

Acratone Radio

and
SOUND SYSTEMS

Spring
CATALOG
NUMBER **19-1936**



FEDERATED

PURCHASER, Inc.

LEADING THE WORLD IN RADIO AND SOUND EQUIPMENT

NEW YORK, N. Y.

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M ARket 2-5390

JAMAICA, L. I.

92-26 Merrick Rd.
REpublic 9-8187

4 tube A.C.-D.C. PORTABLE MIDGET

An Amazing Value!

\$7.45
WITH TUBES

A real-value receiver at an amazingly low price. New and improved from every angle, it is, by far, the most outstanding value ever offered in a 4 tube radio receiver. It is sold complete, in every detail and including tubes and speaker, with nothing else to buy . . . almost unbelievable at the price. Such dollar for dollar super value is possible only as a result of the tremendous production and our far-reaching buying power. Such benefits are passed on to you. Feature this fine receiver as your leader, it will make many fine customers for you and bring in their friends.



Licensed by
R.C.A. and HAZELTINE

AN EXCELLENT PERSONAL RADIO
This set is especially attractive to those who prefer listening to their own programs, apart from those received on their regular family receiver. It has good quality plus ample volume for the discriminating person.

LATEST STYLE CABINET
A new type cabinet in the modern manner houses this compact receiver. It has a hand rubbed walnut finish and is rectangular in shape to neatly fit on a bookshelf, mantel, or desk. Extra heavy grade wood is used, with reinforcements in the corners. Rubber mounting feet protect the surface on which it is placed. The 3 1/4" arched dial is indirectly illuminated and calibrated in kilocycles for easy tuning.

IMPROVED HIGH GAIN CIRCUIT
A high gain circuit is employed, using a 6D6 pentode RF amplifier, a 6C6 high gain detector, and a 38 pentode power output tube. A 76 is used for rectification.

4 Tube AC-DC Compact. Operates on 105-125 Volt, 25-60 Cycles AC or DC. Size: 11 1/4 x 7 3/4 x 6". Shpg. Wt. 7 lbs. Code Word: **GOBAM**. R.C.A. and Hazeltine Licensed. Retail Value \$14.90.
Model No. 25-D
Your Cost, with tubes \$7.45
Adapter for Operation on 220 Volts AC-DC, No. 10426. **Your Cost 59c**

2 outstanding BARGAINS!



Licensed by
R.C.A. and HAZELTINE

5 tube A.C.-D.C. PORTABLE

The Mighty Modern!

Such tremendous value has never before been offered in a 5 tube midget receiver. No other midget set on the market has so many features all packed up in such a distinctive cabinet. Excellent engineering allows us to offer this set at a price which means real savings to you.

PORTABILITY ASSURED
This receiver is built of quality parts throughout and will stand the test of long service. It is powerful enough to reach out for considerable distances—rugged enough to withstand hard usage. It may be used anywhere, whether the supply is DC or AC, 25 or 60 cycles and any convenient outlet becomes a source of entertainment. It has a self contained antenna and is ideal for the traveller.

SENSITIVE CIRCUIT
A new high gain circuit is employed, using a 6D6 super control RF pentode and a 6C6 high gain, triple grid detector. A special ballast provides assurance against damage due to line voltage fluctuations and gives steady operation at all times. A 43 pentode power output tube is used in receiver to provide high quality reproduction to a new type full floating dynamic speaker.

Acratone 5 Tube AC-DC Receiver: Operates on 105-125 Volt, 25-60 Cycle AC or DC. Size: 12x8 1/4 x 6". Shpg. Wt. 9 lbs. Code Word: **GOICIP**. R.C.A. and Hazeltine Licensed. Retail Value \$18.50.
Model No. 5-D
Your Cost, with tubes \$9.45
European Model: Two bands (200-550, 800-2000 meters), with phono jack. Shpg. wt. 10 lbs. Code Word: **GOCIZ**. R.C.A. and Hazeltine Licensed. Retail Value \$23.90.
Model No. 5-DLW
Your Cost, with tubes \$11.95

Never before has such a cabinet been used for a set at this price. It is made of heavy, well seasoned wood, attractively finished in walnut, and hand rubbed to a high lustre. Matching knobs are two toned, and a full vision, illuminated dial, calibrated in kilocycles is so located as to enhance the excellent proportions of the set.
Adapter for Operation on 220 Volts AC-DC No. 10431 63c

\$9.45
WITH TUBES

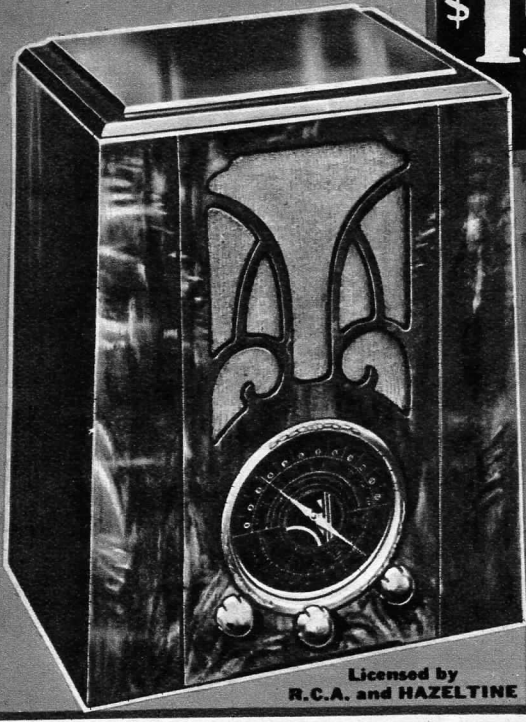
\$15⁹⁵

WITH TUBES

ACRATONE
5 tube A.C.
Super-Het

3 BANDS
SHIPS,
POLICE,
AIRPLANES

Foreign & American Broadcasts.



Licensed by
R.C.A. and HAZELTINE

European Model: Three Bands; 18.5-52, 175-550, 800-2000 meters. Equipped with tapped transformer from 110-250 Volt, 50-60 Cycles AC. Code Word: GYORX. Retail Value \$39.90.
Model No. 7-CLW—Licensed by R.C.A.-Hazeltime
Your Cost, with tubes **\$19.95**
Acra-test Noise Reducing All-Wave Antenna Kit, recommended for use with these receivers. Complete in every detail. **\$1.39**
No. 11205. Your Cost **\$1.39**

The finest 5 tube superheterodyne we have offered in a long time. It is outstanding in performance and appearance and is a real buy for dealers and service men.

WORLDWIDE RECEPTION

Continuous coverage from 540 to 15,200 K.C. is obtained on three bands, the first from 18.5 to 52 meters, the second from 52 to 175 and the third from 175 to 550. Will receive foreign and American broadcast, police calls, amateurs, ships at sea, and weather reports.

LATEST TUBES USED

When you sell this receiver you sell 8 tube performance with only 5 tubes, as dual purpose tubes are used where possible. A 6A7 does double duty as an oscillator and first detector and a 75 is used as a second detector, first audio stage and automatic volume control. The AVC in this set is of the latest type and acts to eliminate fading. Other tubes used are one each 6D6, 42 and 80.

LARGE, OVERSIZED CHASSIS

All parts used in this remarkable receiver are rugged, oversized units designed for extra long life. The transformer is conservatively rated and the large filter condensers have a sufficiently large factor of safety to meet any operating conditions. A three gang condenser gives selectivity necessary when distant stations are to be brought in through the powerful locals. The 5-inch airplane dial is indirectly lighted and has a 14 to 1 ratio permitting easy and accurate tuning.

SMART, NEW CABINET

The pyramided cabinet on this receiver is made of hand rubbed, two toned walnut, with grooved pilasters. Neatly designed grill work, silhouetted by the brown-gold speaker cloth and matching, easy grip knobs set this receiver in a distinctive class. Once installed, this receiver stays "sold."
5 Tube AC Superheterodyne. Operates on 105-125 Volt, 50-60 Cycle AC only. Size: 14½x12x7½". Shpg. Wt. 20 lbs. Code Word: GYARG. Retail Value \$31.90.
Licensed by R.C.A.-Hazeltime
Model No. 7-C. Your Cost, with tubes **\$15.95**

6 tube A.C.-D.C.
ACRATONE

2 BANDS

POLICE
AMATEURS
BROADCASTS

BALANCED SUPERHETERODYNE FOR BEST RECEPTION

Employing five tuned circuits, this set possesses unusual selectivity, and is ideal for locations where ordinary sets have proven unable to reach all the desired programs.

LATEST TYPE HIGH GAIN TUBES

A type 6A7 tube is used as a dual purpose frequency converter and RF amplifier followed by a 6D6 pentode connected, high gain IF amplifier. A 76 is used as a linear power detector. Other tubes are 43 output and 25Z5 rectifier. A metal ballast tube is employed, providing optimum performance of the receiver for varying line voltage conditions.

RECEIVES POLICE CALLS, AMATEURS

A switch is provided on the receiver to change from broadcast to the 80-200 meter band, for police calls, airports, and amateurs.

DYNAMIC SPEAKER FOR BETTER QUALITY

A dynamic type loud speaker is provided which is well able to handle the output of the 43 type output tube without blast or rattle.

NEW CABINET DESIGN

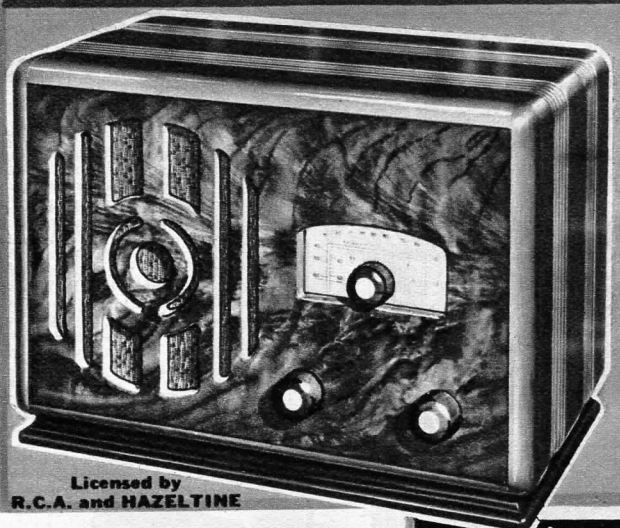
The cabinet on this receiver is of hand rubbed walnut, in a modern rectangular design on a pedestal base in ebony finish. It is made of heavy wood, well reinforced and with a pleasing grill covering the speaker opening. Three matching knobs are of two toned walnut.

FULL VISION ILLUMINATED DIAL

The dial is calibrated in kilocycles and is indirectly illuminated from the rear. For the service man this set is ideal as a substitute set when the regular receiver is in the shop for repairs. Once one is installed, it rarely is taken back to the shop, so enthusiastic does the user become.
6 Tube AC-DC Superheterodyne. Operates on 105-125 Volts, 25/60 Cycle AC. or DC. Size 8½x11¾x5". Shpg. Wt. 13 lbs. Code: GYAWL. Retail Value \$30.00.
Model No. 40-D
Licensed by R.C.A.-Hazeltime

\$14.95

Your Cost, with tubes



Licensed by
R.C.A. and HAZELTINE

SPECIAL EUROPEAN MODEL

For operation on 200-550 meters and 800-2000 meters, with phono jack. Code: GYBDS. Retail Value \$35.00. Licensed by R.C.A. and Hazeltime. **Model No. 40-DLW.**
Your Cost, with tubes **\$17.50**
Also available for operation on 220-250 Volt at additional charge of 50c.

\$14⁹⁵

WITH TUBES

6 tube ACRA TONE

De Luxe SUPER-HET
with NEW ALL-METAL tubes
Continuous Range 17 to 565 Meters

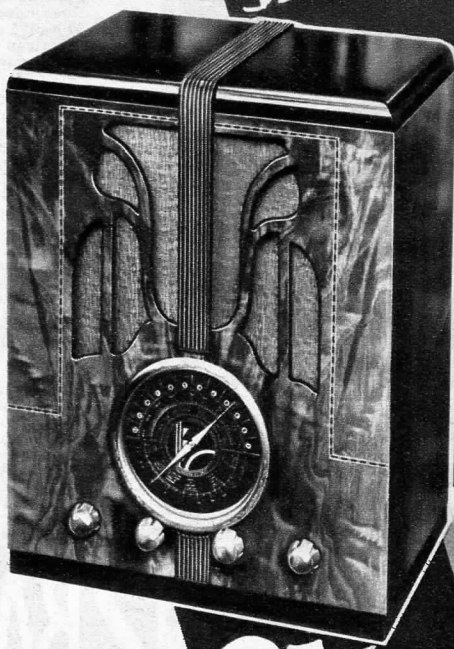
WORLD-WIDE
RECEPTION...
SELF-READING
8 INCH
DIAL

A new 6 tube superheterodyne that has everything to be desired in a modern radio receiver.

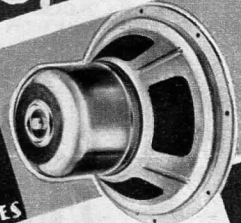
METAL TUBES GIVE HIGH GAIN
Two metal tubes are used in the set, at those points in the circuit where this type tube has proven most effective. This enormous advantage is to be had at a price no higher than that of most ordinary 6 tube receivers having all glass tubes, and should prove an excellent point for the serviceman or dealer.

SELF-READING DIAL
A large 5 inch airplane type dial is incorporated, with plainly marked figures in kilocycles and megacycles. The type of broadcast to be heard on each band is designated and each band is individually colored for easy identification. The extreme upper scale, divided into 12 equal zones, is an arbitrarily calibrated scale used for simplified dial indication and makes possible quick reference tuning of popular stations. A tuning ratio of 14 to 1 is provided between the condenser shaft and the tuning knob for easy and accurate tuning.

ALL WAVE COVERAGE
The entire short wave and broadcast frequency spectrum is covered by this receiver in three bands. The first covers from 18.5 to 52 meters and this short wave range is the one which includes the four internationally assigned bands—the 19, 25, 31 and 49 meter bands. The second covers from 52 to 175 meters and the third from 175 to 550 meters. This range includes foreign and American broadcast and short wave stations, police, amateurs, airplanes, weather reports and ships at sea.



ROBOT
CONTROL
High
Fidelity
Speaker



Licensed by
R.C.A. and HAZELTINE

\$21⁷⁵
WITH TUBES

PERSONAL TONE CONTROL

A tone control permitting tonal regulation in accordance with personal musical appreciation is provided. Inasmuch as atmospheric disturbance (Static) is usually of a high frequency nature, it may be minimized by turning the tone control to the extreme bass position decreasing the high frequencies.

STRIKING CABINETS
The cabinets on the 6 tube superheterodynes are of a new and appealing design. They have three more coats of lacquer than the ordinary cabinet and are hand rubbed to a high lustrous "Piano finish." Matched grain, burled butt walnut adorns the front panels and the table model has genuine marquetry inlay and a stream-lined overlay on the top and front.

LICENSED CIRCUIT
The superheterodyne circuit in the receivers is of the latest type licensed by R.C.A. and Hazeltine.

LATEST TYPE TUBES

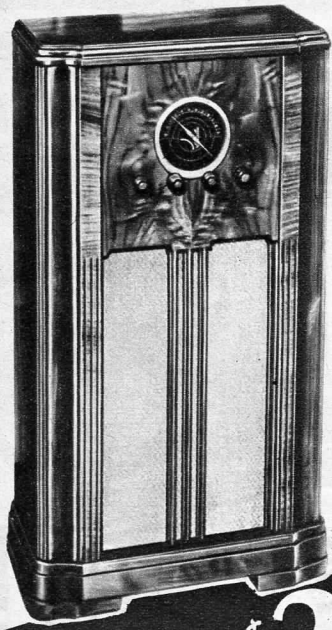
Metal and glass type tubes are used in this receiver in a combination which brings out the best qualities of each. A 6A7 is used as a combined first detector and oscillator, a 6D6 for the high gain IF stage and a 6H6 serves as a diode detector and also acts to provide full automatic volume control. A 6F5 is used as a high gain first audio stage feeding into a 42 pentode output tube. A glass 80 type tube is used as a rectifier.

THREE GANG CONDENSER

A three gang condenser, unusual in a 6 tube receiver, is furnished to provide maximum selectivity through tuned preselection. Six tuned circuits on the broadcast band and seven on each of the short wave bands assure a balanced receiver under all conditions.

DYNAMIC SPEAKERS

Large construction "DeLuxe" dynamic type loud speakers are provided—6½" in table and 8" in console.



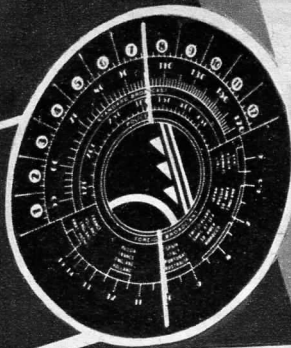
\$29⁷⁵
WITH TUBES

Table Model Acratone 6 Tube AC Superheterodyne Receiver: Operates on 105-125 volts, 60 cycles AC only. Size 15½x18½x12". Code Word: GYBUT. Shpg. Wt. 22 lbs. Retail Value \$43.50.
Model No. 34-C
Your Cost..... **\$21.75**
Console Model Acratone 6 Tube AC Superheterodyne: Operates on 105-125 volts, 60 cycle AC only. Size 36x20x10". Code Word: GYHUB. Shpg. Wt. 44 lbs. Retail Value \$59.50.
Model No. 58-D
Your Cost, with tubes..... **\$29.75**
Transformer for Operation of above Receiver on 220 Volts, 60 Cycle AC No. 8251, Additional..... **\$2.05**

FEDERATED LEADS with ACRA TONE RADIO

8 Tube ACRA-TONE

CUSTOM-BUILT SUPER-HET!
with NEW ALL-METAL TUBES
Continuous Range 17 to 565 Meters



★ 8 Metal tubes doing the work of 10

- ★ Tone Control for Personal Tastes
- ★ Push Pull High Fidelity 5 Watt Output
- ★ 28 to 1 Dial Ratio
- ★ Advanced Type Automatic Volume Control
- ★ R.C.A. and Hazeltine Licensed
- ★ Three Wave Bands from 530 KC to 18 MGC
- ★ Conservative Modern Cabinets
- ★ Oversized 8 inch Dial
- ★ Three Gang Condenser

LATEST DESIGN

This new 8 tube superheterodyne receiver includes all of the newest features consistent with the best practice in radio set engineering.

METAL TUBES

It is completely equipped with the new metal tubes which have proven so satisfactory on the short wave bands during the past year.

THREE WAVE BANDS

Complete coverage over all the short wave frequency bands and the broadcast band is obtained in three steps. The first covers from 18.5 to 52 meters, the second from 52 to 175 meters and the third from 175 to 550 meters.

RADIO ROBOT

This receiver, with its outstanding sensitivity and selectivity, might well be termed a "Radio Robot." No matter what station, whether in the broadcast band or in a short wave band, is desired, the well balanced circuit, coordinated in every respect, acts like an automaton to provide a clear, noise free channel for the selected radio wave. Such is the contribution of modern engineering to 1936 radio enjoyment.

MANY TUNED CIRCUITS

Seven tuned circuits are incorporated in the broadcast band and six are in each of the short wave bands of the receiver to provide perfect balance of the set under all reception conditions, with greatest possible efficiency.

ALL TYPES OF BROADCAST

The complete range from 540 KC to 15 MGC includes foreign stations, police calls, amateurs, ships at sea, weather reports and aircraft stations as well as the regular American broadcast.

OVERSIZED DIAL

The receiver is equipped with a large, self-reading dial, 8 inches in diameter, with an illuminated scale calibrated in both kilocycles and megacycles.

CLEARLY MARKED DIAL

The various dial scales are marked according to the type of reception obtained on the designated band. In particular, the high frequency band is plainly marked with the names of the foreign countries to be heard at special points on the dial so that hunting over the entire dial is not necessary when a particular country is desired.

Licensed by
R.C.A. and HAZELTINE



\$ **32.75**
WITH TUBES

LICENSED CIRCUIT

The metal tubes in this 8 tube receiver are employed in the latest type circuit licensed by R.C.A. and Hazeltine.

SEPARATE OSCILLATOR

A 6L7 type tube is used as the first detector and electron mixer. A separate oscillator is provided in a type 6C6. Two 6Q7 type tubes are used, one as a diode detector and phase inverter and the other as the first audio stage.

AUTOMATIC VOLUME CONTROL

The 6Q7 diode detector circuit is utilized to provide automatic volume control, preventing fluctuations or fading.

FIVE WATTS OUTPUT

Two 6F6 type tubes in push-pull constitute the second audio stage of this receiver. High fidelity transformers are used and a full five watts of audio power is available. A 5Z4 is used as the rectifier.

MODERN CABINET DESIGN

The cabinets which house the 8 tube superheterodyne receiver are designed in accordance with the conservative modern trend. They are of two toned, hand rubbed walnut with a front panel of walnut burl. A plain brown-gold speaker cloth is used to silhouette the open work grill.

OPERATES ON 105-120 VOLTS 50-60 CYCLE AC

Table Model Acratone 8 all metal tube superhet with 8" speaker. Size 18 1/2 x 14 x 9". Shpg. Wt. 29 lbs. Code: GYDIT. Retail Value \$65.50.

Model No. 29-C **\$32.75**
Your Cost, with tubes

Console Model Acratone 8 metal tube superhet with 12" speaker. Size 39 1/2 x 22 x 11". Shpg. Wt. 57 lbs. Code: GYCUV. Retail Value \$88.90.

Model No. 30-C **\$44.45**
Your Cost, with tubes

Acratone 8 all metal tube superhet chassis only, with 12" speaker and tubes. Size 7 1/2 x 8 1/2 x 11 1/2". Shpg. Wt. 21 lbs. Code: GYCER. Retail Value \$63.50.

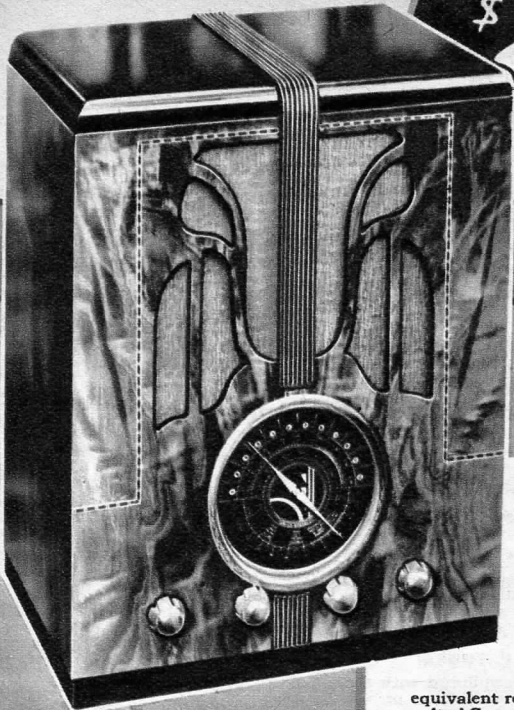
Model No. 31-C **\$31.75**
Your Cost, with tubes

Transformer for Operation of these Receivers on 220 Volts, 60 Cycles AC No. 8251, Additional \$2.05

Acratest all-wave noise reducing antenna system for these receivers.
No. 10772 \$1.85

\$ **44.45** WITH TUBES

FEDERATED LEADS with ACRA-TEST PARTS



\$ **24⁶⁵**
WITH TUBES

6 tube
ACRATONE

BATTERY Receiver

- ★ No "B" Batteries Required
- ★ Complete Operation from 6 Volts
- ★ World Wide Reception—Three Bands
- ★ Extremely Low Battery Drain

ALMOST BATTERYLESS

This new 6 tube battery superheterodyne has been designed especially for economical operation on a 6 volt storage battery. Such perfection has been achieved that only 8 watts are drawn from the storage battery and no other batteries of any kind are required. An

equivalent receiver for operation on 110 volt AC supply would draw about 50 watts. Such low current drain from the battery means that, conservatively stated, the ordinary 120 amp. hr. battery will operate the set for 80 hours without recharge. It costs less than one cent an hour to operate, including the initial cost of the battery and the cost of recharging.

NOTHING SACRIFICED FOR ECONOMY

This unparalleled economy has been attained without any sacrifice in performance of the receiver. Full power is supplied to plates and filaments on all tubes and full audio power output is assured.

WORLDWIDE RECEPTION ON THREE BANDS

The same world wide reception as that expected of the best line-powered receivers is obtained over three continuous tuning bands. The first covers from 175 to 550 meters, the second from 52 to 175, and the third from 18.5 to 52 meters. This is a continuous range from 540 to 15,200 kilocycles and includes foreign and American broadcast and short wave stations, Amateurs, Police, Ships at Sea, Airplane signals, and, of particular interest in rural communities, weather reports.

Table Model 6 Tube Acratone Superheterodyne Receiver: Operates on a single 6 volt storage battery. Size: 15½x12½x8". Shpg. Wt. 22 lbs. Code Word: GYFET. Retail Value \$49.30.

Model No. 53-D
Your Cost, with tubes \$24.65
but less battery.....

ILLUMINATED AIRPLANE DIAL

A self reading airplane dial of the latest type is included. It is illuminated by two pilot lights and each tuning band has an individual identifying color. Calibration is in kilocycles and megacycles, and the type of service received on any particular portion is clearly marked.

LATEST LICENSED SUPERHETERODYNE CIRCUIT

The latest type of low drain battery tubes are used, in a circuit licensed by R.C.A. and Hazeltine. A 1C6 is used as a combination first detector and oscillator, feeding into a 34 IF stage. A 32 serves as first audio stage and a 33 pentode is used for power output. A special bias supply arrangement makes use of a 30 type. A full wave synchronous vibrator is employed, eliminating necessity of a rectifier tube.

FULL AUTOMATIC VOLUME CONTROL

A 30 type tube has a dual function of diode detector and automatic volume control. It is used in the latest type AVC circuit to counteract fading and hold weak, distant stations at full volume level. A tone control is provided so that the tonal response of the oversized speaker may be varied from deep bass to high treble.

EASY TO CONNECT

A special battery cable, with all necessary shielded leads is attached to the receiver chassis. The only other connections necessary are to the antenna, which may be of the noise reducing type.

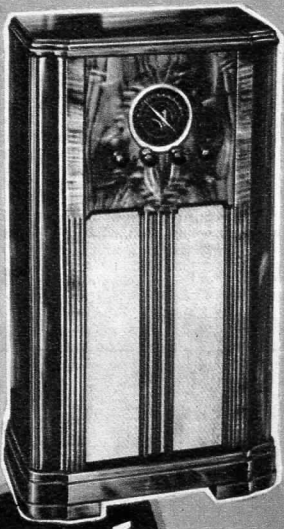
NEW CABINET STYLING

The cabinets housing this new battery receiver have been styled in a conservative modern manner to harmonize with any surroundings. The front panels are of beautifully matched grain butt walnut burl and the entire cabinet is hand rubbed to a genuine "piano lustre."

Console Model 6 Tube Acratone Superheterodyne Receiver: Operates on a single 6 volt storage battery. Size: 36x20x10" Shpg. Wt. 44 lbs. Code Word: GYFUT. Retail Value \$67.90.

Model No. 54-D
Your Cost, with tubes \$33.95
but less battery.....

The battery for this set may be kept charged without cost by using one of our Air-Flo chargers. For specifications see opposite page or page 38.



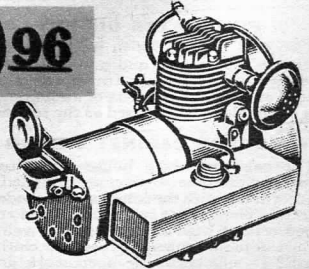
\$ **33⁹⁵**
WITH TUBES

Licensed by
R.C.A. and HAZELTINE

NEW LOW PRICED... HOME LIGHTING GENERATOR for only \$ **39⁹⁶**

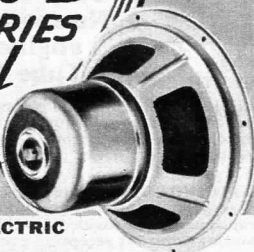
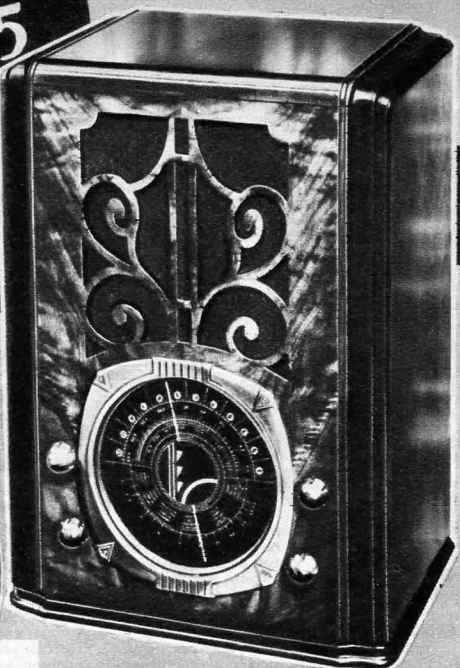
Farmers, campers and people living in rural communities all over the country where regulation electric current is not available are acclaiming the new low-priced gasoline power plants! FOR THE FIRST TIME these have been brought within a price range in accord with popular demand! It is now possible to charge batteries or generate lighting current or to operate electrical appliances at a less cost than commercial electric power! Think

of it! No more troublesome recharging of batteries at distant points, no more is it necessary to struggle with candle or gas light—these generators provide cheap, inexpensive electric current for these purposes. It guarantees un-failing current in your battery so that un-broken radio entertainment is always yours. In addition, a special pulley permits hooking on of home appliances. For full details turn to page 38.



Tube
ACRATONE
World-Wide
BATTERY Receiver
NO "B"
BATTERIES
Economical
Operation

\$32⁷⁵
WITH TUBES



RADIO PROGRAMS AND COMPLETE ELECTRIC POWER FROM THE AIR WAVES

The ultimate in battery receivers. Similar in appearance and operates exactly as regular electric receivers. Every latest development is incorporated in this new set. It is now possible to enjoy radio reception in rural districts, on the farm or in outlying territories exactly as enjoyed in large, metropolitan districts.

SINGLE STORAGE BATTERY OPERATION

With seven tubes doing the work of nine (1C6, 2-34, 3-30 and 19), the circuit and tubes are so arranged that the total BATTERY DRAIN IS ONLY 1.6 amperes. Such economy of operation has never before been obtained. The single 6 volt storage battery is the only battery needed for complete operation. No additional "B" or "C" batteries are required.

RECEIVES FOREIGN AND AMERICAN BROADCASTS

WORLD-WIDE RECEPTION is made possible through the use of three bands running continuously from 540 to 18,000 kc. The three bands cover from 17 to 51, 52 to 174 and 175 to 565 meters which includes Foreign and American broadcasts and short-wave stations in addition to Amateurs, Police, Ships-at-Sea, Air-plane signals and Weather Reports.

OVERSIZED 8" ILLUMINATED AIRPLANE DIAL

The latest development in radio dials is this new, large **SELF-READING TYPE**. This larger dial makes dialing easier—so much easier that a child can operate it with full understanding. It is calibrated in kilocycles and megacycles and the Foreign Countries are plainly printed for each band so that all that is necessary to receive any country is to tune the dial to the country so marked.

SUPERHETERODYNE CIRCUIT

The latest type low drain battery tubes are used in this ultra-modern 1936 circuit. A 1C6 type is used as combination first detector and oscillator. Two 34 types serve as two intermediate frequency stages, a feature very seldom found on even the best line-powered sets. A 30 is used as a diode second detector and AVC tube. Another 30 is used in the first audio stage, and a third acts as the driver for the Class B output stage.

CLASS "B" AUDIO POWER

For the first time, Class B amplification is used in a battery receiver. This gives perfect signal intensity and clear well-rounded, high fidelity tonal response into an 8" speaker.

FULL AUTOMATIC VOLUME CONTROL

Another feature not usually found in battery receivers. Reduces fading and blaring and makes signal steady.

VARIABLE PERSONAL TONE CONTROL

Permits adjustment of the tone from deep bass to high treble at will without decreasing the quality.

THREE GANG CONDENSER

This receiver is provided with a three gang condenser, with tuned pre-selection. It is rubber mounted and of heavy construction to avoid any possibility of oscillation howls. This feature, coupled with the two double tuned stages of IF result in a sensitivity and selectivity equalled only in the finest ten and twelve tube line operated sets. Selectivity is 10 kc. and sensitivity is 3 micro-volts, ample for the weakest signals.

OPERATES ON SINGLE SIX VOLT STORAGE BATTERY

Table Model Acratone 7 Tube All-Wave Battery Receiver, complete with Tubes: Size: 18½x13½x9". Shpg. Wt. 28 lbs. Code Word: GYGOY. Retail Value \$65.50.

Model No. 32-C, less battery
Your Cost.....\$32.75

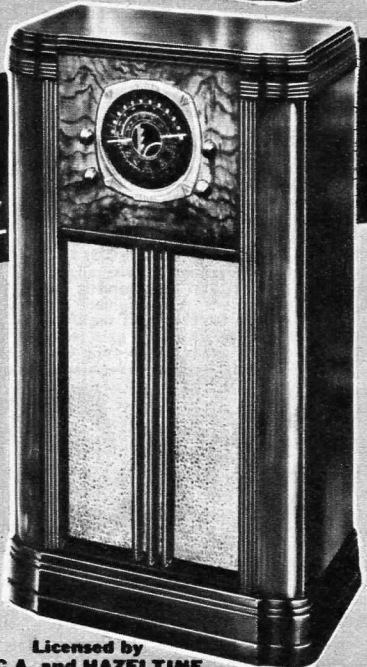
Console Model Acratone 7 Tube All-Wave Battery Receiver, complete with Tubes: Size: 39½x22x11". Shpg. Wt. 56 lbs. Code Word: GYHAV. Retail Value \$79.50.

Model No. 33-C, less battery
Your Cost.....\$39.75

COMPLETE OPERATION FROM THE AIR

By use of the Storage Battery Air-Flo Charger and Tower illustrated and described at the right, **COMPLETE ELECTRIC OPERATION IS OBTAINED FROM THE AIR**. Once installed, this complete equipment will operate continuously without care except for distilled water refill in the battery every six months.

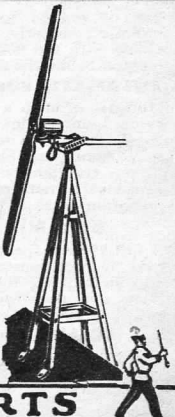
\$39⁷⁵
WITH TUBES



Licensed by R.C.A. and HAZELTINE

"AIR-FLO" CHARGER

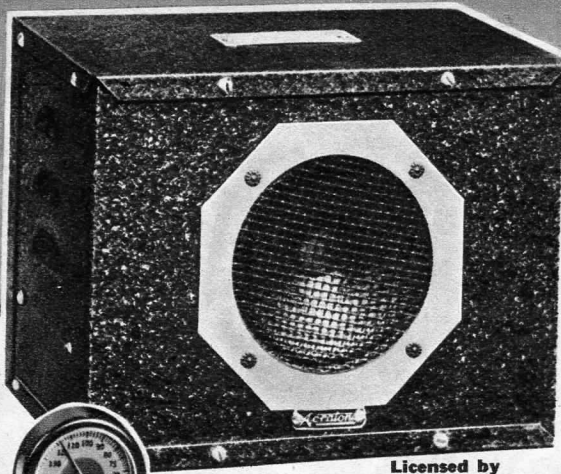
A complete wind-powered storage battery charging apparatus. Automatically disconnected when battery becomes fully charged. Charger and propeller furnished with battery clips, ammeter, cut-out relay, pipe fittings, clamps and sufficient wire for average installation. **No. 769—Your Cost...\$15.94**
TOWER, as shown at right. No. 770—Your Cost...\$5.92



GUARANTEED STORAGE BATTERY

Six volts at 120 amperes. 15 plates. Composition case, cannot leak. Shpg. Wt. 50 lbs. **No. 965—Your Cost...\$7.95**

FEDERATED LEADS with ACRATEST PARTS



5 TUBE
ACRATONE
AUTO RADIO
CUSTOM BUILT SUPER-HET
\$19.95
WITH TUBES

- ★ Tonal Quality of a Home Receiver
- ★ 2½ Watts of Audio Output
- ★ Only one small hole to drill
- ★ No spark plug suppressors to cut down engine power
- ★ 7 Tube Operation with only 5 Tubes

Licensed by
R.C.A. and HAZELTINE

A new custom built 5 tube superheterodyne automobile radio with the tonal quality and volume of a home radio set.

SINGLE UNIT CONSTRUCTION

The entire receiver, loud speaker, and power supply are contained in a single case arranged for under the dash mounting. This case is strongly built of automobile steel, finished in crinkle black. It is well louvred to provide ample ventilation and to prevent any back pressure on the speaker cone. The cover is made with a snug fit to prevent annoying rattles.

EASY INSTALLATION

The case is compact and arranged for single bolt mounting. Thus only one hole is required in the automobile dash board, for the single carriage bolt. There are only two simple connections to make, one to the car ammeter and the other to the antenna.

LATEST LICENSED CIRCUIT

The latest type superheterodyne circuit, licensed by R.C.A. and Hazeltine is employed in this receiver. A 6A7 is used as a combination first detector and oscillator and a 6D6 functions as a high gain intermediate frequency stage. A 75 type tube

serves the triple function of diode second detector, first audio stage and automatic volume control tube. The output stage employs a 41 tube with a power output of 2½ watts.

AUTOMATIC VOLUME CONTROL

A new and improved automatic volume control arrangement is provided in this receiver, assuring constant reception even when passing under bridges and other steel structures.

NO SPARK PLUG SUPPRESSORS

A radio frequency filter has been inserted in the power supply lead of the receiver which minimizes interference from spark plugs in the car. It is thus possible to eliminate spark plug suppressors, being a master distributor suppressor only required. With such an arrangement, no sacrifice in car power is made in favor of a quiet radio.

FULL SIZED DYNAMIC SPEAKER

The rugged dynamic speaker in the receiver is a full 6" in diameter and well able to handle the 2½ watt output of the 41 type tube, without rasp or rattle.

LONG LIFE VIBRATOR

A vibrator with extra heavy contacts is used for long operation in the receiver. It is of the non-synchronous type and oper-

ates in conjunction with an 84 type rectifier tube.

REMOTE CONTROL OF LATEST DESIGN

The remote control head for this receiver is of the latest type, and includes the volume control and tuning knobs. It is indirectly illuminated with no glare to interfere with the driver's vision. The dial is calibrated in kilocycles to facilitate tuning.

