling for dynamic units. Weight, 10 lbs.

Cat. No. 173—List Price \$31 **\$18.22**
Net Price

Bell 18 in.; length, 3 ft. Standard: PA-43 equipped with cast aluminum throat, beaded edge, and suspension ring. For interior use and temporary exterior use. Weight, 8 lbs.

Cat. No. 175—List Price \$20 **\$11.60**
Net Price

3 1/2 FT. STORMPROOF TRUMPET

Bell, 22 in. round; length, 3 1/2 ft. Equipped with metal beaded edge, cast aluminum ferrule and suspension ring. Guaranteed for one year.

For outdoor use in all climates and weathers. Weight, 9 1/2 lbs.

Cat. No. 185—List Price \$40 **\$23.52**
Net Price

6 FOOT STORMPROOF TRUMPET

Bell, 30 in. round; length, 6 ft. Equipped with metal beaded edge, cast aluminum throat and 4 inch suspension ring.

For outdoor use in all climates and weathers. Single unit horn. Weight, 21 lbs.

Cat. No. 176—List Price \$65 **\$38.22**
Net Price

Multiple Horn Couplers



For connecting two or more horns to a single dynamic unit. Standard threads.

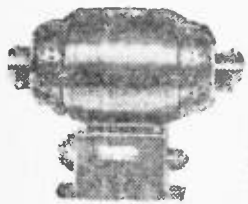
Double Connector
Cat. No. 7300 **\$5.40**

Triple Connector
Cat. No. 7301 **\$11.60**

By using these adapters, two or three horns may be connected by a single unit. Sound is evenly distributed, covering a wide range of frequencies. Dispersion angle of double coupler 75 degrees, of triple coupler 105 degrees.

Esco Rotary Converters

Transforms 6, 12, 32, 110 and 230
Volts D. C. to 110 Volts
60 Cycle A. C. Current



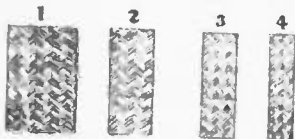
Esco rotary converters are the perfected products of a pioneer manufacturer who has been building motors, generators, converters, and other high voltage machines for a long number of years.

Esco machines are specified as standard by the United States Army, the United States Navy, the Bureau of Standards and hundreds of the leading colleges and universities. It was the excellent performance of the Esco high voltage generator that enable Commander Byrd to keep in touch with the outside world.

Esco rotary converters are manufactured to the same degree of accuracy as other Esco machines. These converters open a large field for the radio dealer and service man, they make possible the using of modern AC radio sets and phonographs from direct current. These converters also supply alternating current for operating public address and sound systems from trucks. All Esco converters are furnished complete with correctly designed filters which insure perfect radio reception.

| Our Cat. No. | Esco Cat. No. | Input DC Volts | Output Watts | Our Prices |
|--------------|---------------|----------------|--------------|------------|
| 305 | 2R61 | 6 | 40 | \$37.30 |
| 306 | 2R121 | 12 | 80 | 40.15 |
| 349 | 4R122 | 12 | 150 | 50.25 |
| 350 | 2R322 | 32 | 150 | 42.53 |
| 357 | 2R323 | 32 | 200 | 47.00 |
| 358 | 2R324 | 32 | 300 | 51.45 |
| 361 | 2R325 | 32 | 400 | 55.11 |
| 371 | 2R151 | 115 | 90 | 32.93 |
| 362 | 2R152 | " | 120 | 34.30 |
| 372 | 2R153 | " | 150 | 37.49 |
| 363 | 2R154 | " | 200 | 45.52 |
| 364 | 2R155 | " | 300 | 49.39 |
| 365 | 2R156 | " | 400 | 58.41 |
| 370 | 2R157 | " | 500 | 63.11 |
| 376 | 2R234 | 220 | 200 | 47.00 |
| 377 | 2R235 | " | 300 | 51.45 |
| 378 | 2R236 | " | 400 | 62.43 |
| 380 | 2R237 | " | 500 | 65.17 |
| 373 | 2R231 | " | 90 | 33.96 |
| 374 | 2R232 | " | 120 | 36.36 |

The above net prices include filter. If filter is not desired 10% may be deducted.

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. | OUR PRICE | |
|----------|------|-----------|-----------|---------|
| | | | Per ft. | 100 ft. |
| 4496 | 1 | 1 in. | \$0.11 | \$10.00 |
| 4499 | 2 | 1 1/2 in. | .09 | 8.50 |
| 4498 | 3 | 2 in. | .07 | 4.50 |
| 4475 | 4 | 3 in. | .05 | 4.50 |

MALLORY
ELKON
"8" ELIMINATOR
Makes ANY Auto Radio
ALL-ELECTRIC

1 universal application—suitable for all popular brands of standard automobile radio sets. Dependable, uniform reception. Easily installed. Safe. An investment, tested and proven. Low price, \$19.95 complete!

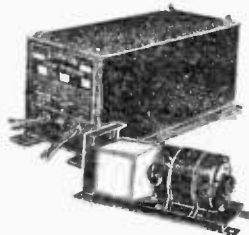
Delivers 180 volts at 30 mils and
135 volts at 40 mils. Requires
but 2.1 Amps. at 6 volt input.
Size 10x7x3 1/4 in.

Cat. No. 273

\$14.95**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 altering 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-B-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 20 lbs.

Data and Prices

| Cat. No. | Code | Battery Drain* | | At 40M.A. |
|----------|-------|----------------|--------------|-----------|
| | | Input Volt. | Output Volt. | |
| 265 | AUTEX | 6 | 135 | 2.8 |
| 266 | AUTOB | 6 | 180 | 3.0 |
| 267 | AUTAK | 12 | 135 | 1.4 |
| 279 | AUTIL | 12 | 180 | 1.8 |

*Codewords include units complete with voltage and 1 extra tap. If two extra taps are required, add following codeword: TABBY.

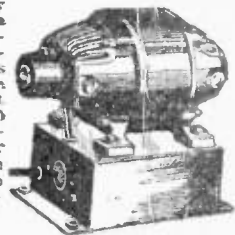
*These current values are maximum. In most cases battery drain will be much less than those indicated in this table. List Price Complete with Voltage Divider and Extra Taps.....\$32.00

Our Price \$18.82
COMPLETE

**JANETTE
Rotary Converters**

Transforms 6, 12, 32, 110 and 220
V. D.C. to 60 Cycle A.C. Current

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 or amplifiers on D. C. circuits.

**Creates Big Market for A.C. Sets**

The Janette Rotary Converter, and especially the new CA-25-P opens up a fertile field for A.C. radio sales. Over 500,000 farmers own 32 or 110 volt D.C. lighting plants. Every one of them is a prospect for a double-profit side 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 public address—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.

If converters are to be used where no tuner is employed, the filter may be omitted. Shipped from New York or Chicago.

**6 Volt Input to 110
V. A. C. Output Models**

| Cat. No. | Output Watts | Input Amps | OUR PRICE | |
|----------|--------------|------------|-------------|-------------|
| | | | With Filter | Less Filter |
| 326 | 20 | 9.0 | \$26.25 | \$20.58 |
| 330 | 30 | 11.0 | 27.75 | 22.05 |
| 261 | 40 | 14.0 | 37.80 | 34.55 |
| 262 | 60 | 22.0 | 41.30 | 38.22 |

**12 Volt Input to 110
V. A. C. Output Models**

| | | | | |
|-----|-----|------|-------|-------|
| 331 | 20 | 4.5 | 26.25 | 20.58 |
| 345 | 30 | 7.0 | 27.75 | 22.05 |
| 263 | 80 | 15.0 | 37.80 | 34.55 |
| 264 | 120 | 19.5 | 41.30 | 38.22 |
| 265 | 160 | 22.0 | 56.70 | 48.50 |

**32 Volt Input to 110
V. A. C. Output Models**

| | | | | |
|-----|-----|------|-------|-------|
| 282 | 80 | 4.5 | 29.40 | 25.00 |
| 254 | 110 | 6.5 | 35.00 | 31.24 |
| 255 | 150 | 9.5 | 38.75 | 34.52 |
| 265 | 300 | 15.0 | 53.00 | 44.10 |

**115 Volt Input to 110
V. A. C. Output Models**

| | | | | |
|-----|-----|-----|-------|-------|
| 257 | 110 | 1.9 | 35.00 | 31.24 |
| 258 | 150 | 2.4 | 38.75 | 34.52 |
| 259 | 300 | 4.0 | 50.00 | 44.10 |
| 260 | 500 | 6.4 | 64.00 | 54.50 |

**220 Volt Input to 110
V. A. C. Output Models**

| | | | | |
|-----|-----|-----|-------|-------|
| 254 | 50 | 1.0 | 29.40 | 25.00 |
| 266 | 110 | 1.9 | 36.05 | 32.50 |
| 267 | 150 | 2.4 | 38.65 | 35.00 |

MAIL ORDERS TO
See Terms on Page 3

Federated Purchaser Inc.

World Radio History

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

Solder and Tape

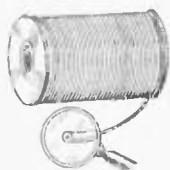
Acratest

"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. | 1 lb. | \$.50 |
| 5997 | 235 ft. | 1 lb. | .75 |



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 3mm. 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 | 1/2 oz. | .25 each |
| 4176 | 1 lb. | .40 each |

KESTER SOLDER

Rosin Core

The small package of Kester Rosin Core Solder, being of the flat or ribbon type. Recommended by leading radio engineers for its absolutely non-corrosive and non-conductive. Designed for the amateur set builder and for radio maintenance work. A liberal coil of solder is packed in a photographed tin can. Ten cans are put up in a handsome counter display carton.



Cat. No. 5220 \$1.40
Per Carton of 10



| | For General Work | For Radio Work | For Acid-Core | Our Price |
|-------|------------------|----------------|---------------|-----------|
| 1 lb. | 5221 | 5225 | 5227 | \$0.45 |
| 5 lb. | 5223 | 5227 | | 1.95 |

SOLDERALL



10c Retail Size
In Counter Display
Carton of 24 Tubes

Cat. No. 4467

\$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.

P. D. Q. Plastic Metallic Solder



A new discovery. Is a semi-liquid that can be used to repair almost any broken article. It is water proof, gasoline proof and will withstand heat. With it you can repair broken furniture, bathroom fixtures, broken crockery, porcelain, leaky pots and pans, broken dishes, leaky radiators, gas tanks, water pipes, broken windshields or cracked cylinder heads of automobiles. It will stick to wood, metal, glass, pewter, lead, rubber, leather, in fact almost any surface.

Dries rapidly, will withstand 3500 of heat and acid.

Cat. No. 7356 \$2.00
Our Price, per doz. **20c**
SAMPLE 20c

"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
3c each

Friction Tape

Cat. No. 4226

1-Ounce Rolls, marked "5c Each"

70c Per box of 32 Rolls



2-ounce Rolls, marked "10c Each."

Cat. No. 4219 **70c**
Per box of 16 Rolls.

Cat. No. 4215 **8c**
4-oz. Rolls, Each

Cat. No. 4223 **15c**
8-oz. Rolls, Each

Packed in individual cartons and attractive display containers which makes sales easier.

Friction Tape "Ends"

8-oz. rolls packed in boxes.

Cat. No. 7457

Our Price, per lb. 15c
(2 8-oz. rolls)

LENK BLOW TORCHES

A Model for Every Purpose

Lenk Handy Blotorch



Handy for any soldering purpose. Made of brass heavily nickel-plated. 1200 degrees needle-point flame. Size 5 in. x 1 1/2 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 TORCH

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.

Size 5 1/2 x 2 1/2 x 1 in. Packed 6 to a carton.

Cat. No. 6693
Our Price, each **60c**
Display Card of 6, \$3.20

Lenk Mouth Blotorch



A HEAVY DUTY MASTER PRODUCT
Filling a demand from ELECTRICIANS and MECHANICS for a SUBSTANTIAL FOOT-PROOF TORCH.

Base and Top of Heavy Bronze Castings
WICK SCIENTIFICALLY ENCASED prevents boiling over of fuel.

Balanced to prevent damage when dropped or abused.

Extra long rubber tube with ebony mouth piece. Unequally guaranteed.

Size 7 1/2 x 2 1/2 in. Shipping weight, 1 1/4 lbs. Packed in individual corrugated carton.

Cat. No. 7318
Our Price **\$1.50**

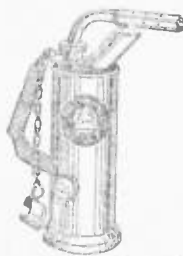
HACKSAW



Cat. No. 3076
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.

Lenk Duo-Duty Blotorch



Strong Sturdy Structure!!
Duo-Flame Control
Needle-point and Bunsen Blast
Mechanically Balanced
Heavy Cast Bronze Base
Cleaning Pin securely held in cool handle.

BUILT TO LAST A LIFETIME

Unequally Guaranteed

Size 7 1/2 x 2 1/2 in. Shipping weight, 1 1/4 lbs. Packed one in a carton.

Cat. No. 5131—List Price \$2.50 **\$2.10**
Our Price

Lenk Master Blotorch

A Combination Alcohol Torch

Powerful 2200° blast with attached burner. One turn of thumb screw releases burner, producing 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.
6. Fuel-proof construction—no adjustment necessary.
7. Filter screen in jet prevents plugging no matter.

Cat. No. 5431 **\$2.95**
Our Price

Hand Drill



This tool represents an unusual value in a drill of 1 1/2 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 **\$1.24**
Price

Screwdriver



Colson 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. 5053 **40c**
Our Price

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 cement.

FULLY GUARANTEED

Cat. No. 2720 **59c**

75 Watt High Heat Soldering Iron with removable heating tip, approved heater cord.

Cat. No. 5113 **\$1.65 ea.**

100 Watt Extra Heavy High Heat Iron with brown removable handle, approved heater cord.

Cat. No. 3305 **\$2.00 ea.**

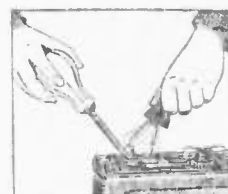
75 Watt, 220 V.

Cat. No. 6707 **\$1.50 ea.**

EXTRA TIPS

| Cat. No. | Watts | Type | Price |
|----------|-------|--------|--------|
| 7447 | 75 | Round | \$0.25 |
| 7448 | 100 | Round | .35 |
| 7449 | 75 | Chisel | .25 |
| 7450 | 100 | Chisel | .35 |

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.

Automatic Drill



This new tool is built for the home or shop 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 strong jet black molded bakelite. They are safely locked in until wanted.

Eight fluted shank drill points, 1-18-inch to 11-64-inch in diameter, are furnished with each drill.

Length 9 1/2 inches. Weight 6 ounces.
Cat. No. 5081 **\$1.25**
Our Price

Machine and Wood Screw Assortments

- 4142 Round Head 6-32 Screws, 85 per box.
- 4288 Flat Head 6-32 M. 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.
- 4743 Assorted Fibre Washers and Grommets, 100 per box.
- 4744 Round, Flat and Oval Head Assorted Size Wood Screws, 35 per box.
- 4745 Round Head 6-32 Screws, nuts and washers, 100 per box.
- Our Price Per Box **25c**



Angle and Bracket Assortment

All Nickel Plated Brass
25 pieces in a box.

Very handy for the
service man.

Cat. No. 3605
Our Price, Per Box **25c**



Transformer Brackets

Brass, Nickel Plated
3/8 in. wide.

| Cat. No. | Length | Hole Center | Price Set of 4 |
|----------|-----------|-------------|----------------|
| 5367 | 3 1/2 in. | 2 1/2 in. | \$0.20 |
| 5368 | 4 1/2 in. | 3 1/2 in. | .30 |
| 5369 | 5 1/2 in. | 4 1/2 in. | .40 |

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.

540 Ohm "C" Bias Resistor

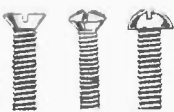


Used for taking off
"C" Voltage from
and B Eliminator.
10 Watts.
Tapped at 90, 90,
360 ohm
2 1/2 in. long.

Cat. No. 5103 **15c ea.**

Round Head Machine Screws

These machine screws are packed 10 screws to an envelope. Each envelope has an illustration and the quantity of the product on the front.



| Cat. No. | Size | Round Head N. P. |
|----------|-------------|------------------|
| 5966 | 3/16 x 3/32 | Round Head N. P. |
| 5967 | 1/8 x 3/32 | Round Head N. P. |
| 5968 | 1/4 x 3/32 | Round Head N. P. |
| 5969 | 3/8 x 3/32 | Round Head N. P. |
| 5970 | 1 x 3/8 | Round Head N. P. |
| 5971 | 1 1/4 x 3/8 | Round Head N. P. |

Our Price 5c
Per Envelope

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 5/8 x No. 6, 10 Round Wood Screws to an envelope.
- 6475 3/4 x 6, 10 Round Wood Screws to an envelope.
- 4746 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 | Oval Head Machine Screws, Nuts and Washers. |
|----------|--------------|---|
| 3650 | 1 1/2 x 6/32 | Oval Head Machine Screws, Nuts and Washers. |
| 3651 | 4 x 8/32 | Oval Head Machine Screws, Nuts and Washers. |
| 3652 | 1 x 6/32 | 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

3/4 Actual Size

25c per hundred

Hexagon Nuts, Knurled Nuts, and Washers in Envelopes

- Cat. No.
- 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", 8 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 1/2 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 100 to box.

| Style | Cat. No. | Style | Cat. No. |
|-------|----------|-------|----------|
| 1 | 5972 | 4 | 5975 |
| 2 | 5973 | 5 | 5976 |
| 3 | 5974 | 11 | 5977 |

Our Price 19c

Per Box of 100

\$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 to insure perfect electrical efficiency and durability.