FOR SERVICE MEN AND DEALERS

This auto receiver is an excellent buy for the service man and dealer. It has been proven trouble-free in the field, it is compact and easy to install, it has very good pick-up, it has all the latest features desired in an automobile receiver, and it is available at a price which assures a good margin of profit. It is fully guaranteed by us and you are thereby guaranteed a satisfied customer.

Acratone 5 tube superheterodyne auto radio.

Operates on 6 volt storage battery. Size 10x7x6½". Shpg. Wt. 25 lbs. Code Word: GYDVO. Retail Value \$39.90.

Model No. 43-D, complete with tubes, distributor suppressor, and generator condenser

Your Cost \$19.95

A real BUY! 5 tube AUTO RADIO

\$16.95
WITH TUBES

Here's a 5 tube superheterodyne auto radio that has everything and yet is the lowest priced auto radio we have ever presented.

SINGLE UNIT CONSTRUCTION

The entire set is contained in a case only 5x6½x10½" made of automobile steel, finished in crinkle black. The case is shaped so that it may be mounted directly behind the dash board with the controls conveniently located below the dash.

AUTOMATIC VOLUME CONTROL

Unusual in such a low cost auto receiver, automatic volume control of the latest type is incorporated to minimize fading and blasting as the car is driven through poor reception areas near steel structures or through better reception areas in open territory.

DYNAMIC SPEAKER

A full 5" loud speaker of the dynamic type is incorporated. The voice coil and air gap are fully protected from dust, and the resultant rattles and rasps.

SEALED POWER UNIT

The transformer and vibrator in this

receiver are both contained in a single sealed steel housing. This arrangement assures extra shielding and freedom from vibrator noise.

LATEST TYPE TUBES

The tubes in the set are of the latest type, employed in an R.C.A. and Hazeltine licensed superheterodyne circuit. A 6A7 is used as a combined detector and oscillator, a 6D6 as a high gain IF stage, and a 75 for the combined diode detector, AVC and first audio stage. A 41 pentode is used as the power output tube, and delivers ample high quality volume.

AIRPLANE TYPE DIAL

The dial is indirectly illuminated, airplane type, and calibrated in kilocycles for easy tuning.

Acratone 5 tube auto superheterodyne.

Operates on 6 volt storage battery. Size 5x6½x10½". Shpg. Wt. 18 lbs. Code Word: GYDAN. Retail Value \$33.95. Model No. 42-D, complete with tubes.

Your Cost \$16.95

Licensed by
R.C.A. and HAZELTINE

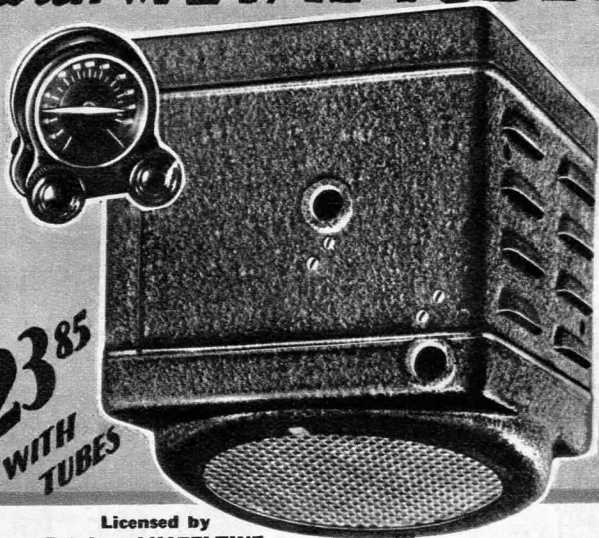


"Easy Mount"

6 tube ACRA TONE 9 TUBE PERFORMANCE! AUTO Radio with METAL TUBES

36 outstanding FEATURES

- ★ High-Gain Superhet.
- ★ Metal and Glass Tubes
- ★ No suppressors needed
- ★ Iron Core Antenna Coil
- ★ Pre-R.F. Stage
- ★ Three-gang Condenser
- ★ Double-tuned I.F. Coils
- ★ 1 Microvolt Sensitivity
- ★ 10 K.C. Selectivity
- ★ Rubber Mounted Variable Condenser
- ★ Noiseless Operation
- ★ R.F. Filament Filter
- ★ R.F. Plate Filter
- ★ Vibrator Hash Filter
- ★ Motor Noise Filter
- ★ Double-shielded Transformer for No Hum
- ★ Impregnated & Shielded Power Transformer
- ★ Hi-fidelity Tone
- ★ Pentode Output
- ★ 6½" Dynamic Speaker
- ★ Parts do not rattle
- ★ Rust-proof heavy steel sturdy casing
- ★ Spot welding insures durable rigidity
- ★ Complete draft ventilation
- ★ All parts securely strapped and mounted
- ★ Special non-rattle Tube Shields
- ★ Sure-Grip Sockets used protect all tubes
- ★ Compact Size
- ★ Single hole mounting
- ★ Fits any make of Car
- ★ Can be mounted in any one of four positions
- ★ Complete selection of remote mountings
- ★ Jack for additional Dynamic Speaker
- ★ Easy, quick installation
- ★ 1 Battery Connection
- ★ 1 Antenna Connection



\$23.85
WITH
TUBES

Licensed by
R.C.A. and HAZELTINE

What makes this the best Auto Radio Value ever offered?—compare the 36 Outstanding Features above with those of other receivers. And these features are not the only ones. It is almost unbelievable that our Engineers could embody so many fine points making for the greatest amount of sensitivity and selectivity finer than in home receivers PLUS mellow tone and tremendous power, in so small and compact a space. Yet, it has been done!

YOU WANT THESE AMAZING FEATURES

The combination of ALL-METAL and Glass tubes, plus the noiseless all-wave Vibrator are of lowest current consumption insuring long battery life! Operation is complete from the single 6 volt car storage battery! Full Automatic Volume Control guards against fading in dead spots and provides a steady, uniform signal! The RF stage ahead of the detector separates stations, prevents overlapping, eliminates interference! And it is possible to ride along and listen to stations across the continent with LOCAL STATIONS OPERATING! Six tubes do the work of 9! The Airplane Dial is indirectly lighted making for beauty!

A Custom Built Installation for EVERY Car

No more headaches trying to make the Remote Control unit fit individual car installations. Most of the present model automobiles have cutouts in the dash for

REMOTE CONTROL MOUNTING KITS

No. 13145—Dashboard Mounting Hardware: For all cars having ash tray compartments or knock-out panels. Specify make, model and year of car when ordering. Fig. A shows typical mounting on Chevrolet.

No. 13146—Mounting Kit to fit any type steering column or lower edge of instrument panel, any make or type of car. Fig. C, D.

No. 13147—Mounting Kit for direct mounting on front panel. Only two holes required. Fig. B.

Any Type Mounting Kit
Your Cost, complete..... **95¢**

FLEXIBILITY—FITS ANY CAR, ANY MAKE, ANY YEAR

Gone are the headaches of the dealer, serviceman or auto-installation man. No further need of worrying about fittings on Remote Controls or shaft spade ends. This remarkable receiver can be installed in any car by selecting the proper hardware listed below. And its compact size permits the use of both radio and a car heater, both mounted on the same fire wall. Dual speaker installations are possible—the latest and best advancement in auto radio work! The oversized 6½" Dynamic Speaker in the receiver is mounted at a predetermined angle and is not parallel to any of the sides of the receiver eliminating rattles and metallic reproduction! The installation of the additional speaker requires no receiver changes—it just plugs in!

Six Tube Compact Auto Radio Receiver: complete with 6 Raytheon Four-Pillar Tubes 6K7, 6P6, 6D6, 6A7, 75, 84; Flexible Shafting and Remote Control Mechanism, less control mounting hardware (see listing below). Size: 7½x7x8¼". Shpg. Wt. 30 lbs. Code Word: GYLDE. Retail Value \$47.70.

Model No. 44-D **\$23.85**
Your Cost, with tubes...

radio controls and these cutouts are taken advantage of with the mounting kits shown below, giving your customer a real custom built job at little cost to you.

DUAL SPEAKER INSTALLATIONS

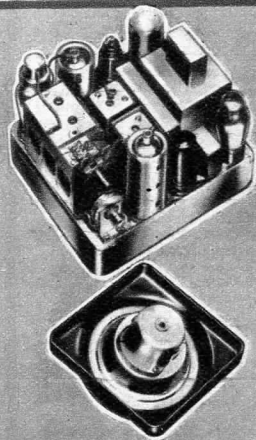
Extra DeLuxe Speaker for overhead or back-compartment operation. Plugs into receiver—simple installation. Increases fine tonal range of reproduction at car level.

No. 13148—For Dodge 36, Plymouth 36. Complete and ready to plug in.

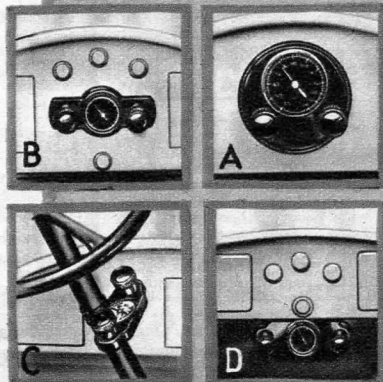
No. 13149—For late Chevrolet, Pontiac, Oldsmobile, Buick, Ford and also for installation on back of front seat on all cars. Complete and ready to plug in.

Your Cost, either type **\$3.45**

Roof and Running Board Antennas described on pages 10-12.



CUSTOM-BUILT INSTALLATION



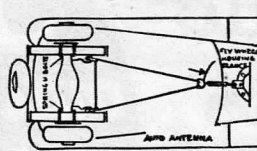
AUTO RADIO

DeLuxe Running Board Antenna



Highly sensitive, easily installed in any car. Water and rust proof. Shock-absorbing springs, and splash guard. Shpg. Wt. 4 lbs.

No. 240
Your Cost **\$1.55**



TRI-FLEX Triangle Auto-Radio Antenna

Consists of 42 strands No. 27 copper wire, wound on heavy cotton base: 20-ft. provided, sufficient for any type car. Complete instructions.

No. 11203
Your Cost **59c**

Adjustable Metal Antenna



Under running board. Mounting centers $29\frac{1}{2}$ " to 32". Overall minimum length $33\frac{1}{4}$ ". Width 8". With washers, springs, and long lead.

No. 801
Your Cost **95c**

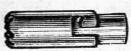
Fuse Retainer



Cadmium-plated. For 1" fuse. Heavy-duty spring contacts. Designed for auto-radios.

No. 10774
Your Cost, Each **8c**
Per Dozen **90c**

Antenna Connector



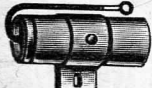
Two-piece with bayonet lock ends. Connects

auto radio to car antenna. Shpg. Wt. 1 lb.
No. 11950
Your Cost **6c**

FORD V-8 Distributor Suppressor

Special brush replaces regular distributor brush; makes possible use of contained suppressor, on Ford V-8 cars only. Shpg. Wt. 1 lb.
No. 11952
Your Cost **18c**

Generator Condensers



Grounds to frame of generator and by-passes interference.

No. 6448— $\frac{1}{2}$ mfd.
Your Cost, Each **19c**
No. 6449—1 mfd.
Your Cost, Each **25c**
Dome Light Condenser
No. 7822— $\frac{1}{2}$ mfd.
Your Cost, Each **34c**
Ammeter Condenser
No. 7823— $\frac{1}{2}$ mfd.
Your Cost, Each **20c**

120-Ohm Wire-Wound Suppressors

Small, low-resistance inductances, effectively choke out R. F. interference without reducing ignition spark.

No. 10201—Spark Plug
No. 10203—Distributor
Your Cost **27c**



LYNCH Super Filastat



350 Ohms. Only one required for each car. Replaces 7 or 9 ordinary high resistance suppressors, at considerable savings. Installed in a jiffy. Full instructions furnished.
No. 10722
Your Cost **\$1.62**

"Sash-Cord" Antenna Wire

No. 15539
Your Cost, per foot ... **1 $\frac{1}{2}$ c**

De Luxe Roof Antenna



Can be easily inserted in roof lining of any car. Measures 13"x33" and utilizes fine grade of pure copper entirely encased in specially prepared material. It provides ample pickup. Very suitable for open cars.

No. 809
Your Cost **29c**

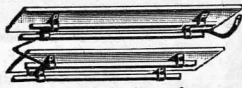
WARD DeLuxe Ant. Molded Rubber



A one-piece running-board antenna, 100% weatherproof. Two-bolt mounting. Handsome substantial appearance. 7" x 40". Shpg. Wt. 5 lbs.

No. 675
Your Cost **\$2.06**

"Tur-Top" Antenna For Turret-Top Cars



Quickly installed under running-boards. Cadmium-plated steel. Rubber-covered. Shielded lead-in. Instructions furnished.

No. 1701—Single
Your Cost **\$1.18**
No. 1702—Double
Your Cost **\$2.35**

Special Car Antenna



A highly sensitive, running-board antenna, easily installed on any make of car. Sturdily constructed, completely waterproofed and rustproofed. Lead wire is high tension, non-shorting type.

No. 316
Your Cost, Each **79c**

AEROVOX AUTO RADIO CONDENSERS

Suppressor Condensers

Type 1120—1.0 Mfd.
No. 6431—List 75c
Yr. Cost, Each **44c**
Type 1140—0.5 Mfd.
No. 6432—List 50c
Yr. Cost, Each **29c**

Suppressor Condenser for FORDS

Type 1150—Cap. 5 Mfd.
No. 6433
List 60c
Your Cost **35c**

Ammeter Condensers

No.	Type	Cap.	Your Cost Each
6434	1160	0.5	29c
6435	1170	1.0	44c

Dome Light Filter Condenser

Type 1180
No. 6436—List \$1
Yr. Cost Each **59c**

Oil-Filled Vibrator Condensers

Type 1130—One Lead

No.	Cap.	No.	Cap.
10226	.007	10223	.04
10220	.01	10224	.05
10221	.02	10227	.06
10222	.03	10225	.07

Your Cost, Each, Any Type **26c**

Type 1131—Two Leads

No.	Cap.	No.	Cap.
10228	.007	10229	.01
10230	.02		

Your Cost, Each, Any Type **26c**

Long Type Oil-Filled Vibrator Cond'rs

No.	Type	Cap.	Your Cost
10231	1135	.01	35c
10232	1135	.5	38c

Paper Tubular Vibrator Condensers

No.	Cap.	Your Cost
6437	.007	18c
6438	.01	
6439	.02	24c
6440	.03	29c
6441	.04	
6442	.05	32c

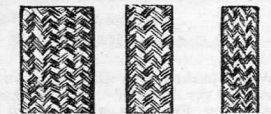
Type 1684—1600 W. V. D. C.

Shielded Lead-In Wire

Consists of stranded cable with easy-strip rubber insulation enclosed in braided shield of tinned copper wire. Shields against interference from high-tension lines, motors and similar disturbances.

No. Length Your Cost
4460 50-ft. coil \$0.45
4461 100-ft. coil 0.88

Copper Shielding



Finest-grade copper. Available in natural copper-finish or tinned. Used on auto radio, P. A., etc.

Natural Copper Finish

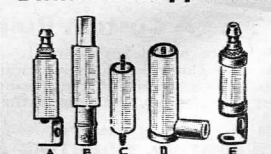
No.	Diam.	10-ft.	100-ft.
4472	$\frac{1}{4}$ "	15c	\$1.19
4471	$\frac{3}{8}$ "	20c	1.69
4470	$\frac{1}{2}$ "	30c	2.49
4469	1"	59c	4.95

FORD V-8 Filter Condenser

Special mounting bracket, fits around Ford distributor head. The only type to provide correct filtering for Ford V-8 cars.

No. 15538
Your Cost **25c**

Spark Plug and Distributor Suppressors

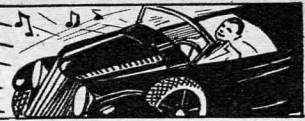


Highly efficient, for use in all auto-radio installations. Resistance element encased in waterproof tube, keeps leakage at absolute minimum.

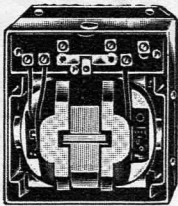
No.	Type	Illustration	Your Cost
6450	Spark Plug A		
6451	Distributor B		
6534	Cable C		
6453	Angle D		
6455	Ford V-8 E		

12c

ACCESSORIES



GEN-E-MOTOR Auto "B" Eliminators NEW COMPACT MODELS



Complete with built-in filter units, for use as battery eliminators for auto receivers using "B" batteries, and for installation in auto sets where it is desired to remove the filter system used with the old vibrator unit. The entire unit is housed in a sturdy metal case measuring 2 1/4" x 5 1/4" x 5 3/8". The Gen-E-Motor is floated in rubber, assuring complete freedom from vibration. The armature is supported by two sets of ball bearings. Shpg. Wt. 10 lbs.

No.	Output Volts	Milli-amps	Inter-Taps	Battery Drain-Amps	List Price	Your Cost
919	180	30	none	1.94	\$18.00	\$10.58
806	200	40	none	2.75	18.00	
631	225	50	none	3.80	18.00	\$10.78
632	250	50	none	4.20	18.00	
517	180	30	90	1.94	18.50	\$10.78
920	135	30	67 1/2	1.42	18.50	

SPECIAL FOR SOUND TRUCKS

268	275	120	none	9.0	\$19.50
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FOR 32-VOLT FARM USE

518	135 volts tapped at 67 1/2 volts	\$23.00	\$13.52
924	180 volts tapped at 90 volts	23.00	

HOMCHARGER New Hi-Rate 10 to 6 Amp. Automatic



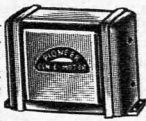
A heavy-duty charger (illustrated) for those who want the best. Fast 10-amp. charging-rate will charge any battery quickly, yet in perfect safety because of automatic tapering feature. Equipped with accurate ammeter; no guessing about charging-rate. Complete with ammeter, 10-ft. cables. De Luxe dash receptacle, bakelite charging-plug, operating and installation instructions. For 110-volt, 60-cycle A. C. Shpg. Wt. 15 lbs.

No. 8861—List \$16.95
Your Cost **\$9.97**

6-Ampere HOMCHARGER
Not illustrated. Complete with cables, steering post, charging-clamp that fits all cars, complete instructions. Shpg. Wt. 11 lbs.
No. 8862—List \$9.95
Your Cost **\$5.85**

New 5-3 Ampere HOMCHARGER Booster
Not illustrated. With cables, steering-post bracket, and instructions. Shpg. Wt. 8 lbs.
No. 8863
Your Cost, Each **\$3.60**

GEN-E-MOTOR Replacement Motors



For auto radio "B" supply. Adaptable to any set using vibrator type supply. Use your present choke and filter system. Operates from 6-volt source. Cadmium Case, 2 5/8" x 5/8" x 4" high. Shpg. Wt. 8 lbs.
No. 8857—225 volts, at 50 M. A.
No. 10776—250 volts, at 50 M. A.
Your Cost **\$7.64**
Either Type.....

Remote Cables

Consists of inside cable and outside armor. Sizes not listed on special order.

No.	Size	Your Cost
11933	12"	\$0.42
11934	16"	.49
10822	18"	.49
11935	24"	.69
9747	30"	.79

REPLACEMENT CABLE

For Majestic, Atwater-Kent, Arvin, Auburn and Clarion Set. 8-ft. sheath, 9-ft. cable.
No. 10823
Your Cost **69c**

Cable Spade Ends

A—No. 11936.
B—No. 11937.
C—No. 11938.
For use with above cables. Can be soldered to cable ends by sweating with iron.
Your Cost, Any Type, Each **5c**

Filteron Robotrel

Uses a new principle of rectifying motor noises in the antenna, eliminating the use of spark-plug suppressors. Simple to install, easy to adjust. Mounts anywhere near the receiver. Brings your motor back to full efficiency by eliminating suppressors. Shpg. Wt. 1 lb.
No. 11951
Your Cost **\$1.47**



CROWE REMOTE CONTROL

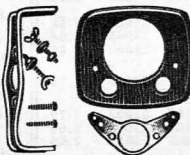
Universal Head



Latest in airplane dials for auto radios. Mounts on any car instrument panel, steering column, or under dashboard, when used with mounting kits listed below. 550 to 1500 Kc. calibration. 6 to 1 ratio. 300-degree pointer travel. Complete with bayonet type pilot bulb. Shpg. Wt. 3 lbs.

No. 11838—Your Cost, less mounting hardware **\$2.20**
Cables require spade tips "A" and "B" listed at the left.

Instrument Panel Mounting Kit



For mounting Crowe Universal Head on dashboard panel. Kit includes dashplate, brackets, all hardware.

No. Car
11839 De Soto 35 Airstream.
11840 Ford* 34, Deluxe, Std.
11841 Hupmobile 35.
11842 Plymouth 35 (early).
11843 Plymouth 35 (late).
11939 Chrysler 35.
11940 Dodge 35.
Your Cost, Each Kit, less head. **70c**
*Hole must be cut in panel.

Panel Mounting Kit For 1935 Ford Car

No. Car
11844 De Luxe Model (taupe).
11845 Stand. Model (maroon).
Your Cost, Each Kit, less head. **59c**

Steering Column Bracket



Complete with fibre liners to fit all columns 1 1/4" diam. or less. For mounting Universal Head on either side of steering column. Complete with nuts, lockwashers, and screws. Finish matches head.
No. 11846 Your Cost **19c**

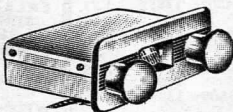
Under-The-Dash Mounting Kit



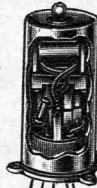
All "34 Buick," Oldsmobile, Pontiac, and Chevrolet dash-panels are pierced to receive above bracket. Can be used for '35 Buicks, Chevrolets, and many other cars. Complete with hardware.
No. 11847
Your Cost **12c**

Remote Control for GENERAL MOTORS Cars

For all '35 Oldsmobiles, Pontiacs, Chevrolet Master Series.
No. 11848—Head only **\$3.53**
Your Cost
Escutcheon Plate For Above Head
No. Car Your Cost
11849 Oldsmobile, all '35 mods. **53c**
11850 Pontiac, all '35 mods. **53c**
11851 Chev. '35 Master Series **41c**
Remote cables for these controls require one each of Spade Tips "A" and "B" listed at the left, plus suitable length cables.



Genuine Vibrator for RCA Auto Radio M.-34



Input voltage is 4 to 8 volts. Output voltage is approximately 265 volts at 50 M. A. Double aluminum case with felt insulator. Size 4 1/2" x 2 1/2". Shpg. Wt. 3 lbs.
RCA No. 7064—

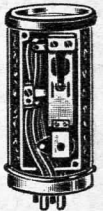
No. 10204
Your Cost **\$3.60**

Hydrometer



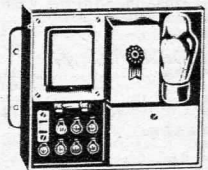
Used to determine the exact condition of your storage battery. One-piece rubber bulb, clear readings on float.
No. 4200
Your Cost **24c**

Genuine PHILCO Vibrator

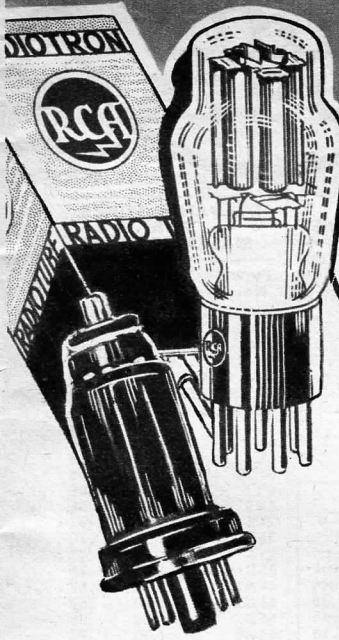


Genuine Philco Part No. 38-5036, replacement for Transitone, 6F, 9F, 5T, 10, etc. Full-wave type. Shpg. Wt. 2 lbs.
No. 10824
Your Cost **\$2.94**

GENERAL Multitap Auto "B" Supply



Provides filtered voltages of 90, 135, 180 and 250. Drain 4 amps. Case measures 6 3/4" x 6 1/4" x 2 1/2". Complete with 84 tube. Shpg. Wt. 15 lbs.
No. 456
Your Cost **\$8.82**



Cunningham Radiotrons

GUARANTEED FOR 6 MONTHS

We unconditionally guarantee for 6 months every RCA Radiotron sold, AND WILL PROMPTLY AND GLADLY EXCHANGE ANY SUCH TUBE, should it fail to perform satisfactorily within that time (excepting only burn-outs and breakages).

RCA Cunningham-Radiotron tubes enjoy acknowledged leadership throughout the world, for their superior performance and dependable, uniform characteristics. Now you can buy genuine Radiotrons at the latest low prices. Our position as nationwide distributor of RCA Cunningham-Radiotrons, continuously carrying an enormous stock, assures you of receiving fresh, perfect tubes, and prompt service, at all times.

RCA CUNNINGHAM-RADIOTRON

Glass and Metal Tube MANUALS

Glass Tube Manual:
Technical data on all glass tubes to date.
No. 729A — **20¢**
Your Cost...
Metal Tube Manual:
Technical bulletin.
No. 729B — **10¢**
Your Cost...



Type	Description	List Price	Dealer's Net Price	Type	Description	List Price	Dealer's Net Price
00-A	Detector Triode.....	\$1.25	\$.73	83	Full-Wave Mercury Vapor Rec.	\$.89	\$.52
01-A	Detector Amplifier Triode.....	.59	.34	83-V	Full-Wave Rectifier.....	1.50	.88
1	Half-Wave Mercury Vapor Rec.	1.25	.73	84	Full-Wave Rectifier.....	1.25	.73
1-V	Half-Wave Rectifier.....	.89	.52	85	Duplex-Diode-Triode.....	.99	.58
10	Power Amplifier Triode.....	2.00	1.18	89	Triple-Grid Power Amplifier.....	.99	.58
11	Detector-Amplifier Triode.....	1.25	.73	V99	Detector-Amplifier Triode.....	.99	.58
12	Detector-Amplifier Triode.....	1.25	.73	X99	Detector-Amplifier Triode.....	.99	.58
112-A	Amplifier-Triode Triode.....	.69	.40	1A4	Super Control RF Amp. Tetrode	1.50	.88
19	Class "B" Twin Amplifier.....	.99	.58	1A6	Pentagrid Converter.....	1.25	.73
20	Power Amplifier Triode.....	.99	.58	2A3	Power-Amplifier Triode.....	1.25	.73
22	RF Amplifier Tetrode.....	1.25	.73	2A5	Power Amplifier Pentode.....	.99	.58
24-A	RF Amplifier Tetrode.....	.89	.52	2A6	Duplex-Diode Hi-Mu Triode....	.99	.58
26	Amplifier Triode.....	.59	.34	2A7	Pentagrid Converter.....	1.25	.73
27	Detector-Amplifier Triode.....	.69	.40	6A4	Power Amplifier Pentode.....	1.25	.73
30	Detector-Amplifier Triode.....	.69	.40	6A6	Class "B" Twin Amplifier.....	1.25	.73
31	Power-Amplifier Triode.....	.69	.40	6A7	Pentagrid Converter.....	1.25	.73
32	RF Amplifier Tetrode.....	1.25	.73	1B4	Screen-Grid RF Amplifier.....	1.75	1.03
33	Power Amplifier Pentode.....	.99	.58	1B5/25S	Duplex-Diode-Triode.....	1.25	.73
34	Super Control RF Ampl. Pent.	1.25	.73	2B7	Duplex-Diode-Pentode.....	1.25	.73
35	Super Control RF Amplifier....	.89	.52	6B7	Duplex-Diode-Pentode.....	1.25	.73
36	RF Amplifier Tetrode.....	.89	.52	1C6	Pentagrid Converter.....	1.50	.88
37	Detector-Amplifier Triode.....	.69	.40	6C6	Triple-Grid Detector-Amplifier..	.99	.58
38	Power Amplifier Pentode.....	.89	.52	6D6	Triple-Grid-Super-Control Am....	.89	.52
39-44	Super Control RF Ampl. Pent.	.89	.52	6E5	Electron-Ray Tube (Indicator)	1.50	.88
40	Voltage Amplifier Triode.....	.69	.40	6F7	Triode-Pentode.....	1.50	.88
41	Power Amplifier Pentode.....	.89	.52	5Z3	Full-Wave Rectifier.....	.89	.52
42	Power Amplifier Pentode.....	.99	.58	12Z3	Half-Wave Rectifier.....	.99	.58
43	Power Amplifier Pentode.....	.99	.58	25Z5	Rectifier-Doubler.....	.99	.58
45	Power Amplifier Triode.....	.69	.40	874	Voltage Regulator—Glow.....	4.90	2.88
46	Dual-Grid Power Amplifier.....	.99	.58	876	Current Regulator (Ballast)....	6.70	3.94
47	Power Amplifier Pentode.....	.89	.52	886	Current Regulator (Ballast)....	6.75	3.97
48	Power Amplifier Tetrode.....	2.50	1.47	ADDITIONAL 10% DISCOUNT may be deducted on all orders for 25 or more tubes (Glass Type only.)			
49	Dual-Grid Power Amplifier.....	.99	.58				
50	Power Amplifier Triode.....	2.50	1.47	RCA ALL-METAL TUBES			
53	Class "B" Twin Amplifier.....	1.25	.73				
55	Duplex-Diode Triode.....	.99	.58	Type	Description	Price	Net Price
56	Super-Triode Amplifier Detec...	.69	.40	6A8	Pentagrid Converter.....	\$1.75	\$1.03
57	Triple-Grid Amplifier Detector..	.89	.52	6C5	Detector Amplifier Triode.....	1.25	.73
58	Triple-Grid Super Control Amp..	.89	.52	6F5	High-Mu Triode.....	1.25	.73
59	Triple-Grid Power Amplifier....	1.25	.73	6F6	Power Amplifier Pentode.....	1.50	.88
71-A	Power Amplifier Triode.....	.69	.40	6H6	Twin Diode.....	1.25	.73
75	Duplex-Diode Hi-Mu Triode....	.99	.58	6J7	Triple Grid Detector Amplifier..	1.60	.94
76	Super-Triode Amplifier Detector	.69	.40	6K7	Triple Grid Super-Control Amp.	1.50	.88
77	Triple-Grid Detector-Amplifier..	.99	.58	6L7	Pentagrid Mixer Amplifier.....	1.75	1.03
78	Triple-Grid Super Control Amp..	.99	.58	6Q7	Duplex-Diode High-Mu Triode..	2.00	1.18
79	Class "B" Twin Amplifier.....	1.25	.73	6R7	Duplex Diode Triode.....	2.00	1.18
80	Full-Wave Rectifier.....	.59	.34	5Z4	Full-Wave High-Vacuum Rec....	1.60	.94
81	Half-Wave Rectifier.....	2.00	1.18	25A6	Power Amplifier Pentode.....	1.75	1.03
82	Full-Wave Mercury Vapor-Rec.	.89	.52	25Z6	High Vacuum Rectifier-Doubler.	1.75	1.03

Sylvania Radio TUBES

Type No.	List Price	Your Cost	Type No.	List Price	Your Cost	Type No.	List Price	Your Cost
01A	\$.70	\$.33	6E6	\$1.70	\$.95	43	\$1.10	\$.55
1A1	1.00	.56	6F7	1.60	.84	45	.80	.38
1A4	1.75	.98	6Z4/84	1.35	.70	46	1.10	.55
1A6	1.35	.70	7	1.10	.62	47	1.00	.50
1B1	1.25	.70	8	1.10	.62	48	2.60	1.40
1B4	2.00	1.00	9	1.10	.62	49	1.10	.55
1B5	1.35	.70	10	2.10	1.12	50	2.60	1.40
1C1	1.00	.56	12A	.80	.38	53	1.35	.70
1C6	1.60	.84	12A5	2.10	1.18	55	1.10	.55
1D1	1.25	.70	12A7	2.20	1.22	56	.80	.38
1E1	1.25	.70	12Z3	1.10	.55	57	1.00	.50
1G1	1.25	.70	15	2.00	1.12	58	1.00	.50
1V	1.00	.50	18	2.00	1.12	59	1.35	.70
2	1.00	.56	19	1.10	.55	71A	.80	.38
2A3	1.35	.70	20	1.10	.55	75	1.10	.55
2A5	1.10	.55	22	1.35	.70	76	.80	.38
2A6	1.10	.55	24A	1.00	.50	77	1.10	.55
2A7	1.35	.70	25Z5	1.10	.55	78	1.10	.55
2B7	1.35	.70	26	.70	.33	79	1.35	.70
3	1.10	.62	27	.80	.38	80	.70	.33
4	1.00	.56	30	.80	.38	81	2.10	1.12
5	1.10	.62	31	.80	.38	82	1.00	.50
5Z3	1.00	.50	32	1.35	.70	83	1.00	.50
6	1.50	.84	33	1.10	.55	83V	1.60	.84
6A3	1.60	.89	34	1.35	.70	84	1.35	.70
6A4/LA	1.35	.70	35/51	1.00	.50	85	1.10	.55
6A6	1.35	.70	36	1.00	.50	89	1.10	.55
6A7	1.35	.70	37	.80	.38	V99	1.10	.55
6B5	2.25	1.25	37	.80	.38	X99	1.10	.55
6B7	1.35	.70	38	1.00	.50	182B	1.65	.92
6C6	1.10	.55	39/44	1.00	.50	183	1.65	.92
6D6	1.00	.50	41	1.00	.50	485	1.45	.81
6E5	1.60	.80	42	1.10	.55	864	1.60	.89

SYLVANIA ALL-METAL TUBES		
Type No.	List Price	Your Cost
5Z4	\$1.60	\$.89
6A8	1.75	.98
6C5	1.25	.70
6F5	1.25	.70
6F6	1.50	.84
6H6	1.25	.70
6J7	1.60	.89
6K7	1.50	.84
6L7	1.75	.98
6Q7	2.00	1.11
6X5	1.75	.98

SYLVANIA TUBES FOR MAJESTIC SETS		
Type No.	List Price	Your Cost
1B5/25S	\$1.35	\$.70
2A7S	2.30	1.28
2B7S	2.10	1.18
2S/4S	2.65	1.48
2Z2/G84	1.85	1.03
6A7S	2.30	1.28
6B7S	2.10	1.18
6C7	1.90	1.06
6D7	1.75	.98
6E7	1.75	.98
6F7S	1.90	1.06
6Y5	1.90	1.06
6Z5	1.90	1.06
24S	1.30	.73
25S	1.35	.70
27S	.80	.45
35S/51S	1.40	.78
46A1	1.10	.62
46B1	1.10	.62
55S	1.70	.95
56AS	1.30	.73
56S	1.30	.73
57AS	1.75	.98
57S	1.75	.98
58AS	1.75	.98
58S	1.75	.98
75S	1.70	.95
85AS	1.70	.95

CHAMPION BALLAST TUBES
 Replaces Resistance Cord on AC-DC Sets.

Type No.	Your Cost
185R	\$.39
185R3*	.45
165R	.39
165R3*	.45

*These two types have tapped section to supply 8 volts to operate two No. 40 Brown Bead 6-8 volt Mazda Pilot Lamps.

ADDITIONAL DISCOUNT
 5% additional discount from net prices shown above, may be deducted on all orders amounting to 25 or more Sylvania tubes. (Glass types only.)

6 MONTH GUARANTEE
 Sylvania Set Tested Tubes in sealed cartons are unconditionally guaranteed for 6 months from date of purchase. Only exceptions are burnouts and breakages.

FREE! Sylvania Service Hints, Volume two of Service Hints, with a wealth of engineering information is yours for the asking, with your order for Sylvania's.

RAYTHEON 4 PILLAR tubes

Type No.	List Price	Your Cost	Type No.	List Price	Your Cost	Type No.	List Price	Your Cost
004	\$1.35	\$.68	19	\$1.10	\$.55	76	\$.75	\$.37
01A	.65	.32	20	1.10	.55	77	1.10	.55
0Z3	1.35	.68	22	1.35	.68	78	1.10	.55
1A4	1.75	.88	24A	1.00	.50	79	1.35	.68
1A6	1.35	.68	26	.65	.32	80	.65	.32
1B4/951	2.00	1.00	27	.75	.37	81	2.10	1.05
1B5/25S	1.35	.68	30	.75	.37	82	1.00	.50
1C6	1.60	.80	31	.75	.37	83	1.00	.50
1V	1.00	.50	32	1.35	.68	83V	1.60	.84
2A3	1.35	.68	33	1.10	.55	84 (6Z4/84)	1.35	.68
2A3H	1.35	.68	34	1.35	.68	85	1.10	.55
2A5	1.10	.55	35/51	1.00	.50	89	1.10	.55
2A6	1.10	.55	36	1.00	.50	X99	1.10	.55
2A7	1.35	.68	37	.75	.37	V99	1.10	.55
2B7	1.35	.68	38	1.00	.50	182B	1.65	.83
5Z3	1.00	.50	39/44	1.00	.50	183	1.65	.83
6A3	1.60	.89	40	.75	.37	485	1.45	.81
6A4 (LA)	1.35	.68	41	1.00	.50	950	2.20	1.10
6A6	1.35	.68	42	1.10	.55	WD11	1.35	.68
6A7	1.35	.68	43	1.10	.55	WX12	1.35	.68
6B5	2.25	1.25	45	.75	.37	BA	7.50	3.77
6B7	1.35	.68	46	1.10	.55	BH	4.65	2.34
6C6	1.10	.55	47	1.00	.50	BR	2.75	1.38
6D6	1.00	.50	48	2.60	1.30	LA (6A4)	1.35	.68
6E5	1.60	.80	49	1.10	.55			
6E6	1.70	.85	50	2.60	1.30			
6F7	1.60	.80	52	1.70	.85			
6Z4/84	1.35	.68	53	1.35	.68			
12A5	2.10	1.05	55	1.10	.55			
12A7	2.20	1.10	56	.75	.37			
12Z3	1.10	.55	57	1.00	.50			
25Z5	2.10	1.05	58	1.00	.50			
10	1.10	.55	59	1.35	.68			
12A	.75	.37	71A	.75	.37			
15	2.00	1.00	75	1.10	.55			

RAYTHEON ALL-METAL TUBES		
Type No.	List Price	Your Cost
0Z4	\$1.75	\$.98
5Z4	1.60	.89
6A8	1.75	.98
6C5	1.25	.70
6F5	1.25	.70
6F6	1.50	.84
6H6	1.25	.70
6J7	1.60	.89
6K7	1.50	.84
6L7	1.75	.98
6Q7	2.00	1.11
6R7	2.00	1.11
6X5	1.75	.98
25A6	1.75	.98
25Z6	1.75	.98

RAYTHEON SHIELDED TUBES FOR MAJESTIC SETS		
Type No.	List Price	Your Cost
2A7S	\$2.30	\$1.28
2S/4S	2.65	1.48
2Z2/G84	1.85	1.03
6A7S	2.30	1.28
6B7S	2.10	1.18
6C7	1.90	1.06
6D7	1.75	.98
6E7	1.75	.98
6F7S	1.90	1.06
6Y5	1.90	1.06
6Z5	1.90	1.06
24S	1.30	.73
27S	.80	.45
35S (51S)	1.40	.78
55S	1.70	.95
56S	1.30	.73
57S	1.75	.98
57A-S	1.75	.98
58S	1.75	.98
58A-S	1.75	.98
75S	1.70	.95
85A-S	1.70	.95

Raytheon 4-pillar tubes are unconditionally guaranteed for a period of 6 months from date of purchase. We will cheerfully and promptly exchange any such tubes proving defective within that time. The only exceptions are burnouts and breakages.