Cat. No. 3893

15c per doz.



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

\$1.00 dozen

"Clamp-On" Type Pilot Light Socket

Can be attached to any dial not
already equipped with pilot light.

Cat. No. 6571

6c ea., 60c doz.

Condenser Shaft Reducer



Adapts a $\frac{3}{8}$ " condenser shaft for a
 $\frac{1}{2}$ " dial or knob
Nickel plated brass
Length $\frac{7}{8}$ ".

Cat. No. 6154

Our Price 15c Ea.

Shaft Coupling



Cat. No. 5166

15c ea.

This fitting connects two $\frac{1}{4}$ " shafts together. Very handy for connecting condensers, volume controls, etc. With 2 set-screws. N. P. brass. $\frac{5}{8}$ " long.

Bakelite Tubing (Coil Forms)

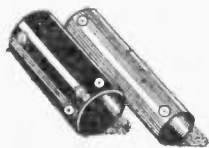
Cat. No.
4085

$1\frac{1}{4}$ in. dia.,
4 in. long

Cat. No.
3812

$1\frac{1}{4}$ in. dia.,
3 in. long

Our Price 10 ea.



The Handy Scratch Remover

Mars and Scratches on
Radio Cabinets and Furniture
Vanish Instantly.

Cat. No. 3379 **\$3.00**
Per Dozen **\$3**

Sample 35c

(Sold one dozen to carton with counter display.)



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**



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.).



Cat. No. 5852
85c ea.

Washer Assortment



No 5
FIBRE
WASHER
ASSORTMENT

Contains 100 of
the most commonly
used fibre washers
and grommets.

Cat. No. 4743 **25c**
Our Price

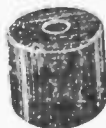
Rubber Howl Arrester

Fits over the tube and
prevents oscillation and microphone noises.

Cat. No. 6669

10c ea.

\$1.00 dozen



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 $3\frac{1}{4}$ in. 75c doz.
Cat. No. 4427 Size $2\frac{1}{2}$ 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.

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

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.**

Flush Type Pin Jacks



Nickle-Plated
Complete with solder lug.

Cat. No. 5629

45c per dozen
\$3.50 per 100

MAIL ORDERS TO 
See Terms on Page 3

Federated Purchaser Inc.

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

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 rphones are made in two—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 **\$176.40**
List Price \$300

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 **\$205.80**
List Price \$350

Extra Heavy Condenser Microphone Floor Stand (Illustrated above)

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 range 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, 21½ lbs. Packed weight, 28 lbs.

Cat. No. 244 **\$22.80**
List Price \$40.00

Telescope Portable Floor Stand

Easily collapsed. Lightweight. No name plate. Polished Nickel.
Cat. No. 292
Our Price **\$5.88**

Universal Banquet Stand

A half height stand for use on tables, at banquets, desks, pulpits, etc., also preferred by some for studio announcer's use.

Adjustable from 18 in. to 28 in. high.

Base 7 in. in diameter. Top ring 6½ in. in diameter. Furnished with 4 eyes for suspension of Universal "A", "BB", "KK", "LL" and any other carbon microphone.

Finished in highly polished chrome plate and equipped with blank call letter nameplate as shown.

Packed in individual cartons.

Net weight 11 lbs. Packed weight 15 lbs.

Cat. No. 386—List Price \$15 **\$8.82**
Our Price
8 Suspension Springs Included

NOTE: All microphone desk stands, floor stands and banquet stands are now equipped with call letter name plate, as shown. Call letters or other wording can be painted in this space. If desired, paper or metal letters may be cemented in the space provided allowing the user to change lettering as desired. We do not furnish plates lettered or letters.

All stands are mechanically perfect. Not made up of lamp fixture or smoking stand parts; are silent in operation when raised or lowered. Present a highly professional studio appearance. Cord can be run down through the tubes and out at the base.



Universal Floor Stand

A really good floor stand, of the right size in every way. The top ring is 6½ in. in diameter, the base 12 in. in diameter, and complete weight 18 lbs. Total extended height 5½ feet.

This stand is smooth in operation and is not easily tipped. The clamp lock is positive, yet is operated by the slightest pressure.

Hundreds of these stands are in use in all parts of the world, and all users are enthusiastic about them.

Finished in highly polished chrome plate and equipped with blank call letter nameplate as shown.

At the new List Price of \$20.00, this superior Universal floor stand offers the best buy on the market. Net weight 19½ lbs. Packed weight 30 lbs.

Cat. No. 337—List Price \$20 **\$11.70**
Our Price
8 Suspension Springs Included



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.

JUNIOR RING
Size 5½ in. diameter by ½ in. wide by ¼ in. thick—8 suspension springs included.

Cat. No. 3636

\$1.47

SENIOR RING
Size 6½ in. diameter by ½ in. wide by ½ in. thick—8 suspension springs included.

Cat. No. 3621

\$2.35



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 6½ 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 3½ lbs.; Packed weight 4½ lbs.

Cat. No. 232 **\$9.51**

8 Suspension Springs Included

List Price \$16.00

MODEL "L" DESK MOUNT WITHOUT COVERS

Model "L" is 6½ 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 10½ inches high. Net weight, 3 lbs. Packed weight, 4½ lbs. 8 Suspension Springs Included. List \$10.00

Cat. No. 239 **\$5.88**

Universal Desk Type Mountings

MODEL "K" DESK MOUNT WITHOUT COVERS

Model "K" is 6 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., 2½ lbs.
Packed wt., 3½ lbs.
Entire assembly 8 in. high.

8 Suspension Springs Included

List Price \$5.00

Cat. No. 238

\$2.94



USALLTE FLASHLIGHTS Two Best Sellers

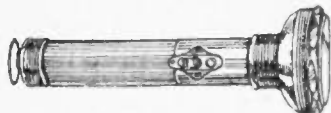


2-Cell Large Size Focusing Spotlight
Will throw a beam of light over 400 feet.
Size 1 3/4" x 6 1/4"

Cat. No. 6679

Complete

85c



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

Complete

\$1.35

- 1—Heavy gauge solid brass cases.
- 2—Body finished in black.
- 3—Fully Nickel-plated.
- 4—Fool-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 1/2" 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 | 2½ | 88c |
| 3675 | 5 | |
| No Less Than 10 Sold | | |



Independent Pilot Lights

| Cat. No. | Volts | Carton of 10 |
|----------|-------|--------------|
| 3676 | 2 1/2 | 45c |
| 3677 | 5 | |

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, G13 1/2 and A19
Packed 10 to the box.



| Cat. No. | Color | Cat. No. | Color |
|----------|-------|----------|-------|
| 5096 | White | 5099 | Blue |
| 5097 | Amber | 5100 | Green |
| 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 3

Federated Purchaser Inc.

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

Aerial - Lead-in - Wire Magnet and Hook-up

AERIAL WIRE



Cat. No.
4401

Seven-
Strand
No. 26 Cop-
per 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 \$2.00

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



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

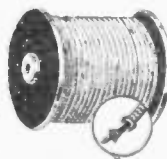
Cat. No. 4404 28c ea.

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 |
| 4465 | 1000 ft. Coil | 8.50 |

SOMETHING NEW!

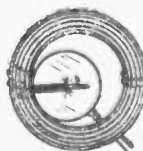
Continuous Aerial and Lead-in Wire

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



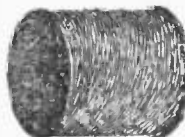
tie one end on some high object on the roof and bring the other end down over the side of the roof and into the window. For a quick and secure installation, there is nothing better than this fine insulated copper wire.

| 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 \$6.50 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 Silk 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. 13, 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. |
| 4499 | 250 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 3

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 .39 | 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 paraffin 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 1000-ft. Roll | 3.75 |

Stranded Push-Back Wire

For filament leads and wherever flexibility is desired. Tinned for quick soldering.

Cat. No. 4463

| | |
|---------------|--------|
| 100 ft. coil | \$0.40 |
| 500 ft. coil | 1.85 |
| 1000 ft. coil | 3.50 |

SPAGHETTI TUBING

Cat. No.
5630



3/8 in.—Black

35c dozen
\$2.50 per 100 lengths

Green Silk Covered Litz Wire

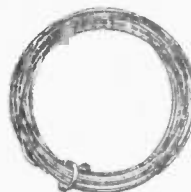


Litz wire is used for winding precision induction coils and for making loop aereals. It is the most sensitive wire known and is excellent for indoor antennas.

1/4 lb. spools.

Cat. No. 4243 **20c**

Colored Rubber Covered Stranded Hook-Up Wire



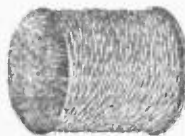
Very flexible tinned wire covered with blue, yellow, green or red rubber. Ideal for wiring or hook-up sets.

| Cat. No. | Length | Each | Dozen |
|----------|---------|------|--------|
| 4405 | 25 ft. | 11c | \$1.20 |
| 4406 | 50 ft. | 20c | 2.25 |
| 4407 | 100 ft. | 39c | 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 obtainable 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 service-man 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 in 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

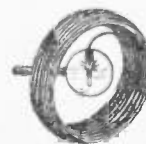


Contains 150 ft. of Wire
Cat. No. 4415

your 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.

Cat. No. 4497—14 Gauge—Will carry 15 Amps at 110 Volts
100 ft. for..... **95c**

Cat. No. 4459—12 Gauge—Will carry 20 Amps at 110 Volts
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 3

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



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 | 1000 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



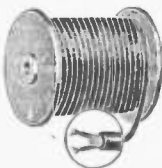
Lacquered
Braid
For Auto
Ignition
Work
Oil Proof

| 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 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 R. 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.



Furnished in white, green, maroon, brown and gold 1,000-ft. spools only

| Cat. No. | Size | Price per 1,000 ft. |
|----------|---------|---------------------|
| 4410 | 18-1/64 | \$5.85 |
| 4434 | 20-1/64 | 4.95 |

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

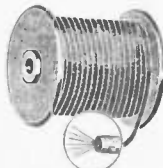
Per 500 ft.

\$5.50

Per 250 ft.

\$3.00

Battery Charging Cable (Single)

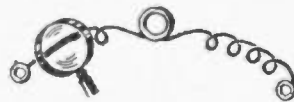


Cat. No. 4450

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 | Our Price |
|----------|---|-----------|
| 5732 | Amrad 84 | 20c |
| 5231 | Atwater-Kent, 35, 37, Left & Right | 23c |
| 6563 | Atwater-Kent, 60, 61, Set of 2, Left & Right | 40c |
| 6363 | Atwater-Kent, 30, Belts: Set of 2, Left & Right | 20c |
| 6231 | Atwater-Kent, 55, Belts: Set of 2, Left & Right | 20c |
| 6364 | Atwater-Kent, 44, Belts: Set of 3, Left & Right | 40c |
| 5234 | Balkett Cable | 25c |
| 5229 | Bosch Model 58a | 23c |
| 4290 | Bosch Model 48a | 23c |
| 5729 | Bosch 28 | 23c |
| 5730 | Bosch 58, 60 | 23c |
| 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 Model 40-S, 60-S, 804 | 28c |
| 5237 | Crosley Model 601-602-607 | 28c |
| 5232 | Emerson | 37c |
| 6369 | Eveready, All Nos., Drive Cables | 23c |
| 4658 | Freed-Elsemann Belts, Model N. R. 60 | 27c |
| 5235 | Freshman Model 2 | 37c |
| 5233 | First National | 37c |
| 6564 | Kellogg, Set of 2 | 45c |
| 5584 | Kolster, Heavy Cord & Beads on End | 23c |
| 6370 | Kolster, 43, 44, Drive Cable | 45c |
| 5728 | Majestic, 62 | 20c |
| 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, Linen | 14c |
| 4283 | R.C.A. Dial Cable, Model 17-18-46-64-67 | 25c |
| 5357 | R.C.A. 64, 67 (very heavy phosphor bronze wire) complete with Connector | 25c |
| 6372 | Sparton, All Nos., Drive Cables | 427c |
| 6373 | Stelnite, All Nos. | 27c |
| 6565 | Temple, 2 Drum Cables and Springs | 45c |

Phosphor Bronze Dial Cable

Cat. No. 5288

\$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 3

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 |
| 3322 | With Bakelite switch plug. | .35 | 3.60 |

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. 6486
Our Price

90c

Triple Outlet Cube Tap



Cord is of 2/18 silk parallel with inner cord 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 |
| 3330 | 9 ft. | .22 | 2.40 |
| 3352 | 12 ft. | .25 | 2.75 |
| 3353 | 15 ft. | .28 | 3.10 |
| 3358 | 20 ft. | .32 | 3.60 |

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 6 ft. silk cord, 2-pc. attachment plug. Knob or push through socket. Will stand up under high heat.



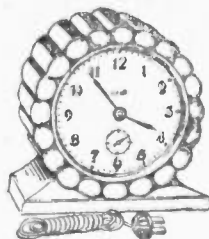
Cat. No.
388

Either A.C. or D.C. current. Recommended by physicians everywhere.

Each \$1.65

Complete with 260 Watt Bulb

Morpheus



Boudoir or Desk Type
Heavy Sculptor's Duralloy Metal
Ht. 4 1/4"
Wd. 5"
Dp. 2 1/2"
Dial: Satin Silver Finish
3 1/2"
Finish
Nile Green

A distinctive lilliputian timepiece rendered in the modern manner. Note the rhythmic, simple but strong reversed flutings that accent the general contour. Whether on a crowded desk or a tiny end-table or night-stand, there is always room for Morpheus.

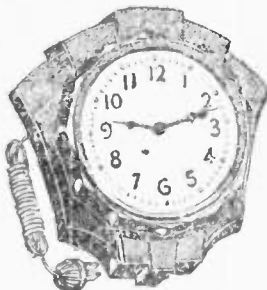
Cat. No. 6411

Our Price

\$1.95

Wingdale

Breakfast Nook, Kitchen or Wall Clock



Heavy Sculptor's Duralloy Metal

Ht. 8 1/4", Wd. 8 1/2"

Dp. 2 3/4"

Dial: White

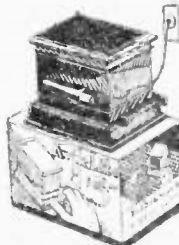
The breakfast nook or kitchen needs a practical, dirt-repelling, easily readable timepiece. Here's a real departure in wall clock silhouette. Sets and starts from the front; enclosed back, notched for electric cord; invisible wall hanger.

Cat. No. 6440 Ivory

Each, \$1.95

Cat. No. 650 Blue

"KWIK-LITE" Delivers a Lighted Cigarette When You Pull the Lever



New! Amazing! Beautiful! Nothing else like it! Interests all smokers, either men or women.

For the office, library, living room, and boudoir. A wonderful and appreciated gift, as well as fast-selling item for personal use.

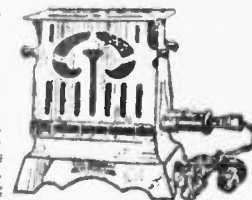
Plugs into house current. User lifts lid, fills top with

cigarettes (it holds a full pack), and pulls the lever. Kwik-Lite lights and puffs the cigarette and delivers it through the slot, ready for smoking. Fully guaranteed.

Cat. No. 5297—List Price \$3.50 **\$2.29**
Our Price

Special Toaster Value!

Ric hly 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 1/2 in. Weight—2 1/2 lbs.



Cat. No. 393 **89c**

GOLD SEAL

Automatic Water Heater

When Faucet is Turned On, Heating Element is Connected

When Turned Off, Current is Off, Also.

No Switches to Bother With—Completely Automatic

Made of the Finest Materials

1 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 110-120 Volt A.C. Also made in 220 Volt at slight additional cost.

Cat. No. 6570

\$2.25

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.

MAIL ORDERS TO 
See Terms on Page 3

Federated Purchaser Inc.

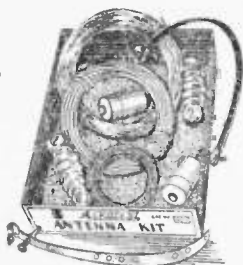
25 PARK PLACE, N. Y. C.
or to our nearest branch

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. 7/26 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

3½ in. length. Packed 100 to a box.

Cat. No. 2769

\$3.00 per 100



Smaller Quantities—4c Each

GROUND CLAMPS

Cat. No. 4251

**25 for 75c
50 for \$1.16**

GIANT Lightning Arrester

Cat. No. 4210 **15c**

\$1.80 doz.



Tested and Approved by Underwriters Laboratories. 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.

Rodale Soft Rubber Handle Screw Driver



2 Sizes.
Packed 6 of each size on a card.

Cat. No. 6490

85c for card of 12

New Grip-Tite Ground Clamp

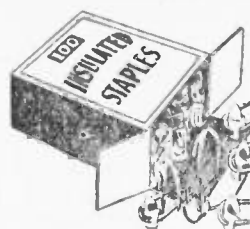
Makes a real good connection on pipe up to 2 in. diameter.

Cat. No. 6046 **\$1.00**
Box of 50



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



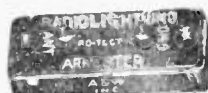
Cat. No. 4208

Entirely insulated and equipped with Fahnestock 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. 2¼ in.

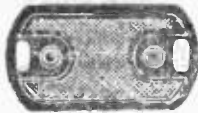
Cat. No. 5299

**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 clear reading on float.

Cat. No. 4200 **25c ea.**

Extra Beaded Floats 10c ea.