ADDITIONAL DISCOUNT
 10% additional discount from net prices may be deducted on all orders amounting to 25 or more Raytheon GLASS or METAL TUBES.

NOTE: Deduct 5% additional on all orders for 25 or more RAYTHEON SHIELDED TUBES.

ACRATONE SOUND SYSTEMS will make MORE MONEY for YOU!



MAKE MORE MONEY WITH P.A.

Big profits, triple incomes, extra money and the elimination of business worries can be attained with no investment and a little effort in the Public Address field! The sales possibilities have yet to be tapped! All indications point to this year topping all others in sales since sound equipment was first introduced!

It is a Presidential Election Year which means one of the biggest and "loudest" campaigns in the country's history. With Sound playing the biggest part in bringing Political messages before the voters, every Serviceman and Dealer throughout the land, is afforded the opportunity of tremendous profits!

NEW ACRATONE LINE

On the following pages, Federated Purchaser, Inc. is proud to present THE MOST COMPLETE line of sound amplifying equipment. Your requirements may run from 5 to 600 watts, for the operation of from 1 to 200 speakers, inputs for microphones, tuners or phonograph, equipment for fixed installations, for portable uses or for car or truck work . . . the Acratone line contains what you need.

Acratone Engineers, headed by Mr. Clifford E. Denton have again demonstrated that their skill and knowledge is foremost in the Sound field with the development of this new line embodying the features of extreme high gain, multi-mixer-inputs, universal out-puts, high heat dissipation and high-fidelity performance. All ratings and specifications are given after exhaustive checks on Decibel meters and Cathode Ray Oscillographs. Each production amplifier is made of the highest grade of materials and each is individually checked on the aforementioned test equipment—before being packed for shipment!

GREATER VALUE IN VERSATILE MODELS

A typical example of the versatility and practical application of Acratone amplifiers is the 15-24 Watt Acratone Convertible Amplifier on page 18. With three mixing inputs, it can be used on AC current, it is available as a portable unit and, in addition, by use of a separate generator-converter unit, it will operate on a 6 volt storage battery power source for sound truck work or where AC is not available! Such versatility can be found throughout the Acratone line—versatility that means more dollars saved by you plus additional uses for the equipment you sell or rent.

TYPICAL SYSTEMS SERVE AS GUIDE

On each of the following amplifier pages are given a few suggested complete systems. The auxiliary equipment and accessories such as microphones, speakers, etc., have

been chosen with the greatest of care for best matching and to satisfy the greatest number of persons. For those who are unacquainted with the selection of various components, these listings will serve as an accurate guide.

It should be remembered, however, that these systems are selected for installation in generalized locations. The substitution of other components such as microphones, speakers and baffles, can easily be made by consulting the complete listings.

NO INSTALLATION TOO LARGE

Federated Purchaser, Inc. has been supplying sound amplification systems for various uses for many years. No installation is too large or too complicated that it cannot be properly handled. Pictured on this page are two specific Acratone systems which are performing day in and day out in a satisfactory manner, as are thousands of other Acratone amplifiers.

The Rack and Panel System was designed and built for the Long I Grotto in New York City. This unit contains three 30 high-gain Model 1830 amplifiers (page 19), with outputs for 24 dynamic speakers. It uses the No. 194 Tuner (page 28) for radio reception, automatic record changer No. 257 (page 37) and three microphone inputs. By means of a switching network, any one or all of the inputs may be fed into one or all of the amplifiers, providing power output as high as 90 watts. From one pair to 24 speakers may be used on any one or all of the amplifiers.

Illustrated, also, is the Atlantic City, N. J. Safety Car using the No. 1862 Auto Amplifier Complete System (page 25). Among other cities using similar Acratone installations are Jersey City, Asbury Park and Trenton (N. J.). A special rack-mounted unit using a No. 1870 amplifier (page 25) is now used by the New York City Police Department. The reliability of Acratone equipment is stressed by the long list of prominent satisfied users!

FREE ADVISORY SERVICE

Remember—no matter what your requirements are, no matter what ideas you wish incorporated in your own installations and no matter what information you need on the equipment listed in this book, Acratone Engineers and Federated Purchaser, Inc. can help you. Take advantage of the Free Advisory Service which has aided thousands of Federated's customers. Write, enumerating full details, specifications with your own suggestions included.

Free Advisory Service is not limited only to technical problems, our entire Sales Organization is at your disposal if you need any assistance in "landing" contracts. Let us know your needs and remember—no installation is too large for Acratone Amplifying Systems!



Acratone Public Address Equipment has a definite demand in practically every type of industry. A few of its applications are listed below. Go over the list carefully and try to associate a few of them with the possibility of installations in your vicinity!

Hotels **Dinner Clubs**
Churches **County Fairs**
Theatres **Musicians**
Banquets **Skating Rinks**
Carnivals **Amusement Parks**
Sound Trucks **Race Tracks**
Spot Salesmen **Orchestras**
Conventions **Taverns**
Dance Halls **Airplanes**

Store Call Systems
Morticians' Chapels
Athletic Fields
Store Advertising
Office Inter-Communicating
Political Rallies
Schools and Colleges***

YOUR FRIENDS ARE YOUR CUSTOMERS

One need not describe a complete, detailed list of the possible users of Acratone Sound Equipment. It would be a tremendous list. Elsewhere on this page are given just a few applications.

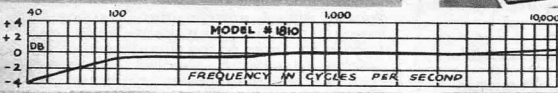
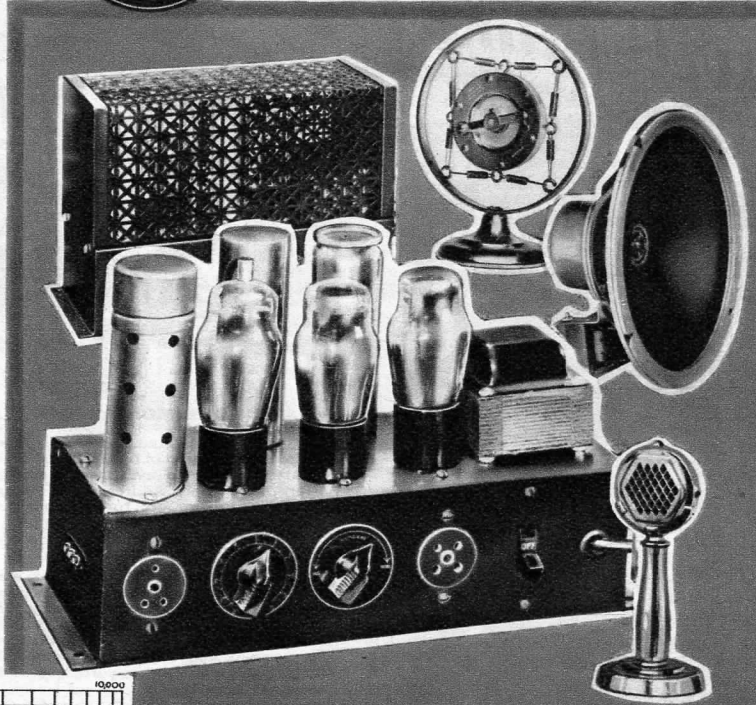
***Word has just been received that the Public Works Administration will not pay for the construction of new schools unless provision is made for Sound Equipment in such schools. That means that every new school must have, as an integral part, a complete P.A. System! Make that your first lead!

THREE MIXER ACRA TONE 5 to 8 HIGH GAIN Amplifier

- ★ High Fidelity Performance at Full Power Output
- ★ 24 Hour Operation
- ★ Crystal or Velocity Microphones
- ★ Low Hum Level
- ★ Compact Size

SPECIFICATIONS

Peak Power Output Watts	8
Rated Power Output Watts	5
Number of Audio Stages	4
Tube Compliment	
1-6C6, 1-75, 1-6B5, 1-80	
Gain at 1000 Cycles	
High Level	127 db
Medium Level	72 db
Inputs: 3	One microphone
Two low level hi-imp.	
Output Impedance	7000 ohms
Hum Level—	
Below Max. Output	45 db
Field Sup., 1spkr. (1000-2500 ohms)	
Power Consumption Watts	60



ZERO CENTER MIXING CIRCUITS

Never before has a 5 watt amplifier been equipped with mixing and fading facilities. By the inclusion of Zero Center control on this model it is possible to mix a high gain microphone input with either of two medium gain inputs. This is accomplished by a mere turn of the control either to the left or right depending upon which of the inputs is desired. The volume of the high

level program source is dependent upon how far off zero center the control is turned. At exact zero center, the microphone is alone effective. A separate control is provided which individually controls the volume level from the microphone.

FOR SMALL INSTALLATIONS

This amplifier will meet all the requirements for complete installation in clubs, hotels, or homes. With the provision for three input circuits, music may be provided in many places where it has been heretofore impossible. Will also prove of great value where it is desired to give aid to the hard-of-hearing. Up to twenty-five headsets may be used on the amplifier with sufficient volume for persons not totally deaf.

FULL 5 WATT OUTPUT

A full 5 watts of power is available from this amplifier. By using the proper coupling transformer. This is sufficient to drive two of either our 15 or 30 watt booster amplifiers described on Page 24.

FIELD SUPPLY

A field supply is available, sufficient to operate a single speaker of from 1000 to 2500 ohms.

FREQUENCY RESPONSE

The wide range frequency response (60-10000 cycles) with a practically flat characteristic makes it suitable for use where high quality is demanded.

Acra-Test advanced engineering is evident throughout even these small 5 watt amplifiers. Features expected only on more expensive equipment are provided, and first quality material is used. Rugged steel chassis, finished in telephone black, and oversized parts make this little giant a real worthwhile investment for public address installations where the output requirements do not exceed 5 watts.

5 Watt Amplifier—Size 12x8½x6". Shpg. Wt. 15 lbs. Code Word: **GEDER**. Retail Value \$27.90.

Model No. 1810
Your Cost, less tubes **\$13.95**
 Kit of Matched Tubes..... \$2.55

Complete 5 Watt System: Acratone No. 1810 Amplifier with tubes; No. 784 Double-Button Microphone; No. 1244 Combination Desk Stand with springs; No. 7338 Mike Transformer; Mike Battery; 12 ft. No. 4588 Mike Cable; Acra-Test 8½" Dynamic Speaker No. 497; 50 ft. No. 10045 Speaker Cable; No. 513 Celotex Baffle. Code Word: **GEGET**. Retail Value \$57.00.

Complete System No. 1811

Your Cost..... \$28.50

Same System as above but with No. 13630 Crystal Microphone and No. 13730 stand instead of Carbon Mike, less desk stand, transformer, battery. Code Word: **GEHAT**. Retail Value \$71.00.

Complete System No. 1812

Your Cost..... \$35.50

CALL SYSTEM

IN MODERN CABINET

The 5 Watt Amplifier has been enclosed in a beautiful Modern Cabinet for use on locations where the amplifier is to be exposed to view. The cabinet unit is particularly advantageous for inter-office calling systems, for announcements in train or bus terminals, or for counter to kitchen calls in restaurants. An 8½" dynamic speaker is included in the cabinet, and a convenient socket is provided for plugging in the microphone. Retail Value \$49.90. Code Word: **GEKUR**. Size: 18x13½x10".

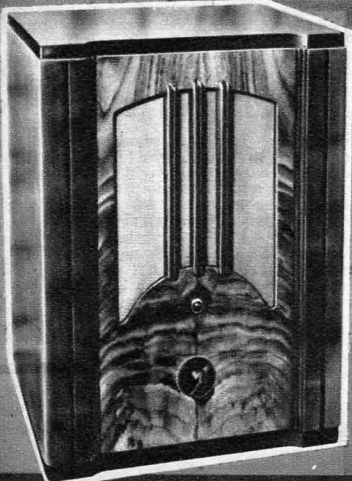
Model No. 1816
Your Cost, less tubes **\$24.95**

Kit of Matched Tubes..... \$2.55

No. 13630-13730 Crystal Hand-Desk Stand Microphone, additional..... \$14.70

NOTE: The 5 watt amplifier described above is also available in a handsome portable leatherette carrying case. For full details on this item see Page 23.

COMPACT, EASILY INSTALLED ANNOUNCING SYSTEM



12 to 19 watt AC RATONE HIGH GAIN AMPLIFIER DUAL INPUT

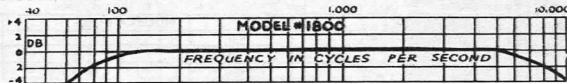


A Great BUY!

\$ 19.⁹⁵

- ★ Class A amplification—minimum distortion
- ★ Two high impedance inputs
- ★ High quality equipment at an exceptionally low cost

- ★ Self contained universal output transformer
- ★ Fully enclosed for complete protection
- ★ High and medium gain inputs
- ★ Ample ventilation
- ★ Master Tone Compensator
- ★ Simple operation—Easy Installation
- ★ No pre-amplifier required for crystal or velocity microphones



Federated is proud to present a new specially priced amplifier which has all the features ordinarily obtained in amplifiers selling at double or triple the price. In offering this unit we are making high quality equipment available to many who could not heretofore afford to invest in public address. We offer a real opportunity for servicemen and dealers to break into the profit making sound industry without an enormous capital outlay.

DUAL INPUT CHANNELS

This new 12 watt amplifier has two input channels. One is fed through a high gain circuit for use with crystal or velocity microphones which have very low input levels. The other is fed through a medium gain circuit for use with other types of input devices which have a higher level. Medium gain is necessary for this service in order not to overload the amplifier, and is a feature not ordinarily provided, even on expensive equipment.

MIXING AND FADING FACILITIES

Heretofore unheard of in so low a priced amplifier, this unit has built in mixing circuits for the two input sources. Each channel is individually controlled without affecting one another and without affecting the high fidelity response or overall power output.

CONSTRUCTION

A rugged steel chassis is used for these amplifiers. All parts susceptible to heat are mounted above the chassis and ample ventilation is provided through a steel

canoe cover. This cover also serves to protect the tubes from physical damage, another point of outstanding value on this amplifier.

ADVANCED CIRCUIT

The latest type tubes are employed in a new type circuit, with push-pull amplification. High gain for the microphone input channel is obtained by using the triple grid 6C6 type tube, obviating any necessity for a pre-amplifier. Ample filtering, coupled with a carefully designed equipment layout, assures the elimination of all objectionable hum.

FLEXIBLE OUTPUT

Two high power pentode 42 type tubes in push-pull are used in the output stage and full rated power output is available from the amplifier at impedances of 2, 8, 12, 15, and 500 ohms. No external transformer is required to match loud speakers or 500 ohm lines. When you buy an Acratone amplifier you are assured of a complete unit, without the need for extraneous equipment.

BEST AMPLIFIER VALUE

All parts in this amplifier have been specified with a very wide margin of safety, and a view toward long life. Oversized and rugged, all material must pass rigid inspection tests before it is used. Years of experience in building amplifiers for all purposes enables us to offer this specially priced model with the greatest dollar for dollar value ever obtainable.

SPECIFICATIONS

Peak Power Output Watts . . . 19
Rated Power Output Watts . . . 12
Number of Audio Stages . . . 3
Tube Compliment
 1-6C6, 1-7S, 2-42, 1-5Z3
Gain at 1000 Cycles . . . 118 db
Inputs: 2 . . . 1 high gain
 1 medium gain
Output Imp. 2/8/12/15/500
Hum Level, below Maximum
Output -42 db
Power Consumption Watts . . . 90

Acratone 12 Watt Standard Amplifier:
 Size: 14x8½x8¼". Shpg. Wt. 25 lbs. Code
 Word: GOODE. Retail Value \$39.90.

Model No. 1800 **\$19.95**
Your Cost,
 less tubes

Kit of Matched Tubes \$2.83
Complete 12 Watt Standard System
 for 110 Volts, 60 Cycle AC operation:
 Acratone No. 1800 Amplifier with tubes,
 No. 13630 Crystal Microphone; No. 434
 Mike Stand; 25 ft. No. 11065 Mike Cable,
 two 12" No. 13163 Special Acratone Hi-
 Fidelity P.A. AC Dynamic Speakers with
 rectifier tubes; two No. 426 Flare Baffles;
 75 ft. No. 4506 Speaker Cable. Code Word:
 GOLDE. Retail Value \$150.00.
Complete System No. 1801

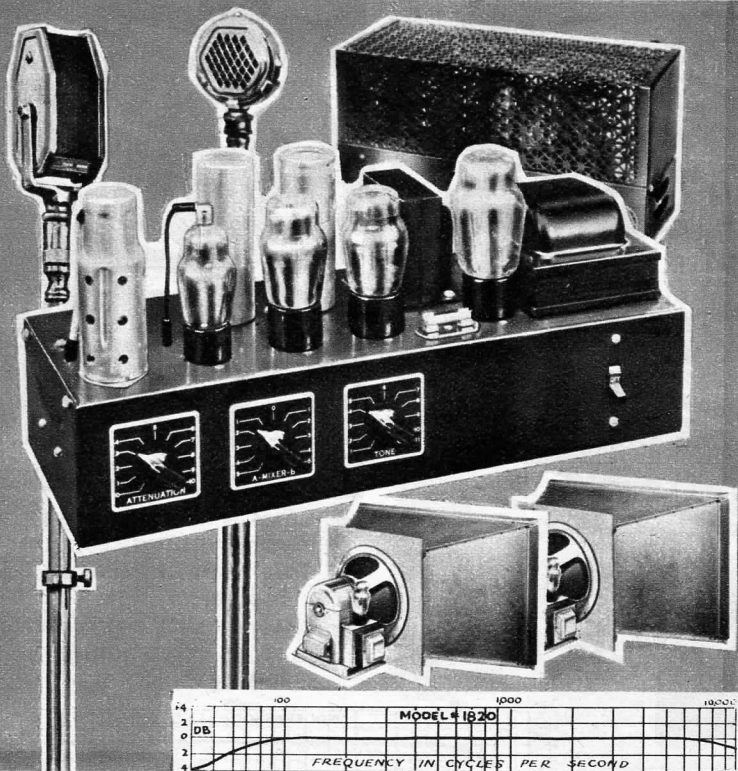
Your Cost \$75.00

Same System as above but with No. 784
 Double Button Microphone; No. 1244
 Combination Desk Stand with springs;
 No. 7338 Mike Transformer; Mike Bat-
 tery, 12 ft. No. 4588 Mike Cable instead
 of Crystal Mike, stand and cable listed
 above. Code Word: GOKDL. Retail Value
 \$129.00.

Complete System No. 1802
Your Cost \$64.50

Bring Your Amplifier Problems to Federated!

15 to 24 AC HIGH GAIN *THREE* MIXER ACRA TONE



- ★ For Crystal or Velocity Microphones
- ★ Flexible Universal Output
- ★ Three Full Input Channels

These two new standard amplifiers have power outputs of 15 and 30 watts respectively. Compact, and with a true high fidelity response, the amplifiers have all the features ordinarily expected in much higher priced equipment. Four high gain stages of amplification are used with the dual purpose 6B5 tubes in the output stage. Full rated power output is attained without distortion. The amplifiers are easy to use, having all the controls on the front panel and all wiring connections on the rear.

ZERO CENTER CONTROL

A new and unique feature known as "Zero Center Control" has been introduced by Acratone advanced engineering in these amplifiers. With this new type of control, three input sources may be connected to the amplifier, such as a crystal or velocity microphone and two high level program sources. Then, turning the zero center control to the left will mix one of the high level program sources with the microphone while turning the control to the right will mix the microphone and the other high level input, at the same time cutting down the first program source. The volume of the high level input sources is controlled by the distance the control is set, away from zero center, so that the dual function of mixer and volume control is performed. At exact zero center the microphone input alone is effective. A separate volume control is provided so that the level of the microphone input may be individually controlled. Just picture this setup where constant music, with occasional announcements interspersed, is desired.

INSTANTLY CONVERTIBLE

Although primarily intended for 110 volt AC operation the amplifiers are arranged for instant conversion for 6 volt operation by the mere insertion of a single plug. Such simplicity can be attained only after a most painstaking study on the part of Acratone engineers. The 6 volt power supply unit is separate from the amplifier and is to be mounted permanently in the mobile sound unit. In this manner a conversion may be made in the absolute minimum of time, and without the necessity of moving the excess weight of the 6 volt power supply equipment. When the 6 volt plug is connected to the amplifier, the secondary windings of the AC transformer are automatically disconnected from the circuit so that the 6 volt supply is not loaded by this low resistance circuit.

SPECIFICATIONS

Peak Power Output Watts 24	Inputs: 3	1—mike with
Rated Power Output Watts 15		vol. cont. 2— medium
Number of Audio Stages 4		gain hi-imp.
Tubes 1-6C6, 1-79, 2-6B5, 1-5Z3	Output 2/8/12/15/500 ohms	Hum Level, below Max.
Gain at 1000 Cycles 124 db	Output -54 db	Power Consumption Watts 110
Low Level Input 72 db		

FUSED AGAINST OVERLOADS

Glass enclosed cartridge fuses are located on top of the steel chassis in these models. They serve to fully protect the amplifier against power line

surges or short circuits which might otherwise result in serious damage to tubes or transformers.

Acratone 15 Watt Standard Amplifier. Size: 17x9x7". Shpg. Wt: 38 lbs. Code Word: GAELT. Retail Value \$59.00.

Model No. 1820

Your Cost, less tubes..... **\$29.50**

Kit of Matched Tubes..... \$3.99

Convertible Generator Unit delivers 300 volts at 100 mils. Code Word GAFAM. Retail Value \$49.90.

Model No. 13515

Your Cost, with cable..... \$24.95

Complete 15 Watt Standard System for 6 Volt DC (battery) Operation: Acratone No. 1820 Amplifier with tubes; No. 13630—No. 13730 Crystal Combination Desk-Hand Microphone; 25 ft. No. 11065 Mike Cable; 2 No. 1649 Wright DeCoster 12" Hi-Fidelity Dynamic Speakers (6 volts); 2 No. 390 Aluminum Deflector Baffles; 50 ft. No. 24540 Speaker Cable; No. 13515 Converter Generator Unit and Cable. Code Word: GADEM. Retail Value \$209.00.

Complete System

No. 1823 Your Cost..... **\$104.50**

Complete System No. 1821

Your Cost..... **\$85.00**

Same System as above but with No. 1433 Amperite "RBH-B" Velocity Microphone instead of Crystal Mike. Code Word: GEXOK. Retail Value \$194.00.

Complete System No. 1822

Your Cost..... **\$97.00**

Complete Convertible 15 Watt Standard System for 110 Volt, 60 Cycle AC or 6 Volt DC (battery) Operation: Same as System No. 1823 (above) but with No. 654 Speaker Field Supply. Code Word: GADOP. Retail Value \$232.00.

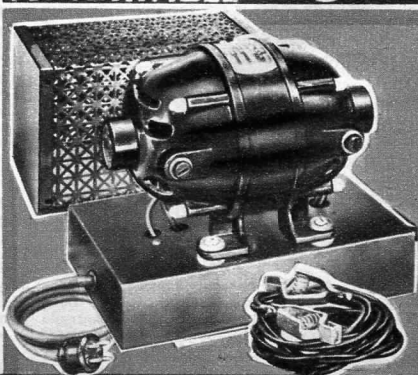
Complete System No. 1824

Your Cost..... **\$116.00**

All Amplifiers available with Rola, Jensen and Wright De Coster Speakers—see pages 30-32.

Special Volume Expander Models for phonograph reproduction of the amplifiers listed on these pages are available. Write for further details.

INSTANTLY CONVERTIBLE for 6 VOLT



ALL PURPOSE AMPLIFIER 30 to 53 WATTS A.C.

- ★ Full Range Performance
- ★ Convertible for 6 Volts
- ★ Oversize Parts Guarantee Full 24 Hour Performance
- ★ New Zero Center Control

HIGH GAIN

These amplifiers both employ four stages of amplification in new circuits having sufficient gain to be used with a low level crystal or velocity microphone as one input source. At the same time the gain of the two additional input circuits has been kept at a medium so as to insure stable, distortionless operation with high level program sources.

FLEXIBLE OUTPUT

Both convertible amplifiers have incorporated high quality, oversize universal output transformers in accordance with standard practice on Acratone amplifiers. These transformers have available output impedances of 2, 8, 12, 15 and 500 ohms and the power output of the amplifiers is measured at the secondary terminals. **No external transformers are required to match loud speakers used with these amplifiers.**

RACK MOUNTING UNITS AVAILABLE

The two convertible amplifiers have been carefully designed with a view toward mounting them on a standard 19-inch repeater rack when desired. The simple addition of a special front panel and two angle brackets will change these amplifiers into standard, rack mounted units. (Not illustrated)

SOLID CONSTRUCTION

These amplifiers are mounted on heavy steel chassis with ventilation louvers in the sides. All of the parts which go to make up the units are of the finest material and workmanship available and are all designed with a wide margin of safety.

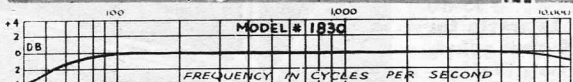
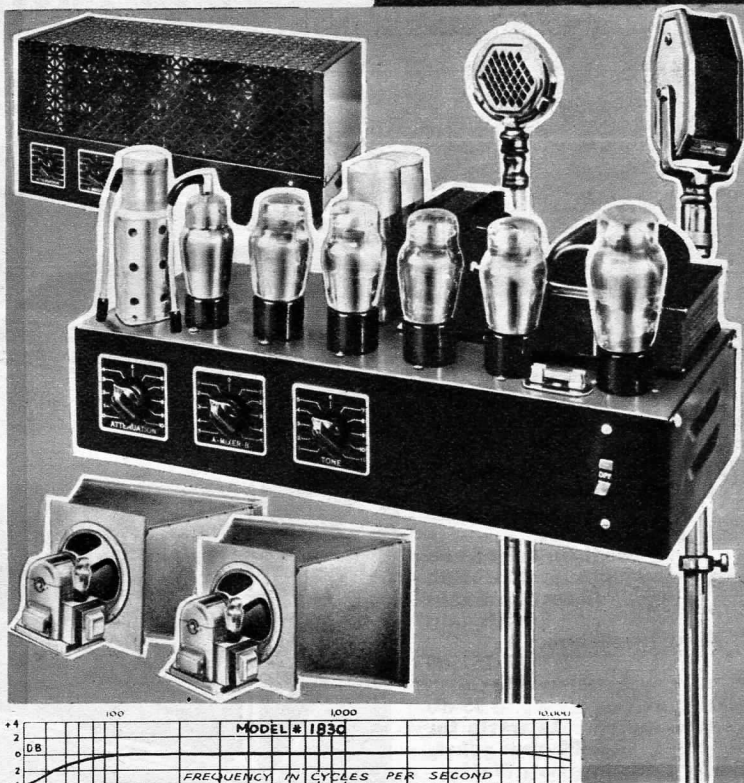
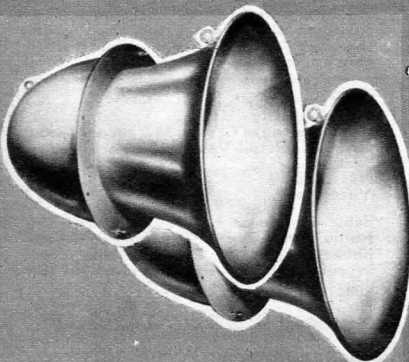
COMPONENT PARTS OF THE COMPLETE SYSTEM

The component parts, additional to the amplifiers, which go to make up the complete 15 and 30 watt systems have been chosen with care in order to assure a well balanced equipment when the system, considered from the sound source to the sound output, is taken as one unit. Complete descriptions of the various parts will be found on other pages.

NEW BATTERY POWER SUPPLY UNITS

The power supply units for these systems are of new design and are especially suited to the job. Rugged motor generators are furnished, in a substantial, well ventilated case. Conservatively rated, they are more than ample to handle the amplifier for which they are specified.

Battery Operation



SPECIFICATIONS

- Peak Power Output Watts 53
- Rated Power Output Watts 30
- Number of Audio Stages 4
- Tube Complement 1-6C6, 1-79, 4-6B5, 1-83
- Gain at 1000 Cycles 118.5 db
- Low Level Input 60 db
- Inputs: 3 1—mike with vol. cont. 2—medium gain hi-imp.
- Output Impedance 2/8/12/15/500 ohms
- Hum Level, below Max.
- Output - 53 db
- Power Consumption Watts 115

CONTINUOUSLY VARIABLE TONE CONTROL

A tone control of the variable capacitor type is provided. This type of control has little effect on the overall power output of the amplifier; but acts as a perfect attenuator for the high frequency response. This device is particularly valuable to tone down high

pitched voices, or to bring up a deep bass voice to a more pleasing pitch. Complete instructions covering the operation of these amplifiers are included, so that they may be easily set up, even by inexperienced persons.

Acratone 30 Watt Standard Amplifier. Size: 17x9x8". Shpg. wt. 45 lbs. Code Word: GAFUR. Retail Value \$79.00. Kit of Matched Tubes. \$6.12
Model No. 1830
Your Cost, \$39.50

Convertible Generator Unit delivers 300 volts at 200 mils. Code Word: GAGUS. Retail Value \$96.00.
Model No. 13516
Your Cost, with cable, \$48.00

Complete 30 Watt Standard System for 110 Volt, 60 Cycle AC Operation: Acratone No. 1830 Amplifier with tubes; No. 13630 Crystal Microphone; No. 434 Mike Stand; 25 ft. No. 11065 Mike Cable; 2 12" No. 13163 Special Acratone Hi-Fidelity P.A. AC Dynamic Speakers with rectifier tubes; 2 No. 426 Flare Baffles; 75 ft. No. 4506 Speaker Cable. Code Word: GABMO. Retail Value \$196.00.
Complete System No. 1831
Your Cost, \$98.00

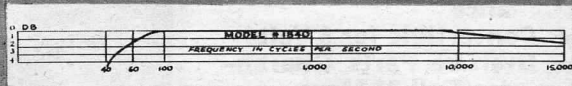
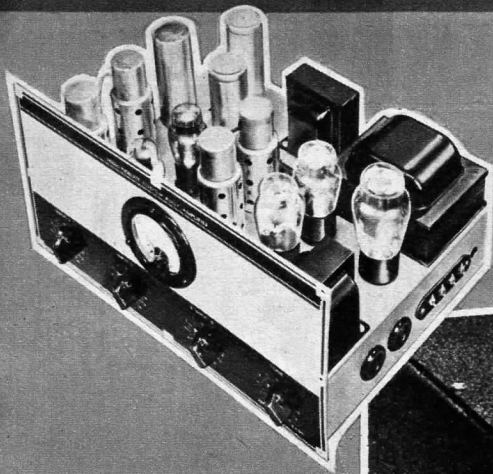
Complete 30 Watt Standard System for 6 Volt DC (battery) Operation: Acratone No. 1830 Amplifier with tubes; No. 13630 +No. 13730 Crystal Combination Desk-Hand Microphone; 25 ft. No. 11065 Mike Cable; 2 No. 1649 Wright DeCoster 12" Hi-Fidelity Dynamic Speakers (6 volts); 2 No. 390 Aluminum Deflector Baffles; 50 ft. No. 24540 Speaker Cable; No. 13516 Converter Generator Unit and Cable. Code Word: GABPY. Retail Value \$278.00.

Complete System No. 1833
Your Cost, \$139.00

Complete Convertible 30 Watt Standard System for 110 Volt, 60 Cycle AC or 6 Volt DC (battery) Operation: Same as System No. 1833 (above) but with No. 654 Speaker Field Supply. Code Word: GALAK. Retail Value \$300.00.
Complete System No. 1835
Your Cost, \$150.00

All Amplifiers available with Rola, Jensen and Wright De Coster Speakers—see pages 30-32.

15^{to}24 WATTS HIGH GAIN



SPECIFICATIONS

Peak Power Output Watts . 24
Rated Power Output Watts . 15
Number of Audio Stages . . . 5
Tube Compliment
 4-6C6, 2-76, 2-6B5, 1-5Z3
Gain at 1000 Cycles
 Medium level 83 db
 High level 125.5 db
Inputs: 4 { 2 medium gain
 2 high gain
Output Impedance
 2/8/12/15/500
Hum Level, below Max.
Output - 55 db
Field Supply . . . 18 watts for
 2-2500 ohm spkrs.
Power Consumption Watts
 120

Here are two new amplifiers truly worthy of the name DeLux. Especially designed by Acratone engineers, they incorporate many new features which make them ideal for sound sales and rental service.

SIMPLE OPERATION

The arrangement of the amplifiers is such that they are extremely easy to use. Plug connections are provided wherever possible, permitting speedy connection with no danger of incorrect hookup. The sockets are set in from the side of the cabinet, affording physical protection to the plugs.

EASY ACCESS TO INTERIOR

An easily removed top cover provides ready access to the interior of the cabinet for tube replacement. If desired, the complete front panel and chassis may be removed from the cabinet.

CONSTRUCTION

The chassis of these amplifiers have been cadmium plated for complete protection against rust. All parts are oversized and engineered with a large factor of safety. The cabinet is made of strong steel, finished in crinkle black, and with a cane steel back to provide ample ventilation to tubes and other parts susceptible to heat. All material used must be of first quality and is subjected to rigid inspection tests to insure uniformity.

Acratone 15 Watt DeLux Amplifier in Metal Case, as described. Size: 14 $\frac{3}{4}$ "x8 $\frac{1}{2}$ "x11". Shpg. wt. 55 lbs. Code Word: GATAC. Retail Value \$99.00.

Model No. 1840
Your Cost, less tubes
\$49.50

Kit of Matched Tubes \$5.70

For the large installation, rack mounted units have proven to be the most practical and economical method of assembly. If you are interested in this type of unit, write us for costs.

OUTPUT

A full 15 watts is available at the terminals of an internal universal transformer with impedances of 2, 8, 12, 15, 500 ohms. This flexibility in output makes the amplifier well adapted to those cases where it is desired to operate speakers near the amplifier at one level and additional speakers at a remote point at higher level. The remote high level may be obtained by bridging one or more of our booster amplifiers across the 500 ohm line terminals.

HIGH FIDELITY

The DeLux amplifiers have a truly remarkable response. Our claims in this respect are well borne out by oscillograph traces taken at various frequencies all along the line from 40 to 15000 cycles. Full power output is maintained throughout this extremely wide range, with perfect wave form.

METER

A special meter has been incorporated in the front panel of these new DeLux amplifiers. This meter has a portion of its scale marked in red to indicate the operating range of the amplifier. A falling off of tube emission, or a drop in amplifier efficiency due to other causes will immediately be indicated on the meter so that a correction may be made before failure occurs.

Complete 15 Watt DeLux System for 110 Volt, 60 Cycle AC Operation: Acratone No. 1840 Amplifier with tubes; No. 13630 Crystal Microphone; No. 333 DeLux Mike Stand; 25 ft. No. 11065 Mike Cable; 2 12" No. 13162 Special Acratone Hi-Fidelity P. A. Dynamic Speakers (2500 ohm fields); 2 No. 426 Flare Baffles; 100 ft. No. 24540 Speaker Cable. Code Word: GAVUJ. Retail Value \$209.00. Complete System.

No. 1841
Your Cost \$104.50

BUILT IN FIELD SUPPLY

A speaker field supply is incorporated in these new DeLux amplifiers. In the 15 watt model sufficient wattage is available to operate two 2500 ohm fields and the 30 watt model has a supply sufficient to take care of four 2500 ohm fields. The field supply in each case is so arranged that it is not necessary to attach filter chokes when speakers with their own field supply are used.

NEAT APPEARANCE

The neat arrangement of these amplifiers will instantly appeal to anyone interested in good looking equipment. The new front panel is of one piece construction with all dial markings etched directly on the face of the panel. The entire panel is beautifully finished in silver matte and black, and its harmonious design gives the amplifier the appearance of a finished unit.

ADVANCED ENGINEERING

Acratone engineering has long been known as the leader to which others turn when amplifier design is involved. The latest type of testing equipment is used in the laboratory to check all mathematical calculations as applied to actual practice, and the power output, hum level and voltage gain are carefully measured.

Same System as No. 1841 but with No. 1433 Amperite "RBH-B" Velocity Microphone instead of Crystal Mike. Code Word: GAVDE. Retail Value \$231.00. Complete System.

No. 1842
Your Cost \$115.50

Same System as No. 1841 but with No. Radio Receptor "6C" Dynamic Microphone instead of Crystal Mike. Code Word: GAKVA. Retail Value \$217.00. Complete System.

No. 1843
Your Cost \$108.50

All amplifiers available with Rola, Jensen and Wright De Coster Speakers—see pages 30-32

ACRATONE DeLuxe HIGH FIDELITY AMPLIFIER

- ★ High Gain for Crystal, Velocity or Dynamic Microphones
- ★ Four Input-Mixer Channels
- ★ Built-In Field Supplies
- ★ Meter Indicates Proper Operating Conditions
- ★ Real High-Fidelity Frequency Response
- ★ Oversized Parts used Throughout
- ★ Flexible Universal Output for Speakers or Line
- ★ Crinkle-Finish Steel Case
- ★ Class "A" Operation Assures Minimum Distortion

SPECIFICATIONS

Peak Power Output Watts . . . 53
 Rated Power Output Watts . . . 30
 Number of Audio Stages 5
Tube Compliment
 4-6C6, 2-76, 4-6B5, 1-5Z3
Gain at 1000 Cycles
 Medium level 83 db
 High level 125.5 db
Inputs: 4 { 2 microphone
 { 2 medium gain
Output Impedance 2/8/12/15/500
Hum Level, below Max.
Output — 55 db
Field Supply 36 watts for
 4-2500 ohm spkrs.
Power Consumption Watts . 200

30 to 53 WATTS

4 POSITION INPUT

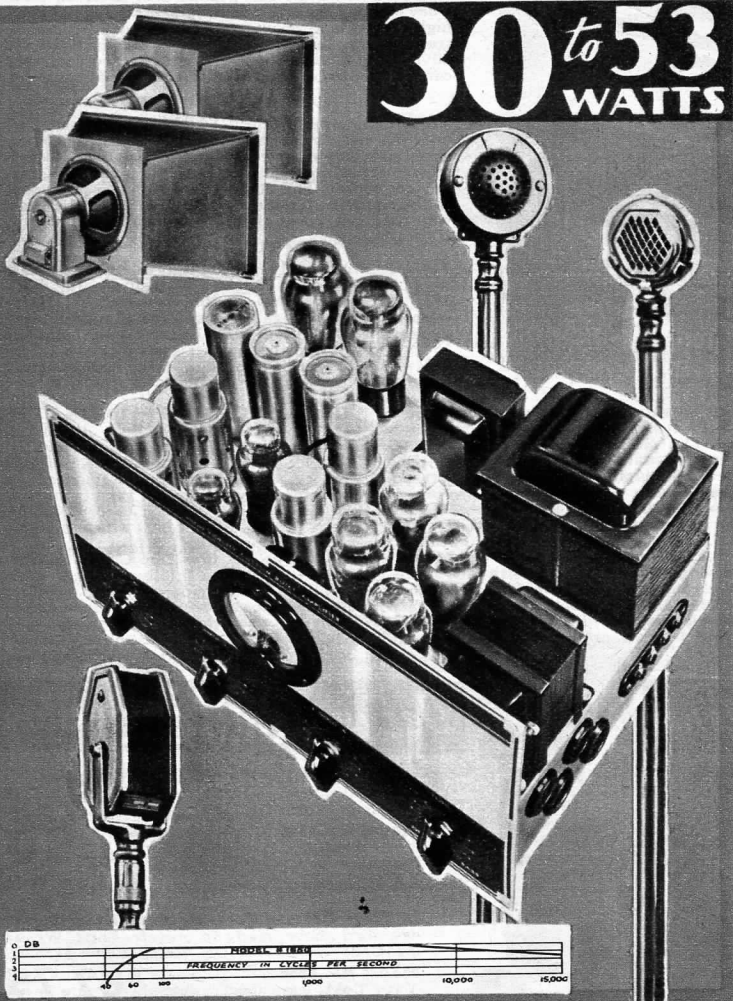
An extremely flexible four position input arrangement is provided in this new DeLuxe Amplifier line. Two high gain inputs for velocity, dynamic, or crystal microphones are provided. These two high gain circuits are each individually controlled by one of the two volume controls at the left of the amplifier. These controls have a dual function in that they are used for mixing the two microphones as well as for the control of volume level from each of the microphones.

TWO MEDIUM GAIN CHANNELS

At the same time, two medium gain input circuits are provided for high level program sources. By means of the "Zero Center Control" either of these two input sources may be mixed or faded with the microphone input whether it be from one or two microphones.

ZERO CENTER CONTROL

The "Zero Center Control" is one of the newest developments of Acratone Engineers and provides what constitutes probably the simplest method, from an operational standpoint, of mixing circuits ever devised. It appears as the third control from the left on the front panel of the amplifier. At exact zero center, only the microphone input is effective. Turning the control to the left of zero center will control the volume of one of the high level inputs without affecting the microphone volume in any way. Turning the control to the right of zero center likewise controls the volume of the second high level input. In this way either of two high level program sources may be mixed with either one or two microphones. All mixing and volume control is accomplished in the amplifier without any change in the overall frequency response or available power output and without the addition of any extraneous equipment.



Acratone 30 Watt DeLuxe Amplifier in Metal Case, as described. Size: 14 3/4 x 8 1/2 x 11". Shpg. Wt. 70 lbs. Code Word: GATUH. Retail Value \$119.00.

Model No. 1850
Your Cost, \$59.50
 less tubes

Kit of Matched Tubes \$7.96
 Same System as No. 1851 but with 2 additional speakers and flares as described plus additional 100 ft. speaker cable. Code Word: GASBA. **Complete System No. 1854**. Retail Value \$288.00.
Your Cost \$144.00

Complete 30 Watt DeLuxe System for 110 Volt, 60 Cycle AC Operation: Acratone No. 1850 Amplifier with tubes; No. 13630 Crystal Microphone; No. 333 DeLuxe Mike Stand; 25 ft. No. 11065 Mike Cable; 2—12" No. 13162 Special Acratone Hi-Fidelity P. A. Dynamic Speakers (2500 ohm fields); 2 No. 426 Flare Baffles; 100 ft. No. 24540 Speaker Cable. Code Word: GASID. Retail Value \$232.00. **Complete System No. 1851**
Your Cost **\$116.00**

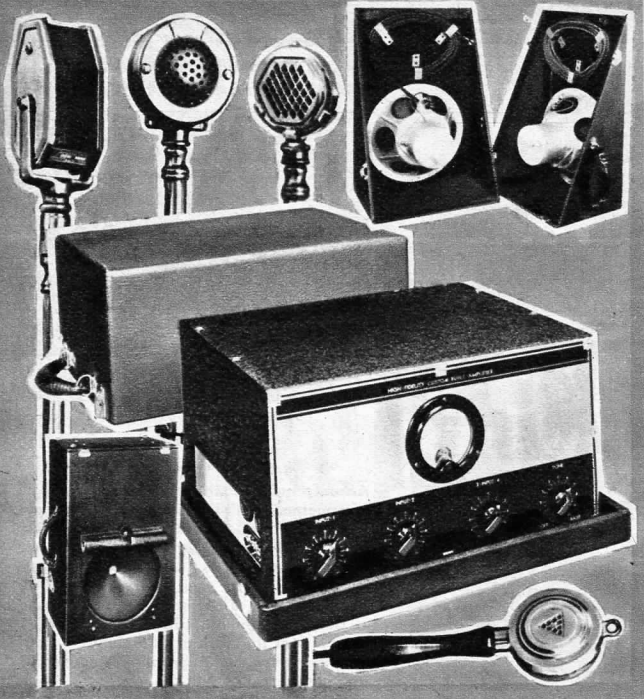
Same System as No. 1851 but with No. 1433 Amerite "RBH-B" Velocity Microphone instead of Crystal Mike. Code Word: GARBO. Retail Value \$256.00. **Complete System No. 1852**
Your Cost **\$128.00**

Same System as No. 1851 but with No. Radio Receptor "6B" Dynamic Microphone instead of Crystal Mike. Code Word: GAREB. Retail Value \$265.00. **Complete System No. 1853**
Your Cost **\$132.50**

All amplifiers available with Rola, Jensen and Wright De Coster Speakers—see pages 30-32

ANY POWER PURPOSE **ACRATONE** PORTABLE AMPLIFIER SYSTEMS

15 and 30 HIGH GAIN HIGH FIDELITY PORTABLE SYSTEMS



- ★ High Gain for Crystal, Velocity or Dynamic Type Microphones
- ★ Real Hi-Fidelity Frequency Response
- ★ Portable Cases Easy to Carry
- ★ Dual 12" Hi-Fidelity Speakers

The new Acratone Portable Amplifiers listed below and illustrated at the left present a choice of two wattages, either in the Standard or DeLuxe lines. They embody the latest developments in high quality, high fidelity and compactness demanded by orchestras, singers, theatres, amplifier rental agencies and advertising men. They are constructed so that they can be set into operation in approximately five minutes.

EASILY CONNECTED

These units present unusual appeal to those who are unacquainted with hook-up requirements. Connections end in plugs which fit into polarized sockets whereby it is impossible to insert the wrong plug into any one socket. This eliminates the danger of damage to the equipment and makes possible its use by those who need not know about theoretical amplification.

STRONG CASES

The cases are strongly made of heavy, laminated, well-seasoned wood panels covered with substantial fabricoid. All corners are double re-inforced. Hardware is protected against rust. The Standard cases measure 18x9 1/2 x 15 1/2", the DeLuxe cases measure 15 1/2 x 9 1/2 x 12", and the Speaker cases measure 15 1/2 x 10 1/2 x 25 1/2". Carrying handles large, conveniently located.

NO EXTERNAL MIXERS REQUIRED

The 15 and 30 Watt Standard Amplifiers, described in detail on pages 18 and 19, are designed with a high gain of well over 100 db. permitting the use of Crystal or Velocity microphones without the need of pre-amplification. Three inputs are provided, each individually controlled. The high gain also permits the use of Contact Crystal microphones for Musical Instrument work. The new Zero-Center control is a standard feature. Both of these amplifiers are convertible to 6 volt operation as explained on pages 18 and 19. A tone control permits the reduction of feed-back in smaller rooms.

The speaker cases open diagonally into two halves, each half containing one speaker. The Standard Amplifiers use AC speakers containing built-in exciters. The DeLuxe Amplifiers use DC speakers excited directly from the amplifiers. One or two speaker cases (two to four speakers) are recommended for 30 Watt Systems while one speaker case (two speakers) serve well with 15 Watt Systems. 25 ft. of speaker cable is furnished with each speaker giving a total of 50 ft. for both. These cables fit into special compartments when the cases are closed. The speakers, in operating position, project the sound directly ahead.

ALL CONNECTIONS PLUG-IN TYPE

The 15 and 30 Watt DeLuxe Amplifiers, described in detail on pages 20 and 21, embody all of the features needed for high quality, high fidelity performance. An overall high gain of over 120 db. permits the use of Crystal, Velocity or Dynamic Microphones. Four inputs with individual controls are supplied, two of them incorporated on the new Zero-Center control. Speaker excitation is fully supplied by the amplifier. A meter on the front panel instantly shows the true operating condition. Complete operating instructions are supplied showing the various microphone inputs, etc. including proper meter readings.

STANDARD PORTABLE Systems

15 Watt Standard Portable-Case Amplifier as described above, ready to operate. Shpg. Wt. 53 lbs. Code Word: GURAD. Retail Value \$75.50.
Model No. 1826
Your Cost, less tubes..... \$37.75
 less tubes.....
 Kit of Matched Tubes..... \$3.99

30 Watt Standard Portable-Case Amplifier as described above, ready to operate. Shpg. Wt. 59 lbs. Code Word: GUTER. Retail Value \$95.50.
Model No. 1836
Your Cost, less tubes..... \$47.75
 Kit of Matched Tubes..... \$6.12

Dual Speakers in Portable Case containing two Acratone Special 12-inch P.A. Dynamic Speakers (AC) with 50 ft. of speaker cable. Shpg. Wt. 56 lbs. Code Word: GUSTI. Retail Value \$69.90.
Model No. 1829
Your Cost, with tubes..... \$34.95

Velocity Microphone for use with above Standard or DeLuxe systems.
No. 1433
Your Cost..... \$24.70

Crystal Microphone for use with above Standard or DeLuxe systems.
No. 13630
Your Cost..... \$13.23

Dynamic Microphone for use with above DeLuxe systems.
No. 13640
Your Cost..... \$29.40

All amplifiers available with Rola, Jensen and Wright De Coster Speakers—see pages 30-32

DeLuxe PORTABLE Systems

15 Watt DeLuxe Portable-Case Amplifier as described above, ready to operate. Shpg. Wt. 68 lbs. Code Word: GETUB. Retail Value \$115.00.
Model No. 1846
Your Cost, less tubes..... \$57.50
 less tubes.....
 Kit of Matched Tubes..... \$5.70

30 Watt DeLuxe Portable-Case Amplifier as described above, ready to operate. Shpg. Wt. 83 lbs. Code Word: GEKOL. Retail Value \$135.50.
Model No. 1856
Your Cost, less tubes..... \$67.75
 Kit of Matched Tubes..... \$7.96

Dual Speakers in Portable Case containing two Acratone Special 12-inch No. 13162 P.A. Dynamic Speakers with 50 ft. of speaker cable, as described above, ready to operate. Shpg. Wt. 45 lbs. Code Word: GEFUT. Retail Value \$59.00.
Model No. 1849
Your Cost, complete..... \$29.50



Compact-Durable-Inexpensive **WIDE RANGE**

15 DUAL MIXER with PORTABLE Amplifier

- ★ Weather Proof Cases
- ★ Dual Input-Mixer—High Gain
- ★ Operates Three Speakers

SPECIFICATIONS

Peak Power Output Watts	24
Rated Power Output Watts	15
Number of Audio Stages	4
Tube Compliment	2-6C6, 1-6A6, 2-6B5, 1-5Z3
Gain at 1000 Cycles	130 db
Inputs: 3 High Imp.	One high gain
	Two medium gain
Output Imp.	Special matching trans. for one or three speakers
Hum Level, below Max. Output	-50 db
Field Supply	For one 9000 ohm field (speaker included)
Power Consumption Watts	100

DISTRIBUTED WEIGHT FOR EASY HANDLING

The amplifier, together with one speaker is furnished mounted in a single case, proportioned to give the greatest ease in carrying, with weight so divided as to give equal distribution of load. The case is divided diagonally, separating into two distinct sections, one the speaker unit, and the other the amplifier unit; and is covered with a weatherproof grey linette attractively striped in red.

PERFECT REPRODUCTION

Two gain controls are provided in the input circuit of this amplifier so that both low level devices such as velocity and crystal microphones and high level program sources may be used with the assurances of perfect reproduction. The output circuit of the amplifier is provided with a special output transformer which will match either one or three speakers, depending upon the total amount of volume desired.

NEW MIXING FACILITIES

In addition to the many fine features, a three position mixer has been provided.

This mixer is of the "Zero Center Control" type similar to that furnished in our 15 watt standard amplifier, and will enable the mixing of high level program sources with a microphone input.

Two additional speakers for this amplifier are available in a case exactly matching that used for the amplifier itself. These speakers are furnished with cable and connectors for easy connection and have a self-contained field supply unit for operation from the 110 volt line.

15 Watt Portable Luggage-Type-Case Amplifier, as described above with 8 1/2" Acratone P.A. Dynamic Speaker and 25 ft. of speaker cable, ready to operate.

Shpg. Wt. 35 lbs. Code Word: GETON. Retail Value \$75.00.

Model No. 1880 **\$37.50**

Your Cost, less tubes

Kit of Matched Tubes \$4.84

Speaker Case, as described above, contains two Acratone 8 1/2" P.A. Dynamic Speakers, 20 watt field exciter, two 25 ft. speaker cables, ready to operate. Shpg. Wt. 22 lbs. Code Word: GELOX. Retail Value \$49.00.

Model No. 1881 **\$24.50**

Your Cost, less exciter tubes

Kit of 2-25Z5 Tubes \$1.12

Microphones suitable for above amplifiers listed on pages 33-36.

5 watt ACRA-TONE PORTABLE LIGHT WEIGHT Sound System

- ★ Low Cost Sound System
- ★ Crystal or Velocity Microphone
- ★ Completely Self Contained

A complete 5 watt P.A. system in a case only 13 1/2"x9 3/4"x8". This ultra compact case houses our 5 watt amplifier No. 1810 together with a 5 1/2" Dynamic Speaker. And there is still room to carry a hand microphone! This amplifier is completely described on page 16.

LEATHERETTE CASE

The attractive case is covered with black leatherette and is of strong wood construction. A 15-ft. speaker cable is furnished for operating the speaker at some distance from the amplifier. The speaker is protected by a metal grill over the opening.

FOR SALESMEN AND MUSICIANS

Spot salesmen, demonstrators, sales managers, and others who

have other luggage to carry besides their P.A. equipment will find this system valuable. Its light weight makes it easy to handle and at the same time sufficient power output is available to command the attention of large groups. Used with a crystal microphone, its clear tonal response provides the user with an excellent selling aid. In conjunction with a contact microphone, it is particularly effective for the direct amplification of individual musical instruments, especially of the string type.

MIXING WITH CRYSTAL OR VELOCITY MICROPHONES

The amplifier may be used for high level program sources as well as for velocity or crystal microphones. Mixing circuits for three input sources are provided, allowing the portable model to be used for a multitude of purposes in addition to ordinary sales promotional work. **5 Watt Portable Amplifier**, with Acratone 5 1/2" P.A. Dynamic Speaker, 15 ft. speaker cable. Shpg. Wt. 16 lbs. Code Word: GEBAC. Retail Value \$39.90.

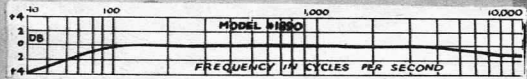
Model No. 1815 **\$19.95**
Your Cost, less tubes
Kit of Matched Tubes \$2.54



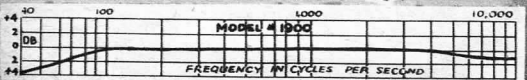
POWER STAGES for EVERY PURPOSE



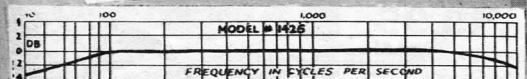
15 to 24 watts



30 to 53 watts



100 to 164 watts



SPECIFICATIONS

Peak Power Output Watts..... 24	Output Impedance 2/8/12/15/500 ohms
Rated Power Output Watts..... 15	Hum Level, below Max. Output... - 60 db
Tube Complement 2-6B5, 1-5Z3	Field Supply ... 18 watts for 2-2500 ohm spkrs.
Gain at 1000 Cycles 22db	Power Consumption Watts..... 110
Inputs ... +12 db (bridged across 500 ohm line)	

Any place where a 500 ohm line can be run becomes a potential speaker location with added power, field supply and full control of volume. This all may be accomplished without disturbing any existing equipment and without detracting from the volume level of the original system. How? By using one of our new 15 watt booster amplifiers for each speaker location.

This booster amplifier has an incorporated field supply for two speakers. Is compact and therefore practical for any location. Has a pilot light to indicate whether or not the AC power supply is on. It has its own volume control to control the speakers attached to it. May be used with any amplifier having a 500 ohm line output. It is a single stage amplifier, operated in Class A.

Takes practically no signal power from the line, and a number of them may be operated from a single amplifier. It has plug connections for rapid setup without wiring errors.

Acratone 15 Watt Power-Booster Amplifier. Size: 14x8 1/2 x 11". Code Word: GAZYN. Shpg. Wt. 38 lbs. Retail Value \$53.00.
Model No. 1890
Your Cost, less tubes..... \$26.50
Kit of Matched Tubes..... \$2.76

SPECIFICATIONS

Peak Power Output Watts..... 53	Output Impedance 2/8/12/15/500 ohms
Rated Power Output Watts..... 30	Hum Level, below Max. Output... - 60 db
Tube Complement 4-6B5, 2-5Z3	Field Supply 36 watts for 2 or 4 2500 ohm spkrs.
Gain at 1000 Cycles 22 db	Power Consumption Watts..... 170
Inputs ... +15 db (bridged across 500 ohm line)	

This 30 watt booster amplifier, designed for the same purpose as the 15 watt model shown above, but with greater power output is a single Class A Push Pull power stage. A new development presented by Acratone Engineers to fill a definite need.

Four sockets are provided for speaker connections and at each of these, both 500 ohm line and field supply are available. Other output impedances are available at a terminal strip provided for this purpose. This arrangement permits the booster to be operated in various positions. It may, for instance, be located with the main amplifier and both field and voice run in a four wire cable. Or, it may be at the remote speaker point and connected directly to AC or DC speakers.

Acratone 30 Watt Power-Booster Amplifier. Size: 14x8 1/2 x 11". Shpg. Wt. 45 lbs. Code Word: GAZUM. Retail Value \$69.00.
Model No. 1900
Your Cost, less tubes..... \$34.50
Kit of Matched Tubes..... \$5.52

SPECIFICATIONS

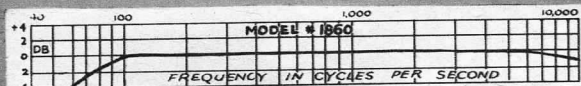
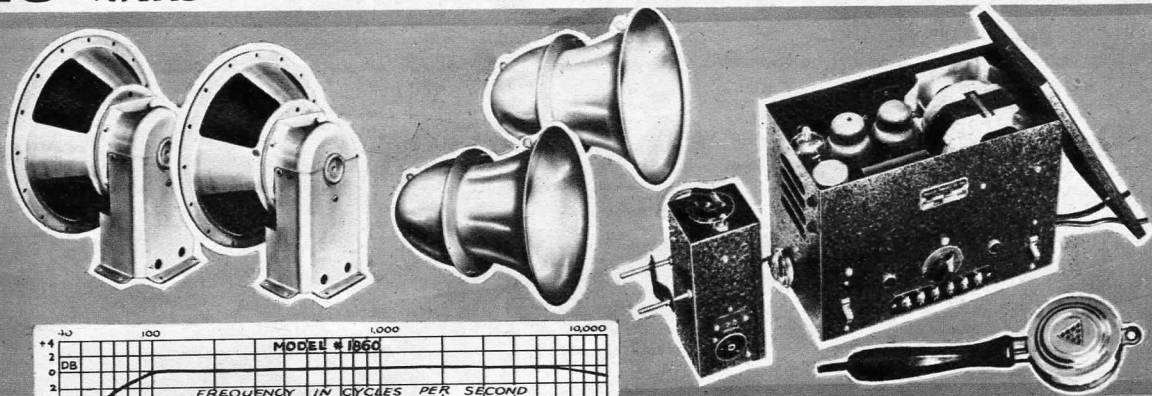
Peak Power Output Watts..... 164	Output Impedance 6/9/15/500 ohms
Rated Power Output Watts..... 100	Hum Level, below Max. Output... - 45 db
Tube Complement 2-RK31, 1-RK-19	Power Consumption Watts..... 175 to 315
Gain at 1000 Cycles 14.5 db	
Inputs: 500 ohms match-	
	ing..... +33 db for rated power output

A 100 watt power-booster stage for use with any standard amplifier which has an output level of 33db or greater. Full power output is obtained over the wide frequency range of from 50 to 10,000 cycles. The single stage in this amplifier is operated in Class B and makes use of the latest type of high output tubes. Battery bias is eliminated. This amplifier is designed to match a 500 ohm line output from the driving amplifier. A meter on the front panel indicates the plate current drawn by the tubes, and any falling off in amplifier efficiency due to loss in tube emission or other causes may be instantly noted. The tubes are fully protected against damage by a cane steel cover. May be adapted for rack mounting.

Acratone 100 Watt Power-Booster Stage. Size: 17 1/4 x 12 x 13 1/2". Shpg. wt. 46 lbs. Code Word: GAZLO. Retail Value \$115.00.
Model No. 1425
Your Cost, less tubes..... \$57.50
Kit of Matched Tubes..... \$27.50

All Amplifiers available with Rola, Jensen and Wright DeCoster Speakers—see pages 30 and 32.

15 to 24 ACRA TONE REMOTE High Gain AUTO Amplifier CONTROL



SPECIFICATIONS

- Peak Power Output Watts... 24
- Rated Power Output Watts... 15
- Number of Audio Stages... 3
- Tube Compliment
1-6C6, 1-79, 2-6B5
- Gain at 1000 Cycles
Medium Level... 72 db
High Level... 124 db
- Inputs: 2... One high gain
One medium gain
- Output Impedance
2/8/12/15/500 ohms
- Power Consumption
11 amps at 6 V.

HIGH GAIN

This Acratone amplifier, designed especially for mobile sound units, is furnished with a high gain channel for crystal or velocity microphone as well as a medium gain channel, with mixing facilities. A tone control is also provided. This provision of two gain levels is of utmost importance to insure high fidelity response without overload.

SIMPLE TO INSTALL

Easy to install and any automobile may be quickly converted into a most effective sound unit. It is compact enough to be mounted under the dash, and no alterations of the car are necessary.

LOW BATTERY DRAIN

By means of a special switch, an exclusive feature of this amplifier, more than 50% of the usual battery drain is saved. During intermissions, the plate supply generator may be cut off while the filaments remain heated. Thus the amplifier may always be held ready for instant use, without delay while tubes heat up.

FINGER TIP CONTROL

A small remote control unit, arranged to mount on the steering column, is an important feature. By means of this, it is possible to vary the volume level and to switch from one input to another or to mix them without inconvenience to the operator.

DYNAMOTOR "B" POWER SUPPLY

The plate voltage for this unit is supplied by a dynamotor built to our specifications. The dynamotor is filtered against noise and is completely floated on rubber, avoiding possibility of mechanical noise pickup. It starts instantly and is capable of delivering full voltage at all times.

PILOT LIGHTS

Two pilot lights with associated tumbler switches are mounted on the front panel. A green pilot is used to indicate filament supply and a red one gives an indication of the plate supply.

The case of the amplifier is built of heavy automobile steel, finished in a durable crackle black. The parts used are of the best quality obtainable, and no expense has been spared to assure long trouble free life.

Acratone 15 Watt Auto Amplifier with Remote Control. Size: 10x5 1/2 x 8". Shpg. Wt. 20 lbs. Code Word: GAXDO. Retail Value \$79.00.

Model No. 1860 \$39.50
Your Cost, less tubes
Kit of Matched Tubes... \$3.49

Complete 15 Watt Auto Amplifier System with Flared Horns: Acratone No. 1860 Amplifier, Remote Control and tubes; No. 1225 Crystal Hand Microphone; 2 Acratone No. 735 Dynamic Cone Units; 2 No. 683 Short Flared Horns. Code Word: GATED. Retail Value \$188.00.

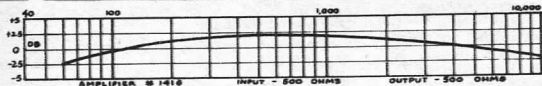
Complete System No. 1861 \$94.00
Your Cost... \$94.00

Complete 15 Watt Auto Amplifier System with Aluminum Baffles: Acratone No. 1860 Amplifier, Remote Control and tubes; No. 1225 Crystal Hand Microphone; 2 Wright-DeCoster No. 1649 Dynamic Speakers (12"-6V); 2 No. 390 Aluminum Flare Baffles. Code Word: GAWEG. Retail Value \$173.00.

Complete System No. 1862 \$86.50
Your Cost... \$86.50

On special order, we can supply the Acratone 30 Watt Auto Amplifier, less remote control. Tubes used: 1-6C6, 1-6A6, 4-6B5. Shpg. Wt. 70 lbs. Code Word: GARIC. Retail Value \$133.00.

Model No. 1870 \$66.50
Your Cost, less tubes... \$5.75
Kit of Matched Tubes... \$5.75



Over four years of use in the field has given convincing proof of the value of this amplifier. Designed to meet the requirements for 110 volt DC operation, it will deliver a full 10 watts of usable audio power. A standard "C" battery is used so that full line voltage is available for plate supply. This "C" battery, located

10 watt D.C. Amplifier

SPECIFICATIONS

- Peak Power Output Watts... 15
- Rated Power Output Watts... 10
- Number of Audio Stages... 3
- Tube Compliment... 2-6C6, 2-76, 4-48
- Gain at 1000 Cycles... 72 db
- Inputs... 200/500 ohms
- Output Impedance... 2/8/12/15/500 ohms
- Frequency Range... 50-10000 cycles ± 2.5 db
- Power Consumption Watts... 110

underneath the chassis, is conveniently housed in a "slip-in" compartment covered by a removable plate. True high fidelity is obtained from this amplifier, which has a frequency response of from 50 to 10,000 cycles with a variation of only ±2.5 db. The steel chassis has been louvered to provide ventilation. A steel cane cover provides protection to the tubes.

Shpg. Wt. 35 lbs. Code Word: GAWUK. Size: 16 1/4" long, 8 1/2" high, 6" deep. Retail Value \$57.00.

Model No. 1418 \$28.50
Your Cost, less tubes... \$7.04
Kit of Matched Tubes... \$7.04

All amplifiers available with Rola, Jensen and Wright De Coster Speakers—see pages 30-32



- ★ High-gain Amplifier for Velocity or Crystal Mikes
- ★ Diode Detector Superhet
- ★ Ideal for Recording
- ★ Cathode-Ray Indicator
- ★ New Zero - Center Control
- ★ Ten Latest Type Tubes

SPECIFICATIONS

Peak Power Output Watts . . . 24
 Rated Power Output Watts . . . 15
 Number of Audio Stages
 2-6K7, 1-6A8, 1-6HG, 1-6C6,
 1-79, 2-6B5, 1-5Z3
 Gain at 1000 Cycles 127 db
 Inputs: 3 . . . (radio, phonograph,
 microphone)
 Output Ohmages 2/8/12/15/500
 Hum Level, below rated
 Output - 54 db

TUNER

One stage RF, one stage IF, diode detection, AVC, IF frequency 456 kc.

CLUB UNIT

A complete public address unit consisting of a radio tuner and amplifier combined with facilities for microphone and phonograph reproduction.

15 WATT AMPLIFIER

The Amplifier portion is rated at 15 watts output and has the same characteristics as the No. 1820 amplifier described on page 18. One high gain channel is provided for use with low level microphones and two medium gain channels are provided for use with phono-radio program sources. One of the medium gain channels is directly connected to the radio tuner which is available for any other program source desired.

EXCELLENCE FOR RECORDING

A special 15 ohm output is provided for feeding directly to a cutting head. High fidelity recording can be made of voice, phonograph music or radio broadcasts.

SIMPLICITY OF CONTROL

Only three controls appear on the front panel allowing simple operation. The first control will function as the microphone-volume control, the second acts to tune the radio receiver, and the third is the "Zero Center Control" which performs the dual function of the radio or phonograph volume control and mixer. At exact zero center only the microphone input is effective. Turning the control to the left will advance the radio-tuner volume, the amount of volume being dependent upon the setting of the control away from zero center. Turning it to the right will raise the volume of the phonograph or other source. This method of mixing is the simplest possible from an operational standpoint and, being self contained, does not require any additional equipment. A tone color control is provided on the rear of the chassis.

DIODE DET. SUPER-HETERODYNE

The tuner is of the superheterodyne type so as to provide the greatest possible selectivity. At the same time, broad band IF transformers are used in order that there may be no side band cutting with consequent loss of high fidelity reproduction. With this combination, the tuner passes a band width of 7500 cycles and has a sharp cutoff beyond this range. The three gang condenser is mounted on rubber to absorb any mechanical vibration. An illuminated airplane type dial is supplied.

CATHODE RAY INDICATOR

The new Cathode Ray tuning indicator (6E5) is used. This type of indicator assures accurate tuning on the center of the broadcast carrier, a necessity if true studio reproduction is to be attained. Automatic volume control of the radio tuner is provided so that blasting or fading will be minimized.

FOR RACK OR CABINET MOUNTING

The combination unit is arranged on a standard repeater rack panel finished in black crinkle. All controls and the tuning dial are conveniently placed. The size of the panel is such that it may be mounted in a standard, single section cabinet. Metal and Glass tubes are used in combinations in this unit, in a circuit which brings out the best qualities of each type tube.

Acratone High-Fidelity Tuner-Amplifier Combination. Size: 19x8 1/4 x 13 1/4". Shpg. Wt. 45 lbs. Code Word: GAYHE. Retail Value \$139.00.

No. 1940, less tubes \$69.50
 Your Cost
 Kit of Matched Tubes \$7.35
 Single Section Steel Cabinet for Combination Unit.
No. 1690. Your Cost \$4.50

Complete System: Acratone No. 1940 Tuner-Amplifier Combination with tubes, No. 13630 Crystal Microphone; No. 434 Floor Stand; 25 ft. No. 11065 Mike Cable; 2 12" No. 13162 Special Acratone High-Fidelity P. A. 2500 ohm. Dynamic Speakers mounted in No. 1677 Leatherette Portable Case; 100 ft. No. 24530 Speaker Cable. Shpg. Wt. 190 lbs. Code Word: GAVHO. Retail Value \$244.00.

Complete System No. 1941
 Your Cost \$122.00

Same as above but with No. 1433 Amperite "RBH-B" Velocity Microphone instead of Crystal Mike. Code Word: GAQAK. Retail Value \$266.00

Complete System No. 1942
 Your Cost \$133.00

Club Models: Above systems may be had in beautiful walnut Console Cabinets in combination with Automatic Record Changer. Write for complete descriptions and low prices!

All amplifiers available with Rola, Jensen and Wright DeCoster Speakers—See pages 30-32.

Theatre SOUND on FILM HIGH FIDELITY AMPLIFIER

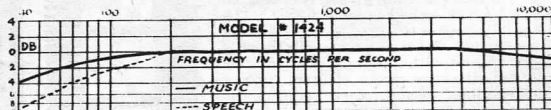
to **15**
24
WATTS



to **30**
53
WATTS



For Small and Medium Theatres



SPECIFICATIONS	No. 1424 15 Watt	No. 1930 30 Watt
Peak Power Output Watts	24	53
Rated Power Output Watts	15	30
Number of Audio Stages	4	4
Tube Compliment	1-6C6, 1-6A6, 2-6B5, 1-5Z3	2-6C6, 4-6B5, 1-83
Gain at 1000 Cycles	118 db	116 db
Output Impedance	2/8/12/15/ 500 ohms	2/8/12/15/ 500 ohms

FLEXIBLE INPUT PROVIDED

There are two photo-electric cell positions, with two low capacity cables and a quick acting, noise free switch for changing from projector No. 1 to projector No. 2. In addition, a high impedance input position for connection to a velocity or crystal microphone, or other high impedance input is provided. This feature allows use of the amplifier for entertainment direct from the stage. Individual controls are provided for equalizing the output of each photo cell input.

NEW FREQUENCY RESPONSE CHARACTERISTICS

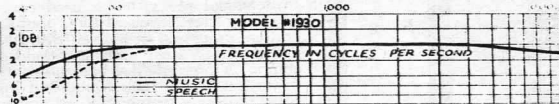
A novel frequency response control switch replaces the usual tone control on these amplifiers. The operator is able to choose between a characteristic having a rising response to 10,000 cycles and one having a practically flat response between 70 and 10,000 cycles. The rising response to 10,000 cycles automatically compensates for sound film characteristics and is normally used with sound-on-film.

There are cases, however, such as orchestration films where the bass response is particularly desired, and the switch is used in the flat response position. In all stage work, the flat response position is used. The change-over is accomplished without attenuating the high frequency response, as is the case when the ordinary method of tone control is used. Instead, a low frequency degeneration is introduced for the rising response characteristic, resulting in a greater overall power output. The entire case is finished in baked telephone black, with a cane steel cover.

SPECIALLY DESIGNED FOR THEATRES

These amplifiers are not merely adaptations of other types of amplifiers for theatre work. They are specifically designed for use with motion picture projectors and their size and shape is such that they will readily mount between two projectors. All connections are made through cables into standard BX connectors in the case. An exciter lamp switch and pilot are standard equipment.

For the Large Theatre



SPECIFICATIONS	No. 1424 15 Watt	No. 1930 30 Watt
Inputs: (3)	2 Photo Cells, 1 High Impedance	2 Photo Cells, 1 High Impedance
Hum Level, below max. output	-53 db	-52 db
Power Consumption Watts	210 Max.	250 Max.
Exciter Lamp Volt-age	8V.—4A., 10V.—7.5A.	8V.—4A., 10V.—7.5A.

METERS IN THIRTY WATT MODEL

In addition to the many fine features mentioned above, the thirty watt model has two meters on the front panel. These meters indicate the polarizing voltage on the photo-electric cells, one in each cell circuit.

15 WATT

Acratest 35 mm. 15 watt Theatre Amplifier for 110-120 volts, 50-60 cycle AC. Size 16 1/4 x 7 1/2 x 14 1/2" Shpg. wt. 50 lbs. Code Word: GAZOL. Retail Value \$115.00.

No. 1424
Your Cost, less tubes.....
Kit of Matched Tubes.....\$3.99

\$57.50

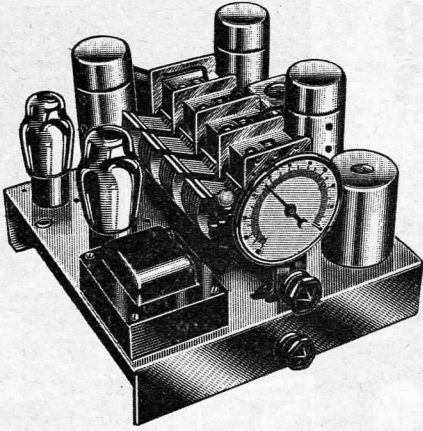
30 WATT

Acratest 35 mm. 30 watt Theatre Amplifier for 110-120 volts 50-60 cycle AC. Size: 16 1/4 x 7 x 15 1/2". Shpg. wt. 65 lbs. Code Word: GEBAN. Retail Value \$145.00.

No. 1930
Your Cost, less tubes.....\$72.50
Kit of Matched Tubes.....\$6.12

Mail Your Requirements to Federated for Complete Systems!

ACRATEST HI-FIDELITY P.A. TUNER



- Special Band-Pass Circuit ● 5-Tubes
- 550 to 1500 Kc. ● 4-Gang Condenser
- Compact Size ● Built-in Power Supply
- Ample Selectivity ● No Side Band Cutting

A tuner designed specifically for use with a P. A. Amplifier for sound work or for recording purposes. The circuit is designed for high fidelity performance throughout. The T. R. F. circuit is used in preference to the Super-Heterodyne to eliminate side-band cutting. It makes available to the sound man and recording engineer all of the radio programs "on-the-air" in a manner providing realism and the best total reproduction not produced by the ordinary type radio receiver. **No external power supply or batteries needed.**

Circuit Design: The efficient Tuned Radio-Frequency circuit used incorporates four tuned circuits and a four-gang condenser with a Band-Pass Input. Two 6D6 Super Control Amplifier tubes are used in the R. F. section feeding into a 6C6 Triple-Grid High-Gain Detector stage which is then amplified at Audio Frequencies by the 76. An 80-tube acts as a Full-Wave Rectifier in conjunction with the self-contained Power Supply; delivering pure, no-hum D. C. to the plates of the various tubes.

ACRATEST Hi-Fidelity P. A. Tuner

Model 194—Code Word: GYLOD

Your Cost, Less Tubes.....

Kit of Matched Tubes: 2-6D6, 1-6C6, 1-76, 1-80.....\$2.31

Special Panel and Sub-base for mounting this Tuner in the ACRATEST P. A. Rack No. 444, described below. Finished in black, baked lustrous enamel. Completely assembled and drilled. Shpg. Wt. 7 lbs. **\$2.25**

No. 650—Code Word: GYNAC—Your Cost.....

Tube Complement: 2-6D6, 1-6C6, 1-76, 1-80.
Output: High Impedance. Wattage Drain: 35 watts. Operates on 110-120 Volts, 50-60 Cycles A. C. Size: 9"x9"x6½". Shpg. Wt. 12 lbs.