Cat. No. 4205

PORCELAIN Nailit Knobs

Two-Piece

Cat. No. 2767

\$1.00 per 100



3-In. Screw Eye Insulators

Galvanized Screw

Cat. No. 2765

\$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

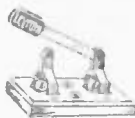
Cat. No. 6686



Our Price 10c ea.

PORCELAIN

Base Knife Switches



Insulated handle
Copper blades and
contacts
Sidget Size

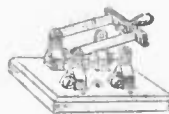
Cat. No. 4159

S. P. S. T. 95c Box of 10

Cat. No. 4177

S.P.D.T.

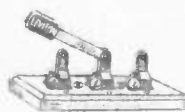
**\$1.60 Box
of 10**



Cat. No.
4179

D.P.D.T.

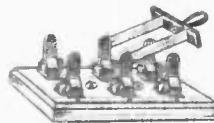
**\$2.75
Box of 10**



Cat. No. 4178

D.P.S.T.

**\$2.00 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



DRY RIBBON
LEAD-IN
STRIP

Lead-In
Strip

Cat. No. 6505

\$1.75 Box of 25

DE JUR AUTOMATIC PHONE PLUG



Cat. No. 4265

This handy phone-plug is extremely small in size. Automatic sure-grip clips inside the plug assure positive contact without the use of tools. To connect the 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. Positive
indications. For positive, for

No. 45—Pee Wee Cadmium Plated, 1 1/2 in. long.

Cat. No. 6485

30c per box of 10

No. 48B—Cadmium Plated, 1 1/2 in. long.

Cat. No. 6486

35c per box of 10



No. 21A—Lead Coated*, 2 1/2 in. long.

Cat. No. 6487

60c per box of 10

No. 21A—Lead Coated*, 3 1/2 in. long.

Cat. No. 6488

\$1.20 per box of 10

*Lead finish protects the clip against acid.

Grip-Tite Ground Clamp

Cat. No. 4212

\$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

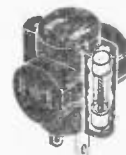


Moulded of brown bakelite end, hard-ware is nickel plated brass. Takes two sets of phone cord which are held firmly in place by set screws. Individually boxed.

Cat. No. 6957

30c

Fused Triple Outlet Plug



An ingenious plug which not only protects any delicate instruments and electrical appliances on the line, but also prevents the fuses on the main line from blowing out. Short circuits are localized so that they are quickly detected. Standard cartridge type fuses are inserted in the slots and instantly replaced when necessary. Will protect radio receivers, analyzers, meters, etc. No tools necessary.

Cat. No. 7357
Our Price, Each

25c

MAIL ORDERS TO
See Terms on Page 3

Federated Purchaser Inc.

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

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. 3263
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 \$1.20

Attachment Plugs for Same

Cat. No. 3266
25c



Bakelite Midget Cord Connector

Smallest connector made for small motors, malted milk machines, etc.



Cat. No. 3345

\$1.60 box of 10

Special Twilight

Box of 25 \$1.50

Here we offer what we consider and what our actual past experience has proven, the most plug of its kind. Well made of the finest cold mold material used for this purpose. Absolutely guaranteed. Just figure the profit our

Cat. No. 3303

Our Price, Each **6c**



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 fixtures or as a pendant switch.



Cat. No. 3321

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 3

Federated Purchaser Inc.

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

Just Think! An Electric Drink Mixer for Less Than \$1.00



A beautifully finished rapid mixer. Does everything that an expensive machine will do.

Cat. No. 429 Special, Each **98c**

Shipping carton of 12 \$11.50

Will sell like hotcakes at \$1.08.

DESCRIPTION

Size—Total overall height, 9 in. Width 3 1/4 in. Length 4 1/4 in. Clip holds any size tumbler.

Finish—Motor case is finished in ivory enamel with band in highly polished nickel. The agitator and shaft are of special polished nickel plate. The base is lettuce green enamel with rubber pads attached to both sides of bottom to keep glass from slipping and entire apparatus from scratching surface it rests upon.

Operation—For use on 50-60 Cycle 110 Volts Alternating Current only.

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

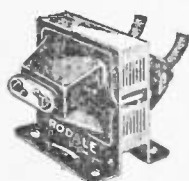
Works on dry cells or bell-ringing transformer. Same construction as the bell.

Cat. No. 3256

21c ea.



Bell-Ringing Transformer



105-125V on Primary
6-8 Volt Secondary

Cat. No. 3331
55c ea.



G. E. Keyless Intermediate Brass Socket

Makes an excellent handy test or trouble light in conjunction with our Cat. No. 4224 lamp (15c).

1/2 in. Lock Cap.

Cat. No. 7290

Our Price **15c**

NICHROME WIRE



On Card
Requires no further cutting. For repairing all electrical appliances.

One to the card.
10 to the box.

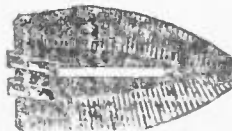
Cat. No. 3337 **14c ea.**

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 \$1.30

Fit all sizes of heaters. Best grade of coiled "Nichrome" wire used. 110-120 volts, 600 to 650 watts.

"Sun-Health" Lamp

Ultra Violet and Infra Red Rays

Supply Vitamin D—Purify

Blood—Aid Circulation and

Body Poison Elimination

Guards the body against

infection—kills germs and

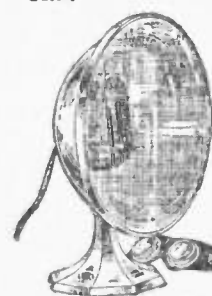
prevents disease. Frees the skin

from pimples and temporary

blemishes—produces a clear

and ruddy complexion. Stimulates the glands

for vigor and vitality and relieves nervousness.



The SUN HEALTH lamp is equipped with a 11 in. aluminum reflector protected with a heavy wire screen, mounted on a spun aluminum frame; two 5 in. x 8 mm. carbons; heavy chrome nickel resistance coil. Base and backbone are cast aluminum alloy. The lamp is very sturdy and will stand rough treatment. It is fully guaranteed for one year. Each lamp is fully equipped with goggles and carbons and is ready to plug in on either A.C. or D.C. current. Draws 9 amps.

Complete With Goggles and Carbons
EXTRA CARBONS

| Cat. No. | Type | Per Doz. |
|--------------|----------|----------|
| 6699 | Sunshine | \$1.00 |
| 6700 | Tanning | 1.25 |
| Cat. No. 505 | | \$2.95 |
| Price | | \$ |

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. Filled 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.

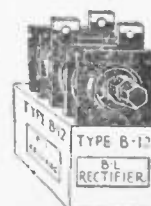
| Cat. No. | Length | Price |
|----------|--------|--------|
| 3321 | 10 ft. | \$1.00 |
| 3322 | 20 ft. | 1.10 |
| 5749 | 30 ft. | 1.20 |

BENWOOD-LENZ B12 Rectifier

For New Tobe, Muter and other A eliminators. Sterling dynamic speakers, etc.

Cat. No. 4153

\$2.50



MAIL ORDERS TO
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Federated Purchaser Inc.

World Radio History

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

Handy Tools *for the* Radio Bench

GOODELL-PRATT TOOLS

Ratchet Screwdriver Set



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.

Cat. No. 5078 **95c**

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.

INSULATED Side Cutting Pliers



Cat. No. 6824

Our Price 42c ea.

Drop forged steel; tempered; polished head. Hard black rubber insulation to withstand 5,000 volts. 8 in. long. Used by electricians and linemen.

Long Nose Pliers



Cat. No. 6825 **39c ea.**

Fully nickel plated; long, tapered, milled jaws, with cutter. 5 1/2" long.

Diagonal Cutting Pliers



Cat. No. 6826

Our Price 39c ea.

Fully nickel plated; for close cutting; has durable cutters. 5 1/2" long.

Scriber

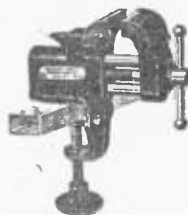


This scriber is made of a fine grade ground steel with a beautiful tapered point that is carefully tempered, ground and polished. The body is finely knurled and 5/32-inch in diameter.

Cat. No. 5084 **21c**

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**

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**

General Electric Feed Thru Switch



Toggle mechanism housed in polished bakelite casing.

Cat. No. 7878 **18c**

Grip-Type Nut Wrench



How many times have you lost time and temper trying to get at nuts in tight places or to pick up a nut dropped into a set? This ingenious tool will do both for you easily and quickly. Will grasp any shape nut and hold it fast until it is loosened or tightened. By pressing the button on top, the jaws of the wrench open and when the button is released the jaws close.

Overall length 10 1/4 in.
Polished black handle.

Cat. No. 7440 **25c**

A Necessary Adjunct to Every Serviceman's Tool Kit

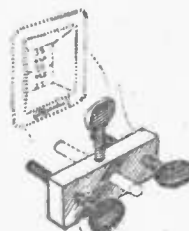


This RMA Resistor Color Code is ingeniously designed, yet extremely simple to use. It has three wheels lithographed in nine colors corresponding to a color on the resistors. Simply arrange the wheels to correspond to the resistor and you have the value at once. No charts to consult. No calculations. Made of celluloid and fits into your vest pocket. Worth its weight in gold.

Cat. No. 7432 **25c**

You can secure this Color Code FREE by ordering one of the Resistor Kits listed on page 38 or three or more dozen assorted Acratest Resistors.

Radio Shaft Clamp



The Radio Shaft Clamp is a device designed primarily to hold the shaft which bears the bulbs on a strap using a cable type of drive. It enables one to replace a dial cable very quickly. It is also useful in freeing frozen condenser and volume control shafts, for holding tuning condenser while locating holes

in the set. It also holds any standard shaft stationary while repairs or alterations are being made on the set, such as aligning the condensers or balancing a set, or doing any precision work.

The Clamp is adaptable to practically every set on the market. It is also a convenient tool to turn the volume or other controls of the set that are too tight to turn.

Cat. No. 6677

Our Price 49c ea.

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-68 "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

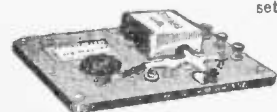
\$1.50

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.

Signal Twin Wireless Practice Set

Here is a practical, instructive and scientific toy that every modern boy wants — it's the new R-70 Signal Jr. Twin Wireless Practice Set leading toy stores everywhere are selling. Sets operate efficiently up to 1000 feet on any standard dry cell batteries. 75 feet of wire is included with each set.



Each instrument is a complete sending

and receiving unit equipped with a key, buzzer and code plate mounted on a metal base. Rubber feet on the base protects table tops. Full instructions for connecting and operating are included with each R-70. Color of the sets are maroon and gold. Box is unusually attractive.

Attractively boxed with full instructions.

Cat. No. 7302 **\$2.50**

Our Price, Per Set **\$2**

4 order blanks have been included in the center of this catalog for your convenience. Use them.

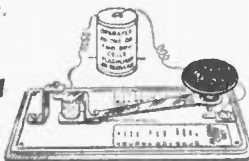
Na-Ald Code Practice Set

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.



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 37 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 100 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 37 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

MAIL ORDERS TO 
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Federated Purchaser Inc.

World Radio History

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

You need Adapters for your Lab.

Acratest

Speaker and Headset Adapters



These adapters are of the same appearance as the above and are used to connect one or more additional magnetic or dynamic or recording pick-

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 midset 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 |

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 | |
| Each | 39c |

Multi Prong Connector

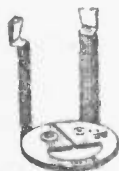
This connector is proving popular for dynamic speaker extension, microphone cables, battery cables, analyzer cable, etc. It is made up of an easy grip handle cap and a removable socket.



| | |
|-----------------------|-------|
| Cat. No. 7360—4 Prong | |
| Cat. No. 7361—5 Prong | |
| Cat. No. 7362—6 Prong | |

| | |
|-----------|------------------|
| Our Price | |
| Each | 30c |

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.

For Testing 82 Rectifier Tube

This adapter is for tube checkers and affords the testing of this tube where the filament supply is 5 volts. The switch throws a resistor into the filament circuit to reduce the voltage to 2.5 for the 82 tube.

| | |
|---------------|---------------------|
| Cat. No. 7295 | |
| Our Price | \$1.80 |



Na-Ald Analyzer Plugs and Test Adapters



All Na-ald Analyzer Plugs are molded for easy grip and strength out of the best insulating black bakelite. Na-ald know the dangers of using cheap composition. The diameter and height are calculated so that there will be no difficulty in putting the analyzer plug into sets equipped with small base tube sockets and close-dimensioned shielding. The plug has a latch actuated by a spring. This latch slips over a slot in the center stud of the adapters, preventing the adapter from slipping off until the release is pressed. This feature prevents the adapters from getting stuck in inaccessible places.

STANDARD FOR JEWELL, WESTON, DAYRAD, SUPREME and HICOCK

| | |
|---|---------------|
| Cat. No. 5887—5 Prong Analyzer Plug with Screen Grid Cap..... | \$1.80 |
| Cat. No. 7364—6 Prong Analyzer Plug with 2 Screen Grid Caps.... | \$2.10 |

Adapters for 5 Prong Analyzer Plugs

| Type | |
|---------------|--------------|
| Cat. No. 5888 | 5 to 4 prong |
| Cat. No. 7146 | 5 to 6 prong |

Adapters for 6 Prong Analyzer Plugs

| Type | |
|---------------|--------------|
| Cat. No. 7365 | 6 to 4 prong |
| Cat. No. 7366 | 6 to 5 prong |
| Cat. No. 7367 | 6 to 7 prong |

| | |
|-------------------------------------|------------|
| Our Price of Any Adapter Above..... | 72c |
|-------------------------------------|------------|

Naald Tube and Test Adapters



These adapters are extremely compact, measuring only 3/8" high and 1/2" in diameter. They are used for substituting new type tubes in old sets, remodeling tube checkers and for testing the latest tubes in set analyzers. Molded bakelite. A locator ring on top of the adapter facilitates the insertion of tubes. The proper connections are made within the adapter so that no error can be made by the user. Good connections on the prongs. 5883 cannot be used for pentode tubes.



substituting new type tubes in old sets, remodeling tube checkers and for testing the latest tubes in set analyzers. Molded bakelite. A locator ring on top of the adapter facilitates the insertion of tubes. The proper connections are made within the adapter so that no error can be made by the user. Good connections on the prongs. 5883 cannot be used for pentode tubes.

| 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. |
| 6062 | To insert a 6-prong tube into a 5-prong socket. |
| 7326 | To insert a 7-prong tube into a 6-prong socket. |

| | |
|-----------|------------------|
| Our Price | |
| Each | 60c |

Frost Phone Plug For Speakers and Headsets



A small neat plug with phosphor bronze spring contacts for instantaneous connection and disconnection of phone tips. Brass hardware with hard black fibre body.

| | |
|-----------------|------------------|
| Cat. No. 7371 | |
| Our Price, Each | 18c |

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.

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 |

Naald Special Adapters for Testing New Type Tubes

For 55 and 85 Duo Diode Detectors

This adapter is for set analyzers and tube checkers and allows the testing of each of the diode plates as well as the audio plate of these tubes. The switch throws the meter from one plate to the other.



| | |
|---------------|---------------------|
| Cat. No. 7359 | |
| Our Price | \$1.80 |

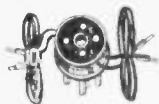
I. C. A. Loud Speaker Adapters

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.



| SINGLE TUBES | Cat. No. | Prongs | |
|--------------|----------|--------|-----------------|
| | 6942 | 4 | 20c Each |
| | 6943 | 5 | |
| | 6944 | 6 | |
| PUSH PULL | Cat. No. | | |
| | 7441 | | 40c Each |
| | 7442 | | |
| | 7443 | | |

Test Adapter for 280 Tube



Cat. No. 6963

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.

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.

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. 6956—5-prong

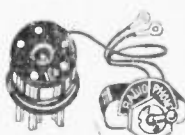
Our Price 75c ea.

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

Our Price, Each **\$1.45**

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.

Plug In Adapters

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

Our Price **29c**

Cat. No. 6090—6-Prong

Our Price **45c**

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 .25

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.

**Additional Adapters for all
Testing Purposes on Page 86**

Additional Adapters



Adapters are listed for use in testing the many new tubes which have recently appeared in the market. They are available for testing with set testers, and also tube testers. Where reference is given to certain Readrite testers, the same adapter may be used with similar testers of other manufacture. This list is very complete for all new tubes available.

Cat. No.

Our Price

7425 Used to test 2 volt series tubes in earlier model tube testers, like the No. 400 Readrite which did not have 2 volt tap at the socket but has a 224 and 227 socket. Consists of a four hole socket on a five prong plug..... **45c**

7426 A special adapter used only on Readrite cable plug applying to set testers No. 610 and 710, for testing six prong tube circuits..... **60c**

7427 A special adapter used only with Readrite Nos. 610 and 710 set testers connected to the cable plug for testing seven prong tube circuits. Consists of six hole socket with one center prong on a seven prong plug..... **60c**

5884 To test '36, '38 and '39 type tubes in '01A sockets.....

5884 To test '37 type tubes in '01 sockets.....

6962 To test '57 type tubes in '24 sockets..... **50c**

6962 To test '58 type tubes in '24 sockets.....

7428 To test '46 type tubes in '45 sockets..... **39c**

5200 To test '47 type tubes in '45 sockets..... **50c**

5200 To test '82 type tubes in '45 sockets..... **75c**

7429 To test Wunderlich type tubes in '24 sockets..... **50c**

5883 To test 4 prong tubes in 5 prong sockets.....

5884 To test 5 prong tubes in 4 prong sockets.....

5884 To test 5 prong tubes in 6 prong sockets..... **50c**

6962 To test 6 prong tubes in 5 prong sockets.....

Modernize your old set by using the new type tubes with these Adapters, saving the expense of rewiring or changing parts.

6962 To use a '57 type tube in place of a '24 tube in the detector socket only..... **50c**

6962 To use a '58 type tube in place of a '24, '35 or '51 type tubes..... **50c**

5200 To use a '47 type tube in place of a '45 tube in power stage only..... **39c**

Multiple Antenna Coupler

Now! 50 to 100 Sets on One Antenna

With this device, a single aerial will accommodate as many as 50 receivers, one coupler being used at each receiver at point of installation. It does away with the many tangled and abandoned aerials on roofs which are a fire hazard. Many of the larger cities have already banned roof aerials and house owners are looking for just such an item as the Acra-test Multiple Antenna Coupler.

This coupler is a newly developed fixed band pass circuit which automatically adjusts your set to any antenna condition. If you are using too long an antenna, the Acra-test coupler will preserve the pick-up of such an aerial but sharpen the selectivity of your receiver. It is very small and can be installed on the base-board or in the radio cabinet. Complete instructions included with each circuit.

If there are large apartment houses in your locality, you can interest their owners in this device. You can enhance the appearance of his property and remove the fire hazard by removing all the aerials for one good one with couplers for each tenant. The installation of Acra-test Multiple Antenna Couplers will pave the way for you to service the tenants receivers and thus increase your revenue. In your own store you can use the Acra-test Multiple Antenna Coupler to great advantage by operating all your demonstrators on a single aerial and at the same time explain the use of this device to your customers.

Cat. No. 6413 **\$1.75**
Our Price, Each

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

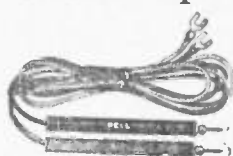
16 Wire, 50 Foot Cable For Remote Control and Public Address Work

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

30c per pair

Servicemen's Test Leads



Cat. No. 4331—

With Spade Tips

Cat. No. 6676—

With Phone Tips

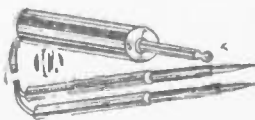
23c pair

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 |
| 7328 | | 7 | 6 ft. | .25 |
| 6587 | General Electric | 8 | 6 ft. | .25 |
| 4474 | Belden | 10 | 8 ft. | .40 |
| 6764 | General Electric | 10 | 6 ft. | .30 |
| 6765 | General Electric | 12 | 8 ft. | .45 |

EXTENSION Speaker Cords



| Cat. No. | Length | Each |
|----------|--------|--------|
| 4451 | 20 ft. | \$0.16 |
| 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.**

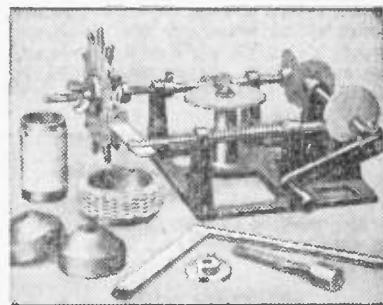
\$1.00 dozen

5 FT. SPEAKER CORD WITH LUGS AND TIPS

Cat. No. 4456 **10c ea.**

\$1.00 dozen

The Morris Improved Universal Coil Winding Machine



For winding Honeycomb, Spider Web, Solenoids, etc., in different widths and diameters, and will use wire of different gauges. An ideal machine for the experimenter and amateur.

Cat. No. 526—List Price \$7.50 **\$4.45**

Our Price

MAIL ORDERS TO **See Terms on Page 3**

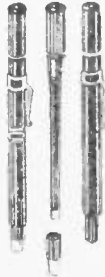
Federated Purchaser Inc.

World Radio History

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 $\frac{1}{4}$ " nut wrench, a $\frac{5}{16}$ " nut wrench, a neutralizing screw driver with $\frac{1}{4}$ " 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 are easier, quicker and more accurate to work with, are constructed of the finest quality insulating materials and are finished with highly nickel plated brass ribs. 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.

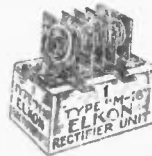
Cat. No. 4207

Our Price 45c ea.

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

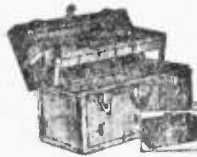
List Price \$7.00

\$3.75

The 414 Utility Chest With Automatic Cantilever Tray

Size 14x6 $\frac{1}{2}$ x6 in

Movable tray partitions. Matched hardware. Permanent embossed rule on cover.



Cat. No. 414

Our Price, Each

\$1.00

The 414 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.

Utility Chest and Cash Box with Lock and Key

Tray Has Movable Partitions and Square Base at Each End Permitting It to Be Used Out of the Box



Specifications

SIZE—Length 13 $\frac{1}{4}$ ", depth 4", width 5 $\frac{3}{4}$ ".

FINISH—Especially hard baked enamel. COLOR—Attractive Nile green.

HARDWARE—Brass plated throughout.

CONSTRUCTION—Heavy gauge cold rolled steel with electric welded flush seams. Equipped with sturdy handle and LOCK WITH KEY. Paneled top for rigidity and strength.

WEIGHT—(per chest) 2 $\frac{1}{2}$ lbs.

PACKED—12 chests per shipping carton.

SHIPPING WEIGHT—35 pounds per carton.

Cat. No. 7317

Our Price, Each

60c

Dozen \$6.50

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 $\frac{1}{2}$ V. Lamp

Cat. No. 6936

\$1.50

The I. C. A. "Short-O-Tester" is an ingenious new circuit tester containing a 2 $\frac{1}{2}$ 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.

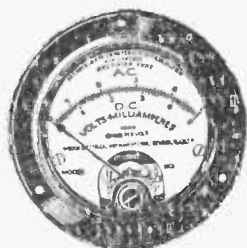
MAIL ORDERS TO 
See Terms on Page 3

Federated Purchaser Inc.

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

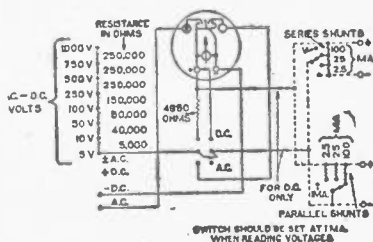
WESTON RADIO INSTRUMENTS

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 milliamperes A.C. and 50 millivolts and 1 milliamperes 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-wave 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

| Range | 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

| Volts | Ohm Scale | Resistance | Net Price |
|-------|-----------|------------|-----------|
| 4.5 | 0-100,000 | 10000 | \$8.82 |
| 15 | 0-500,000 | 1000 | 8.82 |

Model 301 D.C. Ammeters

| Range | Net Price |
|---|-----------|
| 1, 1 1/2, 3, 5, 10, 20, 30, 50 Amperes (have a drop of +- 5%) | \$5.88 |

Model 301 D.C. Voltmeters Resistance 1000 Ohms per Volt

| Range | 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 within 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

| Range | Net Price |
|-------------------------------|-----------|
| 1, 1 1/2, 2, 3 | \$7.35 |
| 5, 10, 25, 50, 100, 500, 1000 | 5.88 |

Rectifier Type—

Model 301 Voltmeters 1000 Ohms per Volt

| Range | Net Price |
|--------------|-----------|
| 3, 5, 15 | \$10.29 |
| 50, 100, 150 | 11.03 |
| 300 | 14.09 |

2000 Ohms per Volt

| Range | Net Price |
|--------------------|-----------|
| 1, 1 1/2, 3, 5, 15 | 11.03 |
| 50 | 12.86 |
| 100 | 13.60 |

Rectifier Type

301 Milliammeters

| Range | Net Price |
|---------|-----------|
| 1, 2, 5 | \$9.20 |

Model 425 Ammeters

| Range | Net Price |
|------------------------|-----------|
| 1, 1 1/2, 2, 5, 10, 20 | \$9.93 |

(Continued on next column)

Instrument Littlefuses (Low Voltage)

This line is designed especially for the protection of such delicate equipment as galvanometers, microammeters and milliammeters, radio tube testers, radio "B" circuits, small radio and rectifier tubes, etc. See also "Where to use—A Littlefuse."

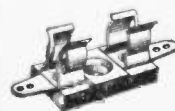


INSTRUMENT
LITTLEFUSE
Showing "Locked"
Construction.

Pats. issued and pending.

| Cat. No. | Rating | Description | Max. Resis. and Load | Aver. M.A. Load | Our Price |
|----------|--------|--|----------------------|-----------------|-----------|
| 7275 | 1/100 | Use for galvanometers, micro- and 0-1 milliammeters, 0-5 thermocouples. | 5 138 | 12 | |
| 7276 | 1/32 | 0-1 to 0-5 milliammeters, 0-5 to 0-15 m. a. thermocouples. | 15 65 | 12 | |
| 7277 | 1/8 | 0-10 to 0-50 milliammeters, 0-50 to 0-100 m. a. thermocouples. Radio "B" circuits in auto and battery sets. Underwriters approved. | 100 16 | .09 | |
| 7278 | 1 | 0-500 to 0-750 milliammeters, 0-600 to 1 amp. thermocouples. Small rectifiers. | 1000 36 | .06 | |

Single Pole Mounting for Littlefuses



For Instrument Littlefuses. Black moulded bakelite base 1 1/2 x 3 x 3/16". Tinned, shakeproof 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. 7279

Our Price **9c**

(Continued from preceding column)

Model 425 Milliammeters

| Range | Net Price |
|---------------|-----------|
| 120, 250, 500 | \$11.03 |

Model 476 A.C. Voltmeters

| Range | 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

| Range | Net Price |
|--------|-----------|
| 15, 15 | \$22.05 |

Model 476 A.C. Ammeters

| Range | Net Price |
|------------------------|-----------|
| 1, 1 1/2, 2, 5, 10, 20 | \$5.88 |
| 30, 50 | 7.35 |

Model 476 Milliammeters

| Range | Net Price |
|---------------------------|-----------|
| 15, 25, 50, 100, 250, 500 | \$5.88 |

MAIL ORDERS TO 
See Terms on Page 3

Federated Purchaser Inc.

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

THE FAMOUS JEWELL

Trio Panel Mounting Instrumentas



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, $3\frac{1}{2}$ in. case diameter, $3\frac{1}{4}$ 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. | List Price | Our Price |
|--|------------|-----------|
| 314 0-8, 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 | 11.39 |
| 455 0-750 volts | 19.00 | 13.97 |
| 519 0-1000 volts | 22.50 | 16.54 |
| 457 0-1500 volts | 28.50 | 19.96 |
| 458 0-2000 volts | 34.50 | 23.55 |
| 459 0-3, 5, 10, 15, 25, 50, 100, 150, 250, 300, 500 milliamperes | 7.50 | 5.51 |
| 160 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 |
| 461 0-1, 1.5, 2, 3, 5, 10 and 15 amperes | 7.50 | 5.51 |
| 165 50-0-50 galvanometer | 9.00 | 6.61 |

The above meters can also be furnished with metal cases, $3\frac{1}{4}$ in. flange, 3 in. case at same prices. Specify Type 54 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 | | \$8.38 |
| 479 1.5 | | 9.38 |
| 480 2 | | 9.38 |
| 481 5 | | 9.88 |
| 482 0-500 Microammeter | | 10.88 |

Voltmeters

| Cat. No. | 1000 OHMS PER VOLT | Net Price |
|----------|--------------------|-----------|
| 483 5 | | \$10.50 |
| 484 15 | | 10.50 |
| 485 25 | | 11.25 |

These voltmeters also supplied 2000 ohms per volt at \$1.88 additional.

JEWELL

Pattern 68 Radio Frequency Instruments

PATTERN 68 RADIO FREQUENCY INSTRUMENT

Pattern 68 furnished in bakelite cases, flush type only. Flange diameter, $3\frac{1}{2}$ in. Case diameter, $3\frac{1}{4}$ in. Approximate shipping weight, 3 lbs.

| Cat. No. | List Price | Our Price |
|---|------------|-----------|
| 166 0-5, 1, 1.5, 2, 2.5, 3, 5, 10, 15 amperes | \$13.35 | \$9.86 |
| 467 0-100 galvanometer | 18.00 | 11.02 |

JEWELL

Pattern 78 A.C. Instruments

PATTERN 78 A. C. INSTRUMENTS

| Cat. No. | List Price | Our Price |
|---|------------|-----------|
| 468 0-3, 5, 10, 15, 20 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 | 9.93 |
| 472 0-25, 50, 100, 200, 300, 500 milliamperes | 7.50 | 5.51 |
| 473 0-1, 2, 3, 5, 10, 15 amperes | 7.50 | 5.51 |

The above meters can also be furnished in metal cases $3\frac{1}{4}$ 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 $1\frac{1}{2}$ -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 |
|---|------|------------|-----------|
| 309 Pat. 98 Ohmmeter, with either 0-1000, 0-3000, 0-10,000 or 0-30,000 ohm ranges, including battery and test | | \$15.50 | \$12.13 |
| 510 0-100,000 ohms | | 10.50 | 14.54 |
| 512 0-5,000-50,000 ohms (double scale) | | 19.50 | 14.54 |
| PAT. NO. 89 VOLTMETER | | | |
| 519 0-30-300-600 volts (triple range), 1000 ohms per volt, with test leads | | 25.00 | 18.75 |

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 250 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.: 0-4.5 amperes; 0-20-100 milliamperes; 0-4-8-160-800 volts. D.C.: 0-12-40-120 milliamperes; 0-6-12-30-60-120-200-800 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, 3.5 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



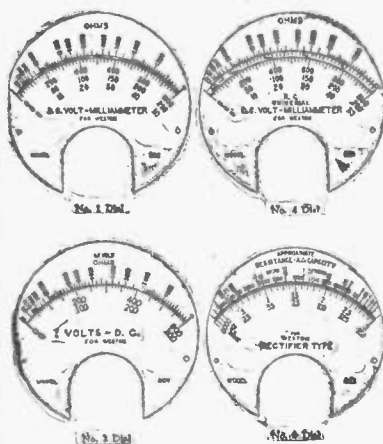
Dials, Shunts and Multipliers for Meters

To be used with Weston Type 301 (Cat. No. 521) or Jewell Part 88 (Cat. No. 460) Milliammeters

By the use of these shunts and multipliers, many combinations of current and voltage values for both A.C. and D.C. can be measured and all easily read on the No. 4 Dial. The use of three pole switches in connection with the A.C.-D.C. circuit shown gives you instant selection of any of the values that you have incorporated in your meter box. This circuit specifies the most popular values, but you may replace them with others—to suit your need. Both series shunts and series multipliers may be used in the circuit.

With each circuit blueprint we furnish special insert leaves to give you a wide combination, such as series shunts, multipliers, low range d.c. ohms, capacity, etc. The accessories listed below are very small in size and cost, yet very accurate and made of the best materials.

Meter Dials



Type D-1 { For Weston Cat. No. 6799 } **45c**
 { For Jewell Cat. No. 7331 } Each

For the 1 mil D.C. with 27 ohm internal resistance (27 millivolt). Has three scale readings and an ohm scale 0 to 100,000 using a 4½ volt battery.

Type D-2 { For Weston Cat. No. 6800 } **45c**
 { For Jewell Cat. No. 7332 } Each

Same as D1 except for the lower scales.

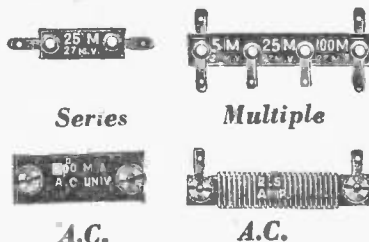
Type D-3 { For Weston Cat. No. 6801 } **45c**
 { For Jewell Cat. No. 7333 } Each

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 D-4 { For Weston Cat. No. 6802 } **45c**
 { For Jewell Cat. No. 7334 } Each

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 4½ 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.

A. C. - Shunts - D. C.



"VAN" Shunts are very small and compact. They are made of the best non-corrosive alloy wire. Its temperature coefficient being practically nil at 900° F. D. C. shunts are of two types and two voltages. Single or parallel and several connected in series. Each type having their advantages and disadvantages, preference being given to parallel connections using multipolar switches. Voltages are 27 millivolt (for the mil. D. C. mod. 301 with internal resistance of approx. 27 ohms) and 50 millivolt for the D. C.—A. C. Universal with an internal resistance of 50 ohms.

In the A. C. Shunt it is necessary to create a five volt drop, which is the lowest voltage range of the A. C.—D. C. Universal meter, therefore it is not advisable to use them in circuits of less than 100 volts. Shunts running into Amperes should not be connected externally to the binding post terminals.