\$23.75

\$2.25

ACRATEST RACKS·PANELS·CABINETS

Standard Relay Racks

Professional racks, being used commercially for transmitters, public address units and in hotels. Sturdily made of ½" steel with spot-welded joints. A pressed-steel base prevents distortion of the rack frame and insures perfect alignment at all times. Sides are angle steel, three-sided, 1¾"x3¼". Drilled for mounting screws every 1¾" and tapped for 10/32 screws. Handsomely finished in black, baked crackle crystalline lacquer giving them the professional and commercial touch.

6' Repeater Rack: Shpg. Wt. 60 lbs.

No. 1231

Your Cost..... **\$10.75**

3' Repeater Rack: Shpg. Wt. 30 lbs.

No. 1232

Your Cost..... **\$8.75**

Front Rack Shelf for mounting keys, etc. Protrudes 8" from rack front. Panel space of 8¾". Regular 19" length. Black crystalline finish.

Shpg. Wt. 8 lbs.

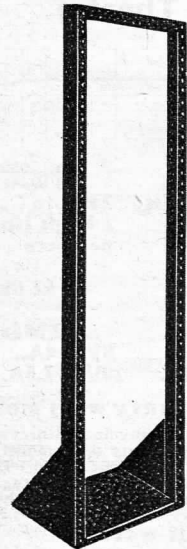
No. 1251—Your Cost..... **\$2.95**

Steel brackets for mounting 17" equipment on above racks. Mounting holes drilled. Mounting panel must be 8¾" high. Black crystalline finish.

No. Depth Shpg. Wt. Per Pair

1577 8" 2 lbs. 59c

1579 11" 3 lbs. 89c



Steel Panels to match either the No. 1231 or No. 1232 Rack described above. ½" thick and slotted for mounting screws. All panels are standard 19 inches wide and crackle-finished.

No.	Height	Shpg. Lbs.	Your Cost	No.	Height	Shpg. Lbs.	Your Cost
1685	1¾"	2	\$0.53	1236	12¼"	12	\$1.35
1686	3½"	5	.58	1237	14"	13	1.55
1687	5¼"	7	.67	1238	15¾"	14	1.75
1233	7"	8	.70	1239	17½"	15	1.95
1234	8¾"	9	.94	1240	19¼"	16	2.10
1235	10½"	10	1.15	1688	21"	17	2.35

Black Steel Chassis or Sub-bases; black crystalline finish, with bottom cover plates and mounting bolts.

No. 1241—Size 8"x17"x2". Shpg. Wt. 14 lbs. Your Cost **\$1.60**

No. 1242—Size 11"x17"x3". Shpg. Wt. 20 lbs. Your Cost **1.95**

Sectional P. A. Rack

These P. A. Racks improve the appearance of any installation with its professional looking black baked crackle finish. The actual floor space required is only 19"x13". The overall dimensions are 5'x19"x13" deep. Made of high-grade pressed steel and uses the new girder channel type of constructions. Each panel, being of the channel construction, effectively hides all wiring. Sold in knockdown form to facilitate shipping. Comes complete with instructions, nuts, bolts and washers. Three shelves, in addition to top and bottom, supplied.

ACRATEST Sectional P. A. Rack

Complete as described. Size 5'x19"x13".

Shpg. Wt. 60 lbs. Code Word: GYPAD

No. 444 **\$9.50**

Your Cost.....

Same as above, but 3' tall with 2 inside shelves. Shpg. Wt. 45 lbs. Code Word: GYPEF

No. 411—Your Cost..... **\$7.50**

Additional Shelves: Wt. 3 lbs. **90c**

No. 1689, Each.....



Steel Cabinets

Cabinet for single panel: Door on top. 8¾"x19"x12" deep. Shpg. Wt. 20 lbs.

No. 1690 **\$4.50**

Your Cost.....

Cabinet for 2 panels: Doors on top and rear. 17½"x19"x13" deep. Shpg. Wt. 34 lbs.

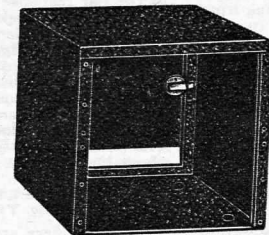
No. 1691 **\$7.90**

Your Cost.....

Cabinet for three panels: Door on rear. 26¼"x19"x13" deep. Shpg. Wt. 42 lbs.

No. 1692 **\$8.25**

Your Cost.....



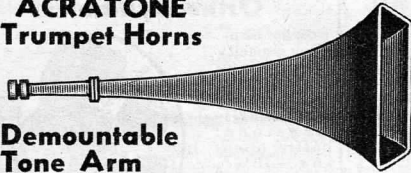
Built to house transmitters, P. A. systems, receivers, etc. All take standard 19" relay panels. Constructed with ½" steel and finished in baked black crystalline lacquer. All joints spot welded. Sides and back are louvred for ventilation. Blank chassis listed at the left can be used in these cabinets. Complete with panel mounting screws and necessary washers. Excellent, sturdy construction.

**THEATRE
and
P.A.**

ACRATONE Speakers



ACRATONE Trumpet Horns



Demountable Tone Arm

suitable for Sound Truck installations. Constructed of a special waterproof material that will withstand rough treatment and severe weather conditions. Have a demountable tone arm.

3 1/2 Foot Mouth 24" Square Shpg. Wt. 22 lbs. No. 756 Your Cost \$17.64	4 1/2 Foot Mouth 26 1/2" Sq. Shpg. Wt. 24 lbs. No. 757 Your Cost \$20.58	6 Foot Mouth 31" Square Shpg. Wt. 26 lbs. No. 109 Your Cost \$24.99
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The design of these trumpets is of the most advanced sound projection type. They are easily mounted, and are especially

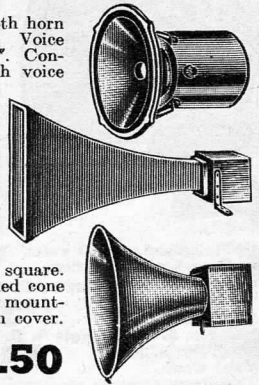
ACRATONE Exponential and Short-Flared Horns — and Dynamic Unit

30 Watts Peak — 15 Watts Constant

Dynamic Cone Unit

Combines features found in both horn units and dynamic speakers. Voice coil 8 ohms. Cone measures 6". Convenient binding posts for both voice and field leads. Voice coil is aluminum wire-wound, providing 50% greater efficiency. Shpg. Wt. 9 lbs.

No. 901—1000-Ohm Field.
No. 735—6-Volt Operation.
Your Cost
Either Type..... \$10.25



Exponential Horn

Length 3 1/2 ft. Mouth 28 1/2" square. Special housing for self-contained cone unit. Brackets supplied for easy mounting. Special water-proof mouth cover. Shpg. Wt. 3 lbs.

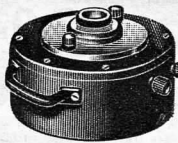
No. 736
Your Cost..... \$14.50

Short-Flared Horn

Excellent for use where wide angle radiation is needed for short range. Length 2 ft. Bell 22". Box to take 6" cone described above. Not affected by weather. Shpg. Wt. 7 lbs.

No. 683
Your Cost..... \$7.94

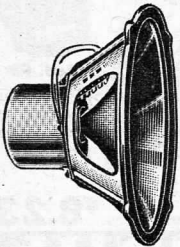
ACRATONE Dynamic Horn Units



Field wound for 6 volts. Frequency response 50 to 8000 cycles. **Voice coil 15 ohms** at 1000 cycles. Diaphragm cannot sever from voice coil. Dust-proof sound chamber. Heavy magnetic winding. Shpg. Wt. 15 lbs.

GIANT UNIT 18 Watts Constant No. 162 Your Cost.. \$23.52	SUPER GIANT UNIT 22 Watts Constant No. 768 Your Cost.. \$35.28
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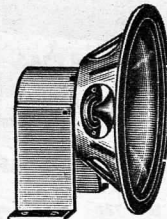
ACRATONE Dynamic Speaker Phonograph Type, 14 Inch



A powerful new Public Address Speaker, handling 15 watts continuously and 25 watts peak. **8-ohm voice coil.** Frequency 40 to 7500 cycles within 8 dB. Has new curvilinear cone. Sh. Wt. 25 lbs.

No. 731—1000-Ohm Field.
No. 13160—2500-Ohm Field.
No. 732—6-Volt Operation.
Your Cost,
Any Type..... \$9.75

ACRATONE Curvilinear Cone



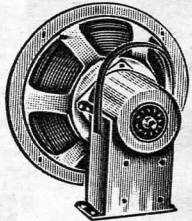
12-Inch Dynamic
A high quality speaker designed for high fidelity performance. Frequency response 70 to 7000 cycles within 10 dB. Has **8-ohm voice coil.** Will handle 5 watts constant and 15 watts peak. Massive pot measures 4 1/4" wide by 4"

long. Shpg. Wt. 20 lbs.
No. 760—1000-Ohm Field.
No. 13162—2500-Ohm Field.
Your Cost, Either Type... \$7.95
A. C. Model—110-Volt—60-cycle.
Complete with tube. **\$12.50**
No. 13163—Your Cost..... \$12.50

ACRATONE Class "B" Dynamic

11-Inch Cone

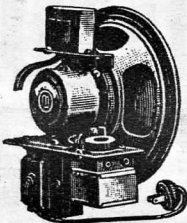
Safe operates at 10 watts. Has a **1000-ohm field.** Baffle opening 10". For use where volume without distortion is required since the diaphragm is specially constructed of special acoustic material faithfully reproducing a tonal range from 70 to 7000 cycles within 10 dB. Overall height 11", depth 6 3/4". **Supplied with Universal Output Transformer** for all output tubes. Wt. 11 lbs.



No. 539
Your Cost..... \$4.70

A.C. Dynamic Speakers

8 1/2 and 11-Inch Models

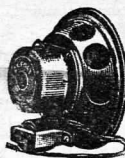


Complete A.C.-operated, using built-in exciters in conjunction with 80 Tube. Field resistance 2500 ohms. **Equipped with Universal Output Transformer matching all tubes.** 5 1/2-ft. A.C. cord and 2 1/2-ft. input cord supplied. For 110 volts, 60 cycles. Shpg. Wt. 9 lbs.

8 1/2-Inch—6 1/2-Watt
No. 546
Your Cost..... \$5.65
11-Inch—8-Watt
No. 547
Your Cost..... \$6.94

OXFORD DYNAMIC SPEAKERS

Standard Dynamic

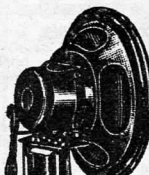


6-Inch
D. C. Field
Safe output rating 4 watts and 7 watts peak. Baffle opening 5 1/2". Cone overall 6 1/4". Depth 3 3/4". **Equipped with a**

Universal Output Transformer matching all types of output tubes. Very popular for small P. A. systems and in newly built receivers. Shpg. Wt. 6 lbs.

No. 491—45 Mils., 2500 Ohms.
No. 492—1800 (300 tap) Ohms.
Your Cost, \$1.85
Either Type..... \$1.85

DeLuxe Dynamic



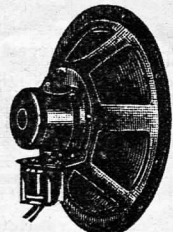
8 1/2-Inch
D. C. Field
Safe output rating 6 watts and 10 watts peak. Baffle opening 7 7/8". Depth 4 3/4". **Equipped with Uni-**

versal Output Transformer matching all types of output tubes. Can be used with field exciters listed elsewhere. Shpg. Wt. 6 lbs.

No. 495—50 Mils., 2500 Ohms.
No. 497—1800 (300 tap) Ohms.
Your Cost \$2.75
Either Type..... \$2.75

Standard Dynamic

11-Inch



Safe output rating 8 watts, 12 watts peak. Normal field 8 watts. Baffle opening 10". Cone overall size 11" Depth

5 1/2". **Equipped with a Universal Output Transformer matching all output tubes.** Capable of handling high inputs with marvelous clarity and at a broad frequency response. Shpg. Wt. 7 lbs.

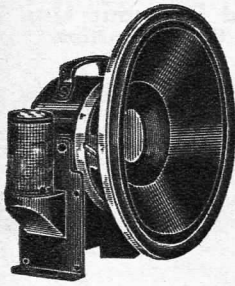
No. 530—2500-Ohm Field.
No. 532—1800 (300 tap) Ohms.
Your Cost, \$3.40
Either Type..... \$3.40

UNIVERSAL OUTPUT TRANSFORMERS can be used with: 2A3, 2A5, 2B6, 6A4, 6A6, 6B5, 12A5, 12A7, 1A, 10, 19, 20, 31, 33, 38, 41, 42, 43, 45, 46, 47, 48, 49, 50, 52, 53, 59, 71A, 79, 89, 112A, 482B, 483, and METAL 25A6, 6F6, 6N6 tubes in single or Push-Pull desired.

Jensen P.A. SPEAKERS

ELECTRO-DYNAMIC SPEAKERS

Auditorium Models



Designed to carry 15 watts continuously, 25 watts peak. Dimensions: Diameter of baffle opening, 12". Overall front to back, 9". Height 13 3/4". Voice coil diameter 2 1/2", and impedance 6 ohms.

Field dissipation is 33 watts. Available for A. C. or 6-volt operation.

No. 582—6-Volt D. C. Model
Shpg. Wt. 48 lbs. **\$35.33**
Your Cost

No. 578—110-Volt A. C. Model
Shpg. Wt. 57 lbs. **\$52.47**
Your Cost

The above speakers are supplied with the proper transformer to match your output tubes. Please specify type of tubes on your order.

Concert Type

High Fidelity Model

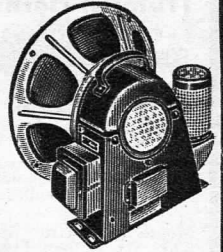
A High Fidelity Speaker covering, 30 to 8,000 cycles. Cone diameter is 12". V. C. impedance 8 ohms. Handles 10 watts continuously. Field-coil resistance of D. C. model is 860 ohms. Standard input transformer will match 4500 ohms push-pull. Transformers to match any output on special order.

Model A-12—D. C.—Shpg. Wt. 35 lbs.
No. 264 **\$18.18**
Your Cost

Model A-12—A. C.—Shpg. Wt. 35 lbs.
No. 265—Less tube **\$29.15**
Your Cost

NOTE: Any JENSEN speaker listed on this page can be supplied in any field resistance. All JENSEN speakers not listed can be quickly supplied on special order.

Ortho-Dynamics



Power handling capacity 10 watts continuously, peaks of 18 watts. Dimensions: baffle opening, 10 1/2"; height, 12 3/8"; overall front to back, 7 1/2"; maximum cone housing, 12 1/8"; voice coil 2". Voice-coil impedance is 6 ohms at 1000 cycles.

800-Ohm Field Resistance
No. 590—D. C. Model—110-volt.
Shpg. Wt. 35 lbs. **\$25.03**
Your Cost

2150-Ohm Field Resistance
No. 585—A. C. Model—110-volt.
Shpg. Wt. 34 lbs. **\$36.70**
Your Cost

The above speakers are supplied with the proper transformer to match your output tubes. Please specify type of tubes you are using.

High Frequency Speakers

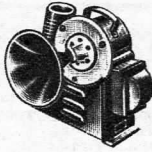


Model Q4

Advanced electro-dynamic speakers. Range: 1200 to 8000 cycles. 5 watts maximum handling capacity. Designed for reproduction of higher frequencies in conjunction with filter and low-frequency speaker. **Model Q** employs exponential horn, and 110-volt A. C. operation.

ated field. **Model Q-4**, voice coil input 16 ohms. Field coil 2500 ohms. Curvilinear cone.

Model Q-4
Shpg. Wt. 6 lbs.—List \$12.00
No. 779 **\$8.23**
Your Cost



Model Q

Model Q
Shpg. Wt. 25 lbs. List \$50.50
No. 778 **\$34.84**
Your Cost

Filter Units



Model F5A

Model F5-A is a two-channel filter, operating directly from amplifier, and providing both high and low-pass channel to all speakers in system. Equipped with frequency-selector control. Excellent laboratory device, provides master reference system for high-fidelity work. **Model F9** is low-cost filter, providing means for connecting **Model Q** speakers directly across high impedance input of transformer primary on low-frequency speaker.



Mod. F9

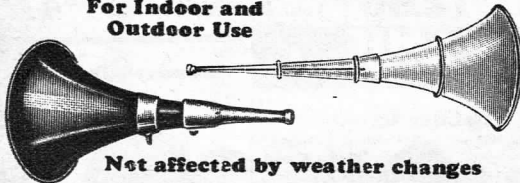
Model 5F-A
Shpg. Wt. 15 lbs.
No. 780 **\$26.41**
Your Cost

Model F9
Shpg. Wt. 10 lbs.
No. 781 **\$8.23**
Your Cost

RACON DYNAMIC HORN UNITS & TRUMPETS

Cloth and Aluminum Trumpets

For Indoor and Outdoor Use



Not affected by weather changes

Aluminum and acoustic cloth trumpets for all purposes, both outdoors and indoors. All trumpets are provided with couplings for attaching dynamic units.

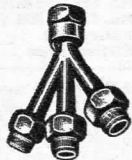
3 1/2 Feet		4 1/2 Feet		6 Feet	
No.	Your Cost	No.	Your Cost	No.	Your Cost
522	\$12.94	540	\$25.88	575	\$32.34
527	16.17				
Indoor Cloth		Outdoor Cloth		Aluminum	
502	\$25.88	533	\$35.58	541	\$42.00
For Short Aluminum Flares see Page 31.		484	\$25.88	465	\$38.22

Multiple Connectors

Wider coverage by driving two or three trumpets from a single unit. Have flexible couplings for connecting any size trumpet rapidly and solidly. Double Connector dispersion angle 75°, triple connector 105°.

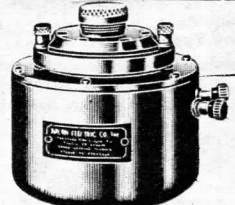
No. 489—Double. List \$14.85. **\$8.73**
Your Cost

No. 500—Triple. List \$19.25. **\$11.32**
Your Cost



Dynamic Horn Units

Dynamic horn units recommended for use where the best quality reproduction is desired for long range, directional, projection. These units are ruggedly built to withstand rough handling. A cap is furnished with each unit to protect the diaphragm when horn is not attached. Will handle large volumes.



Super Power Dynamic Unit
Provides high quality long range projection where high volume levels are required. 90 watts peak, 30 watts continuous. 15-ohm voice coil, 6-volt field. Shpg. Wt. 40 lbs. Size 6 1/2" x 6 1/2". **No. 421—Your Cost** .. \$52.92

Giant Horn Unit
For all general sound purposes. 20 watts continuous. 15-ohm voice coil, 6-volt field. Shpg. Wt. 26 lbs. **No. 422—Your Cost** .. \$32.34

Junior Unit
15 watts continuous. 15-ohm voice coil, 6-volt field. Shpg. Wt. 11 lbs. **No. 451—Your Cost** .. \$21.00

Super Giant Horn Unit
Recommended where finest quality reproduction is desired. Will handle 25 watts continuously. Has 15-ohm voice coil and 6-volt field. Shpg. Wt. 20 lbs. **No. 443—Your Cost** .. \$38.80

Master Unit
Similar to above illustration. 50 watts peak, 20 watts continuous. 15-ohm voice coil, 6-volt field. Size 6" x 5 1/2". Shpg. Wt. 18 lbs. **No. 435—Your Cost** .. \$25.87

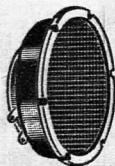
Baby Unit
Excellent for paging systems. 10 watts continuous, 15-ohm voice coil. Size 4" x 4". Shpg. Wt. 6 lbs. **No. 459—Your Cost** .. \$16.17

All above Racon units available with any field resistance. Specify on order ohmage desired.

SPEAKERS

PIEZO-ELECTRIC

Crystal Tweeters



Tweeter reproduction begins at a point where dynamic response falls off (usually 3000 cycles) and continues to 8000 cycles. Connected across primary of regular speaker transformer, together with simple condenser-resistor network, as per instructions supplied.

Size is 5" overall diameter and 1 3/4" deep. Shpg. Wt. 2 lbs.

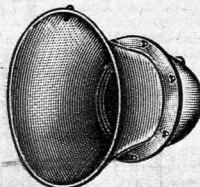
No. 681
Your Cost..... \$4.20

Tweeter With Transformer

To match 4, 8, 15-ohm voice coil or 500-ohm line, mounted on back of speaker. Shpg. Wt. 9 lbs.

No. 682—Your Cost..... \$6.00

All Aluminum Deflector Baffle



Attractive, all-aluminum construction. Equipped with suspension ring. This model designed for 12-inch speakers. Overall length 20", 17" bell diam. 10" length of bell.

Comes complete with weather-proof snap-on cover. Free from metallic resonance conditions. Solves acoustic problems by reducing feed-back conditions. Ideal for use indoors or outdoors. Evenly distributed sound in all directions faced by speaker cone. Can be used where space is limited, yet effective baffling required. Shpg. Wt. 4 lbs.

No. 330—List \$15.00
For 12" Speakers. \$5.29

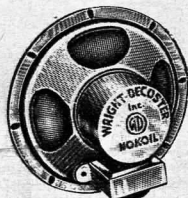
Your Cost.....

Reducer Rings—For cones smaller than 12". Specify size when ordering.

No. 11028—Your Cost..... 44c

WRIGHT DE COSTER Nokoil Reproducers

A new type dynamic speaker without a field coil. Newly developed magnetic material allows a magnet smaller than an ordinary field coil, yet it has sufficient flux to give electro-dynamic performance. Ideal for automobile radios. Equipped with a universal output transformer. Shpg. Wt. 3 lbs.



No. 13181—6" \$3.43

Your Cost.....

No. 13182—8" \$3.72

Your Cost.....

ACRATONE

5-Inch Magnetic Speakers



Excellent replacement for A. C. D. C. and compact A. C. receivers. A really efficient speaker with fine tone quality. Outside diameter 5". Depth 2 1/4". Will match most output tubes: 30, 33, 38, 71A, 112, etc. Metal parts cadmium-plated. Shpg. Wt. 2 lbs.

No. 814
Your Cost..... \$89c

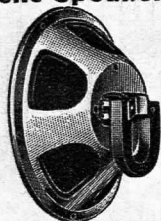
3-Inch Speaker

Used in the smaller midgets or pocket-size radios. Same output as above. Outside diam. 3 3/8". Shpg. Wt. 2 lbs.

No. 628—Your Cost..... \$1.10

Special Magnetic Speaker 9-inch

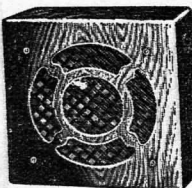
Balanced armature type, magnetically and mechanically centered. Will stand 7 watts of power input without rattling. Rigid steel frame, with mounting holes in flange. Cone diameter 9". D. C. resistance of speaker winding is 1000 ohms.



No. 630
Your Cost..... \$1.79

Magnetic Speakers in Walnut Finish Cabinets

A very popular line of magnetic speakers, housed in attractive wood cabinets with scroll grille on front and back. Ideal as second speakers, for monitoring purposes, or in calling systems. Windings are standard for most output tubes such as Types 30, 33, 38, 71A, 112, etc. All metal parts are cadmium-plated. With 6-ft. cord.



Contains 5-Inch Cone
Size: 7" square, 3 3/4" deep.

No. 761
Your Cost..... \$2.18

Contains 6-Inch Cone
Size: 7" square, 4" deep.

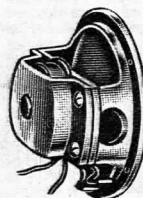
No. 762
Your Cost..... \$2.35

Contains 9-Inch Cone
Size: 9 3/4" square, 4 1/2" deep.

No. 763
Your Cost..... \$3.05

Special 5" Dynamic

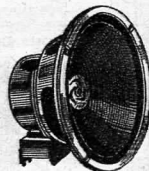
Will give surprisingly faithful reproduction even at high volume. Very popular for replacement in A. C. D. C. sets. Has standard 3000-ohm field. Pressed paper cone with durable spider. **With output transformer** to match 43-Type tubes. Bright cadmium-plated. Shpg. Wt. 3 lbs.



No. 703
Your Cost..... \$1.32

6" Dynamic Speakers

Transformers match 47, 2A5 or similar type Pentode tubes. Overall size 6 1/2". Depth 3". Cadmium-plated. Four mounting holes. Durable spider. Shpg. Wt. 4 lbs.



2500-Ohm Field
No. 629—Less Output Transformer \$95c

Your Cost, SPECIAL.....

No. 15451—With Output Transformer. \$1.39

Your Cost.....

1800 Ohms (tapped at 300)
No. 816—Less Transformer \$95c

Your Cost, SPECIAL.....

No. 817—With Transformer. \$1.39

Your Cost.....

ROLA P.M. and Dynamic HI-FIDELITY SPEAKERS

"High Fidelity" Dynamic Speakers

Model G-12

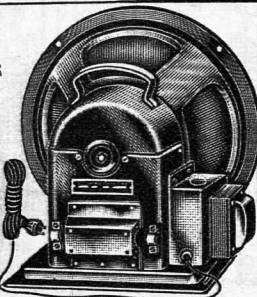
Frequency response 50 to 8000 cycles. Cone is full 12". Capable of handling 15 watts under continuous load and 20 watts for peak intervals. Voice coil is 8 ohms at 400 cycles, with a diameter of 1 1/4". Output transformer for 200 or 500-ohm (lines). A new exciter, specially designed by Acratone Engineers, is used on the A. C. model.

D. C. Models—Shpg. Wt. 22 lbs.
No. 273—1000 ohms.

Your Cost, Either Type..... \$9.50

A. C. Model—Operates on 110 volts, 50-60 cycles. Shpg. Wt. 30 lbs. (illustrated).

No. 473—Your Cost, less 5Z3 Tube..... \$14.75



Permanent Magnet Dynamic Speakers

Dynamic speaker performance. Speakers serve admirably where it is inconvenient to obtain a field-supply current and dynamic performance is desired. A domed center shield placed in the apex of the cone protects the magnetic air-gap against metallic particles and dust. The new particle-proof acoustic filter and corrugated diaphragm type centering member protect the voice-coil. Comes complete with 18" leads and output transformer as listed below.

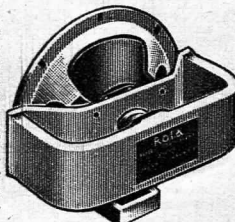
For PP 45, 50, 71A, 2A3, METAL 6D5, etc.

No. 730—6" Cone. Shpg. Wt. 11 lbs. \$5.75

Your Cost.....

No. 693—8" Cone. Shpg. Wt. 12 lbs. \$6.70

Your Cost.....



For PP 42, 46, 47, 2A5, METAL 6F6, etc.

No. 737—6" Cone. Shpg. Wt. 11 lbs. \$5.75

Your Cost.....

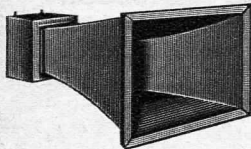
No. 694—8" Cone. Shpg. Wt. 12 lbs. \$6.70

Your Cost.....

WRIGHT De COSTER DYNAMIC SPEAKERS

THE STANDARD OF SOUND REPRODUCTION

Dynamic Speaker and Baffle Horn



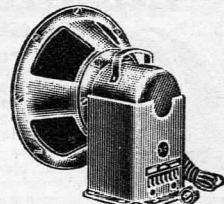
A powerful Dynamic Speaker, and a newly-designed Baffle Horn, combined into one unit. Extensively used in medium-sized P. A. installations, sound trucks, etc. Built to withstand the severest treatment, the Baffle Horn is constructed of 3/4" Celotex with reinforced wood trim. The six-inch Dynamic

Speaker is an improved model, with oversize pole-piece and full leather suspension spider. Will safely carry continuously approximately 8 watts of audio power. Peak load, 15 watts. Voice Coil impedance is 5 ohms. Shpg. Wt. 15 lbs.

No. 1247—For 6-Volt Operation
No. 1248—For 110-Volt D. C. (1000-Ohm Field)
Your Cost, \$10.04
Either Type, SPECIAL

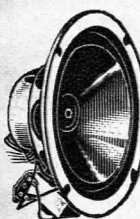
Model 5800

This new giant reproducer has a handling capacity conservatively rated at 15 watts maximum. Uses new type solid spider, which prevents entrance of water, dirt, or grit to air-gap. This feature is of great importance, particularly for outdoor installations. Entire cone is waterproofed. Uniform response over entire useful audio-frequency range is assured. Field resistance of this speaker is 1800 ohms, and is made to operate on 220 to 275 volts, D. C., at a current drain of 125 to 150 mls. Field dissipation 18 to 40 watts. This Wright DeCoster Model 5800 has five different impedances, furnished by built-in tapped output transformer: 10 ohms (directly to voice coil), 500 ohms, 1000 ohms, 1500 ohms, and 4000 ohms. Size: Diam., 12 1/2"; depth, 9"; overall height, 12 1/4". Shpg. Wt. 35 lbs.



No. 596 Your Cost \$28.42

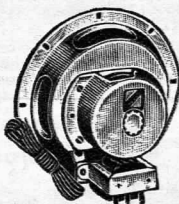
Model 630 — 8 Inch



Tests prove that the patented corrugated solid spider is superior to any other type of spider manufactured. Impregnated with moisture-proofing compound, this spider is practically indestructible. Standard field-coil resistance, 2500 ohms. Voice-coil impedance at 400 cycles, 5.2 ohms. Universal

output transformer matches all output tubes. Has neutralizing coil. Cone bracket, 8 3/4"; inside cone diameter, 6"; depth of speaker, 4". Rust-proof, cadmium-plated. Shpg. Wt. 5 lbs.
No. 280—Your Cost \$3.09

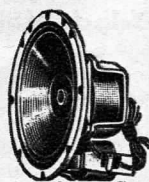
Model 530-6 Inch



Standard field-coil resistance, 2500 ohms. Has Universal Voice Coil Transformer matching all output tubes. The patented solid-center spider protects the air gap against water, dirt and grit. Equipped with hum-neutralizing coil. Standard mounting hole template. Bright rust-proof cadmium-plated finish. Outside diameter of cone bracket, 6 3/4"; inside cone diameter, 4 1/2". Depth of speaker, 3 3/4". Shpg. Wt. 4 lbs.

No. 278 Your Cost \$2.60

Model 390 — 5 Inch

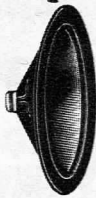


Quality in a small speaker. Has patented solid center spider. Field Coil resistance 3000 ohms. A fine speaker for replacement purposes in compact A. C.-D. C. or A. C. receivers. Has a bright, rust-proof cadmium-plated finish. Standard mounting hole template. Cone 5". Depth 2 3/4". Voice coil impedance at 400 cycles, 4.2 ohms. Incorporates a neutralizing coil. Equipped with jan/output transformer to match a single 43 output tube. Shpg. Wt. 2 lbs.

No. 279 Your Cost \$1.91

SPEAKER CONES AND FIELD COILS

Replacement Cones



There is only ONE size cone to replace your old one. If the cone you require is not in the listing below, write us specifying make of set, model number, outside diameter, voice-coil diameter, and type of spider-mounting. If in doubt, send us your old cone with specifications.

Set or Speaker	Voice Coil		No.	Your Cost
	Size In.	O. D. In.		
MAJESTIC—Continued				
Speaker G7.....	10	1 1/4	888	\$1.15
Speaker G10.....	7 1/2	1 1/4	891	.93
Speaker G13.....	11 3/4	1 1/4	893	.95
Speaker G14.....	12	1 1/4	894	.95
Speaker G19.....	10	1	895	.95
Speaker G22.....	12	1 1/4	897	.95

Set or Speaker	Voice Coil		No.	Your Cost
	Size In.	O. D. In.		
GENUINE PHILCO Replacement Cones				
Pt. #02887 for models 35, 37, 50, 51.....			1252	.59
Pt. #02896 for models 3, 20, 21, 46, 70, 90, 470, 490.....			1253	.59
Pt. #02861 for models 48, 50, 51, 52, 80, 81.....			1254	.45
Pt. #36-3159 for models 6, 7, 8, 9, 10, 12, 14, 15, 19, 43, 47, 71, 89, 91.....			1255	.48
Pt. #36-3170 for models 40, 41, 42, 65, 76, 77, 87, 90, 95, 96, 111, 112.....			1256	.85
Pt. #2898A for model 86.....			1257	1.80
Pt. #2936A for model 511.....			1258	.54

Set or Speaker	Voice Coil		No.	Your Cost
	Size In.	O. D. In.		
GENUINE RCA VICTOR Replacement Cones				
Pt. #8558 for models 34, 35, 39, 41, 46, 47, 62, 64, 66, 67, 50, 55, 59, 80, 82, 86, RE20, RE59, RAE79 106-Speaker			904	\$1.20
Pt. #8601 for models R6, 7, 8, 9, 10, 11, 12, RE18, RE19, 21, 14, 15, 17, 42, 48.....			906	.88
Pt. #8987 for models R28, R28P, RE40, R22, 100, 101, 110, 111, 114, 115, 300, 301.....			1263	.60
Pt. #10801 for models 32, 45, 52, 75.....			1265	1.20

Set or Speaker	Voice Coil		No.	Your Cost
	Size In.	O. D. In.		
RCA-VICTOR				
R32, 45, 52, 75.....	9	1 1/2	6519	.73
RCA 104, 105.....	8	1 1/2	903	1.19
RCA Photophone 1.15.....	1 1/2		7743	1.71

Set or Speaker	Voice Coil		No.	Your Cost
	Size In.	O. D. In.		
ROLA				
F5.....	6 1/4	1	899	1.05
F6, F8.....	8	1	1269	1.15
Series "K".....	7 3/4	1	1270	1.27

Set or Speaker	Voice Coil		No.	Your Cost
	Size In.	O. D. In.		
STEWART-WARNER				
200A.....	9	1	1271	1.30
US-APEX-GLORITONE				
Model 26A, Sp. 2467.....	7 3/4	1	1273	.95
Model 27.....	8 1/2	1	909	.95
Model 10B.....	10	1	916	1.20

UTAH
A-100f..... 8 3/4 1 914 1.34
Stadium..... 11 1/2 1 915 1.35
* 3 pt. Type Spider Mounting. † 2 pt. Type Spider Mounting. ‡ String

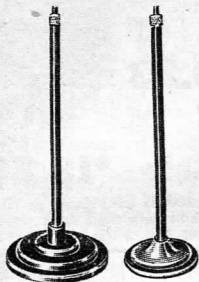
Set or Speaker	Voice Coil		No.	Your Cost
	Size In.	O. D. In.		
ATWATER KENT				
Pt. #15142, models 43, 46, 55, 60, 66, 67, 64.....			854	\$1.10
Pt. #14374, models 43, 46, 55, 60, 66, 67, 64.....	10 3/4	1 1/2		
Pt. #19465, models 80, 82, 84, 55B, 627, 87, 90, 92, early 83, 85.....	8 1/2	1	855	.95
Pt. #18081, models H2, L, F, P, H.....	10 3/4	1 1/2	856	1.18
BOSCH				
48, 58.....	9 5/8	1 3/8	858	1.25
31, 73, 20J.....	9 5/8	1	996	1.32
5A, 39A, 5B.....	7	1	860	1.09
BRUNSWICK				
D11, 12.....	12	1 1/2	910	1.15
E.....	9	1 1/2	1267	1.18
COLONIAL				
33.....	12 3/4	1 1/4	862	1.42
CROSLEY				
M45.....	9	1	863	1.15
JENSEN				
D4, D5*.....	9 1/2	1	866	1.35
D7, D8*.....	11 1/4	1 1/2	869	1.35
D9 (Inside Spider).....	11 1/4	1	870	1.25
D9 (Outside Spider).....	11 1/4	1	1268	1.25
D16.....	8	1	873	1.10
MAGNAVOX				
D7, D8†.....	9	1 1/4	1288	1.34
138†.....	8 1/2	1	878	1.22
MAJESTIC				
Speaker G1.....	9	1	882	.84
Speaker G2.....	9	1 1/2	883	.84
Speaker G3.....	9 3/4	1 1/2	884	.93
Speaker G5.....	12	1 1/2	886	1.25

ACRATONE

MICROPHONE STANDS

Floor Stands with the Automatic Friction Lock

Modernistic, is a new microphone stand with a smooth, self locking adjustment. No thumb screws to scratch finish. No rattling due to loose fit. Finished in rich black with chromium friction collar. Heavy 12½" base. ¾"-27 thread to fit most crystal or velocity mikes. (For other threads see reducers and swivels listed on this page.) Height adjustable from 51" to 76". Shpg. Wt. 22 lbs.



No. 1297—List \$17.50 **\$10.29**
Your Cost

Standard, similar to above but with 10½" base, height adjustable from 50" to 75". Shpg. Wt. 18 lbs.

No. 1299—List \$13.50 **\$7.94**
Your Cost

Standard 6" rings to fit the above stands, complete with springs.
No. 13805—Your Cost.....\$1.47

Standard and DeLuxe Floor Stands

Standard Floor Stand is a really fine low-priced mike stand, nicely balanced so as to be solid, yet light and portable. Has positive locking adjustment. Max. height 6' 6". Complete with 8 suspension springs. Has ½"-27 pipe-thread. (See Reducer and Swivel listing on this page.) Shpg. Wt. 11 lbs.

No. 434—Antique Bronze Fin. **\$4.45**
Your Cost
No. 776—Nickel-plate Finish **\$5.95**
Your Cost

DeLuxe Floor Stand is a heavy-duty floor stand for use where good appearance, rugged construction, and long life are required. Will accommodate any type of microphone. Has ½"-27 pipe-thread. (See Reducer and Swivel listing on this page.) Carefully balanced, steel construction throughout. 10½" base, 6¼" ring. Adjustable from 33½" to 6' 5". Shpg. Wt. 23 lbs.

No. 333—Statuary Bronze Finish—Your Cost... **\$8.40**
No. 777—Chromium Finish **\$9.25**
Your Cost



Suspension Rings 5¼ Inch



For use with Models "A," "X," "BB," "KK," or smaller diameter mikes. Made of solid brass, highly-polished chrome plate. 5¼" diameter, ½" wide. 8 suspension springs included. List Price \$2.50.

No. 3636
Your Cost..... **1.47**

6½ Inch
Same as above but for larger diameter microphones. Springs are included. Size 6½" diameter by ½" wide, ¼" thick. List Price \$4.00.