Accuracy of shunts + or - 2%. Single shunts cannot be used in series. When using series shunts always connect the end of the largest shunt direct to the meter. The series shunt using a single pole switch is the simplest, but an extra binding post and switch contact will be necessary if the 1 mil. scale is desired also.

| Cat. No. | Type | Description | Our Price |
|----------|-------|--|-----------|
| 6803 | 27-DO | For 1 Mil. D. C. Meter, 27 M. V. Furnished in 5, 10, 25, 50, 100 and 500 milliamperes. | \$.90 |
| 6804 | 50-DO | For Universal Weston Model 301 Meter, 50 M. V. Furnished in 5, 10, 25, 50, 100 and 500 milliamperes. | .90 |
| 6805 | 27-S | 10-100 Mil. Series Combination. For 1 D. C. meter, 27 M. V. | 1.50 |
| 6806 | 50-S | 5-25-100 Mil. Series Combin. D. C. for Universal Model 301, 50 M. V. | 1.80 |
| 6807 | 5V-AC | 100, 500 Mills. and 2½ amps. | 1.50 |

Blue Print

A. C.—D. C. Universal Hookup, with set of insert leaves.

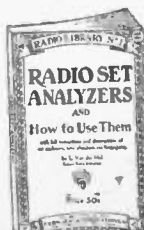
Cat. No. 6808 **Our Price 25c Complete**

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

Copper Oxide Rectifier For D. C. Meter Conversion

Size, ½ in. x ½ in.

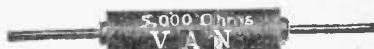


Make a Rectifier Type Meter from your present 0-1 D.C. milliammeter by using this rectifier. This will make an A. C. voltmeter up to 1,000 volts by the use of multipliers, which can be obtained from us. Rectifier is small enough to install in meter, if desired. Curve and diagram furnished.

Cat. No. 6675

Our Price \$2.95

Multipliers



These multipliers are of the pigtail type, very lightweight, have no metal end caps, well insulated and may be mounted very close together. Resistance change is less than ½ of 1% plus or minus under ordinary temperature. Rated 1 watt. Accuracy 2% plus or minus. Size ¼" x 1½" exclusive of pig-tails.

| Cat. No. | Ohms | Our Price |
|----------|-----------|-----------|
| 6784 | 4,950 | \$.60 |
| 6785 | 5,000 | .60 |
| 6786 | 10,000 | .60 |
| 6787 | 40,000 | .75 |
| 6788 | 45,000 | .75 |
| 6789 | 50,000 | .90 |
| 6790 | 95,000 | .90 |
| 6791 | 100,000 | 1.20 |
| 6792 | 200,000 | 1.20 |
| 6793 | 245,000 | 1.20 |
| 6794 | 250,000 | 1.80 |
| 6795 | 500,000 | 1.80 |
| 6796 | 600,000 | 2.10 |
| 6797 | 750,000 | 2.10 |
| 6798 | 1,000,000 | 2.10 |

Bakelite Meter Mounting Panel and Brackets

By means of these brackets and panel, any Jewell or Weston 3¼" flush type meter may be mounted on instrument panel or over test bench for quick reference. Brackets are made so that meter can be de-mounted in a jiffy for a portable test. Prevents the breakage and injury of delicate instruments.



Set of hardware, consisting of 2 sets of brackets and 2 metal binding posts,

Cat. No. 7310 **25c**
 Per Set of 4 4 x 3¼" black bakelite panel with 2½" hole.

Cat. No. 7311 **10c**
 Our Price, Each Non-removable top bakelite Binding Posts.

Cat. No. 5678 **10c**
 Our Price Per Pair

MAIL ORDERS TO **Federated Purchaser Inc.**
 See Terms on Page 3

Federated Purchaser Inc.
 World Radio History

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

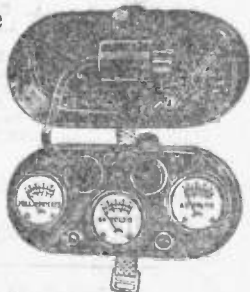
The New Readrite

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. volt-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, hum, 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.



PANEL TYPE

Cat. No. 487

List Price \$6.50

\$3.82

CASE TYPE

Cat. No. 486

List Price \$7.50

\$4.41



Readrite Customer Tube Tester No. 430

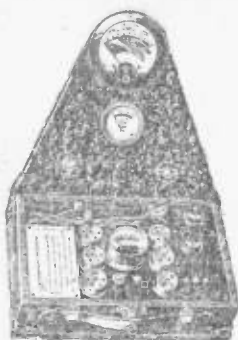
\$23.52

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. 408 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. 900 Complete

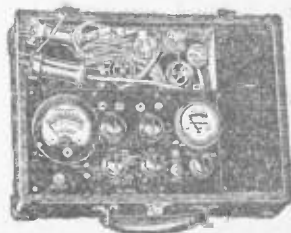
Net \$13.23

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.

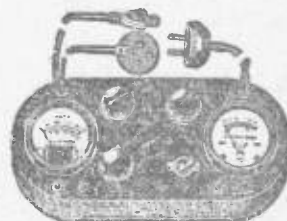
The No. 1000 Tester combines the very latest method into one instrument for testing resistances, continuity and capacity of radio receiving sets. The 3 1/4" D. C. precision meter has full scale deflection of one m. a. The lower scale is divided into kilohms, .003 to 3. This scale arrangement makes easy 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

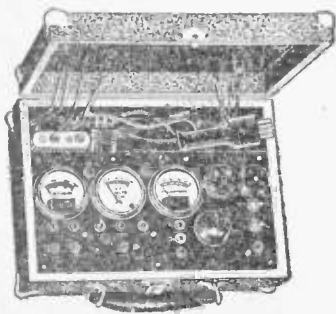
\$8.82

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

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 10½x3½x8.

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

Electric Extension Lamp Cord



Cat. No. 7304

Our Price, Each **15c**
Per dozen **\$1.50**

8 feet of cotton parallel wire with a live rubber attachment plug.

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 '80 type tubes.

Cat. No. 406

Our Price **\$14.70**

Tube and Short Tester Combined

The No. 407 tube tester combines with the No. 406 tester 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

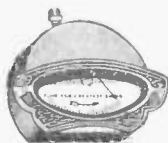
Our Price **\$17.64**

No. 405 Tube Tester is similar to No. 406, but has a two scale meter and 4½ volt grid battery.

Cat. No. 405

Our Price **\$14.70**

Visual Tuning Meter



Cat. No. 6762

Our Price ... **88c**

Less Escutcheon

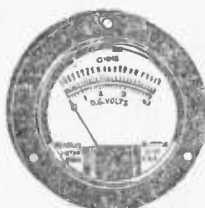
Escutcheon Plate as shown

Cat. No. 7330

Our Price ... **15c**

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.

READRITE Resistance Meter



No. 501 Resistance meter is used in above ohmmeter. Furnished 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 resistance to be measured, are connected in series with meter. Used for testing resistances in radio receiving sets, and circuits generally. Fine for continuity tests.

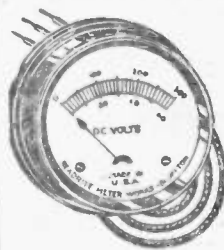
Cat. No. 5389

List Price, \$2.50

Our Price \$1.47

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. | Type | 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... | 5.00 | 3.00 |

With 2½ in. Base

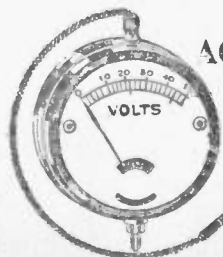
| | | | |
|------|---------------------------------------|------|------|
| 5383 | Type 349—0-300 Volts... | 3.00 | 1.80 |
| 5384 | Type 246P—0-60-300 Volts, 92,640 Ohms | 5.00 | 3.00 |

A.C.-D.C. VOLTMETERS

| Cat. No. | Type | List Price | Our Price |
|----------|---|------------|-----------|
| 5385 | For testing A.C. 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 |

ACCURATE

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 |

New Heights of perfection

reached with the

Acratone AUTO-RADIO

AFTER months of experimenting, ACRATEST 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 ACRATONE AUTO RADIO for less than \$50 completely installed, and still double your investment! Despite the extremely low price the ACRATONE has the following features:

Direct control—steering column or dash mounting.

Five Tubes—2 RF Pentode Amplifiers No. 39

1 Tetrode Detector No. 36

1 Triode A.F. Amplifier No. 37

1 Pentode Output Stage No. 41

3 Tuned circuits—litz coils—high gain—fully shielded. Sensitivity—power—tone quality.

The new 41 power tube—indirect heater pentode—assures wonderful quality and ample power on only 135 volts (3 blocks of B Battery).

Low battery consumption, only 20 M.A.

Full range Super Dynamic Speaker, properly baffled especially matched to output of set—equipped with shielded cable and plug—instantly connected.

Shielded battery cables made up in plug for quick installation.

Smooth vernier dial with restful green scale illuminated for quick station finding.

Mounting brackets provided for either steering column mounting or for dash and floor installation.

Heavy steel battery box ample for 3 heavy duty blocks of B Battery.

Shipping Weight Complete—42 lbs.

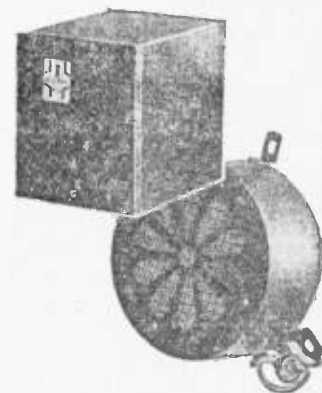
New Scientific Refinements Bring —GREATER VOLUME! —CLEARER TONE! —WIDER RANGE!

A highly perfected 5-tube chassis, designed by famous engineers specializing in Auto Radios, incorporating the newest advances plus many exclusive features making this the outstanding Auto Radio of all time! Clarity and full tone assured through the use of a full sized, full powered Dynamic Speaker!

Super - dynamic speaker, enclosed in a cylindrical case matching the itself.

Substantial metal battery box for "B" batteries is also furnished.

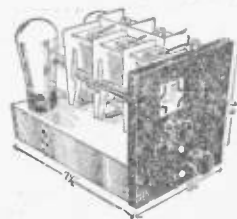
11-Piece suppressors of finest quality are furnished with the set.



The Receiver

The ACRATONE Automobile Radio is a super-sensitive 5 tube improved radio frequency receiver employing new type auto radio tubes of low current consumption.

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 ACRATONE Auto Radio is the most compact on the market. It measures only 5 1/4 in. wide, 7 1/2 in. long and 6 1/2 in. high, and weighs 7 lbs. The Magnavox Dynamic Speaker is 7 1/2 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.

The set is fully enclosed in a handsome black crackle finish metal box. Has illuminated dial and direct control.



Cat. No. 89



LICENSED

\$24.50
Complete
Tubes, Suppressors, Battery Box & Antenna

Complete—Nothing Else to Buy

Here is what you get for \$24.50!

- 1—Acratone 1933 Auto Radio.
- 1—Magnavox Matched Dynamic Speaker.
- 5—Sylvania Tubes.
- 3—45V. Large B Batteries.
- 1—Complete Suppressor Kit.
- 1—Ward Auto Antenna.
- 1—Steel Battery Box.
- 2—Shielded Cables.
- Brackets, Screws, Nuts, Etc.

The receiver is readily attached, by means of the brackets furnished, to the steering column of the car, thus avoiding the necessity of marring or defacing the car. There are no cumbersome or fussy flexible cables—the set is tuned in directly like any other receiver. An illuminated dial enhances 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.



Wherever you are . . . in the city or in the country . . . whether you are driving or are parked . . . this marvelous Auto Radio will provide the Pick of the Air for your entertainment!

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 | Set | Model | Cat. No. | Price |
|---|-------|----------|--------|---|-------|----------|-------|
| A | | | | E | | | |
| A.C. DAYTON (O), Navigator | | 2560 | \$2.95 | EARL (O) 31, 31S, 32, 32S, 33, 33S, 24, 41, | | 3522 | 3.00 |
| ALL AMERICAN (LYRIC) (D), 90, 93, 94, 95 | | 6922 | 3.75 | 55, 56 | | 2657 | 3.75 |
| ALL-AMERICAN (LYRIC) (D), Model D.... | | 7219 | 3.95 | EARL (O), 55, 56 | | 5829 | 3.25 |
| AMRAD (O), Bel Canto Series 81..... | | 2550 | 3.40 | ECHOPHONE (O), 8 Tube..... | | 5855 | 3.85 |
| APEX (D), 36, 37..... | | 6995 | 4.50 | EDISON (O), R4 | | 6943 | 3.50 |
| APEX (D), 10 Series Supers..... | | 7005 | 3.75 | EDISON (D), R6..... | | 6998 | 2.45 |
| APEX (D), 20 Series Supers..... | | 6250 | 1.95 | EDISON (D), R2, C2 Plate Trans..... | | 6993 | 3.50 |
| ATWATER KENT, 66 Plate Transformer.... | | 7221 | 5.95 | EDISON, R1, R2, C2 Plate Transformer.... | | 6026 | 3.50 |
| ATWATER KENT, 66 Filament Trans..... | | 7220 | 3.75 | EVEREADY (O), 30 | | 2617 | 2.85 |
| ATWATER KENT (D), 37 38..... | | 2642 | 1.95 | EVEREADY (O), 40, 50 | | | |
| ATWATER KENT (D), 55, 55C..... | | 6013 | 4.25 | F | | | |
| ATWATER KENT (D), 60, 60C..... | | 7007 | 4.75 | FADA, 35 | | 7226 | 3.95 |
| ATWATER KENT (D), H1, H2, L1, L2..... | | 7008 | 3.50 | FADA, 43 | | 7227 | 3.95 |
| ATWATER KENT (D), 82, 85..... | | 7009 | 3.50 | FADA, 16, 17 | | 7228 | 3.95 |
| ATWATER KENT (D), 82F, 85F..... | | 7010 | 4.50 | FADA, 42, 44, 46, 47..... | | 7229 | 3.95 |
| ATWATER KENT (D), 84 (Early and Late). | | 7011 | 3.50 | FADA, 50, 70, 71, 72 (420 Electric Unit).... | | 7230 | 3.95 |
| ATWATER KENT (D), 84F (Early and Late) | | 7012 | 4.50 | FADA, 50, 70, 71, 72 (180 Electric Unit).... | | 7231 | 2.95 |
| ATWATER KENT (D), 80F, 83F..... | | 7013 | 3.50 | FADA, 75, 77 | | 7232 | 3.95 |
| ATWATER KENT (D), 80F, 83F..... | | 7014 | 4.50 | FADA, 45 | | 7233 | 3.95 |
| ATWATER KENT (D), 87, 89, 89P..... | | 7015 | 4.00 | FADA (D), Special | | 6786 | 3.95 |
| ATWATER KENT (D), 89F..... | | 7016 | 4.95 | FADA (D), 10..... | | 5865 | 3.50 |
| B | | | | FREED (O), Model 55, 56, 60 Cycle..... | | 2402 | 2.75 |
| BRANDES (O), B10, B11 | | 5421 | 1.95 | FREED (O), Model 78, 78S, 79, 79S, 90, 95, 65 | | 3738 | 4.25 |
| BRANDES (O), B15, 16..... | | 5504 | 4.70 | 60 Cycle | | | |
| BOSCH (D), 60 | | 6552 | 3.95 | FREED-EISEMANN (O), Model NR60, 60 | | 2410 | 3.95 |
| BOSCH (D), 29, 825..... | | 6996 | 4.50 | Cycle | | | |
| BOSCH, 28 | | 6557 | 6.50 | FREED-EISEMANN (O), Model NR57, 60 | | 2411 | 4.50 |
| BOSCH, 48 | | 3741 | 4.25 | Cycle | | | |
| BOSCH, 58 | | 6551 | 3.95 | FREED-EISEMANN (O), NR85, 60 Cycle.... | | 2412 | 4.50 |
| BREMER-TULLY, S-14, S-21, S-81, S-82.... | | 7225 | 3.95 | FREED-EISEMANN (O), Model 16, 60 Cycle, | | 2414 | 2.25 |
| BREMER-TULLY, 640, 641 | | 7224 | 3.50 | B and C Eliminator..... | | 2662 | 4.50 |
| BRUNSWICK (O), 31, 32, Part No. 755.... | | 7202 | 3.50 | FREED-EISEMANN (O), NR73..... | | 2661 | 4.25 |
| BRUNSWICK, 15 | | 7223 | 3.95 | FREED-EISEMANN (O), NR80..... | | 7246 | 2.95 |
| BRUNSWICK, 21, 31 | | 7223 | 3.95 | FRESHMAN, G Old Type Trans..... | | 7247 | 2.95 |
| BRUNSWICK (D), Models "R" and "S" 14, | | | | FRESHMAN, K | | 6842 | 4.85 |
| 21, 31, 32 cycle | | 7017 | 3.75 | FRESHMAN (D), ERAC | | | |
| | | 7018 | 4.75 | FRESHMAN (O), Model G-60-S, 60 Cycle | | 2419 | 2.25 |
| BRUNSWICK (O), 29, 15-32 (4-224, 2-245, | | 3730 | 2.85 | (Plate) | | | |
| 1-280) without case | | | | FRESHMAN (O), Model G-60-S, 60 Cycle | | 3724 | .95 |
| C | | | | (Filament) | | | |
| COLONIAL (D), 31 | | 2632 | 5.50 | FRESHMAN (O), EAC | | 2553 | 3.50 |
| COLONIAL (O), 32 AC..... | | 5045 | 3.75 | FRESHMAN (O), Filament Transformer.... | | 2530 | 3.50 |
| COLONIAL (O), 33..... | | 5046 | 4.50 | FRESHMAN (O), N, 25 cycles..... | | 2634 | 5.50 |
| COLONIAL (O), 47 | | 7198 | 2.50 | FRESHMAN (O), Q, 60 cycle..... | | 2626 | 3.85 |
| COLUMBIA (D), SG8..... | | 6997 | 3.95 | FRESHMAN (O), QD 60 cycle..... | | 2628 | 4.50 |
| COLUMBIA (O), 6J2..... | | 5508 | 3.95 | FRESHMAN (O), QD 25 cycle..... | | 2629 | 6.00 |
| COLUMBIA (O), 940..... | | 5504 | 4.85 | FRESHMAN (O), N, 60 cycles..... | | 2644 | 5.50 |
| COLUMBIA (O), C10..... | | 5507 | 3.95 | FRESHMAN (O), Q, 25 cycle..... | | 2627 | 5.50 |
| COLUMBIA (O), 930, 931..... | | 5512 | 6.85 | G | | | |
| COLUMBIA (O), 300 | | 5510 | 5.25 | GENERAL ELECTRIC (D), T41..... | | 3531 | 1.80 |
| COLUMBIA (O), 300, 25 Cycle..... | | 5511 | 6.85 | GEN. ELECTRIC (O), H31, H51, H71..... | | 2676 | 1.80 |
| COLUMBIA (O), 950 | | 2656 | 4.65 | GRAYBAR (O), 700, 770, 900..... | | 2676 | 1.80 |
| COLUMBIA (O), C1, 2, 3, 4, 25 Cycle..... | | 5718 | 6.85 | GREBE (O), SK4 | | 5044 | 3.95 |
| CROSLEY (D), 40S, 41S, 42S, 82S..... | | 7019 | 4.75 | GREBE (O), 1931 Series with Clarostat Line | | 6652 | 3.75 |
| CROSLEY (O), 41A, 42..... | | 5846 | 1.25 | Ballast | | | |
| CROSLEY (O), 706 | | 5846 | 1.25 | K | | | |
| CROSLEY (O), 608 | | 5075 | .95 | KING (O), Power Pack..... | | 6504 | 4.50 |
| CROSLEY, 47, 48, Part No. 21432..... | | 7213 | 1.50 | KELLOGG (D), 523, 526..... | | 7000 | 4.50 |
| CROSLEY, 59, Part No. 22413..... | | 7214 | 1.50 | KENNEDY, 26, 34 | | 7234 | 3.95 |
| CROSLEY, 120, Part No. 20150..... | | 7215 | 2.50 | KENNEDY (D), 10, 20, 30 Series..... | | 6753 | 2.25 |
| CROSLEY, 53, 54, 57, 58, Part No. 20553.... | | 7216 | 1.50 | KNIGHT (D), P. T. and Choke..... | | 2529 | 4.50 |
| CROSLEY, 122, Part No. 22356..... | | 7217 | 2.50 | KOLSTER INTERNATIONAL, K90 | | 7235 | 3.95 |
| CROSLEY, 30S, Part No. 6682..... | | 7218 | 2.50 | KOLSTER INTERNATIONAL, K80 | | 7236 | 3.95 |
| E | | | | (Continued on next page) | | | |
| EARL (O), 21, 22-25 cycle..... | | 2658 | 2.75 | | | | |