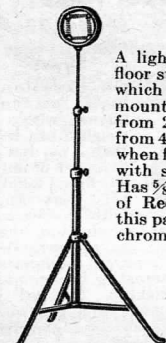
No. 3621
Your Cost..... **\$2.35**

Three-Purpose Desk Stand

This smart-looking, thoroughly-practical deskstand combines three microphone mounts in one unit. When ring is mounted directly on base, the stand is 8" high. The 5" tubing converts unit to hand mike or raises desk stand to 12½". Provision is made for suspending the ring itself. All parts are beautifully finished in chromium. Massive base measures 5½" in diameter. Shpg. Wt. 5 lbs.



No. 1229
Your Cost..... **\$3.95**



Collapsible Floor Stand

A light, compact, collapsible floor stand for applications in which portability is paramount. Leg spread adjustable from 23" to 33". Adjustable from 43" to 105" in height, yet when folded measures only 30" with standard ring removed. Has ¾"-27 thread. (See listing of Reducers and Swivels on this page.) Rubber-black and chromium finish. Complete with ring and 8 rust-proof springs. Shpg. Wt. 7 lbs. List \$17.50.

No. 1249
Your Cost..... **\$10.29**

No. 1250—Less Ring
List \$15.00—Your Cost..... **\$8.82**

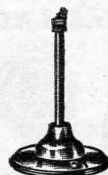
Telescopic Floor Stand

An ideal unit for portable work where microphone must be moved around considerably. Adaptable to all types of microphones; has ½"-27 pipe thread. (See Reducer and Swivel listing on this page.) Comprises three non-removable sections, permitting stand to be raised to full height in an instant. Extends from 29" to maximum of 64". Clamp lock has positive grip, yet easily operated. Finished in chromium. Furnished with special light base for portability.

No. 392
Your Cost..... **\$4.95**



Swivel Joint Desk Stand



This unit is equipped with a universal ball and socket joint which fits crystal or ribbon microphones, and permits them to be tilted to any convenient position. Joint can be locked at any angle by means of special tightening ring. Bushing is furnished on top of swivel permitting either ½" pipe thread of ¾"-27 thread. An ornamental stand built for convenience and hard usage. Will satisfy the most critical buyer. Overall height 9". Diam. of base 5¼". Shp. Wt. 5 lbs.

No. 1243
Your Cost..... **\$3.25**

Swivel-Joint Floor Stand

Similar to above, but for floor use. Can be extended from 37" to 67". Swivel has ¾"-27 thread. Has swivel-joint locking ring and special thumbscrew clamp lock. Base 9" diam. Shpg. Wt. 14 lbs.

No. 1246
Your Cost..... **\$6.95**

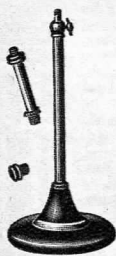
Combination Stand

Can be used either as a desk mount, or the ring can be detached and suspended. Diameter of ring is 6". Base is 4". Height of desk mount is 7". Entire unit finished in chromium plate. A professional-looking stand at a very attractive price. Shpg. Wt. 3 lbs.

No. 1244
Your Cost..... **\$1.89**



ACRATONE Banquet Stand



For Velocity Condenser, Sound Cell and Dynamic Microphones

A heavy-duty banquet and desk stand for use where smart appearance is essential. Provided with two interchangeable sections. When the 2-piece telescopic section is screwed into base (as illustrated), height extends from 16" to 25", and has ¾"-27 pipe thread. With small section screwed into base, overall height is 8"; also has ¾"-27 thread. A reducer is included, with ½"-pipe top thread and ¾"-27 bottom thread for adapting Amperite SR-80, Universal Dynamic Mike, etc. 7½" base, equipped with felt feet. Richly finished in gun-metal. Shpg. Wt. 8 lbs.

No. 1276
Your Cost..... **\$6.95**

Reducers and Swivels

Listed below will be found reducers and swivels with top and bottom thread sizes for most popular microphones. It is a simple matter to select correct reducer or swivel by comparing top and bottom thread sizes with those given for each microphone and stand listed in this catalog. Chrome finish. Other finishes available at no extra cost.



REDUCERS

No.	Top Thread	Bottom Thread
11410	½"-pipe	¾"-27
11411	½"-pipe	¾"-27
11412	½"-pipe	¾"-27
11413	¾"-27	¾"-27
11414	¾"-27	½"-27

SWIVELS

No.	Top Thread	Bottom Thread
11408	½"-pipe	¾"-27
11409	½"-pipe	¾"-27
11415	¾"-27	¾"-27
11416	¾"-27	½"-27

Your Cost, Each, Any Type..... **59¢**

Crystal AND SOUND CELL MICROPHONES

New "Spheroid"
Non - Directional



SHURE Microphones

Crystal Microphones



Hi-Fidelity Crystal Mike

A startling new advance in microphone design, the new Spheroid Crystal Mike is the first to combine high output level with non-directional, 360-degree response. Sphere is 2 1/4" diam. Sound enters through annular slot. Response is within 5 db from 40 to 10,000 cycles. Newly developed crystal element, grafoil bimorph, cantilever-supported, driven by specially shaped small dural diaphragm, horizontally enclosed. Output level is -55 dB. Exceeds 24 cell assemblies. Grafoil crystal increases internal capacity and reduces cable losses. Can be connected for either single or push-pull input. May be mounted upright on desk or floor stands, or suspended. Thread size 3/8"-27. Finished in rubber-black with white metal band. Supplied with 3-conductor shielded locking-clip, and convertible suspension for stand receptacle. Shpg. Wt. 1 lb.

No. 507—List \$37.50
Your Cost

\$22.05

"Push-Pull" Model 70 HP: Diaphragm-actuated type. No background noise or hiss. Designed for direct mounting to mike stand; can also be used with suspension springs. With 25-ft. rubber cable. Chromium-finished. With mounting ring and hooks. 3/8"-27 pipe thread. Shpg. Wt. 2 lbs.

No. 504—List \$22.50

Your Cost

\$13.23



Model 70-H: Same as above but for single input. Complete with mounting ring, hooks, 7-ft. special shielded cable. Shpg. Wt. 2 lbs.

No. 1224—Your Cost

\$13.23

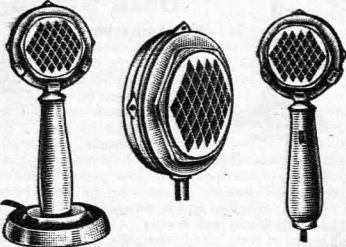
Model 70S: (illustrated at left) Same as 70H but mounted on chromium-plated desk stand with 7-ft. cable. Shpg. Wt. 2 lbs.

No. 445—List \$25.00

Your Cost

\$14.70

AMERICAN Crystal Microphone - Model AG



The latest development in Crystal (high impedance) Type Microphones. Durable and reliable. Yoke fitting furnished for mounting on desk or floor stand. Diamond eyes provided for regular ring suspension. Head measures 3 1/4" x 1 3/8". Diaphragm protected by cast-in grill. Provision made in yoke for cable to be threaded through. Complete instructions furnished. Shpg. Wt. 4 lbs.

No. 13630—Model AG
Your Cost

\$13.23

AG Desk Stand—Removable base. Mike may be mounted without removing plug from cable. Chromium-plated. Wt. 3 lbs.

No. 13730—Your Cost

\$14.70

Model AH Hand Microphone—With switch. Filter absorbs surge of make-break contact. Can be used with Desk Base listed below. Shpg. Wt. 5 lbs.

No. 13631
Your Cost

\$14.70

Base Only—No. 13731—Your Cost

59c

Crystal Lapel Mike



Model 73-A (Diaphragm Type)

An excellent lapel microphone with a weight of less than 2 oz. and a diameter of only 2". Has a highly efficient and faithful voice reproduction, due to a newly designed diaphragm and improved mechanical system. Free from internal or background noise and vibration pick-up. Finished in baked rubber-black japan. Equipped with a special mercerized black cotton-covered 25-ft. cord and a spring lapel clip. Shpg. Wt. 1 lb. List \$25.00

No. 440—Your Cost

\$14.70

Crystal Hand Mike Model 71-AS

A "close-talking" hand microphone that minimizes all crowd noise. Unit in chromium-plated cast case with rubber black-japaned handle with an enclosed push-to-talk switch. Frequency characteristic is excellent over entire important audio range. No battery excitation current needed. Complete with 7-ft. cable. Overall length: 9". Shpg. Wt. 2 lbs. List: \$26.50

No. 1225
Your Cost

\$15.58



BRUSH Sound Cell Microphone

Specially engineered for Public Address, Amateur Phone and Broadcast pickup use. Output level—66 dB. Actual weight 3 oz. Operates into conventional high gain amplifier or pre-amplifier grid input. Unconditionally guaranteed by Brush for one year, operated under normal conditions. Designed for use in adverse temperatures and humidity conditions up to 130° F. Supplied with 15 feet of high quality, low capacity single conductor cable. Shpg. Wt. 2 lbs.

No. 13635—List \$45.00
Your Cost

\$26.46

SHURE Contact Crystal Microphone - Model 72B

An inertia-type microphone for sound pickup from vibrating bodies. Useful for pickup through walls, etc., for detective work, reproduction of string-instrument music, guitars, etc. Particularly applicable to studies of machine vibration and noise. Practically no acoustic (direct sound) pickup. 1 1/2" x 3/4" x 3/4". Furnished complete with 7-ft. of cable. Shpg. Wt. 1 lb.

No. 523—List \$22.50
Your Cost

\$13.23



New and Better Astatic CRYSTAL MICROPHONES



Type D-105RS

Essentially the same as Type D-105, except that it is equipped with a suitable handle containing a compound push-to-talk switch. Bright chromium-finished with a shielded 8-ft. two-wire cable. Shpg. Wt. 2 lbs. List \$26.50

No. 1436
Your Cost

\$15.58



Type D-105

Free from background noises. Couples to grid of tube. NO transformer battery ded. Not ceptible to weather conditions. Diameter 2 1/2" x 1 1/2" thick. Finished in bright chromium and comes with 8 ft. of shielded cable. Fits 1/2" pipe. Shpg. Wt. 2 lbs. List \$22.50

No. 1435
Your Cost

\$13.23

Type L-1

Can be operated close to speakers. Response flat to 6000 cycles. Coupled directly to grid with 25 ft. of shielded cable. Shpg. Wt. 2 lbs. List \$30.00

No. 1437
Your Cost

\$17.64



Type K-2

Two diaphragms actuate one crystal in opposite forces. Response flat from 20 to 6000 cycles. The output level is -75 dB. It is non-directional. Height 2 1/4", extreme outside diam. 1 1/2". Chrome-finished and with a plug-in socket, 3/8"-27 thread. Shpg. Wt. 3 lbs.

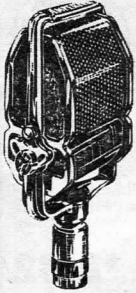
No. 1438
Your Cost

\$22.05



NEW AMPERITE VELOCITY MICROPHONES

Model SR-80 Velocity Microphone



One of the finest of microphones for any type of work including public address, high quality broadcast transmission and high-fidelity recording. Used by leading broadcast studios throughout the world. Frequency response uniform within 1 dB over entire audio range. Absolutely free from background noises. Reproduction is lifelike. No frequency discrimination with angle from center. One microphone can be used for orchestras of 40 pieces or more.

Fully shielded, with rugged bronze and steel case. Thread size $\frac{1}{2}$ " pipe. Shpg. Wt. 10 lbs.

No. 349—Model SR-80 200* ohms.

No. 1434—Model SR-80H High impedance. List Price \$80
Your Cost, Either Type. \$58.80

* Available in 25, 50, and 500 ohms impedance at no extra cost.

Tone Compensating Control for Velocity Microphones

In keeping with the recommendations of manufacturers of velocity microphones, this device consists of a frequency-compensating device designed to prevent any "boomy" effect due to the tendency of the average person to stand too near the microphone. Housed in a convenient metal case and equipped with binding posts. Easily inserted in mike line.

No. 11908—Your Cost. . . . **\$3.25**

New High Impedance Type Velocity Microphone Eliminates Input Transformer



Model RB-H (High-impedance type) operates directly into grid of tube. Eliminates input transformer and therefore inductive hum. Requires 12 dB less amplification than 200-ohm type. No separate pre-amplifier required with amplifier having gain of 100 dB or more. Excellent for speech or music. Response 40 to 10,000 cycles.

No. 1414—List \$42.00

Model RB-HB (High-impedance) beam type. For unusual feedback conditions. No. 1433—List \$42.00

Model RB-M 200* ohms. Excellent for speech or music. Output (open line) —64 dB. List \$42.00
No. 1222

Model RB-B 200* ohms. For unusual feedback conditions. List \$42.00
No. 1432
Your Cost, Any Type. \$24.70

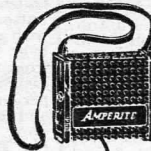
Model RB-S 200* ohms. Especially designed for speech. List \$32.00
No. 1221

Model RS-H High level—2000 ohms. Similar to RB-H. List \$32.00
No. 1428
Your Cost, Either Type. \$18.82

*No extra charge for 50 ohms. Shpg. Wt. 6 lbs.

Pipe size on all above mikes: $\frac{5}{8}$ "-27. All above prices include Shock Absorber.

Junior Velocity



Equipped with shoulder strap so that the microphone can be fastened around the neck of the speaker, and so small in size ($1\frac{1}{4}$ " x $1\frac{1}{2}$ " x $1\frac{1}{2}$ ") that it is entirely hidden from view by the speaker's coat. Output level — 65 dB

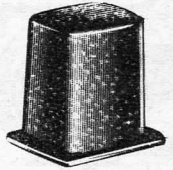
(open line). Frequency 60 to 7500 cycles. Equipped with 15-ft. cable. Shpg. Wt. 3lbs.

No. 1412—Model 7J-200 ohms.

No. 1415—Model 7J-H—High impedance. List Price \$30.00
Your Cost, Either Type. \$17.64

Ribbon Microphone Transformer

Specially designed high-permeability transformers to match Amperite Mikes. Due to small energy pickup, properly matched and designed transformers are very necessary. Range 30-10,000 cycles.



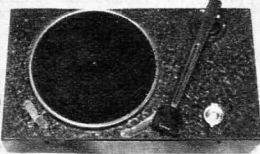
No. 10412—Ribbon to Line—R. L.	To Match	Your Cost
No. 10413 Line to Grid—L. G.		
No. 10414—Plate to Line—P. L.		\$2.94

Amperite Laboratory Transformer. Highest grade obtainable. Grid windings 150,000 ohms. Range 25-15,000 cycles.

No. 11393—R. L.—Your Cost. . . . \$5.88
No. 11394—L. G.—Your Cost. . . . \$7.06

ACRA-TEST SOUND SYSTEM ACCESSORIES

Phonograph Assembly



Complete phonograph assembly mounted on pressed steel chassis, finished in black crackle. Uses the famous two-speed Green Flyer 110-volt A. C. motor, 60 cycles. Pickup is the well known ACRA-TEST, 5000 ohms. Other ohmages available on special order. Pick-up has a maximum output of .62 volts. Plays $33\frac{1}{3}$ and 78 R.P.M. records. A nickel-plated needle cup is used, as well as an adjustable speed control. The motor is concealed by an apron. This assembly is for use with the number 444 rack listed elsewhere. Comes equipped with a 10" turntable. Excellent for use in P. A. systems and for station broadcasting purposes when rack-panel mounted. Entire unit is ruggedly constructed for continuous, reliable service. Shpg. Wt. 20 lbs. List Price \$59

No. 432 **\$29.50**
Your Cost . . .

Metal Tube Pre-Amplifiers

Average gain 63 dB assures the perfect operation of crystal, dynamic, velocity or condenser microphones into a low-gain amplifier. Frequency response 40-10,000 cycles, 1.5 dB. (500 ohms). Input impedance 2 megohms, matching aforementioned microphones. Output impedances 200/500 ohms or high impedance (5000 to 10,000 ohms). 6J7 feeds into a 6C5. Receptacles provided for plug-in of inputs and outputs. A. C. model uses 84 rectifier. Battery model uses two Burgess Z30P and four Little Six batteries. Metal cases supplied.

Battery-Operated: Shpg. Wt. 12 lbs. Code Word: ABTOB

No. 1425 **\$12.50**

Your Cost, Less Batteries

Complete set of Six Burgess Batteries, extra. . . . \$3.30

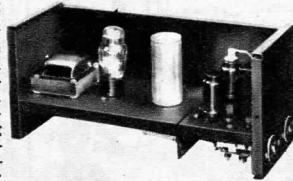
Kit of Matched Tubes, extra. . . . \$1.67

A. C. Operated: Shpg. Wt. 16 lbs. Code Word: ABTRA

No. 1413 **\$17.50**

Your Cost, Less Tubes. . . . \$2.38

Kit of Matched Tubes, extra. . . . \$2.38



Portable Phonograph Unit



Strong wood case covered in brown weatherproof leatherette. Houses a 78 R.P.M. General Electric induction motor and the improved Piezo Astatic crystal pickup. Pickup has exceptionally flat response and is connected by means of tip ended cord. A needle cup and combined volume control and A. C. switch are mounted on the motor board. An 8-foot rubber covered A. C. cord is included. Standard 10-inch turntable supplied. Overall size is $13\frac{1}{4}$ " x $14\frac{1}{4}$ " x 8". A leather carrying handle is securely attached to the case. Speed control for motor is furnished. Compact size makes it easy to handle and readily adaptable to any portable P.A. system. May also be used with radio sets. Shpg. Wt. 23 lbs.

No. 13780 **\$19.95**
Your Cost. . . .



4-Circuit—2-Position Input Control Unit
Input Impedance: two high impedances (input jacks for radio tuner and high impedance pick-up); one 200-ohm line (automatic record changer, low impedance pick-up or out-put of pre-amplifier); one 400-ohm C. T. winding (for double button carbon microphone). Output Impedance: 100,000 ohms. High quality L-Pads used. With this unit it is possible to mix or fade two program sources selected by means of a switch. Mounted in a compact black baked enamel case with etched panel. Shpg. Wt. 5 lbs. Code Word: ABSUB.

No. 471 **\$9.75**
Your Cost, Less No. 621 Mike Battery. . . .



MICROPHONES

AND MICROPHONE ACCESSORIES



AMERICAN Hand Mikes
Double-button, 24K gold contacts. Stretched dural diaphragm. With "on-off" switch in handle. Excellent for reproduction of speaking voice. Finished in black art-metal. Shpg. Wt. 4 lbs.

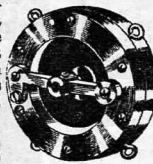
Double Button
No. 787
Your Cost... **\$10.45**

Single Button
No. 705
Your Cost... **\$3.75**

AMERICAN Model "CD" Double Button

Outstanding in its price class, this two-button mike has a stretched diaphragm unit with a fine straight-line frequency response over all ordinary ranges. Level output from 50 to 4200 cycles. Hard duralumin diaphragm. 24K gold contacts. 200 ohms per button. Excellent for Amateurs, P. A., and recordings. Polished nickel finish. Shpg. Wt. 3 lbs.

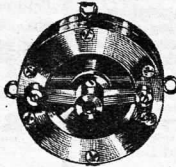
No. 783—List Price \$20
Your Cost... **\$9.80**



AMERICAN Model "EL" Double Button

Uses a stretched duralumin diaphragm. .002" thick. 24K gold contacts. Uniform frequency response. 200 ohms per button. Most popular for amateur, P. A. and home broadcast work. Size 2 3/4" x 1 1/2". Shpg. Wt. 2 lbs.

No. 784—List \$10.00
Your Cost... **\$4.90**



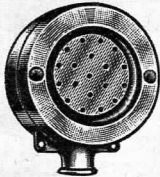
AMERICAN "EL" Desk Stand

New modern design. Base rests on vibration and electrically insulating rubber ring. Specially designed set of 4 double hooks makes installation and removal of mike a simple matter. Nickel-finished, 7 1/2" high, 5" diam. Shpg. Wt. 3 lbs. Comes complete with perforated, screen covers. Professional appearance.



No. 242
Your Cost... **\$2.82**
Less Covers

No. 243
Your Cost... **\$1.65**



Radio Receptor Moving Coil Dynamic Microphones

Highly efficient, self-generating microphones for broadcasting, sound recording, or public address. These dynamic microphones have a wide frequency response, high sensitivity, they are rugged and are noiseless in operation.

Model 6B—For public address and remote pickup for broadcasting. Sensitivity: normal speech at 3 ft., —49 db. Shpg. Wt. 3 lbs.
No. 13640—Your Cost... **\$29.40**

Model 6C—For amateur transmitters and public address. Not as sensitive as 6B. Sensitivity, normal speech at 3 ft., —59 dB. Shpg. Wt. 3 lbs.
No. 13641—Your Cost... **\$17.64**

SHURE Double Button Carbon Mikes



Model 3-A

Double-button, 200 ohms per button. Gold contact surfaces. Maximum 10 Ma. per button. Size 3 1/4" x 1 1/2". Recommended for amateurs, small P. A. systems and calling systems. Stretched diaphragm. Nickel finish. Shpg. Wt. 1 lb.

List \$6.50
No. 1226
Your Cost... **\$3.82**

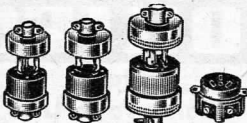


Model 5-B

Full-sized double-button microphone, requires 21 Ma. per button at 200 ohms. Has screen-protected diaphragm and "quick-away hooks." Excellent response. Shpg. Wt. 2 lbs.

List \$10.00
No. 414
Your Cost... **\$5.88**

Polarized P. A. Connectors



Steel covered, all polarized. All have adjustable clamps holding cables securely. Aids for all sound systems and transmitters.

No.	Description	Your Cost
6354	2-wire cap	50c
6355	2-wire connector	70c
6356	3-wire cap	58c
6357	3-wire connector	75c
6360	3-wire flush con.	75c

"Twistlock"

6358	3-wire cap	58c
6359	3-wire connector	98c

3-Wire Plug and Cap



A heavy-duty polarized plug and cap assembly for three-wire cables. Made of composition with a diameter of 1 1/2".

Polarized Female Plug
No. 7291
Your Cost... **25c**

Male Cap to Match
No. 7141
Your Cost... **19c**

3-Wire Base Receptacle

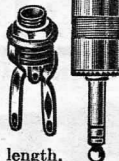
Flush, with 4" steel covers. Standard outlet box. 10 amp. 250 v. Wt. 1 lb.



No. 6361
Yr. Cost **98c**

Mike Plug and Jack 3 Conductors

Specially designed 3 conductor plug and jack for microphone use. Standard size. Soldered joints insure positive connections. Plug overall length, 2 1/2"; diam., 3/4". Tip length, 1 1/2". Jack fits 3/8" mounting hole and any panel up to 3/8" thick.

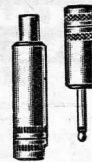


No. 7320—Jack
Your Cost... **26c**

No. 7321—Plug
Your Cost... **40c**

Shielded Plug and Extension Receptacle

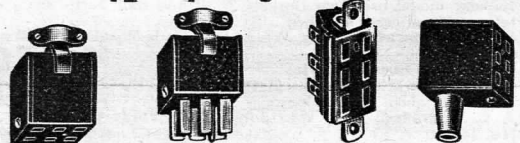
For two-connection cable extension. Plug also fits standard jacks. Brass shells finished in polished nickel. Overall dia. 3/8". Combined overall length, connected, 5 1/2". Fits cables with outside dia. of approx. 1/4". Wt. 1 lb.



No. 11334—Shielded plug
List \$2.25
Your Cost... **\$1.32**

No. 11335—Shielded Recep.
List \$2.50
Your Cost... **\$1.47**

Heavy Duty Plugs and Sockets



Heavy Duty multiple contact plugs and sockets made of bakelite with armored metal caps. Excellent for use with portable Public Address Systems. Black crackle lacquer finish. Wt. 1 lb.

Plug with Clamp			Flush Socket		
No.	Contacts	Net	No.	Contacts	Net
11309	2	\$0.37	11321	2	\$0.30
11310	4	.45	11322	4	.36
11311	6	.54	11323	6	.42
11312	8	.62	11324	8	.48
11313	10	.70	11325	10	.54
11314	12	.79	11326	12	.60
Socket with Clamp			Socket with Sleeve		
No.	Contacts	Net	No.	Contacts	Net
11315	2	\$0.40	11327	2	\$0.42
11316	4	.50	11328	4	.52
11317	6	.61	11329	6	.63
11318	8	.71	11330	8	.73
11319	10	.81	11331	10	.83
11320	12	.91	11332	12	.93

Rubber-Covered Microphone Cable



Wire used is No. 18. Shielded wire contains metal braid. Outer wall of pure para rubber; tough, flexible and waterproof. No. 11065 single shielded wire is used for **Crystal Microphones**. Cables can be used for microphones, speakers or phono lines.

No.	Conductor	Shielded Cable		
		Per Ft.	50 Ft.	100 Ft.
11065	1	\$0.03	\$1.35	\$2.56
4588	2	.04	1.80	3.32
4490	3	.04 1/2	2.03	3.85

No.	Conductor	Unshielded Cable		
		Per Ft.	50 Ft.	100 Ft.
4506	2	.02 1/2	1.13	2.14
4425	3	.03 1/2	1.58	3.00
24540	4	.04 1/2	2.25	4.00

Microphone Springs



Highest grade spring steel allows maximum flexibility. Rust-proof cadmium-plated finish.

No. 3631—Set of 8
Your Cost... **15c**

Carbon Granules

Finest grade transmitter carbon granules. Sufficient quantity in each vial to re-carbon two 2-button microphones.

No. 6974
Your Cost... **40c**



PICK-UPS & PHONO-MOTORS

WEBSTER Electric Pick-up High Fidelity Model



Dual Speed 33 1-3 and 78 R. P. M.

Model 30A—High impedance (5000 ohms). Frequency response 100 to 7000 cycles. Dual speeds played without special counterbalance since pickup scientifically adjusted. Overall length 8 3/4". Volume control built into base. Golden-bronze finish. Very compact and light weight. One of the most popular models with P. A. men. Shpg. Wt. 4 lbs.

No. 274
Your Cost.....

\$4.95

ACRATEST DE LUXE Phono Pickups Dual Speed



Highest quality pickup for high-fidelity requirements. Has output voltage of .62 volts, allowing less amplifier gain for maximum output. Counterbalanced Shpg. Wt. 3 lbs.

Less Vol. Cont.	With Vol. Cont.
No. 6976	Impedance 200 ohms
6977	500 ohms
6978	5000 ohms

Your Cost Above Types **\$5.65**

Your Cost Above Types **\$5.95**

AUDAK Phono Pickup Model 433



A low-priced high-quality pickup, with a wide-range frequency response. Magnetic circuit: machined soft iron, specially annealed. Takes records up to 12". Needle weight 2 3/4 oz. Dual speed. Available in 200, 500 ohms on special order. Special counterweight reduces weight on record, increasing appreciably the life of the records. Either steel or fibre needles may be used. Shpg. Wt. 5 lbs.

No. 261
7500 ohm impedance.
Your Cost.....

\$5.62

Automatic Stop



For Electric Phono motors. Adjustable to operate at any point on the record.

No. 9391
Your Cost.....

75c

PIEZO ASTATIC Crystal Pickup



Operates on all recordings, 78 or 33 1/4 R.P.M., without additional weights. Extremely high impedance, connects direct to grid. Black crystalline finish. Instructions furnished. Shpg. Wt. 5 lbs.

No. 678—8" Tone Arm
Your Cost.....

\$7.06

No. 679—12" Tone Arm
Your Cost.....

\$8.82

Needle Cup



Diameter 1 1/4 inches.

No. 9389—Open type
Your Cost, Each.....

7c

No. 9390—Closed type
Your Cost, Each.....

10c

Aluminum Discs



Aluminum discs are available either pregrooved or blank. Pregrooved records are double faced. Use wood or fibre playback needles.

Pregrooved		Blank	
No.	Your Cost	Size	Your Cost
7176	\$0.18	6"	5070 \$0.16
7177	.30	8"	5071 .23
7178	.44	10"	5073 .33
7179	.57	12"	5072 .50

CAPEHART Record Changer

Dual Speed Model 10-12C



Plays ten 10" or 12" records. Provides for either 78 R.P.M. or 33 R.P.M. long playing records, and, by using ten long playing records four hours of continuous music are obtained. Last record automatically repeats itself unless records are restacked or master switch is cut off. Equipped with reject device and record unloading lever. New type of balanced pickup is furnished. Has standard 110-volt, 60-cycle A. C. motor. Base dimensions: 14 1/2"x14 1/2". Height above mtg. board 7 1/4". Depth 3 3/8". Shpg. Wt. 36 lbs.

No. 257
Your Cost.....

\$59.50

SIMPLAT Glass Base Recording Discs



New acetate used responds to frequencies from 35 to 8000 cycles. Cuts soft and wax-like. Plays back easily.

No.	Size	Your Cost
5059	7"	\$0.75
5060	10"	1.00
5061	12"	1.35

Set of two 4-oz. bottles hardening fluid and polishing solution plus instructions.

No. 5057—Your Cost... \$1.19

Special Angular Spade Playback Needles. Pack of 20.

No. 5058—Your Cost..... 19c

GREEN FLYER Governor Controlled Dual Speed 33 1/2 & 78 R.P.M.



Induction type. With dial, escutcheon and pointers. Finished in staturary bronze. All mountings and hardware included. Overall 8 1/2"x5 3/4". Suspends 3 1/2" below baseboard. Mounting bracket centers 3 1/4"x6 1/4". For 105-120-volts, 60-cycle A. C. Plays high speed (standard) and new type slow speed records. Shpg. Wt. 15 lbs.

6 Volt D. C. 2-Speed Motor
Drain 2.8 amps. Wt. 15 lbs.
No. 723—12" table
Your Cost..... \$14.10

110 V. 60 Cycle A. C.
With 10" Turntable
No. 253—Your Cost... \$9.41
With 12" Turntable
No. 275—Your Cost... \$9.70

110 Volt A. C. - D. C. Dual Speed

33 1/2 and 78 R.P.M. Complete with 12" turntable and all mounting hardware. Dimensions at right.

No. 670—Your Cost \$13.23
Single speed 78 R.P.M.
Wt. 11 lbs.
No. 671—Your Cost \$11.47

105 - 120 Volts A. C. Single Speed

78 R.P.M. With 10" turntable and complete mounting hardware. Motor 6 1/4"x3 1/2". Suspends 3" below baseboard. Operates on 105-120-volts, 60-cycle A. C. Wt. 13 lbs.

No. 302—Your Cost... \$7.35

GENERAL INDUSTRIES "Automatic" Record Changers With Crystal Pickup



Model "L" will play 8 10" records or 7 12" records, furnishing music or entertainment for approximately 25 min. Plays standard 78 R.P.M. or 33 1/4 R.P.M. records.

Equipped with new high-fidelity Astatic Crystal Pickup, assuring exceptional tone quality. Size of plate: 14"x15", Height 5". Depth 3 1/2". Complete with "on-off" switch, pickup and volume control. Shpg. Wt. 25 lbs.

No. 668—For 110 V. 60 Cy.
Your Cost..... **\$32.45**

No. 669—For 6 V. D. C.
Your Cost..... **\$37.70**

Model "K"

Similar to Model "L" described above. Will play 8 10" records automatically. 12" records are played manually. **Employs new Astatic Crystal Pickup.**

No. 721—Chassis only, 110 V., 60 Cy. A. C. Shpg. Wt. 25 lbs.
Your Cost... **\$27.81**

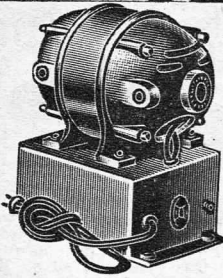
No. 722—Complete in leatherette carrying case, for 110 V. 60 Cy. A. C. Shpg. Wt. 30 lbs.
Your Cost **\$32.28**

No. 917—Chassis only, 6 V. D. C. Shpg. Wt. 25 lbs.
Your Cost..... **\$33.07**

No. 918—Complete in leatherette carrying case, for 6 V. D. C. Shpg. Wt. 30 lbs.
Your Cost..... **\$37.84**



GENERATORS & CONVERTERS

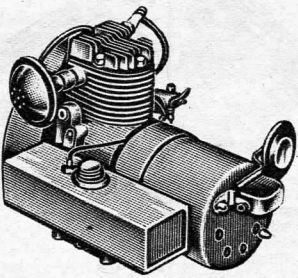


PIONEER "Gen - E - Motor" Converters

Converts D. C. to A. C. All units deliver 110 volts, 60 cycles A. C. All equipped with suitable filters to give noise free operation. Units are mounted to give vibrationless operation. Have high break-down point of insulation. Ventilation provided by openings in cast end plates. Heavy rubber cable and plug supplied.

No.	Input Volts	D. C. Amps.	Out Watts	Your Cost
767	110	.8	40	\$22.64
689	110	1.3	80	22.64
690	110	1.78	110	24.40
691	110	2.23	150	27.05
692	110	2.8	200	29.69
718	110	3.55	250	32.63
719	110	3.85	300	37.93
746	6	13.3	40	30.28
747	6	19.0	60	34.69
748	12	7.5	40	23.52
752	12	11.8	80	27.64
755	12	17.5	120	32.63
765	12	20.0	160	45.28
766	32	2.78	40	22.64
685	32	4.7	80	22.64
686	32	5.6	110	24.40
687	32	7.8	150	27.05
688	32	10.0	200	29.69
712	32	13.0	250	32.63
717	32	15.0	300	37.93

PIONEER Gas Driven Generators

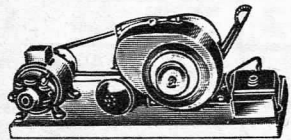


Newly developed Pioneer generators, driven by gas engines that consume approximately 1 gallon of gasoline per 150 watts per hour. For charging batteries, radio operation, lighting, appliances where no electricity is available. Additional V-pulley attached for driving home machines. Starts by push of button. Measures only 11" high by 10" wide by 12" long. Absolutely trouble-free. Engine of latest "L" type, air-cooled, single cylinder.

Under, 3/4 H. B. Complete with ammeter, cutout relay, leads and clips.

No.	Output Voltage and Use	Watts	Shpg. Wt.	Your Cost
13510	For charging 6-volt batteries....	150	50	\$39.96
13511	For charging 12-volt batteries...	150	50	43.60
13512	For charging 32-volt batteries...	250	54	47.96
13513	32 volts light, radio, etc.....	250	54	47.96
13514	110 volts D. C. light, radio, etc..	250	54	47.96

300-Watt Gas-Engine Driven Generators



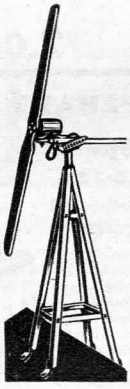
One of the fast-moving Pioneer line. Supplies 110 volts, 60 cycles, A. C. at 300 watts and 7 1/2 volts D. C. at 5 amps. For battery charging. For mobile radio, Public Address systems or other electrical devices, and also ideally suitable for farm lighting in rural or isolated localities. Special brush composition assures long life with no wear on the commutators or collector rings. Includes a well-designed filter eliminating interference to radio reception. Shpg. Wt. 79 lbs. Size: 26"x12".

No. 744—Your Cost... **\$79.95**

"Air-Flo" Charger

Delivers 6 volts at 5 amperes to charge storage battery. Weather-proofed and has a cutout which operates when the battery is completely charged. The propeller is scientifically curved to operate at low winds. It may be mounted on the barn or house roof. Furnished complete with ammeter, cutout relay, pipe fittings, clamps, battery clips and sufficient wire for the average installation. Unconditionally guaranteed at the factory.

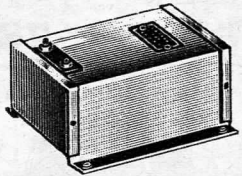
No. 769—Generator only, as described. Your Cost... **\$15.94**
No. 770—Tower only, complete. Your Cost... **\$3.92**



HARTMAN Converters

110 Volts A. C.

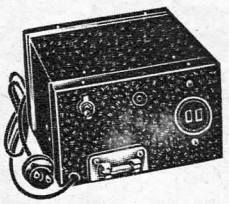
6-volt model delivers 60 watts at 110 volts A. C. 32-volt model delivers 85 watts at 110 volts A. C. Draws between 10 and 14 amps. depending on load applied. For auto or farm use. Car mounting brackets supplied. Permits operation of A. C. equipment of low wattages from D. C. Dimensions 6 3/4" x 5 3/8" x 3".



6-Volt Model—Shpg. Wt. 9 lbs. No. 795 Your Cost... **\$8.82**
32-Volt Model—Shpg. Wt. 11 lbs. No. 796 Your Cost... **\$9.41**

110 Volts A. C.

Anywhere With These ATR D. C. to A. C. Inverters



200 Watts Output

Makes possible the operation of amplifiers, radio receivers, etc., designed for 110 volts A. C. use on 110 volts D. C. Electricity produced is absolutely noiseless on broadcast, short-waves and high frequency. Overall dimensions 7 3/4" x 8" x 3 3/8". Absolutely fool-proof. Unconditionally guaranteed by the manufacturer to perform as stated. Long-life vibrator used, only moving part. Shpg. Wt. 16 lbs. No. 271 Your Cost... **\$10.88**

ACRATEST Field Exciters

For 1 Dynamic Speaker

500-1800 Ohm Field Coils
For Use on A. C. - D. C. 105-125 Volts

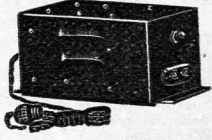
A small, compact, and completely hum-free exciter. Rated at 10 watts and will supply 100 volts D. C. at 100 milliamperes. Its size permits mounting either on a speaker, on its baffle or base. Has a black enamel finish, baked. Size 7 1/2" x 3" x 1 1/2". Shpg. Wt. 3 lbs. No. 85—Less 25Z5 rectifier tube. Your Cost... **\$2.90**

For 1 or 2 Dyn. Speakers

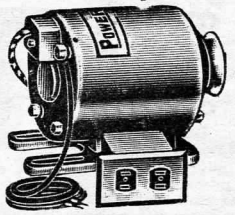
6-Ohm Field Coils
Designed to operate on 110 volts, 60 cycles, A. C. Output: 2 amps. at 6 volts D. C. Can be used to excite one or two 6-ohm dynamic speaker fields. Line toggle switch and output terminal strip on front panel. Complete with line cord and plug. Size 4" x 4" x 7 1/2". Shpg. Wt. 8 lbs. No. 654—Your Cost... **\$11.95**

For 2 Dynamic Speakers

750 - 2500 Ohm Field Coils
Rated at 20 watts. Delivers 100 volts at 200 milliamperes. For use on 110 to 120-volt, 50 to 60-cycle A. C. only. Black crackle finish. Size 7" long, 4" wide, 3 1/2" high. Uses a 5Z3 or 83-type rectifier tube. Thoroughly reliable and dependable. Shpg. Wt. 5 lbs. Less rectifier tube. No. 95 Your Cost... **\$4.69**



POWERLOCK



110 volts A. C. from fan belt of car, truck or motorboat. Makes possible operation of A. C. operated amplifiers, radio receivers, transmitters, transceivers, neon signs, etc., with no battery drain. Good voltage regulation at all driving speeds. No upkeep expenses. Special Ford V-8 mounting available. Write for information. Comes complete with all accessories and cables with instructions.

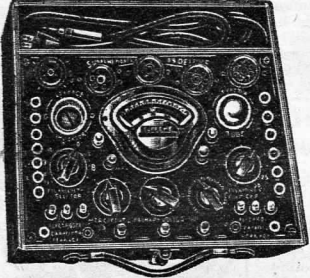
No.	Output Watts	Shpg. Wt.	Your Cost
285	50	29 lbs.	\$9.50
286	100	35 lbs.	13.50
287	175	45 lbs.	33.50
269	250	50 lbs.	46.50

Quality

TEST EQUIPMENT

Saves Time and Money

SUPREME DeLuxe Tube Tester Model 89



Tests ALL-METAL TUBES, including 8-prong types. It is really six instruments in one, offering the following features: (1) An improved quality tester (English-Reading Scale) on all tubes, without adapters. New switch arrangement, assuring greater accuracy by testing all tubes at their rated loads. (2) The famous Supreme Neon Leakage test, for indicating leakage between all elements of all tubes.

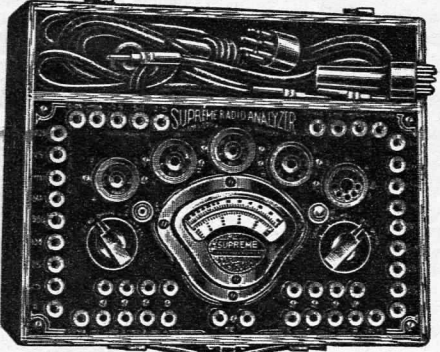
(3) Neon condenser tester, for indicating leakages and short-circuited conditions. (4) English-reading condenser-tester, accurately and positively classifying all electrolytics directly on the scale in terms of "good" or "bad." (5) D. C. Voltmeter with external ranges of 5-125-500-1250 volts. (6) Point-to-Point Resistance-tester with ranges of 2000-20000-200000 ohms, and megohms meter with ranges of 2-20 megohms. All ohms and megohms ranges operated from self-contained power supply. This instrument has sufficient self-contained testing equipment to be used alone on almost any repair call. In handsome quartered oak carrying case, with tube chart mounted in the cover. Shpg. Wt. 16 lbs. For 98 to 125-volt, 60-cycle operation.

No. 437
Your Cost

\$45.03

TIME PAYMENTS Supreme Instruments can be purchased on the Time Payment Plan by responsible dealers and servicemen. Write or call at our nearest branch for complete details. This plan applies to purchases amounting to \$39.00 or more.

SUPREME DeLuxe Analyzer Model 339



A combination point-to-point tester and analyzer, providing complete resistance, voltage, and current analysis direct from radio tube socket, with self-contained power supply. Tests all tubes, including ALL METAL TYPES, with as many as 8 prongs. Supreme's latest 5" fan-type easy-reading meter. Exclusive Supreme Free-Reference Point System is used, permitting the chassis or any tube element to be used as a reference point for all meter tests. A plug and cable are provided, with adapters, for plugging into any tube socket. Six ranges available: D. C. Mils, 5-25-125-250-500-1250 milliamperes. A. C. and D. C. Volts, 5-25-125-250-500-1250 volts. Capacity: .05-.25-1.25-2.5-5-10-12.5 mfd. Resistance: 2,000-20,000-200,000 ohms, and 2-20 megs. In beautiful Oak Case, with removable lid. Shpg. Wt. 18 lbs.

No. 708
Your Cost

\$39.15

CLOUGH BREngle All-Wave Signal Generator Model OC-50 Kc. to 30 Mc.

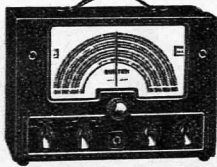


Variable signal voltage output, 1/2 to 2 microvolts. Micro-accurate dial allows frequency set to 1/10 of 1% accuracy. Crystal calibrated. Provides 400-cycle modulated R. F. for alignment work, unmodulated R. F. and 400-cycle A. F., A. C., or D. C. line-powered. Shpg. Wt. 10 lbs.

No. 568
Your Cost, With Tubes

\$32.24

BURTON All-Wave Oscillator 100 Kc. to 70 Megacycles

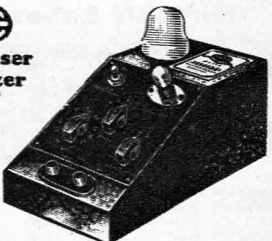


A new all-wave test oscillator with a direct reading dial having an effective scale length of over 50 inches. Frequency calibration standardized with crystal standards. Ladder type attenuation, with two continuously variable controls. Has jack on panel for external modulation. 400-cycle note, about 35% modulated supplied by separate tube. Audio signal available at panel jack. Powered from A. C. line and furnished complete with one 6D6 oscillator tube and accessories. Two 37 Tubes required are not supplied.

No. 1485
Your Cost

\$25.50

TOBE Condenser Analyzer

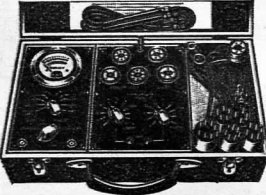


Quickly determines condition of all types of condensers. Indicates open, shorted, or leaky paper, mica, and oil dielectric condensers by measuring D. C. resistance under applied voltage. Accurately tests electrolytics. For 110-volt, 60-cycle, A. C. Complete with instructions. Neon Tube, less O1A tube. Shpg. Wt. 5 lbs.

No. 10214
Your Cost

\$11.40

DEPENDABLE Set Testers



Model 6423—A quality analyzer at a low cost. Tests all sets in use today, including ALL-METAL tube sets. Free reference-point system. Meter sensitivity 2000 ohms per volt. 3-range ohmmeter, 1/4 ohm to 2 megohms. 10-wire analyzer cable. Four voltmeter ranges: 5-50-250-750 volts. Milliammeter 0-50. Microammeter 0-500. Includes test-prods and sure-pull-out adapters.

Protected against obsolescence; spare points available on selector switches; spare wire in cable; entire meter system independent of circuit switching; space available for new type sockets not yet in use. Dimensions: 15 3/4" x 8 1/2" x 4 1/4". Shpg. Wt. 10 lbs.

No. 1476
Your Cost

\$21.51

Model 6413—similar to Model 6423 above, but has additional feature of automatic series jacks for current measurement in analyzer circuits.

No. 1477 Your Cost

\$24.45

DEPENDABLE Tube Tester

COUNTER MODEL 305C

This new model features a 5" bake-lite fan-type meter with an English-reading scale. Tests every type of receiving tube made today, including new ALL-METAL tubes. Tests shorts and leakage between all elements. Has separate line-voltage meter and controls. Individual tests of Diode, Triode, and Pentode sections. Ohmmeter measures 10 to 1,000,000 ohms. No batteries required. Has condenser tester for all types including electrolytics. Operates from 105 to 110 volts, 60 cycles. A. C. Shpg. Wt. 7 lbs.

No. 1478
Your Cost

\$21.51

Portable Model

Carrying case with removable cover.

No. 1479
Your Cost

\$24.00



De Luxe Counter Model Tube receptacles on sides.

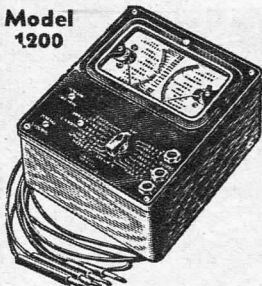
No. 1489
Your Cost

\$25.97

TRIPLITT TESTING EQUIPMENT

Volt - Ohm - Milliammeter

Model 1200



Has two instruments, A. C. and D. C., in molded case. Scale readings: D. C.: 1u-50-250-500-1000 volts, at 2000 ohms per volt; D. C. Mils. 1-10-50-250; Resistance; 1500 ohms, 1.5 megohms and 3 megohms. A. C. volts: 10-50-250-500-1000 volts. Resistance measurements have individual zero adjustments. All instrument readings available through selector switch. Simple, fool-proof, accurate, and convenient. Contains 22½-volt and 1½-volt batteries. Shpg. Wt. 14 lbs. List Price \$32.50

No. 1213 **\$21.24**
Your Cost
Model 1200 in Kit Form
No. 1496—Your Cost... \$16.34

Master Unit Testers

Four units make up the Master Line of Quality test instruments, fulfilling every servicing need. Units may be used as furnished, or placed in convenient portable cases to suit one's needs. A sloping panel counter case is also supplied for the tube-tester unit. A durable wood case with bakelite panel houses each unit. Sizes of these interchangeable units: 7¼"x6½"x4¾" deep.

Complete Master Unit Test Set

Model 1206

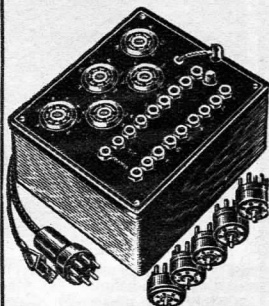


A complete portable laboratory for the radio-servicing engineer. Contains four Master Units in Model 1204 case as follows: Model 1200 Volt-Ohm-Milliammeter, 1210-A Tube-Tester, 1220-A Free-Point Tester, and 1232 Direct-Reading All-Wave Sig. Generator. Also available with 1231 Sig. Generator on order. Shpg. Wt. 55 lbs. List Price \$124.00

No. 1445—Your Cost
Same as above except has Model 1230 All-Wave Sig. Generator.
No. 1446—List Price \$107.00
Your Cost **\$69.90**

NOTE: We can supply any READRITE or TRIP-LETT Test Equipment and Meters not listed in this catalog. Readrite instruments supplied at a discount of 40% and 2% from list; Triplett instruments at a discount of 33 ⅓ and 2% from list.

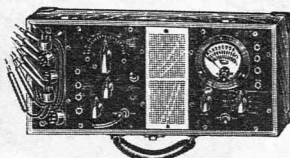
Free Point Tester Model 1220-A



For servicing all sets using metal or glass tubes. Has five sockets: four with standard R. M. A. markings, and one new 8-prong socket for the new ALL-METAL tubes. Panel also includes eight automatic switch-type and ten single-action jacks. Makes all series and parallel meter connections, through the set sockets, to all parts of circuit. Used in conjunction with No. 1200 Volt-Ohm-Milliammeter. Housed in a durable wood case with Bakelite panel. Size of unit 4½"x6½"x7¼". Shpg. Wt. 4 lbs. List \$12.50

No. 1442 **\$8.16**
Your Cost

Portable Laboratory



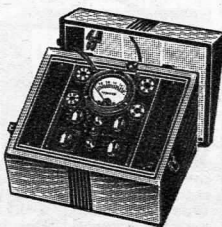
Model 1181-A

Combines No. 1151 All-Wave Oscillator, No. 1125 Universal Volt-Ohm-Milliammeter, No. 1166A Free-Point Auxiliary Set-Tester. It is built for a life-time of use in the famous Triplett style. Tests all sets in use today, including the new ALL-METAL tube sets. The Free-Point Set-Tester (not illustrated) is housed in the cover. Complete in oak carrying-case with leather handle. All batteries supplied and self-contained. Oscillator-tube also supplied.

No. 1625 **\$37.24**
Your Cost

Model 1310 Tube Tester

Employs an improved emission type circuit. Accepts or rejects tubes with certainty according to their Good or Bad qualities. Only four sockets. Tests all tubes in use today, including new ALL-METAL tubes. Four controls are: Load, Tube Selection and Shorts, Line, and Filament Voltages. Permits separate diode test. Built into a beautiful two-tone walnut case. Sloping panel with handy metal charts attached, giving instructions for testing all metal and glass tubes. Removable cover. May be used for either portable or counter testing. Shpg. Wt. 20 lbs. List Price \$45.00.



No. 1449 **\$29.40**
Your Cost

"Power Output", Tube Tester Model 1500



Tests all glass and ALL-METAL tubes. Provides an A. C. test for rectifier tubes. Has separate diode A. C. test. A. C. signal is applied to control grid and amplifications measured on the sensitive volt-meter. Gives actual

power output or voltage gain of tube under test. Neon short-test detects slightest leaks. Furnished in beautiful 3-ply walnut case in modernistic design. A truly accurate tester. Shpg. Wt. 20 lbs.

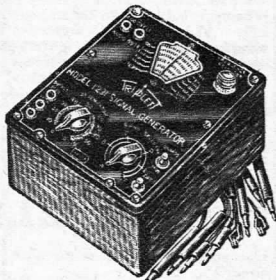
No. 1447—List Price \$55 **\$35.94**
Your Cost

Direct Reading All-Wave Signal Gen.

Model 1231—6 Bands

Newly-developed test oscillator for generating frequencies from 100 to 30,000 Kc., all on fundamentals. Has perfect attenuation. Extra-long 12" scale, vernier type, direct reading, 400-cycle audio note. Model 1231 All-Wave Direct Reading D. C. Signal Generator is a 1936 addition to the popular Triplett Master Units. All frequencies are fully stabilized. Furnished in regular Black Master Unit case. Two '30 tubes and batteries included.

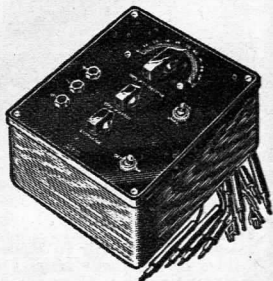
Shpg. Wt. 15 lbs. List \$40.00
No. 1443 **\$26.14**
Your Cost, Complete



All-Wave Signal Generator Model 1230

An All-Wave Signal Generator. Supplies a continuously variable signal. Frequencies controlled on six bands from 100 k.c. to 18 megacycles. Either modulated or unmodulated. Power taken from generator does not upset circuit balance. Fully shielded. Furnished with 22½-volt and 1½-volt batteries and two type '30 tubes. Connecting wires and six individual calibrated graphs on large size charts are included. Shpg. Wt. 15 lbs. List Price \$23.00.

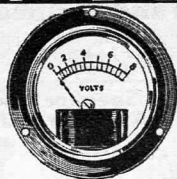
No. 1230 **\$15.02**
Your Cost



PANEL TYPE METERS For Every Purpose

Readrite

Panel Meters



Good, serviceable instruments. Guaranteed accuracy within 5%. Provided with wide mounting flange. Require a 2 3/4" hole. Standard finish, black flange and nicked bezel. Special white enameled dials.

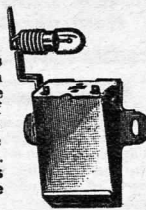
Range	No.	Your Cost	Range	No.	Your Cost
D. C. Voltmeters					
0-3	1001	59c	0-5	1018	\$1.32
0-5	1002		0-10	1019	
0-8	1004		0-15	1020	
0-10	1005		0-25	1021	
0-25	1008		0-50	1022	
0-50	1009	59c	0-100	1023	
0-100	1010		0-150	1024	
0-150	1011		0-200	1025	
0-300	1012		0-300	1026	
0-500	1013		0-400	1027	
0-60-300	1014	\$2.65	0-20-0-100	1028	\$1.18
0-8-160	1016		0-15-150	1029	
A. C. Voltmeters					
0-10	1041	\$1.62	A. C. Milliammeters		
0-15	1042		0-25	1048	\$1.62
0-150	1043		0-250	1051	
0-300	1044	\$2.65	D. C. Ammeters		
A. C. Ammeters					
0-1	1053	\$1.62	0-1	1030	59c
0-3	1054		0-5	1031	
0-10	1056		0-10	1033	
			10-0-10	1037	

Readrite

Tuning Meters



A. V. C. Resonance Meters combine visible indication with audible tone to secure accurate adjustment of tuning dial. Permit silent tuning on sets with volume control in audio circuit. Operates only on sets with automatic volume control.



Front or Bottom Illuminated		Shadow Graf Type	
No.	Scale M. A.	No.	Scale M. A.
1058	0-5	1063	0-5
1059	0-7	1064	0-10
1060	0-10	1065	0-15
1061	0-15	1066	0-15

Your Cost **88c** Each

Escutcheon for above

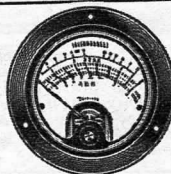
No. 1062—Your Cost18c

Your Cost **88c** Each

Escutcheon for above

No. 1067—Your Cost18c

WESTON Model 301 Universal Meter Kit

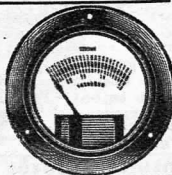


A. C.—D. C. Meter Kit for all measurement work. Comprises universal meter with shunts, multipliers switches, etc. for 1000-500-250-100-50-10-5 volts A. C.—D. C., 500-100-50-10 mils D. C. and 10,000-100,000 ohms. Diagram furnished. Shpg. Wt. 5 lbs.

No. 309—Complete Kit, less batteries	\$33.07
Your Cost	
No. 321—Model 301, Universal Meter only	\$13.97
Your Cost	
D. C. Volt-Ohmmeter—Model 301	
Volt Scale: 1000-250-50. Ohms Scale: 0-100,000.	
Adjusted to 1 M. A., at 50 M. V.	
No. 310—Your Cost, less resistors	\$7.35

Readrite

Resistance Meters

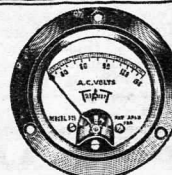


Model 501—A thoroughly reliable instrument at a popular price. Direct reading, 10,000 ohms. Also reads up to 4.5 volts D. C. Requires three small flashlight cells.

No. 5389—List \$2.75
Your Cost **\$1.62**

TRIPLET

Precision Meters

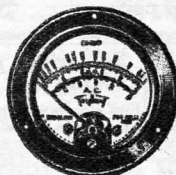


Triplet D. C. meters are D'Arsonval type, with extra-light moving coil. A. C. meters are movable iron, repulsion type. All are air-damped. Models 321 and 331 are 3/4" flush-mounting types. Models 221 and 231 are 2" flush-mounting. Bakelite Cases.

D. C. Voltmeters				A. C. Voltmeters					
Range	No.	Your Cost	No. Cost	Model 331	Model 221	Your Cost	Your Cost		
Model 321 Model 221 (125 ohms per volt)									
0-10	1315	\$3.75	1598	\$2.94					
0-15	1316	3.75	1599	2.94					
0-150	1320	3.75	1600	2.94					
(1000 ohms per volt)									
0-10	1301	\$5.39	1601	\$4.24					
0-25	1302	5.39	1602	4.24					
0-500	1307	7.19	1603	6.54					
D. C. Milliammeters									
Model 331 Model 221									
Range	No.	Your Cost	No. Cost	Range	No.	Your Cost	No. Cost		
0-1	1327	\$4.58	1604	\$3.75	0-1.5	1345	\$3.75	1619	\$2.94
0-5	1330	3.75	1605	2.94	0-10	1348	3.75	1620	2.94
0-10	1331	3.75	1606	2.94	0-15	1349	3.75	1621	2.94
0-15	1332	3.75	1607	2.94	0-50	1351	3.75	1622	2.94
0-25	1333	3.75	1608	2.94	0-150	1353	4.58	1623	3.75
0-50	1334	3.75	1609	2.94	0-300	1354	5.39	1624	4.75
0-75	1335	3.75	1610	2.94	A. C. Ammeters				
0-100	1336	3.75	1611	2.94	Model 331 Model 221				
0-200	1337	3.75	1612	2.94	Range	No.	Your Cost	No. Cost	
0-250	1338	3.75	1613	2.94	0-3	1380	\$3.75	1595	\$2.94
0-300	1339	3.75	1614	2.94	0-5	1381	3.75	1596	2.94
0-500	1340	3.75	1615	2.94	0-10	1382	3.75	1597	2.94
A. C. Milliammeters									
Model 331 Model 221									
0-15	1372	\$3.75	1616	\$2.94	Thermo-Couple Ammeters				
0-25	1373	3.75	1617	2.94	(High Frequency)				
0-500	1377	3.75	1618	2.94	Model 341—Bakelite Case.				
				Complete with external couple.					
				Range					
				Amps. No. Your Cost					
				0-1 1385					
				0-2.5 1386					
				0-5 1387					
				\$10.46					
				External Couples Only					
				0-1 1723					
				0-2.5 1724					
				0-5 1725					
				\$4.18					

TRIPLET

Universal A. C. - D. C. Meter 0-4 MA



Red and Black Scales—75 divisions. For A. C. and D. C. Scales read 1500 ohms and 1.5 megs. 15-150-750 volts A. C. and D. C. 1000 ohms per volt. 15-150 D. C. mils. External copper oxide unit with DPDT switch furnished. Shpg. Wt. 3 lbs. No. 1392—Your Cost **\$9.80**

Complete Kit—Consisting of mounted resistors and shunts for above readings, selector switch, rheostat, jacks, panel, bar knobs and batteries, but less meter. Shpg. Wt. 6 lbs. No. 1425—Your Cost **\$12.07**

5-Inch Volt-Ohm-Milliammeter

Model 521—0-1 mil. Scale reads 10-50-250-500 volts or mils; 100,000 ohms. Diagram furnished. Wt. 3 lbs. **\$6.86**

No. 1068—Your Cost

Model 321—Same as above, except 3" meter. Shpg. Wt. 2 lbs. **\$4.90**

No. 1069—Your Cost

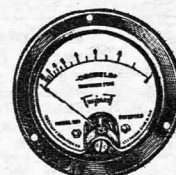
Resistors—Mounted on bakelite for 10-50-250-500 volts for above meters. No. 1071—Your Cost **\$5.71**

Shunts—Mounted on bakelite for 10-50-250-500 mils. for above meters. No. 1070—Your Cost **\$3.26**

Current Limiting Resistor—For 100,000-ohm scale. No. 1072—Your Cost **66c**

TRIPLET

Decibel Meter Kits



Furnished for either constant or non-constant impedance. Easy to assemble. 3" dB meters used have scale reading up 6 dB, down 10 dB. Multipliers increase range to up 42 dB.

No. 150—Decibel Meter Kit

Non-constant impedance. Includes: Triplet Model 321—3" meter. 2-deck selector-switch. 9 wire-wound multipliers with bakelite mounting board. Hookup wire, blueprints, and instructions. Shpg. Wt. 5 lbs. **\$21.24**

No. 1073—Your Cost

No. 200—Decibel Meter Kit

Same as above, but with Triplet 3" constant impedance meter. No. 1074—Your Cost **\$23.07**

NOTE: We can make immediate delivery on all types of WESTON, READRITE and TRIPLETT meters and test equipment not listed in this catalog.



SERVICEMEN'S ACCESSORIES

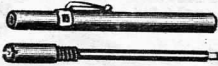
ICA INSULOID Neutralizing Tool



Made in two pieces which telescope into each other. Similar in appearance to a fountain pen. The neutralizing tool is composed of two socket wrenches and a screw-driver. Good looking and fills a distinctly definite need for neutralizing and aligning radio receivers, coils, etc.

No. 9540
Your Cost **35c**

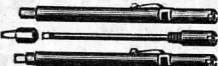
Neutralizing and Alignment Tool



Made of polished bakelite with steel driver blade. Fountain pen size (6") with a handy pocket clip. Driver fits into the wrench. New and improved.

No. 4070
Your Cost **38c**

4-in-1 Neutralizing and Alignment Tool



1/4" and 3/8" nut wrenches, miniature blade screw-driver for neutralizing and a full-size insulated handle general purpose screw-driver. Made of fine quality extra strength fibre.

No. 6946
Your Cost **59c**

P.A. and Test Plugs and Connectors

Here are plugs and connectors to meet all the requirements of service men and amateurs. Made of best quality composition. Plugs will fit standard tube sockets.

Sure-Grip Plugs and Connectors

Sure-Grip Plugs

No.	Prongs
9420	4
9421	5
9422	6
9423	7 (large)
10613	7 (small)



Connectors

No.	Prongs
7360	4
7361	5
7362	6
7774	7 (large)
10614	7 (small)

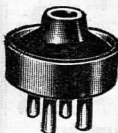
Yr. Cost Each **24c**

Speaker and Analyzer Plugs

Long Handle

No.	Prongs
5870	4
5871	5
6992	6
10611	7 (small)

Your Cost Each **19c**



Short Cap
No. Prongs
5868 4
5869 5
6991 6
10612 7 (small)
Your Cost, Each **15c**

Tube Set Trimmer



Screw-driver permanently fastened in metal cylinder, completely insulated. Overall length 4 3/8", 3/4" diameter. Handle 2 1/2" long, shaft 2 1/8".

No. 11931
Your Cost **55c**

Socket Head Wrench



Alignment Tool with brass 1/4" socket head fitting trimmer screws. Insulating shaft riveted to wrench to prevent slipping. Other end has a hardened screw-driver. Shaft will fit through 1/4" hole.

No. 11932
Your Cost **27c**

Insulated Barrel Type Alligator Clips



Plug Type Clip, 2 1/4" Long
No. 10812—Red
No. 10813—Black
Your Cost, Each **8c**
Wire Type Clip, 3" Long
No. 10814—Red
No. 10815—Black
Your Cost, Each **9c**

Alligator Test Clips



No. 7655—2" Long
Your Cost, Each **4c**
Per Dozen **45c**
No. 10817—2 3/4" Long
Your Cost, Each **5c**
Per Dozen **55c**

Fancy Head Bronze Finish Screws for Mfg. Speakers

Length	No. Doz.	No. Doz.
Ins.	6-32	8-32
1/4"	11922 8c	11925 10c
1/2"	11923 9c	11926 10c
1 1/2"	11924 10c	11927 14c

Banana-Tip Jacks

Will take standard phone tips or banana plugs. Insulated washer and nut furnished. Mounts in 1/4" hole up to 1/2" thick. Plug or tip fits from top.

No. 11918—1 1/4" long.
Your Cost, Each **9c**



Radio Hardware



Assortment of machine screws, wood screws, hex nuts, washers, fibre bushings. Approx. 225 pieces to box. Very handy on repair jobs.

No. 11921
Your Cost **95c**

Insulated Jacks

For banana plugs. New split type. Mounts in 3/8" hole up to 1/2" thick. Amheroid shoulder.

No. 11919—3/8" long.
Your Cost, Each **9c**



Solderless Insul. Phone Tip Plug



Fits standard type phone tip jacks. Wire inserted through tip for solderless connection. 1 1/4" long. Red and black—specify when ordering.

No. 9303
Your Cost, Each **5c**
Per Dozen **55c**

Phone Plugs

Standard phone plug, heavy unbreakable barrel and high insulation between contacts.



No. 6957—Two-conductor.
Your Cost, Each **19c**

Insulated Plugs & Jacks

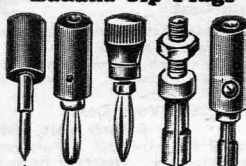


Screw-end-on plug for solderless connection. Insulated shoulder washer-type jack with terminal lug. Jack is 3/4" long. Plug-in prong is 3/8" long. Available in red or black.



No. 9313—Plug
No. 9314—Jack
Your Cost, Each, Either Type **6c**
10 for **49c**

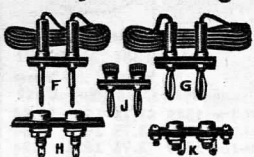
Phone and Banana-Tip Plugs



Any type of plug needed in Amateur transmitters and receivers. Insulated plugs fit standard test-prod handles. Phone-tip plugs fit tip-jack. Banana plugs fit banana jack.

A—Insulated Needle-Point Phone-Tip Plug 1 1/2" long.
No. 11909
Your Cost **6c**
B—Insulated Banana Plug, 1 3/4" long.
No. 11910—Your Cost **6c**
C—Insulated Banana Plug, 2 1/2" long.
No. 11911—Your Cost **9c**
D—Binding Post Banana Plug.
No. 11912
Your Cost **9c**
E—Split Type Banana Plug, 1/2" Plug, 6-32 1/2" screw, with nut.
No. 11913—Your Cost **5c**
F—Brass Split Type Banana Plug, 1/2" plug, 1/8" handle, side screw for solderless connection.
No. 11914—Your Cost **9c**

Twin Jacks & Plugs



Twin plugs mounted on 1/2" x 1 1/2" bakelite. Wires and handles red and black. All connections made solderless. Jacks are 1/2" x 2".

F—Twin Needle Point Phone Tip Plug with 36" wire leads, 3/4" apart. H—Twin Phone Tip Jack.
No. 11915
Your Cost, Per Pair **38c**
G—Twin Banana Phone-Tip Plug with 36" wire leads, 3/4" apart. K—Twin Banana Tip Jack.
No. 11916
Your Cost, Per Pair **38c**
J—Twin Banana Phone-Tip Plug with binding posts (red and black), 3/4" apart. L—Twin Banana Tip Jack. The plugs are completely insulated, and the wire is attached in a solderless manner so that it can be easily replaced. Ideal for speaker and head-phone connections, test panels, etc.

No. 11917
Your Cost, Per Pair **33c**

Grid Caps

Completely insulated. 12" wire, solderless phone-tip and insulated handle. Wire attached to grid cap.



Standard Tube Caps
No. 11928—Your Cost **16c**
866 Tube Caps
No. 11929—Your Cost **17c**
Metal Tube Caps
No. 11930—Your Cost **12c**

Insulated S. G. Caps



Available in Red, Blue, Black, Green, Purple, and Yellow.

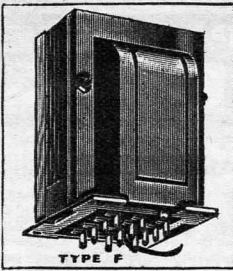
No. 9517—12" wire.
Your Cost **6c**
No. 11124—12" shielded wire.
Your Cost **12c**

Screen-Grid Clip

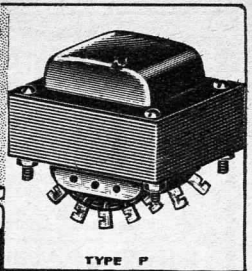


Positive contact. Made of spring brass, tinned for easy soldering.

No. 4173
Your Cost, Per Doz. **15c**
Per Gross **\$1.49**



ACRATEST POWER TRANSFORMERS



Upright Mounting Type "F"

Approved by the Board of Underwriters. Full shielding provided. Soldering lugs terminate on fibre strip at bottom.

For 4, 5 or 6 Tubes
Area $4\frac{3}{4} \times 3\frac{3}{4}$ ". Weight: 6 lbs.
Mounting Centers: $2 \times 2\frac{1}{2}$ ".
2.5 volts at $5\frac{1}{4}$ amps.
2.5 volts at $1\frac{1}{4}$ amps. C. T.
650 volts at 50-M. A. C. T.
5 volts at 2 amps. **\$1.96**
No. 6757—Cost.....

**For 5, 6 or 7 Tubes
Using 2A3 Output**
Area: $3\frac{3}{4} \times 3\frac{3}{4}$ ". Weight: 8 lbs.
Mounting Centers: $3\frac{1}{4} \times 3\frac{1}{4}$ ".
2.5 volts at $5\frac{1}{4}$ amps.
2.5 volts at 5 amps.
750 volts at 150-M. A. C. T.
5 volts at 3 amps. **\$3.45**
No. 7804—Cost.....

**For 7 or 8 Tubes
Using '26 Type Tubes**
Area: $3\frac{3}{4} \times 3\frac{3}{4}$ ". Weight: 7 lbs.
Mounting Centers: 3×3 ".
1.5 volts at 8 amps.
2.5 volts at 2-amps. C. T.
450 volts at 60-M. A. C. T.
5 volts at 2 amps.
5 volts at .5 amps. **\$2.15**
No. 6241—Cost.....

For 8 or 9 Tubes
Area: $4\frac{1}{2} \times 3\frac{3}{4}$ ". Weight: 6 lbs.
Mounting Centers: $2\frac{1}{2} \times 3$ ".
2.5 volts at 10.5 amps.
2.5 volts at 3-amps. C. T.
700 volts at 90-M. A. C. T.
5 volts at 3 amps. **\$2.30**
No. 6758—Cost.....

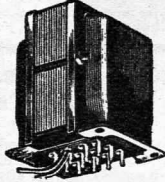
For 10, 11 or 12 Tubes
Area: $4\frac{1}{2} \times 3\frac{3}{4}$ ". Weight: 6 lbs.
Mounting Centers: 3×3 ".
2.5 volts at 15.25 amps.
2.5 volts at 3-amps. C. T.
700 volts at 110-M. A. C. T.
5 volts at 3 amps. **\$2.70**
No. 6759—Cost.....

6.3 Volt Transformers

Flush Mounting Type "P"

For 4 Tubes
6.3 volts at 1.6-amps. C. T.
5 volts at 2 amps.
650 volts at 40-M. A. C. T.
Area: $2\frac{1}{2} \times 3$ ". Weight: 3 lbs.
Mounting Centers: $2 \times 2\frac{1}{2}$ ".
No. 7767
Your Cost..... **98c**

For 4 or 5 Tubes
6.3 volts at 1.7-amps. C. T.
5 volts at 3 amps.
650 volts at 50-M. A. C. T.
Area: $2\frac{1}{2} \times 3$ ". Weight: 3 lbs.
Mounting Centers: $2 \times 2\frac{1}{2}$ ".
No. 15551
Your Cost..... **\$1.20**

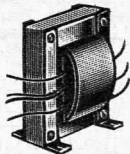


Upright Mounting Type "F"

For 7 or 8 Tubes

6.3 volts at 3 amps.
5 volts at 3 amps.
700 volts at 110-M. A. C. T.
Area: $3\frac{3}{4} \times 3\frac{3}{4}$ ". Weight: 7 lbs.
Mounting Centers: 3×3 ".
No. 8242
Your Cost..... **\$2.50**

For Auto Receivers



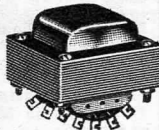
A newly developed compact transformer delivering 250 volts at 50 mils. in conjunction with a standard vibrator. Upright mounting, unshielded type. Mounting centers: $1\frac{1}{2} \times 2$ ". Overall height $3\frac{3}{8}$ ". Withstands vibration and temperature changes. Wt. 3 lbs.
No. 11754
Your Cost..... **\$1.69**

For 6 or 7 Tubes
6.3 volts at 2.8-amps. C. T.
5 volts at 3 amps.
650 volts at 70-M. A. C. T.
Area: $3\frac{1}{2} \times 3\frac{1}{2}$ ". Weight: 4 lbs.
Mounting Centers: $2\frac{1}{2} \times 2\frac{1}{2}$ ".
No. 11755
Your Cost..... **\$1.75**

For 8 or 9 Tubes
6.3 volts at 3.5-amps. C. T.
5 volts at 3 amps.
700 volts at 85-M. A. C. T.
Area: $3\frac{1}{2} \times 3\frac{3}{4}$ ". Weight: 5 lbs.
Mounting Centers: $2\frac{1}{2} \times 3\frac{1}{2}$ ".
No. 11756
Your Cost..... **\$2.10**

4-Tube Replacement Power Transformer

For sets using 2-24's, 27's, 35's, 51's, or 3-55, 56, 57, 58, 2A6, 2A7, 2B7, etc.; 1-45, 46, 47, and 1-80. Following voltages available: $2\frac{1}{2}$ volts at 3.75-amps. C. T. 5 volts at 2 amps. 650 volts at 40-M. A. C. T. Size: $2\frac{1}{2} \times 3 \times 3\frac{1}{4}$ ". Mounting Centers: $2\frac{1}{2} \times 2$ ". Weight 3 lbs.
No. 5502
Your Cost, Each... **65c**



Flush Mounting Type "P"

Terminal chart supplied with each transformer, simplifying installation. High standards insure satisfactory service.

For 5 Tubes
Area: $2\frac{1}{2} \times 3$ ". Weight: 3 lbs.
Mounting Centers: $2 \times 2\frac{1}{2}$ ".
2.5 volts at 7-amps. C. T.
700 volts at 50-M. A. C. T.
5 volts at 3 amps. **\$6c**
No. 6027—Cost.....

For 5 Tubes
Area: $2\frac{1}{2} \times 3\frac{1}{4}$ ". Weight: 4 lbs.
Mounting Centers: $2\frac{1}{2} \times 2\frac{1}{2}$ ".
2.5 volts at $5\frac{1}{4}$ amps.
2.5 volts at 2-amps. C. T.
650 volts at 50-M. A. C. T.
5 volts at 3 amps. **\$1.29**
No. 9342—Cost.....

For 6 or 7 Tubes

Area: $3\frac{1}{2} \times 3\frac{3}{4}$ ". Weight: 5 lbs.
Mounting Centers: $2\frac{1}{2} \times 3\frac{1}{2}$ ".
2.5 volts at 7 amps.
2.5 volts at 3-amps.
5 volts at 3 amps.
700 volts at 70-M. A. C. T.
No. 5187
Your Cost..... **\$1.50**

For 8 or 9 Tubes

700 volts at 90-M. A. C. T.
Area: $3\frac{3}{4} \times 4\frac{1}{2}$ ". Weight: 6 lbs.
2.5 volts at 10.5 amps.
2.5 volts at 3-amps. C. T.
5 volts at 3 amps.
No. 6760
Your Cost..... **\$1.73**

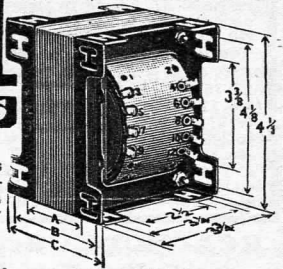
For 10, 11 or 12 Tubes

Area: $3\frac{1}{4} \times 4\frac{1}{2}$ ". Weight: 7 lbs.
Mounting centers $3\frac{1}{4} \times 3$ ".
2.5 volts at $15\frac{1}{4}$ amps.
2.5 volts at 3-amps. C. T.
5 volts at 3 amps.
700 volts at 110-M. A. C. T.
No. 6761
Your Cost..... **\$2.27**

ACRATEST UNIVERSAL REPLACEMENTS

THE "MULTI-MOUNT" POWER TRANSFORMER

Acratest Engineers have designed these transformers have a wide flexibility for various combinations for general replacement in most receivers. Each terminal lug is numbered. The highest grade of laminations and windings used and every transformer is provided with a varnish coating. The brackets are japanned and simplified.