Code: (O)=Original Manufacturer's Model; (D)=Duplicate; (R)=Replacement.

MAIL ORDERS TO 
See Terms on Page 3

Federated Purchaser Inc.

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

POWER TRANSFORMERS

(Continued from page 96)

| Set | Model | K | Cat. No. | Price |
|---------------------------|---|---|----------|-------|
| 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 | 4.85 |
| KOLSTER (O) | K44 | | 5506 | 6.75 |
| KOLSTER (O) | K25, 27 | | 5718 | 6.85 |
| KOLSTER (O) | K24 | | 2655 | 5.50 |
| M | | | | |
| 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, 72 Filament and Plate transformers in one can | | 2684 | 4.75 |
| MAJESTIC (O) | 90B, 100B | | 5872 | 4.75 |
| MAJESTIC (O) | 180 Filament | | 5458 | 1.25 |
| MAJESTIC (O) | 180 Plate | | 5460 | 1.25 |
| MAJESTIC (O) | 70 Series Filament | | 5461 | .90 |
| MAJESTIC (O) | 70 Series Plate | | 5468 | .90 |
| 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 |
| P | | | | |
| PEERLESS (O) | Courier, 65 | | 2615 | 2.75 |
| PEERLESS (O) | K70, 20, 22 | | 2569 | 4.85 |
| PHILCO (O) | 20, 220 | | 4321 | 2.80 |
| PHILCO (O) | 65 | | 2600 | 2.80 |
| PHILCO (O) | 70 | | 6248 | 2.80 |
| PHILCO (O) | 76, 77 | | 6242 | 2.80 |
| PHILCO (O) | 82, 86 | | 6241 | 2.80 |
| PHILCO (O) | 87 | | 2604 | 2.80 |
| PHILCO (O) | 90 (using 245 tubes) | | 6247 | 2.80 |
| PHILCO (O) | (using 247 tubes) | | 6247 | 2.80 |
| PHILCO (O) | 95, 96, 296 | | 6246 | 2.80 |
| PHILCO (O) | 111, 112, 211, 212 | | 6244 | 2.80 |
| PHILCO (O) | 500 Series | | 2620 | 2.80 |
| PHILCO (O) | 500 Series, 25 cycle | | 2621 | 3.95 |
| POLYDYNE (O) | Model Q, 60 cycle (222 Tube) | | 2423 | 3.25 |
| R | | | | |
| 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 | 2.25 |
| R C A (O) | 48, 42 | | 2531 | 1.80 |
| R C A (D) | 60, 62 | | 2566 | 2.25 |
| R C A (O) | 60, 62, 25 Cycle | | 2677 | 3.75 |
| R C A (O) | 66 | | 2683 | 3.50 |
| R C A (O) | 44-46 for 220 V., A.C. | | 2676 | 1.80 |
| R C A (O) | 80, 82, 86, Part No. 61144 | | 2676 | 1.80 |
| R C A (O) | 104 Speaker | | 6009 | 4.50 |
| R C A | 64, 67 | | 2675 | 9.45 |
| R C A SUPERETTE (O) | | | 6919 | 1.95 |
| R C A THERAMIN (O) | | | 6771 | 3.95 |
| R C A -VICTOR (O) | R35, R39, RE57 | | 6769 | 1.80 |
| R C A -VICTOR (O) | RE14, RE15 | | 2531 | 1.80 |
| R C A (O) | 34, 35, 39, 220 V. A. C., Part No. 62825 | | 7294 | 2.95 |
| R C A -VICTOR (O) | 50, 55 | | 7424 | 3.95 |
| R C A (O) | 80, 82, 86, 25 cycle, Part No. 62491 | | 7312 | 3.00 |
| S | | | | |
| SEARS ROEBUCK (O) | Power Pack | | 6504 | 4.50 |
| SILVERTONE (O) | Power Pack | | 6504 | 4.50 |

| Set | Model | S | Cat. No. | Price |
|------------------------------|--|---|----------|-------|
| 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, 564, 570, 750, Part No. B2538 | | 7001 | 3.85 |
| 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, 636 | | 3722 | 4.25 |
| STROMBERG-CARLSON (D) | 10, 10A, 11 | | 5850 | 5.25 |
| STROMBERG-CARLSON (D) | 846 | | 5601 | 4.50 |
| STROMBERG | 12, 14 | | 7243 | 3.95 |
| STROMBERG-CARLSON | 19, 20 | | 7244 | 3.95 |
| STROMBERG-CARLSON | 29 | | 7245 | 3.95 |
| STROMBERG CARLSON (D) | 40, 41 | | 2663 | 4.50 |
| T | | | | |
| TEMPLE (O) | 8-60, 8-80, 8-90, 8-61, 8-81, 8-91 | | 5583 | 3.75 |
| U | | | | |
| U. S. TELEVISION & RADIO (O) | Giorlatone | | 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 |
| V | | | | |
| VICTOR (O) | R-32, R45, 75 | | 6830 | 2.90 |
| VICTOR (O) | R-32, 25 Cycles | | 2554 | 3.75 |
| VICTOR (O) | 14, 15, 17 | | 2531 | 1.80 |
| VICTOR (O) | 34, 35, 39, 57, Part No. 61730 | | 5456 | 1.80 |
| VICTOR (O) | RE73, Part No. 6173 | | 2676 | 1.80 |
| VICTOR (O) | RE14, 15, 220 V. A.C., Part No. 62828 | | 7293 | 2.95 |
| W | | | | |
| WESTINGHOUSE (O) | WR4 | | 2531 | 1.80 |
| WESTINGHOUSE (O) | WR5, WR6, WR7 | | 2627 | 2.25 |
| Z | | | | |
| ZENITH (D) | XE9 | | 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 | 4.25 |
| ZENITH | 9 | | 6841 | 3.25 |
| ZENITH (O) | ZE7 Plate and Rectifier filament transformer | | 5793 | 2.25 |

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 | |
| Atwater Kent | 41, 1st audio | 6896 | |
| Atwater Kent | 41, 2nd audio | 6897 | |
| 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 |
| Kolster | K20, K21 | 5587 | 1.95 |
| Philco | See Complete Philco Listing on Page 19. | | |
| R C A | 17, 18, 33, 51 | 2512 | 1.40 |
| R C A -Victor | 41, 47, 66 | 5625 | .60 |
| R C A | All, Push-pull | 2566 | .49 |
| Sonora | Input Transformer | 7266 | .95 |
| Stromberg Carlson | 846 Audio & Input | 6517 | 2.75 |
| Victor | All | 2531 | .29 |
| Victor | All early models | | |
| Zenith | Push-pull pack | 5744 | .59 |
| | 50, 60, 79 series | | |
| | Interstage | 6585 | 2.75 |

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 |
|--|--------|----------|----------|-------|--|--------|----------|----------|-------|
| A | | | | | Freshman, Q | | 3120 | 1.50 | |
| Atwater Kent, 66 | | | 7055 | 3.95 | Freshman, M12 (171 tube) | | 5013 | 3.50 | |
| Atwater Kent, 31 | | | 5001 | 1.85 | Freshman, N11 (250 tube) | | 5014 | 3.50 | |
| Atwater Kent, 40 (condenser only) | | | 5395 | 1.35 | Freshman, Model G-60-S, 60 Cycle | | 2432 | 2.40 | |
| Atwater Kent, 44 (Condenser and Choke) | | | 7170 | 1.50 | Freshman, Model N-60-S, 60 Cycle | | 2433 | 3.75 | |
| Atwater Kent, 46 (condenser only) | | | 5396 | 2.75 | Freshman, Model Q, 2Q, 3Q, 60 Cycle | | 2434 | 2.75 | |
| Atwater Kent, 55, 55C, 55F | | | 6513 | 4.25 | Freshman, Model QD, 60 Cycle | | 2439 | 2.75 | |
| Atwater Kent, 60 | | | 7054 | .50 | Freshman, Model M-60-S, 60 Cycle | | 2440 | 3.10 | |
| Atwater Kent, 66 | | | 7055 | .70 | Freshman, ABC Elim., 60 Cycle | | 2442 | 1.60 | |
| Atwater Kent, 70 | | | 7056 | .50 | | | | | |
| Apex, 46, 46A | | | 6834 | 1.85 | G | | | | |
| Apex, 47, 47A | | | 6835 | 1.85 | Grebe, AC6, complete with resistors | | 6624 | 3.95 | |
| Apex, 41 | | | 6836 | 2.25 | Grebe, SK | | 6924 | 1.50 | |
| Apex, 48, 48A | | | 6837 | 2.25 | Greene-Browne "B" | | 7287 | .95 | |
| Apex, 28A, 28AX | | | 7248 | 2.95 | | | | | |
| B | | | | | K | | | | |
| Bosch, 501-2-3 | | | 7169 | 2.75 | Knapp, A Elim. Condenser | | 5009 | 1.35 | |
| Bosch, 28 | | | 6772 | 2.75 | Kodel, A Elim. Single Condenser | | 5020 | 2.00 | |
| Bosch, 50 Series | | | 2908 | 3.25 | Kodel, A Elim. Double Condenser | | 5019 | 3.75 | |
| Bosch, 48 | | | 2853 | 8.50 | Kodel, A Elim. Triple Condenser | | 5018 | 5.00 | |
| Bosch, 73 | | | 7249 | 2.95 | Kolster, 6H, K5 | 2316 | 2815 | 3.25 | |
| Bosch, 5 | | | 7250 | 2.45 | Kolster, K30, D.C. | 3844 | 5609 | 1.50 | |
| Brandes, B10, 3.7 Mfd. | 4838 | | 5613 | 2.75 | Kolster, K23 Rectifier | 5501A | 5612 | 1.95 | |
| Brandes, B11 | 4849 | | 5614 | .95 | Kolster, K25, 27, 28, 25 Cycle | 3663 | 5615 | 1.95 | |
| Brandes, B15 | 5038 | | 5619 | 1.95 | Kolster, K21 | 3917 | 2812 | 2.50 | |
| Bremer-Tulley, 6-40, 6-41 | | | 6825 | 2.50 | Kolster, K43 | | 6774 | 2.50 | |
| Bremer-Tulley, 8-20, 8-21 | | | 7251 | 3.95 | Kolster, K44 | | 6775 | 2.75 | |
| Bremer-Tulley, 14, 22, 81, 82 | | | 6220 | .49 | Kolster, 6J, 6K | | 6776 | 2.50 | |
| Brunswick, 14, 22, 81, 82 | | | 6229 | .49 | | | | | |
| Brunswick, 15, 22, 32, 42, Part 2209 | | | 7203 | 1.85 | M | | | | |
| C | | | | | Majestic, "A" Elim. | | 5031 | 2.25 | |
| Colonial, 39 | | | 7197 | 1.25 | Majestic, 9P3, 25 Cycle | | 7256 | 3.45 | |
| Columbia, 970 | 4372 | | 5611 | 3.50 | Majestic, 7P3, 25 Cycle | | 7257 | 3.45 | |
| Columbia, C4 | | | 7256 | 1.50 | Majestic, 7BP3 | | 7258 | 3.45 | |
| E | | | | | Majestic, 171 Sets | | 5026 | 2.25 | |
| Earl, 31 and 32 | | | 5405 | 2.75 | Majestic, 250 Sets | | 5027 | 2.25 | |
| Earl, 21 and 22 | | | 5406 | 2.75 | Majestic, 245 Sets | | 5028 | 2.25 | |
| Edison, R6, R7 | | | 6840 | 3.30 | Majestic, 90 B | | 6678 | 2.25 | |
| Edison, R4, C4, R5 | | | 7252 | 2.95 | Majestic, Master B, Super B | | 5029 | 1.98 | |
| Elkon, "A" Condenser | | | 5009 | 1.35 | Majestic, Special Master B | | 5030 | 1.98 | |
| Eria, 224 | 5429 | | 5624 | 2.50 | Majestic, 50 | | 6838 | 2.50 | |
| Eria, A2 | | | 5006 | 4.00 | Mohawk, Using Majestic Pack | | 5032 | 2.50 | |
| Eveready, 50 Series | | | 2988 | 2.95 | | | | | |
| F | | | | | P | | | | |
| Fada, 18 | | 2-1252MS | 3210 | 3.95 | Peerless, 22 | | 2856 | 3.95 | |
| Fada, 10, 11, 31 | | | 7172 | 3.25 | Philco, 511 | Z200 | 2933 | .65 | |
| Fada, 35, 352, 40 | 1790X | | 3012 | 3.75 | Peerless, 70 | | 6839 | 3.00 | |
| Fada, 41, 44, 46, 47 | | | 3740 | 3.25 | Philco, 511 | Z200 | 2933 | .65 | |
| Fada, 70 | | | 7253 | 3.95 | Philco, 87 | 3401 | 2934 | 2.95 | |
| Fada, "K" | | | 6704 | 4.00 | Philco, 87, 25 Cycle | 3652 | 2935 | 3.50 | |
| Fada, A Eliminator | | | 5009 | 1.35 | Philco, 65 | 3515 | 2936 | 2.95 | |
| Fada, E420 for 50-70-71 and 72 | | | 5410 | 3.25 | Philco Midget | | 3009 | 3.25 | |
| Fada, 25, Part No. 1780 x 8 leads | | | 3011 | 3.25 | Philco, 82 | | 6621 | 2.95 | |
| Fada, 25, Part No. 1801 x 8 leads | | | 3025 | 3.25 | Philco, 62 | | 6622 | 2.95 | |
| Fada, AEO Eliminator "B" Cond. | | | 6542 | 3.25 | Philco, 80 | | 2437 | 2.75 | |
| Federal, D, E, F, G and H | | | 5416 | 2.75 | Polydyne, Model Q, 60 Cycle | | 2438 | 2.75 | |
| Freed, Model 55, 56, 65, 76, 79, 79S, 90, 95 | | | 2443 | 2.75 | Polydyne, Model QD, 60 Cycle | | | | |
| Freed-Eisemann, No. 16 "B" Elim. Block | | | 5010 | 3.75 | R | | | | |
| Freed-Eisemann, Model 411, 60 Cycle | | | 2428 | 3.95 | Radiola, 105 Speaker | | 7259 | 6.95 | |
| Freed-Eisemann, Model NR70, 60 Cycle | | | 2429 | 3.75 | Radiola, 64 | | 6543 | 5.95 | |
| Freed-Eisemann, Model NR80, 60 Cycle | | | 2430 | 1.50 | Radiola, 67 | | 7260 | 5.75 | |
| Freed-Eisemann, Model NR85, 60 Cycle | | | 2431 | 3.10 | RCA, 17 | 8289 | 2714 | 2.15 | |
| Freed-Eisemann, 480 A.C. | | | 5420 | 3.30 | RCA, 18, 33, 61 | | 2710 | .39 | |
| Freed-Eisemann, 480 D.C. | | | 5415 | 2.50 | RCA, 44, 46 | | 2715 | 2.50 | |
| Freed-Eisemann, 485 | | | 5419 | 1.80 | RCA, 41 | | 5033 | 3.50 | |
| Freed-Eisemann, NR57, 60 | | | 3214 | 3.00 | RCA, 62, 60 | 8346 | 2726 | 2.50 | |
| Freed-Eisemann, NR60 | | | 6773 | 2.50 | RCA, 66 | 8487 | 2659 | 1.60 | |
| Freshman, H | | | 7254 | 3.95 | RCA, 80 | | 6888 | 2.75 | |
| Freshman, K | | | 7255 | 2.45 | RCA, 104 Speaker | | 3721 | 1.65 | |
| | | | | | RCA, 30A Filter Block, Part No. 81951 | | 3721 | 1.65 | |
| | | | | | RCA, 30A, 20 Mfd. | | 5445 | .85 | |
| | | | | | S | | | | |
| | | | | | Sentinel, 440, 11, 12, 15, 16 | | 5034 | 2.45 | |
| | | | | | Silvertone Midget (using 3-224 1-245 and 1-280 tubes). Part No. 5575 | | 7197 | 1.25 | |

(Continued on Page 99)

By-Pass Condensers for Standard Sets

| Sets and Models | Capacity | Cat. No. | Price | Sets and Models | Capacity | Cat. No. | Price |
|--|--|--|--|---|---|--|---|
| Atwater Kent 37, 38, 40, 42, 44, 46 | 3-.25 mfd. 1-.5 mfd. | 2985 2984 7211 | \$0.65 .75 .40 | Radiola 64, 67 | | 4180 4182 4181 | 1.75 .40 .45 |
| Speaker Condenser Bosch | | | | | 3-.25 mfd. 2-.1 mfd.) 1-.25 mfd.) 3-.1 mfd.) 1-.5 mfd.) | 3000 | .15 |
| 1928-1929 models | 2-.25 mfd. 1-.30 mfd. | 2983 | .65 | 80, 82, 86 | 3-.1 mfd. 1-.5 mfd.) 3-.1 mfd. .25-C-.25 mfd. 3-.1 mfd. 1-.25 mfd. | 3026 3028 3026 | .15 .15 .15 |
| Brandes B-10 Colonial 32 | .6-C-.6 mfd. 2-.25 mfd. 2-.10 mfd. 1.5 mfd. | 5618 3211 5807 | .30 .65 .50 | All Models | R.F. Choke 2-.001 mfd. | 2910 doz. | 1.25 |
| Crosley 60S, 61S, 62S, 63S, 65S Roamio 41, 41A, 42, 704, 706 60S, 61S, 62S, 63S, 65S | W6471 W7944 W4013C .6 mfd. W20449 W22412 W20446 W7753B W20186 W5943 W6428 W20187 W25426 W4919 W22995 W7753 W4968 W4313A W23736 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 .42 .55 .26 .27 .70 .23 | Sparton All 410 Victor 9-18, 9-54, 9-56 Victor RE 14, 18 U. S. Radio & Television 2378 964A 2628 170 2235B Zenith 50, 60, 70 series | 1/2 mfd. 1 mfd. 4-.1 mfd. 2-.1 mfd. 1-.25 mfd. 3-.1 mfd. 2-.1 mfd. 2378 964A 2628 170 2235B 4-.2 mfd. | 5833 6894 6608 4180 4180 3026 3027 5204 5205 5206 3013 5208 6478 | .35 .35 .35 1.75 1.75 .15 .15 1.25 .75 .50 .35 1.25 .69 |
| 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 Federal | 1 mfd. | 2902 | .35 | | | | |
| D, E, F, F, H | 3-.25 mfd. .001 mfd. 4 mfd. | 2939 2968 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 .65 .50 .60 .85 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 Kyletron | .5 mfd. 7-.1 mfd. 1-.5 mfd. 3-.1 mfd. | 2903 2864 2904 | .30 .30 .39 | | | | |
| Courler 65 | 3-.1 mfd.) 1-.00025") | 7194 | .45 | | | | |
| Kennedy 20 | 9x1/4 mfd.) 1-1 mfd.) | 7183 | .48 | | | | |

| 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 | 3.95 |
| Sparton, 109 | | | 7261 | 4.95 |
| Splitdorf, M6 | | | 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, 7-80 | | | 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 Borgla | | | 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...333X and 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, ZF9, Pack | | 5043 | 2.50 | |
| Zenith, 9E, 11E, 14E | | 5043 | 2.95 | |

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 |
|--|--------|----------|--------|
| A | | | |
| 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, 31, 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 | .40 |
| Atwater-Kent, H2, H1..... | | 6186 | .50 |
| Atwater-Kent, 55, 55C, 60, 66..... | | 7122 | .40 |
| Atwater-Kent, 80 Series..... | | 7378 | .95 |
| Atwater-Kent, 84..... | | 7379 | 1.20 |
| Atwater-Kent, 86..... | | 7380 | 1.20 |
| Atwater-Kent, 82DC..... | | 7381 | .95 |
| Atwater-Kent, 82Q, 85..... | | 7382 | .68 |
| Atwater-Kent, 83..... | | 7390 | .95 |
| Audiola, Jr..... | | 6142 | .50 |
| Audiola, 30B and 7330..... | | 6182 | .50 |
| Audiola, 8430..... | | 6187 | .50 |
| Audiola, 889..... | | 6133 | .50 |
| Audiola, 31..... | | 6142 | .50 |
| B | | | |
| Balkett, A3, A5, A7..... | | 6190 | .50 |
| Balkett, B7, B9..... | | 6142 | .50 |
| Balkett, F..... | | 6142 | .50 |
| Balkett, 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 | .80 |
| Bosch, 28, 29..... | | 6502 | .90 |
| Bosch, 5, 20, 20J, 20K, 20L, 31, 32, 73.... | | 7075 | .90 |
| Bosch, SA..... | | 7388 | .95 |
| Bosch, 40..... | | 7411 | 1.08 |
| Bosch, 5A, 7A, 20, 20V, 20K, 201, 31, 36, 73 | | 7412 | .95 |
| Bosch, 80, 84..... | | 7413 | .68 |
| Bosch, 100 Auto Radio..... | | 7415 | .68 |
| Brandes, B10, B15, B16..... | | 5725 | .95 |
| Bremer-Tully, 640, 641..... | | 7100 | .70 |
| Bremer-Tully, 7-70, 7-71..... | | 6142 | .50 |
| Bremer-Tully, 8-20, 8-21..... | | 6127 | .60 |
| Bremer-Tully, Counterphase 8..... | | 6192 | .50 |
| Bremer-Tully, 81-82..... | | 6170 | .65 |
| Bremer-Tully, S-81, 82..... | | 6588 | .90 |
| 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 | .75 |
| Brunswick, 14, 21 and 31..... | | 6185 | .50 |
| Brunswick, S14, S21, 331, S81, S82..... | | 6588 | .90 |
| Brunswick, 1930 Models..... | | 6223 | .75 |
| Brunswick, D11, 12, 16, 33..... | | 7400 | .80 |


| Receiver | Models | Cat. No. | Price |
|--|--------|----------|-------|
| Brunswick Panatrope..... | | 7409 | .68 |
| Buckingham, 80..... | | 6181 | .50 |
| Bulova, M501..... | | 7103 | .90 |
| Bulova, M701..... | | 7104 | .65 |
| Bulova, C751..... | | 7105 | .85 |
| Bush & Lane, 10 12..... | | 3203 | .65 |
| C | | | |
| Case, 80..... | | 6142 | .50 |
| Clarion, Jr., 60..... | | 6143 | .70 |
| Clarion, 51, 53, 55..... | | 6148 | .70 |
| Clarion, 40, 45..... | | 7106 | .90 |
| Clarion, 80..... | | 7107 | .65 |
| Clarion, 90..... | | 7108 | .85 |
| Clearstone, 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..... | | 6139 | .50 |
| Columbia, 32, 34..... | | 7111 | .65 |
| Columbia, 31, 33..... | | 7112 | .90 |
| Columbia, 32..... | | 7195 | .45 |
| Crosley, 602, 608, 609, 610..... | | 6103 | .35 |
| Crosley, 704, 705, 706, 706DC, 804, 704B.... | | 6113 | .35 |
| Crosley, 48P, Wiglit..... | | 6104 | .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 |
| Crosley, 82S, 40S, 41S, 45S, 42S..... | | 7377 | .68 |
| Crosley, 706, Long Shaft..... | | 7407 | .80 |
| Crosley, 704, Short Shaft..... | | 7408 | .68 |
| Crosley, 26..... | | 7416 | .60 |

| | | | |
|-------------------------------|--|------|-----|
| D | | | |
| Dayton, Navigator..... | | 6142 | .50 |
| Dayfan, 8AC, A5093, 5091..... | | 6142 | .50 |
| Dayfan, 5065..... | | 6185 | .50 |
| Dayfan, 5057..... | | 6185 | .50 |
| Dayfan, 5051..... | | 6186 | .50 |
| Dayfan, 5 AC..... | | 6138 | .50 |
| De Wald, 632..... | | 6148 | .70 |

| | | | |
|-----------------------------|--|------|------|
| E | | | |
| Edison, C1, C2, R1, R2..... | | 5378 | .50 |
| Edison Abbey..... | | 7406 | .60 |
| Erla, R1..... | | 6142 | .50 |
| Erla, 224 AC..... | | 6141 | .50 |
| Erla, 245..... | | 7116 | .85 |
| Erla, SG Radio..... | | 7117 | 1.40 |
| Erla, SG Combination..... | | 7113 | 1.50 |
| Earl, 21, 22, 24..... | | 3820 | .35 |
| Earl, 31, 32, 41, 33..... | | 6186 | .50 |
| Earl, 31S, 32S, 33S..... | | 7189 | .40 |
| Emerson, F100A..... | | 7376 | .95 |
| Eveready, 1, 2, 3..... | | 6502 | .90 |
| Eveready, 50 Series..... | | 5840 | 1.75 |

| | | | |
|-------------------------|--|------|------|
| F | | | |
| Fada, 48, 49..... | | 7095 | 1.00 |
| Fada, 48, 49 Flash..... | | 7096 | .55 |
| Fada, 45, 53, 57..... | | 7097 | .85 |
| Fada, 1653 AB..... | | 7417 | .68 |

(Continued on next page)

MAIL ORDERS TO 
See Terms on Page 3

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 |
|---|--------|----------|-------|---|--------|----------|-------|
| Fada, 51 | | 7098 | .60 | Lincoln, 31 Superhet | | 6185 | .50 |
| Fada, 35B | | 7099 | 1.40 | | M | | |
| Fada, 265UA, 262, 265CA, RP-65UA, RP-65CA, 262UA, 262CA, RP-62UA, 262CA, RP-62UA, RP-62CA | | 5853 | .65 | Majestic, 20 Series | | 5157 | .90 |
| Fada, 7AC, 475UA, 472CA, SF45/75UA, CA45/72 | | 5841 | .65 | Majestic, 130A, 230A | | 6139 | .50 |
| Fada, 10, 11, 30, 31, 10Z, 11Z, 30Z, 31Z, 50, 70, 71, 72 | | 5842 | .65 | Majestic, 90, 91, 92, 100 | | 6187 | .50 |
| Fada, 16, 17, 32, 16Z, 32Z, 18DC | | 5842 | .65 | Majestic, 70, 60, 70B, 71, 72, 80 | | 6184 | .50 |
| Fada, 20, 20Z, 25, 25Z, 15M, 15MZ | | 5493 | .65 | Majestic, 180, 181 | | 5738 | .35 |
| Federal, D, E, F | | 6126 | .60 | Majestic, 90B, 100B | | 5696 | .35 |
| Federal, G, H, K, M | | 6126 | .60 | Majestic Equalizer, 90, 90B, 91, 92, 100, 100B | | 5698 | 1.25 |
| Freed, 65, 78, 79, 95 | | 7188 | .40 | Majestic, 60, 160 | | 7065 | .60 |
| Freed, 78S, 79S, 95S | | 7190 | .40 | Majestic, 15, 15B, 150, 155 | | 7066 | 1.00 |
| Freed-Elsemann, NR78, 79AC, NR90S, NR-95AC | | 6186 | .50 | Majestic, 15, 15B, 150, 155 Tone Control | | 7067 | .65 |
| Freed-Elsemann, NR80DC, NR80AC, NR85 | | 3819 | .50 | Majestic, 25 | | 7068 | 1.00 |
| Freed-Elsemann, NR55DC, NR56DC, NR-78DC, NR79DC | | 6189 | .50 | Majestic, 25, Tone Control | | 7069 | .65 |
| Freed-Elsemann, NR55, NR56 | | 3820 | .35 | Majestic, 100 | | 5844 | .35 |
| Freshman, L, LS, G60S, H, K | | 2962 | .60 | Majestic, 130 | | 7401 | .68 |
| Freshman | | 7193 | .40 | Majestic, 30 | | 7421 | 1.20 |
| Freshman, K60S, G, 2N, M, N | | 3772 | 1.35 | Majestic, 50 | | 7422 | 1.20 |
| Freshman, Q15, Q16, 3Q15, 3Q16, QD16S | | 3767 | .35 | Majestic, 50 Series | | 5697 | .75 |
| French, Jesse Jr., G | | 7119 | 1.75 | McMillan, 8AC, Series 900 | | 6142 | .50 |
| French, Jesse, 8, 5-093G | | 6119 | 1.25 | Melrad, Cathedraltone | | 6175 | .65 |
| | G | | | | N | | |
| Garod, E. A. | | 6190 | .50 | Norden-Hauck, Super DZ-5A | | 6185 | .50 |
| General Electric, H-31, H-51, H-71 | | 6141 | .50 | | P | | |
| General Motors, A | | 5535 | 1.25 | Peerless, 65 | | 3763 | .35 |
| General Motors, 120, 130, 140 | | 7120 | 1.50 | Peerless, K71, 72 | | 6603 | .55 |
| General Motors, S3A, S3B, S2B, 252-3-4-5-6, 28 | | 7121 | .90 | Peerless, K70 | | 3040 | .60 |
| General Motors, S1A, S1B, 216, 217, 219, 250 | | 7122 | .90 | Philco, 511, 512, 513, 521, 87, 82, 88 | | 6142 | .50 |
| General Motors, 510A, 220 | | 7418 | 1.05 | Philco, 65 | | 6186 | .50 |
| General Motors, 59A, 59B | | 7319 | 1.05 | Philco, 95, 96, 96A, 296, 296A, 211, 211A, 111, 111A, 30 | | 6190 | .50 |
| Graybar, 700, 770, 900 | | 6141 | .50 | Philco, 77, 77A, 20, 20A, 41DC, 42DC, 220, 112, 112A, 112E, 212, 212A, 212E | | 7383 | .60 |
| Graybar, 600 | | 2956 | .45 | Philco, 70, 70A, 270, 270A | | 6118 | 1.25 |
| Graybar, 311 | | 4165 | .45 | Philco, 50, 50A | | 7404 | 1.20 |
| Grebe, AHI | | 3041 | .85 | Philco, 90, 90A | | 7405 | 1.20 |
| Grebe, SK4 | | 3698 | .50 | Pilot, All-elec Air Scout, SG105, K106 | | 6189 | .50 |
| Grebe, AC7 | | 3039 | .60 | Pilot, Midget, PEGSG, K122, 123, 124, 126, 128 | | 6186 | .50 |
| Grebe, De Luxe, AC6 | | 3040 | .60 | Pilot, Auto 180 | | 6188 | .50 |
| Grebe, HS-4, Model 5 | | 7059 | 1.00 | Pilot, Pilotone, K108, K117 | | 6142 | .50 |
| Grebe, HS-4, Model 5 Tone Control | | 7060 | 1.50 | | R | | |
| Grebe, HS-4, 1, 2, 3, 4 | | 7061 | 1.00 | Radiola, 33, 33 D.C. | | 3762 | .60 |
| Grebe, HS-4, 1, 2, 3, 4 Tone Control | | 7062 | .65 | Radiola, All combinations | | 3794 | .45 |
| Grebe, HS-4 | | 7063 | .90 | Radiola, 17, 41, 41DC | | 5741 | .50 |
| Guibransen, 8, 9 | | 6142 | .50 | Radiola, 48, 42 | | 5158 | 1.45 |
| | H | | | Radiola, 60, 62, 66 | | 6138 | .50 |
| Howard, Green Diamond, S.G.A., S.G.C. | | 5160 | 1.25 | Radiola, 64, 67 | | 3798 | .50 |
| Howard, 135, 395, 445, 495 | | 6141 | .50 | Radiola, 80, 82, 86 | | 6141 | .50 |
| Howard, D4 | | 7064 | .85 | Radiola, 44, 46, 47 | | 3765 | .45 |
| | J | | | Radiola, 21, 22, 46DC | | 6186 | .50 |
| Jackson-Bell, 62 | | 6588 | .90 | Radiola, 18, 50, 51, 18DC | | 4165 | .45 |
| | K | | | Radiola, R10, R11, RAE26, RAE18 | | 7070 | .75 |
| Kellogg, 523, 526, 524, 525, 527, 528 | | 6142 | .50 | Radiola, R7A, 7DC, 9DC, Superette | | 7071 | .60 |
| Kennedy, 10, 20, Royal 34, 26, 826B, 36, 38, 40, 22, 20, 32, 30 | | 3203 | .65 | Radiola, R5, R5X | | 7072 | .70 |
| Kennedy, 60, 80 | | 6190 | .50 | Radiette, F14 | | 6146 | .70 |
| Kennedy, 56 | | 7391 | 1.20 | Radiola, 16 | | 7403 | .95 |
| Kennedy, 52A, 62 (tone control) | | 7392 | .80 | RCA Victor, RAE59, 79, R50, 55, RE28 | | 7389 | .68 |
| Kennedy, 56, (tone control) | | 7393 | .68 | | S | | |
| Kennedy, 62 | | 7394 | .68 | Sentinel, 11, 12, 15, 16, 104, 103, 440, 444, 666, 666C | | 6142 | .50 |
| Kennedy, 52, 52A | | 7395 | .80 | Sentinel, 108A, 109, 110, 111 | | 7079 | .90 |
| King, J. H. | | 6141 | .50 | Sentinel, 118, 120 | | 7074 | 1.00 |
| King, E80, 81, FGH, 97, 98, Monarch | | 6142 | .50 | Silver, 710, 720, 724, 740, 35A, 34A, 36A | | 3039 | .50 |
| Kolster (Brandes), K20, K21, K23, K24, K28, K22, K25, K27, K42, K45, B10, B15, B16 | | 5725 | .95 | Silver, 620, 770 | | 2958 | .50 |
| Kolster (Brandes), K42, 43, 45 | | 5254 | 1.15 | Silver, 712, 714, 722, 30, 30B, 60B, 75B, 90B | | 6142 | .50 |
| | L | | | Sonora, 2RP25, 3R, 4R, 5R, A30, A32, B31, A36, A46, A40, 44 | | 5378 | .50 |
| Lang, BA5AC, BD6DC | | 6182 | .50 | Sparton, 110, 931, 101, 103, 109, 301, 591, 593, 930 | | 6589 | .90 |
| Lang, F9DC, J7DC, MTAC, R8DC | | 6141 | .50 | Sparton, 600, 610, 620, 737, 740, 750, 574, 870, 589 | | 6590 | .90 |
| Leutz, Universal, Trans-oceanic, Seven Seas Console | | 6190 | .50 | Sparton, 111, 564, 570 | | 7077 | .80 |

(Continued on Page 103)

MAIL ORDERS TO 
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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 |
|---|-------------------|----------|----------|-------|
| A | | | | |
| Amrad, A.C.—4,080 ohms | | | 6857 | .75 |
| B | | | | |
| Balkeit, AB6, 180A, 180B—10,800 ohms | | | 6858 | .75 |
| Balkeit, B7, B9—24,800 ohm. | | | 6381 | .95 |
| Balkeit, 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 | .75 |
| Bosch, 60, 61—9,000 ohm | | | 5752 | 1.00 |
| Bosch, 54 D.C.—20 ohm, Edison Base | | | 5848 | .85 |
| Bremer-Tully, 820A, 8-21A — 13,400 ohms | | | 5758 | .75 |
| Brunswick, 3, 8, 10, 11, 13—6,770 ohms | | | 6860 | 1.00 |
| Brunswick, 3ER8—6,265 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 |
| C | | | | |
| Colonial, 33, 34, 110,000 ohms tapped at 60,000 | | | 4017 | .50 |
| 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 |
| Colonial, 32, 1,000 ohm bias. | | | 3921 | .10 |
| Colonial, 36, D.C. | | | 7196 | .95 |
| Columbia, C1, C3, 960 | | | 4014 | .39 |
| Columbia, C5—7,335 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, 602, 740—5,000 ohm, tapped at 3475 | | | 3965 | .50 |
| 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 |
| E | | | | |
| Edison, R-1, R-2, C-2—13,400 ohm. | | | 6520 | .75 |
| Earl, Model 31-32, 32S-41, 5,000 ohm. | | | 3907 | .35 |
| F | | | | |
| 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 |
| G | | | |
| 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 |
| K | | | |
| Kolster, 6-H, K-5 | | 5513 | .65 |
| Kolster, 6J, 6K, 6L, 6F, 6R — 7,120 ohms | | 2441 | 4014 |
| 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, 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 |
| L | | | |
| Lyric (Rudolph Wurlitzer), 6,200 tapped at 2,000, 1,000, 3,000, 900...Y-439-R6 | | 3482 | .80 |
| M | | | |
| Majestic, 9P6—3,600 ohm Resistor... | 399 | 5466 | .25 |
| Majestic, 30—10,471 ohms | | 6875 | 1.00 |
| P | | | |
| 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 |
| R | | | |
| 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, 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, 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 Electrola, AP952, 997, 860—400 ohms | | 6398 | 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 |
| S | | | |
| Silver-Marshall, 655—11,350 ohms... | | 3164 | 1.00 |
| Silver-Marshall, 659—10,300 ohms... | | 3165 | 1.00 |

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MAIL ORDERS TO
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
VOLTAGE DIVIDERS

| Make | Models and Values | No. Part | No. Cat. | Price |
|---|-------------------|----------|----------|-------|
| 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 |
| Splitdorf, 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 |
| Steinite, 991—2,500 ohms | | 6881 | | .75 |
| Steinite, 50—25,877 ohms | | 6882 | | .95 |
| Steinite, 70, 80, 95, 22, 440 ohms..... | | 6400 | | .75 |
| Stromberg-Carlson, 19, 20—3,285 ohms | | 9883 | | .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—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 |
| T | | | | |
| 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 | | | | |
| Make Models and Values | No. Part | No. Cat. | Price | |
| and 2,000 | | 3162 | | .95 |
| V | | | | |
| 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, 9-18 — 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 |
| W | | | | |
| Westinghouse, WR4—4,805 ohms | | 6398 | | 1.20 |
| Z | | | | |
| Zenith, 33, 34, 35, 35A, 342, 352, 352A, 362—for Packs 10, 13—22,700 ohms. | 63-35 | 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, 36APX, 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 |

VOLUME CONTROL GUIDE

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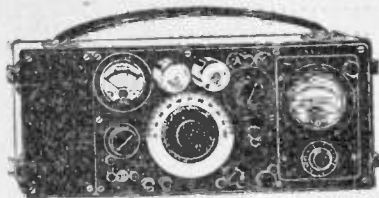
| Receiver | Models | Cat. No. | Price | |
|---|--------|----------|-------|------|
| Sparton, 410, 420, 9A, 600A, 610A, 620A.... | | 7078 | 1.75 | |
| Sparton, 25, 26..... | | 7396 | 1.05 | |
| Sparton, 15..... | | 7397 | 1.05 | |
| Sparton, 10..... | | 7398 | 1.05 | |
| Sparton, 5, 9..... | | 7399 | 1.05 | |
| Sparton, AR19..... | | 7410 | .80 | |
| Sterling Midget..... | | 7420 | 1.40 | |
| Sterling, 1930 Models inclusive..... | | 6119 | 1.25 | |
| Stewart-Warner, 50, 40, 102, 40C, 60C, 70, 80, 95, 991, 992, 993..... | | 2941 | .60 | |
| Stewart-Warner, 900 Series | | 2941 | .60 | |
| Stromberg Carlson, 19, 20, 21..... | | 7384 | .60 | |
| Stromberg Carlson, 12, 14..... | | 7385 | .95 | |
| Stromberg Carlson, 22, 24..... | | 7386 | .95 | |
| Stromberg Carlson, 20, 21 (tone control) .. | | 7387 | .68 | |
| Splitdorf, E175..... | | 7423 | .85 | |
| Stewart-Warner, 950 and RJ100 Series..... | | 5739 | .50 | |
| Stewart-Warner, 715, 720 | | 3750 | .25 | |
| Storey & Clark, 36, 43, 51..... | | 7079 | .65 | |
| Story & Clark, 3A, 4..... | | 6142 | .50 | |
| Stromberg-Carlson, 846, 848 Front..... | | 6591 | .55 | |
| Stromberg-Carlson, 846, 848, Rear..... | | 3205 | .75 | |
| Stromberg-Carlson, 10, 11 | | 6593 | .55 | |
| Stromberg-Carlson, 638 Front..... | | 3203 | .70 | |
| Stromberg-Carlson, 638 Rear..... | | 6593 | .75 | |
| Stromberg-Carlson, 635, 636 | | 3208 | .70 | |
| | | 3210 | .65 | |
| Stromberg-Carlson, 641, 642, 652, 654..... | | 3206 | .50 | |
| | | 3205 | .75 | |
| Steinite, 36, 43, 51..... | | 6142 | .50 | |
| T | | | | |
| Temple, 8-60, 8-80, 8-90..... | | 5802 | .25 | |
| Temple, 861, 881, 891..... | | 5243 | 1.75 | |
| V | | | | |
| Victor, R14, R15, R17..... | | 5158 | 1.45 | |
| Victor, 7-25 | | 7090 | .55 | |
| Victor, 7-11 | | 7081 | .55 | |
| Victor, R32, RE45, RE52, RE75..... | | 5740 | .95 | |
| Victor, R34, R35, RE39, RE57..... | | 6501 | 1.75 | |
| Victor, RE73..... | | 7289 | .45 | |
| W | | | | |
| Ware, SB45 | | 7082 | .90 | |
| Ware, K5 | | 7083 | .90 | |
| Ware, SBF | | 7084 | .85 | |
| Ware, SBA | | 7085 | .85 | |
| Ware, S-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 | |
| Westinghouse, WR10..... | | 7402 | .80 | |
| Z | | | | |
| Zaney Gill, 54 | | 7090 | .85 | |
| Zaney Gill, 54 Tone Control..... | | 7091 | .65 | |
| 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, 421..... | | | 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 
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Federated Purchaser Inc.

25 PARK PLACE, N. Y. C.
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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 Stage 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: 16½x6½x5¼ 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.

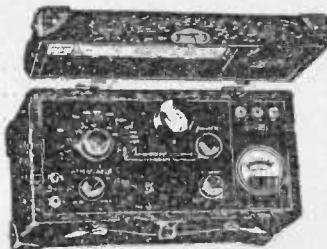
Because it produces signals above 1500 K.C. it can be used in testing short wave adapters and receivers.

Model 590 Oscillator without Output Meter with tubes less batteries.

Cat. No. 590

**Our Net Price
\$79.38**

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 550-15.00 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.

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 Direct Reading Ohmmeters Models 500-502

These ohmmeters are complete with a small 3-cell flashlight battery; negligible resistance.

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 Tubes . . . 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", "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 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.

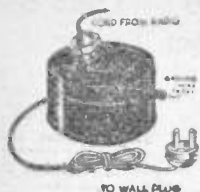
Rectifier Type Output Meter—Range 100-5 Volts.

MAIL ORDERS TO 
See Terms on Page 3

Federated Purchaser Inc.

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

GEM LINE Interference Eliminator

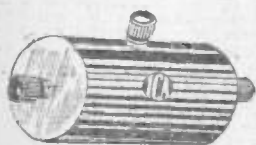


A great many noises interfering with your reception are caused by motors, such as electric refrigerators, vacuum cleaners and elevators, and numerous electrical appliances. The Gem Line interference eliminator will help prevent entering into your radio.

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 Counter 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, eliminates 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.

Super "No Aerial"



Aerial Eliminator and Static Reducer

Improves reception. Equals a 75 foot outdoor antenna. Very compact. 2" diameter, 3 1/2" high.

Cat. No. 7209 Our Price, Each 69c

Panel Switch and 2 Keys



A good switch for ignition, auto radios and other uses. 1/4 in. cylinder. All nickel plated. Equipped with 2 keys.

Cat. No. 7305 Our Price, Complete 15c

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

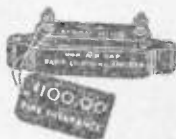
Storm King Lightning Arrester

The arrester with the FREE \$100 fire insurance policy.

Genuine molded bakelite. No air gap. Nationally advertised at \$1.00.

Cat. No. 6581

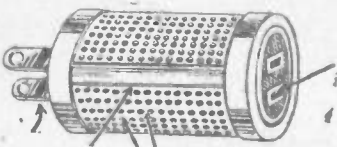
Special 35c ea.



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.



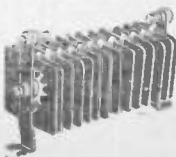
Fits any standard socket or outlet. Small, neat, compact; finished in nickel.

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.

KODEL DRY DISC Rectifier With Brackets

For replacement in Kodel Kuprox power units and Dynamic speakers, etc.
Single Unit.
Cat. No. 4133



Our Price \$1.10

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.



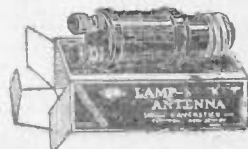
| Set | Cat. No. | Set | Cat. No. |
|---------------|----------|----------------|----------|
| Bremser Tully | 4023 | Majestic 70 | 4010 |
| Brunswick | 4029 | Majestic 72 | 4034 |
| Grebe | 4030 | Majestic 80 | 4035 |
| Hi-Q 30 | 4029 | Majestic 90 | 4037 |
| Hi-Q 31 | 4032 | Nath'l Baldwin | 4038 |
| Kennedy | 4030 | Peerless | 4032 |
| Kyletron | 4038 | Sonora | 4039 |

\$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, 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.

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NOW with Tubes NEW TYPE *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
for 110 V. A. C.

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

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 ACRA-TONE SUPERHETERODYNE. Distant stations come in without fading and distortion, and sound like locals.

Cabinet

This splendid receiver is housed in a carefully finished walnut cabinet of really enchanting design. The handsome Fleur d'Is grill has grace and beauty of lines as well as lending toward simplicity, rather than elaborateness. 17 in. high, 15 in. wide, 8 1/2 in. deep.

Equipped with Phonograph Pick-Up Jacks.

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 missed in tuning and greater sensitivity is the result. Encircling this dial is a beautifully designed es-cutehon which lends character to the receiver.

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.

Operates Without Aerial or Ground

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

Hitherto this feature has been incorporated in only high priced receivers. Automatic volume control was a badge of quality to receivers or discriminating people. And now ACRA-TONE 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 SUPER-CHARGER 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.

New Type Tubes

The new type 55 tube, which is a duo-diode detector-automatic volume control tube, and an audio amplifier, is a development of the Radio Corporation of America, and combines the excellent performance of each of these operations in one efficiently operating radio tube. This tube not only figuratively takes the place of three tubes, but actually does.

Automatic volume control is not a mere sales feature, but is an actual necessity in outlying districts where broadcasting stations have a tendency to fade.

Superheterodyne Circuit

The 1932 ACRA-TONE SUPERHETERODYNE embraces the most advanced design and is built for utmost selectivity, with the usual ACRA-TONE 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.

THE MIGHTIEST MIDGET



Audio Transformer

With Pick-Up Coil Winding
For Replacement in 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 $3\frac{1}{2} \times 1$
Cat. No. 2581

Our Price

29^c

4 for \$1.00
Push-Pull Audio Transformer Pack

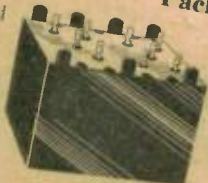
Can be used with 245 and 247 Tubes.

Output Matches Moving Coil on All Dynamic Speakers

Cat. No. 5744

Our Price, Per Pack

59^c



Extraordinary Offering of Genuine Mershon 8 Mfd. Inverted Type Electrolytic Condensers

A most fortunate scoop of the wet type famous Mershon Electrolytic Condensers enables us to offer them to you at 80% off the regular list price. The 8 Mfd. Inverted type is used in 90% of the receivers on the market today. The threaded stud is insulated and the can may or may not be grounded to the chassis of the set. Complete with lock washer and nut. 1-13/32" in diameter. 4" long. Regularly sold for 90^c.



Cat. No. 7369

Our Special Price, Each . . .
\$3.00 Per Dozen

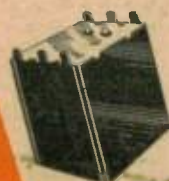
29^c

30 Henry Choke
RCA Victor—150 Mils. 200 Ohms
3x2 1/2 x 4 in. high
Weights 3 1/2 lbs.

Cat. No. 5474

Our Price
4 for \$1.00

29^c



Universal Replacement Power Transformer for 4 or 5 Tube Midgets



For sets using up to 3-224, 235, 551, 227, 56, or 57 tubes (or a combination of same), 1-245 or 247 and 1-280 tubes.

Size: 3x2 1/2 x 3" high.
Weight 2 lbs.

Supplies the following voltages: 24 v. at 84 mps.; 5 v. at 2 amps.; 300 v. each side of C.T.; 289 v. rectified at 60 mps.

Cat. No. 5502

Our Price

95^c

Frost 10,000 Ohm Potentiometer



Graphite Element. Only 7/16" thick, 1 1/4" flat shaft with 3/8" thread and locknut. Will fit all 1 1/2" knobs.

While They Last

Cat. No. 5634

Our Price, Each

29^c

4 for \$1.00

Three Stage Push-Pull 245 Amplifier

Using 2-56^{au}, 2-45^{au} and 1-280 Tubes

Output 4 Watts
Size:
14" long
10" wide
8" tall
Shipping weight 35 lbs



\$12.75

\$2.25

Cat. No. 120

Our Price, Less Tubes
Set of Universal Tubes

This amplifier has three stages, two of which are 56 type tubes, and consist of two of the push-pull and the rectifier stage is two 45's in an exclusive method of providing for the use of high and low impedance input and high impedance output. The input is incorporated in this unit. The input is suitable for use with single button microphone or low impedance phonograph pick-up. The high impedance input is suitable for use with the plate of a radio tube so that a Radio-Tuner can be converted, or with high impedance pick-ups.