For 6, 7 or 8 Tubes

5 type 24, 27, 35, or any combination; OR 8 type 55, 56, 57, 58, 2A6, 2A7, 2B7, or any combination.
2 type 45, 46, 47, 59, 2A5
1 type 80, 80M, 83, 5Z3
2.5 volts c. t. at 8.75 amp.
2.5 volts c. t. at 3.5 amp.
5.0 volts c. t. at 3.0 amp.
700 volts c. t. at 110 mils.
Dimensions: A- $1\frac{3}{4}$ ", B- $2\frac{3}{4}$ ", C- $3\frac{1}{4}$ ". Shpg. Wt. 6 lbs.
No. 5414
Your Cost, Each... **\$1.95**

8, 9 or 10 Tubes

Using '26 Type Tubes
6 type '26 tubes
1 type 27, 24, 35, 55, 56, 57, 58
2 type 171A
1.5 volts c. t. at 6.3 amp.
2.5 volts c. t. at 1.75 amp.
5.0 volts c. t. at .5 amp.
5.0 volts c. t. at 2.0 amp.
600 volts c. t. at 80 mils.
Dimensions: A-2", B-3", C- $3\frac{1}{2}$ ". Shpg. Wt. 7 lbs.
No. 6025
Your Cost, Each... **\$2.10**

9 or 10 Tubes

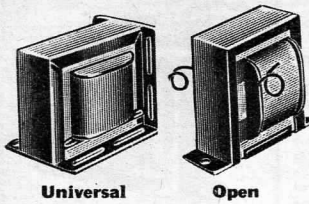
7 type 24, 27, 35, or any combination; OR 12 type 55, 56, 57, 2A6, 2A7, 2B7, or any combination.
2 type 45, 46, 47, 59, 2A5
1 type 80, 80M, 83, 5Z3
2.5 volts c. t. at 12.25 amp.
2.5 volts c. t. at 3.5 amp.
5.0 volts c. t. at 3.0 amp.
700 volts c. t. at 110 mils.
Dimensions: A-2", B-3", C- $3\frac{1}{2}$ ". Shpg. Wt. 7 lbs.
No. 5191
Your Cost, Each... **\$2.10**

9 or 10 Tubes Using 210-250 Output

6 type 24, 27, 35, or any combination; OR 10 type 55, 56, 57, 58, 2A6, 2A7, 2B7, or any combination.
2 type 210, 250. 2 type 281.
2.5 volts c. t. at 10.5 amp.
7.5 volts c. t. at 2.5 amp.
7.5 volts c. t. at 2.5 amp.
1200 volts c. t. at 150 mils.
Dimensions: A- $2\frac{1}{4}$ ", B- $3\frac{1}{4}$ ", C- $3\frac{3}{4}$ ". Shpg. Wt. 8 lbs.
No. 5190—Your Cost... **\$3.35**

THORDARSON

AUDIO TRANSFORMERS

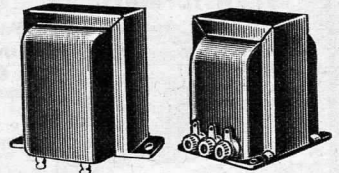


Universal

Open

Audios and Chokes for All Replacement Purposes

A line of Genuine Thordarson Transformers and Chokes for use as replacement in almost any type of receiver where these components are used. Thordarson guarantees the best possible audio response over the widest range. The ratings as given below are thoroughly reliable in every respect. Also ideal for use in Public Address and Speech Amplifiers.



Sub-Panel

Shielded

Audio Coupling Transformers

Application	Type	Mounting	Ratio	Size Inches	No.	Your Cost
Interstage Coupling Couples single plate (any type tube) to single grid (any type tube).	R-100	Universal	1-3	2 3/8 x 1 1/2 x 2	11073	\$1.03
	T-103	Universal	1-3	1 3/8 x 2 x 2 3/8	11074	1.18
	T-2999	Open	1-3	1 1/2 x 2 x 2 1/2	11075	1.03
	T-5736	Sub Panel	1-3	2 x 2 x 2 3/8	11076	1.18
	T-5737	Open	1-3	2 1/2 x 2 1/2 x 3	11077	1.76
	T-5738	Sub Panel	1-3	2 1/2 x 2 1/2 x 3	11078	1.91
	R-300	Shielded	1-3	2 1/2 x 2 1/2 x 3	11079	2.35
	T-6360*	Shielded	1-3	2 1/2 x 2 1/2 x 3	11080	2.35

*Power detection or high peak audio. †For high quality amplifier.

Application	Type	Mounting	Ratio	Size Inches	No.	Your Cost
Push - Pull Input Couples single plate (any type tube) to push-pull grids (any type tubes).	R-101	Universal	1-3	1 1/2 x 2 x 2 3/8	11081	\$1.32
	T-3391	Open	1-3	1 1/2 x 2 x 2 3/8	11082	1.18
	T-5739	Sub Panel	1-3	2 x 2 x 2 3/8	11083	1.32
	T-5740†	Open	1-3	2 1/2 x 2 1/2 x 3	11084	2.66
	T-5741†	Sub Panel	1-3	2 1/2 x 2 1/2 x 3	11085	2.21
	T-5742†	Open	1-3	2 1/2 x 2 1/2 x 3	11086	2.06
	T-5743†	Sub Panel	1-3	2 1/2 x 2 1/2 x 3	11087	2.21
	T-4304†	Shielded	1-3	2 1/2 x 2 1/2 x 3	11088	2.65

†Specially designed primary to couple to power detector. ‡Recommended for high quality amplifiers.

Application	Type	Mounting	Ratio	Size Inches	No.	Your Cost
Push - Pull Interstage Couples push-pull grids (any type tubes) to push-pull plates (any type tubes).	T-6434	Open	1-1.3	2 1/2 x 2 1/2 x 3	11090	\$2.06
	T-5870§	Sub Panel	1-1.5	2 1/2 x 2 1/2 x 3	11091	2.21
	T-2973	Shielded	1-2	3 1/2 x 3 x 3 3/4	11092	4.12

§T-5870 may carry grid current in Class "A" prime amplifiers but should not be used in final Class "B" stages.

Push - Pull Output Chokes

Type	Mounting	Characteristics	Size Inches	No.	Your Cost
R-102	Universal	PP 45 or 71A tube	1 1/2 x 2 x 3 3/8	11101	\$1.18
T-5747	Open	PP 45-46-71A, etc.	1 1/2 x 2 x 3 3/8	11102	1.03
T-5748	Sub Panel	PP 45-46-71A, etc.	2 x 2 x 2 3/8	11103	1.18
T-5749	Open	PP 50-45-46-71A-10, etc.	2 1/4 x 2 1/2 x 3	11104	1.62

Filter Chokes

Type	Mounting	Henries	M.A. Rating	Ohms Res.	Size Inches	No.	Your Cost
R-105	Universal	10	75	266	1 7/8 x 2 x 2 3/8	11106	\$1.03
T-4707	Open	12	75	290	2 3/8 x 2 1/4 x 2 1/8	11107	1.03
T-5752	Sub Panel	5	80	138	2 x 2 x 2 3/8	11109	1.03
T-5754	Sub Panel	9.5	110	200	2 1/2 x 2 1/2 x 3	11111	1.32
R-196	Shielded	15	85	375	2 1/2 x 2 1/2 x 3	11112	1.76
T-1700	Shielded	8.75	150	231	3 x 3 3/8 x 3 3/8	11113	2.65

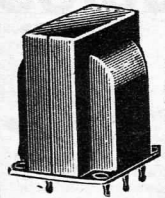
Output Transformers

Type	Mounting	Primary	Secondary	Size Inches	No.	Your Cost
R-107	Universal	Push-pull or single 45, 47, 71-A, 31, 33, 46, 49, 59 Pent. 59 Triode, 89	Will match from 1/10 to 29 ohm voice coils	1 7/8 x 2 x 2 3/8		
T-5701	Open	Same as R-107 above	Same as R-107 above	1 7/8 x 2 x 2 3/8	11094	1.18
T-3399	Open	PP 45 or 71-A	6 to 12 ohms†	1 7/8 x 2 x 2 3/8	11095	1 1/3
T-2903	Shielded	PP 50 or 45	15, 8, 4 ohms	3 1/2 x 3 x 3 3/4	11099	2.35
T-2880	Shielded	PP 50 or 45	4000 ohms	3 1/2 x 3 x 3 3/4	11100	2.35

† Not Class "B".

‡ Suitable for connection to any voice coil ranging from 6 to 12 ohms impedance.

Class "B" Coupling Trans.



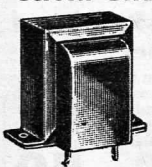
No. 7127
Your Cost **\$1.45**

INPUT
Plate of single 46 to grids of pushpull 46's. 2 3/8" x 2 3/8" x 3 1/8". Lugs on bottom. Shpg. Wt. 3 lbs.

OUTPUT

For coupling plates of pushpull 46's to 9, 15, 500, 4000 ohm loads. Size 2 3/8" x 2 3/8" x 3 1/8". Leads on bottom. Shpg. Wt. 3 lbs.
No. 7128
Your Cost **\$1.65**

Audio Choke for Screen-Grid Tubes



No. 7776
Your Cost **98c**

Inductance 800 henries at 5 mils, operates at maximum efficiency. Has lugs on bottom. Shpg. Wt. 2 lbs.

JEFFERSON Universal Audios Single or Push-Pull Universal Input



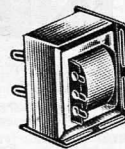
Jefferson #467-168—Primary, any single plate of any tube. Secondary, any single or push-pull grids. Ratio primary: secondary is 1:3. Has excellent frequency response and is down only 3 db at 100 cycles. May be mounted in any position. Size 1 1/4" x 2 3/8" x 2". Shpg. Wt. 1 lb.
No. 5597
Your Cost **94c**

Universal Output

Jefferson #467-170—Primary, any single plate or push-pull plates of any tubes. Tapped secondary will match any voice-coil from 1 to 30 ohms. Will handle up to four watts. Size 1 3/4" x 2 3/8" x 2". Mounted in numerous positions. Shpg. Wt. 1 lb.
No. 6028
Your Cost **94c**

GENERAL Universal Audios Single or Push-Pull Universal Input

Primary will match any single plate of any tube. Secondary will match any single or push-pull grids of any tubes, including ALL-METAL TUBES. Size 2" x 2 3/8" x 1 1/8". Mounting in any position made possible by slotted end and side-mounting brackets. Mounting centers: 1 1/4" x 1/2" to 1 1/8" or 1 1/4" x 1/2" to 1 1/8". Shpg. Wt. 1 lb.
No. 8326
Your Cost **\$1.03**

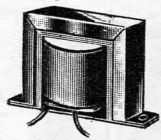


Universal Output

Primary single or push-pull, secondary, 2 to 30 ohms in 2-ohm steps. Overall dimensions 2" x 2 3/8" x 1 1/8". Mounting centers 1 1/4" x 1/2" to 1 1/8" or 1 1/4" x 1/2" to 1 1/8". Shpg. Wt. 2 lbs.
No. 8327
Your Cost **92c**

Heavy Duty Filter Choke

For radio receivers, amplifiers or transmitters. Resistance 250 ohms.



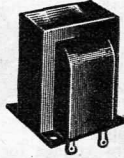
30 Henries—150 Mils
No. 6916—Wt. 3 lbs.
Your Cost **98c**

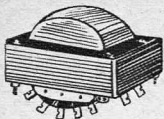
30 Henries—80 Mils.
D.C. resistance 200 ohms. Wound on 3/4" x 3/4" core. Mounting centers 2 3/4". Shpg. Wt. 1 lb.
No. 10728
Your Cost **72c**

Shielded Filter Chokes

30 Henries, 150 Mils.

Fully shielded, suitable for mounting with lugs; below panel. Highest quality materials used, fully protected electrically and physically.
D.C. Resistance 200 ohms.
No. 3714
Your Cost **94c**





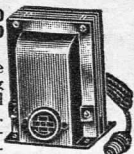
AUDIO AND POWER TRANSFORMERS



Step - Down Transformers

Reduces 220 Volts to 110 Volts A. C.

High - grade non - ageing silicon steel laminations. Coils are impregnated especially to meet conditions of export service. Furnished with 8-ft. cord and plug for primary.



80 Watt—Shpg. Wt. 6 lbs.
No. 8251
Your Cost **\$2.05**

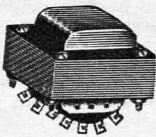
160 Watt—Shpg. Wt. 9 lbs.
No. 3157
Your Cost **\$2.80**

350 Watt—Shpg. Wt. 11 lbs.
No. 9502
Your Cost **\$6.95**

Class "B" Power Transformer

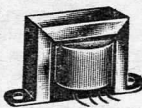
For Public Address Amplifiers and High Powered Radios

A specially designed power transformer by Acra-test, utilizing standard type tubes; makes possible the construction of a Power Amplifier or radio receiver having an output of approximately 20 watts. 750 volts at 200 M. A. C. T. 2½ volts at 7 amps. 2½ volts at 3½ amps. C. T. 5 volts at 3 amps. C. T. Size: 3¼"x3¾"x3¾". Mounting Centers: 2½"x2½".
No. 7125
Your Cost **\$2.95**



ACRA-TEST

Transceiver Audio

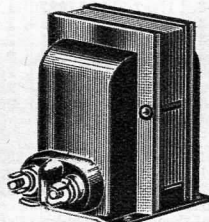


Extensively used in new 5-meter transceivers. Combines audio and

microphone transformer in one unit. Matches standard double-button microphone and single plate to single grid. Shpg. Wt. 2 lbs.
No. 11639
Your Cost **89c**

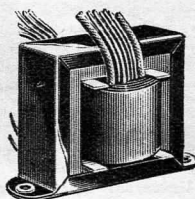
AMATEURS ATTENTION

Modulation Choke For Real Heavy Duty 30 Henry—150 Ma.



Designed and built for Heising modulating systems. Absolutely guaranteed to have the following rating: 150 Ma. at 30 Henries. D. C. resistance is 200 ohms. Size: 5½"x3¾"x3¾". Porcelain terminals. Shpg. Wt. 10 lbs.
No. 11144
Your Cost **\$2.95**

Tube Testing Trans.



110-volt, 60-cycle A. C. The following voltages are available: 1½, 2, 2½, 3, 3.3, 5, 6.3, 7½, 15, 25 and 30 volts, at 2 amperes. Single common. Very fine for replacement and laboratory work. Shpg. Wt. 4 lbs.

No. 8243
Your Cost **\$1.19**

GENERAL Voltage Regulating Transformers — Deliver 110 Volts, 50 - 60 Cycles

For electrical or radio equipment requiring constant voltage at all times. Sensitive voltmeter mounted at top shows proper setting of manually-operated positive-snap Selector Switch. Black steel case, 4¾"x7"x6¼". All units deliver up to 160 watts.

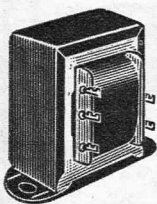


For 70 to 130-Volt Line
No. 11348—Primary 70-80-90-100-110-120- or 130 volts. Secondary 110 volts, 50-60 cycles.
Your Cost **\$7.94**

For 100 to 190-V. Line
No. 11349—Primary 100-115-130-145-160-175 or 190 Volts. Secondary 110 Volts, 50-60 Cycles.
Your Cost **\$8.23**

For 140 to 260-V. Line
No. 11350—Primary 140-160-180-200-220-240 or 260 Volts. Secondary 110 Volts, 50-60 Cycles.
Your Cost **\$8.53**

Universal Push-Pull Output Transformer



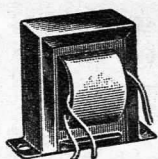
For Mixer and Voice Coil

Matching Matches 7 1 A's, 31's, 43's, 45's, 48's, 50's, 2A3's to various speakers and lines.

Has two secondaries: 4000 ohms tapped at 500; 15 ohms tapped at 9. Shpg. Wt. 2 lbs.

No. 6917
Your Cost **\$1.57**

Mike-Pickup Input Transformer

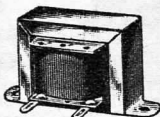


Will match standard 200-ohms per button, mike, or high impedance phono-pickup head, to single or push-pull input stage. Secondary impedance 250,000 ohms. Two-section primary: 200 ohms each side of center tap and 5000 ohms. Open-frame mounting and 6" leads. Shpg. Wt. 2 lbs.

No. 7145
Your Cost **\$1.05**

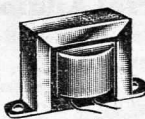
Replacement Chokes for AC-DC Receivers

10-henry choke at 50 M. A.; 200 ohms D. C. resistance. Frames are cadmium-plated. Core silicon steel. Solder lug terminals. Vertical mounting. Can be used to replace burnt-out chokes or in new receivers.



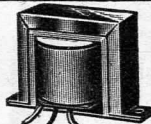
No. 8244
Your Cost **29c**

BARGAINS IN HIGH GRADE AUDIOS



Your Cost, Each, Any Type

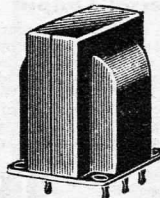
44c



Remarkable values in standard audio transformers. Through a very fortunate purchase, we are able to offer you these uniformly fine audios at a phenomenally low price. However, quantities are limited. To get YOUR supply of these fine transformers you must send in your order NOW while quantities are still available. Popular strap-mounting types, centers about 2½". Shpg. Wt. per Unit 2 lbs.

No. 15544—Straight 3:1 Audio.
No. 15545—Pushpull Input Transformer; matches standard tubes. Ratio 3:1.
No. 15546—Output Transformer, matches single 45 or 71A 5-15 ohm voice-coil.
No. 15547—Output Trans-

former; matches Single 47 or 2A5 to 5-15-ohm voice coil.
No. 15548—P. P. Output Transformer; matches P. P. 45's or 71A's to voice-coil.
No. 15549—P. P. Output Transformer; matches P. P. 47's or 2A5's to voice-coil.



Shielded Push-Pull Input Transformer

Fully-shielded, high-grade transformer. Excellent frequency response provided by larger core and more liberal windings. Ideal for replacements. Used with all standard tubes; matches single plate to push-pull grids. Shpg. Wt. 2 lbs.

No. 15550
Your Cost, Each **59c**

ACRATEST DRY ELECTROLYTICS

Compactness, long life, low power factor, stability in operation, and LOW COST make Acratest Dry Electrolytics the FIRST CHOICE of the Serviceman for replacement, work. Conservative ratings and high manufacturing standards are YOUR GUARANTEE of satisfaction.

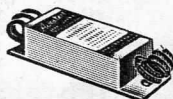
"600" Peak Dry Electrolytic



Specially constructed for replacement in sets, amplifiers where the surge voltage is over 500 volts. Constructed in the standard ACRATEST manner except that the peak voltage is 600 and the working voltage is 475. They make ideal replacement for all types of power packs and receivers. In cardboard box with two flexible leads.

No.	Cap. Mfd.	Your Cost
8254	1	\$0.34
8255	2	.40
8256	4	.45
8257	6	.50
8258	8	.55
9386	10	.79

"Ultra Compact" Dry Electrolytics



These are the most compact dry electrolytic condensers made. Designed for replacement in all types of receivers, including A. C.-D. C. sets. The compactness makes it possible to fit into any place or position.

No.	Cap.	Work. Vltg.	Your Cost
11451	4	200	33c
11452	8	200	39c
11453	10	200	45c
11454	12	200	50c
11455	16	200	55c
11456	2	450	30c
11457	4	450	35c
11458	6	450	47c
11459	8	450	48c
11460	10	450	53c
11461	12	450	57c

"Small Cardboard Box Type" Dry Electrolytics



The ideal by-pass or filter condenser for any repair job. Small and compact in size. For use in replacing broken-down sections in condenser blocks and dual or triple electrolytics. Red is positive and black is negative. Size 2"x1"x1".

No.	Cap. Mfd.	Peak Volts	Your Cost
6491	1	500	\$0.24
6492	2	500	.29
7695	2	220	.29
7696	4	220	.32
7697	8	220	.39

NOTE: A condenser for every purpose is listed in our 136-page No. 18 Catalog. A card brings it to your hands absolutely free of charge. Write to-day!



"Inverted Type" Single and Dual 500 Peak Voltage

Can be mounted in any position. $\frac{3}{4}$ " threaded bushing. Red lead is positive, black negative. Dual units concentric wound with common negative. All leads insulated from can. Housed in aluminum can.

No.	Cap. Mfd.	Your Cost
5304	4	\$0.36
5308	8	.42
8119	10	.63
8120	12	.70
6540	4-4	.69
7734	4-8	.76
7735	8-8	.82



Rectangle Can Type "Multiple Section" Dry Electrolytic Condensers

400 volts peak, 350 working voltage. $4\frac{1}{4}$ " high. Polarized with red lead positive, black lead negative. For general replacement.

No.	Cap. Mfd.	Size	Your Cost
7153	4-4	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	\$0.80
7155	8-8	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	.98
9372	4-4-4	$2\frac{1}{2}$ " x $1\frac{1}{2}$ "	1.13
9373	8-8-8	$2\frac{1}{2}$ " x $1\frac{1}{2}$ "	1.26



Round Aluminum Can "Multiple Section" Dry Electrolytic Condensers 500 Peak Voltage

Can be mounted in any position. Made in sturdy aluminum can. Long life.

No.	Capacity	Diam.	Your Cost
5316	8-8	$2\frac{1}{2}$ "	\$0.82
5324	8-8-8	3"	1.15
5332	8-8-8-8	3"	1.55
6530	5-15	$2\frac{1}{2}$ "	1.05
5336	9-9-18	3"	1.70
5352	8-8-18-18	$3\frac{1}{2}$ "	2.40



"Cardboard Box Type" 500 Peak Voltage

These dry Electrolytic Condensers are inexpensive, compact and light-weight. Specially constructed as replacements in receivers where space is a premium.

Single Sections

No.	Cap. Mfd.	Size	Your Cost
6493	4	$4\frac{1}{8}$ " x $\frac{3}{8}$ " x $1\frac{1}{4}$ "	\$0.34
6495	8	$4\frac{1}{8}$ " x $\frac{3}{8}$ " x $1\frac{1}{4}$ "	.40

Dual Sections

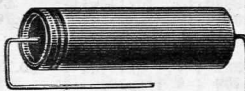
No.	Cap. Mfd.	Size	Your Cost
7159	4-4	$4\frac{1}{8}$ " x $1\frac{3}{4}$ " x $1\frac{1}{4}$ "	\$0.50
7161	8-8	$4\frac{1}{8}$ " x $1\frac{3}{4}$ " x $1\frac{1}{4}$ "	.68
9388	8-8-8	$4\frac{1}{8}$ " x $2\frac{1}{8}$ " x $1\frac{1}{2}$ "	1.05

Tubular Pigtail Electrolytic Condensers



No.	Cap.	Work. Vltg.	Your Cost
6511	5	25	16c
6545	10	25	22c
6646	25	25	22c
6648	5	50	22c
6650	10	50	24c
6538	25	50	32c
6661	5	100	26c
6539	10	100	33c
6553	4	150	29c
6558	8	150	36c
6560	16	150	39c
6662	1	200	24c
6561	4	300	30c
6573	8	300	39c
6664	1	450	25c
6665	2	450	28c
6583	4	450	35c
6594	8	450	39c

ACRATEST Pigtail Cartridge Condensers



Compact, wax impregnated, paper wrapped. Ideal for all replacement purposes. Non-inductive. Specially developed to withstand high temperature and humid conditions. Provided with wire leads and thoroughly sealed. Ends cannot pull out.

No.	Capacity	Working Voltage	Your Cost
5637	.1	200	\$0.06
2835	.25	200	.07
2836	.5	200	.14
10118	1.0	200	.25
10119	.05-.05	200	.14
10120	.1-.1	200	.14
10121	.25-.25	200	.17
5640	.01	400	.06
5641	.02	400	.07
5643	.03	400	.07
5645	.05	400	.07
5646	.1	400	.08
5649	.25	400	.12
10122	.5	400	.16
10123	.05-.05	400	.14
10124	.1-.1	400	.15

No.	Capacity	Working Voltage	Your Cost
5651	.006	600	.07
5652	.01	600	.08
5653	.02	600	.08
10125	.03	600	.08
10126	.05	600	.09
10127	.1	600	.10
10128	.25	600	.15
10129	.006	800	.07
10130	.01	800	.10
10131	.02	800	.12
10132	.05	800	.14
10133	.1	800	.18
10134	.01	1000	.12
10135	.02	1000	.15
10136	.03	1000	.17
10137	.05	1000	.19

Power Electrolytic Filter Condensers

1000 Peak Voltage Working Voltage



Low power factor, high filtering efficiency. Highest voltage electrolytic condensers made. Provides inexpensive filtering for power amplifiers and transmitters. For first condenser in filter with condenser input.

No.	Mfd.	Dimensions	Your Cost
6931	2	$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $4\frac{1}{2}$ "	\$0.79
6932	4	$1\frac{1}{2}$ " x 2 " x $4\frac{1}{2}$ "	.98
6933	8	$1\frac{1}{2}$ " x $3\frac{1}{4}$ " x $4\frac{1}{2}$ "	1.39

CONDENSERS

FOR ALL YOUR RADIO NEEDS



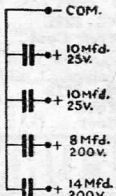
Cartridge Condensers



Aerovox Cartridge Condensers are excellently constructed with wire pig-tail leads which, when soldered to terminals or sockets make the condensers self-supporting. Can also be used as plate blocking condensers. Thoroughly impregnated with wax to provide complete protection against moisture.

No.	Cap. Mfd.	Working Voltage	Your Cost
9856	.01	400	\$.03
9857	.02	400	.09
9858	.03	400	.09
9859	.05	400	.10
9860	.1	400	.12
9861	.25	400	.19
9862	.5	400	.29
9863	1-1	400	.27
9864	.006	600	.10
9865	.01	600	.10
9866	.02	600	.10
9867	.03	600	.10
9868	.05	600	.12
9869	.1	600	.16
9870	.25	600	.24
9871	.5	600	.38
9872	1-1	600	.30
9873	.006	1,000	.12
9874	.01	1,000	.12
9875	.02	1,000	.14
9876	.03	1,000	.16
9877	.05	1,000	.21
9878	.1	1,000	.29

Universal Tubular Replacement Condensers



A very satisfactory condenser assembly for replacement on vast majority of compact receivers. Capacities as indicated in diagram. 1 3/4" diam. 1 3/4" long. Spade lugs are provided for easy mounting.

No. 11249
Your Cost..... **\$1.32**

SPARTON By-Pass Condensers



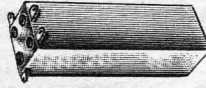
These are exact duplicate paper-wound replacements for the Sparton by-pass condensers listed below. Made expressly to replace the units designated by the manufacturer's part no.

No.	Mfd.	DC.W.V.	Your Cost
11275	.5	400	53c
11276	1.0	200	53c
11277	.25	600	53c

Exact Duplicate Electrolytic Replacement Condensers



Crosley Part No. W27488



Majestic Part No. 8755

Model of Set	Part No.	Cap. Mfd.	Type Container	No.	Your Cost
ATWATER KENT					
275-825	26158	8-14-8	Rect. Can	11242	\$1.18
BELMONT (FRESHMAN)					
545	C525B	5-25-5	Cdbd. Box	11243	1.03
CROSLY					
95, 163	W25857B	8-8	Cdbd. Box	10554	.59
129-1, 130, 130-1, 132-1	W26119	8-4	Cdbd. Box	10563	.68
96, 150, 155, 163	W26870	6	Cartridge	10564	.29
146	W26896	12-6	Cdbd. Box	10565	.76
148, 167	W27488A	8-6	Cdbd. Box	10555	.56
147	W27677A	8-8	Cdbd. Box	10566	.47
163, 400, 402	W28068	12	Cdbd. Box	10557	.56
160	W28468	8-12	Inv. Can	10558	1.15
164, 170, 171	W29097B	8-8-8	Inv. Can	10559	1.29
169	W29150B	6-7-8	Inv. Can	10560	1.12
166, 172	W29264A	16-16-8	Inv. Can (Ins. Cover)	10567	1.18
129-1, 130-1, 132, 136-1, 157	B30017	4-8	Inv. Can	10561	.85
175	W30059A	8-8-8	Inv. Can	10562	1.32
103	W30419	8-8	Inv. Can (Ins. Cover)	10568	.65
132-1	W26194B	12	Inv. Can	11244	1.32
174	W29804A	8-16-16	Univ. Can	11245	1.47
124, 125	W23801	6-8	Cdbd. Box	9809	.85
EMERSON					
32	GGC-137	8-16-5-5	Cdbd. Box	11797	1.32
19	KKC-143	12-8	Cdbd. Box	11798	.79
31B	UUC-179	12-8+5-5	Cdbd. Box	11799	1.03
GENERAL ELECTRIC					
K40, K40A	3536	5-5	Cartridge	10569	.53
K40A	3538	4-4	Cartridge	10570	.59
K60, K65, K63	6487	4-4-10-4	Cdbd. Box	10571	1.18
K52, K53, K58	7589	4-4	Cdbd. Box	10572	.62
GRUNOV					
670, 671, Chassis 6D	30091-1	8-8-8-12-12	Cdbd. Box	11800	1.91
INTERNATIONAL					
Kadette A and B	A-424	4-10-10	Cdbd. Box	10573	1.00
	A-426	2-7	Cdbd. Box	10574	.53
	A-427	3.5-3.5-3.5	Cdbd. Box	10575	.71
MAJESTIC					
211, 214, 215, 221, 223, 251-B, 253-B, 254-B, 351, 353	4713	8	Cdbd. Box	10576	.56
151, 153, 154, 155, 156, 251, 253, 254	5414	8	Cdbd. Box	10577	.56
291, 293, 294	7173	8	Cdbd. Box	10578	.56
303, 304, 307, 324	7489	16	Cdbd. Box	10579	.85
324, 344, 363	7988	7	Cdbd. Box	10580	.44
381	8755	4-8	Cdbd. Box	10581	.79
381	8774	10	Cartridge	10582	.29
411, 411A, 413, 413A	9661	8-10-16	Cdbd. Box	10583	1.32
60X Chassis 116A Auto Radio	9979	8-8	Cdbd. Box	10584	.85
118	10369	8-8	Cdbd. Box	10585	1.09
55, 59, 75, 195, 560, 556 Chassis 500	10827	10-8-8	Cdbd. Box	10586	1.15
RCA VICTOR					
R27, R17M, R18W, M105, 330, 331	3536	5-5	Cartridge	10569	.53
R27, R17, R18W	3538	4-4	Cartridge	10570	.59
R37, R38, R37P, R38P, 120	6487	4-4-10-4	Cdbd. Box	10571	1.18
M34, M105	6492	3-6-1	Cdbd. Box	10590	.62
R22	6511	8-4-10	Cdbd. Box	10591	.82
R22	6518	8-8	Cdbd. Box	10592	.76
100-101	6661	8-8-8-5-5	Cdbd. Box	10593	1.29
R28, RE40, 110, 111, 115, 210, 310	7589	4-4	Cdbd. Box	10572	.62
RADIO KEG					
		5-8-12	Cdbd. Box	10595	1.03
SPARTON					
	A9550	5-25-5	Cdbd. Box	10596	1.35
SIMPLEX					
Model V		4-20	Cdbd. Box	11246	.85
U. S. RADIO & TEL					
Apex, 10B	2719	8	Cdbd. Box	11247	.53
STEWART WARNER					
R115, R116	81959	4-13-7	Cdbd. Box	11248	1.15

Mica Condensers Type 1467



Very compact provided with wire leads. Test volts 500.

No.	Capacity Mfds.	Your Cost
10506	.00004	\$0.09
10507	.00005	.09
10508	.00007	.09
10509	.000075	.09
9831	.0001	.09
9832	.00015	.12
9833	.0002	.12
9834	.00025	.12
9835	.0005	.12
9836	.001	.15
9837	.002	.21
10510	.0025	.26

Type 1460



A very popular type mica condenser. Two soldering lug terminals. Test Volts 900. Two holes are provided in bakelite for screwing down.

No.	Capacity Mfds.	Your Cost
10511	.00004	\$0.09
10512	.00005	.09
9838	.0001	.09
9839	.00015	.12
9840	.0002	.12
9841	.00025	.12
9842	.0005	.12
9843	.001	.15
9844	.002	.21

High Voltage Mica Condensers Type 1450



A popular type of mica condenser used by experimenters and Amateur Radio operators. High-voltage type, 1,000 volts test. 1 1/4" square.

No.	Capacity Mfds.	Your Cost
9845	.0001	\$0.15
9846	.0002	.15
9847	.00025	.15
9848	.00037	.15
9849	.0005	.15
9850	.001	.18
9851	.002	.21
9852	.003	.24
9853	.004	.26
10513	.005	.26
9854	.006	.32
9855	.01	.41
10514	.02	.56

NOTE! A complete stock of all AEROVOX condensers carried at all times. We can fill your order immediately, on any AEROVOX Electrolytic, Mica, or Paper condenser not listed in this Catalog. Send for complete AEROVOX Catalog.

ACRATEST BY-PASS & FILTER CONDENSERS

ACRATEST

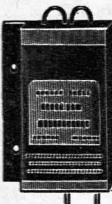
Hi-Volt Service Sections



This line of ACRATEST Capacitors is the first to be manufactured in this country having the properties of high voltage-rating in a small space. They are protected against moisture; wrapping is Empire paper, withstanding very high voltage. No danger of section breaking down against metal chassis. End sealing is hard, high-temperature wax. Leads are coded to show outside foil, so condenser is self-shielding.

No.	Capacity	Volts	Your Cost
10138	.25 mfd.	600	\$0.24
10139	.5 mfd.	600	.28
10140	1.0 mfd.	600	.36
10141	2.0 mfd.	600	.62
10142	.25 mfd.	1000	.35
10143	.5 mfd.	1000	.45
10144	1.0 mfd.	1000	.65
10145	2.0 mfd.	1000	1.10

ATWATER-KENT By-Pass Condensers



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

Guaranteed condensers to fit limited space in these Atwater-Kent receivers. May also be used in other sets.

Speaker By-Pass Condenser for above models. Wt. 1 lb.

No. 2985 Your Cost... **55c**

R-F By-Pass Condenser for above models. Wt. 1 lb.

No. 2984 Your Cost... **55c**

Replacement Dry Electrolytic Condensers for A.C.-D.C. Receivers

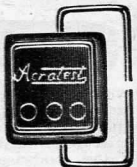


No.	Operating Voltage	Mfd. Capacity	Dimensions			Your Cost
			C-L	Htg. M.	Holes W.	
7652	25 v.	5-5'	2 1/2"	3/4"	1 1/2"	\$0.33
9374	25 v.	5-5'	2 1/2"	3/4"	1 1/2"	.33
7831	25 v.	10-10'	2 1/4"	3/4"	1 1/2"	.35
9375	100 v.	2-7*	2 1/4"	3/8"	1 1/4"	.43
7832	100 v.	2-7*	3 1/8"	1"	1 1/8"	.45
9376	100 v.	5-5-25'	3 1/2"	1 1/4"	1 1/2"	.82
9377	125 v.	12-20'	2 5/8"	3/8"	2"	.75
7833	150 v.	4-8*	3 1/8"	1"	1 1/8"	.47
7834	150 v.	4-8*	3 1/8"	1"	1 1/8"	.47
9378	150 v.	4-20'	4 1/8"	1"	1 1/2"	.65
7835	150 v.	4-4'	3"	3/4"	1"	.39
9379	150 v.	8-8'	3 1/4"	1 1/4"	1 1/2"	.57
7836	150 v.	12-4'	3 1/4"	1 1/4"	1"	.53
9380	150 v.	16-4'	3 1/4"	1 1/4"	1"	.63
9381	150 v.	4-4-16'	3 3/4"	1 1/8"	1 1/8"	.85
9382	150 v.	4-7-13 SP	3 3/4"	1 1/4"	1"	.93
9383	150 v.	4-10-10 SP	3 3/4"	1 1/4"	1"	.88
9384	150 v.	4-8-16 SP	4 1/4"	1 1/2"	1"	.71
9385	150 v.	10-16-4'	2 5/8"	1 1/4"	1"	1.00
7653	175 v.	4-4'	3 1/8"	1"	1 1/8"	.44
7837	175 v.	8-16*	4 1/4"	1 1/2"	1 1/2"	.52
7838	200 v.	4-4'	3 1/4"	1 1/4"	1"	.39
7700	200 v.	8-4'	3 1/4"	1 1/4"	1"	.58
7841	200 v.	8-8*	3 5/8"	1 1/2"	1"	.63
7839	250 v.	4-8*	3 1/8"	1 1/8"	1 1/2"	.60
7840	250 v.	6-6'	3 1/8"	1 1/8"	1 1/2"	.63

*—Connected Common Negative. *—Connected Common Positive
 †—Separate Common Each Section. SP—Connected Special.

ACRATEST Mica Pigtail Condensers

Can be mounted in the smallest possible space. High-grade molded bakelite case, special process prevents moisture from entering the condenser.



No.	Cap. Mfd.	Your Cost
6629	.00005	\$0.08
6630	.0001	.08
6631	.00015	.08
6632	.00025	.08
6633	.0003	.08
6634	.00035	.08
6635	.0005	.08
6636	.00075	.08
6637	.001	.08
6638	.0015	.10
6639	.002	.11
6640	.0025	.12
6641	.003	.12
6642	.0035	.12
6643	.004	.12

COLONIAL Replacement By-Pass Block Model 32



Replace that troublesome leaky condenser in the Colonial Model 32 with these compact, high-grade replacement units. Part No. 1728-SA. Yellow, 1 mfd.; Green, 1 mfd.; Brown, .25 mfd.; Red, 1 mfd. Can Negative. 3" base, 2 1/2" high; 2" wide.

No. 3211	Your Cost... 59c
Part No. 1748-SA Red, .1 mfd.; Yellow, .1 mfd.; Green, .5 mfd.	
No. 3219	Your Cost... 35c

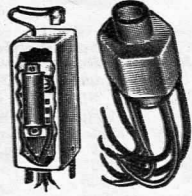
SPARTON By-Pass Condensers

Duplicate replacement by-pass condensers for Sparton Receivers. 2 1/2" long, 1 1/2" in diameter. Bracket on end for 6.32 screw. Mounting lug with slot at side. Full capacity and voltage rating.

No. 8300—25 mfd.	Your Cost... 26c
No. 5833 .5 mfd.	Your Cost... 29c
No. 6894 1.0 mfd.	Your Cost... 31c



EXACT DUPLICATE Replacement I.F. TRANSFORMERS



These coils and transformers are exact duplicates of the original parts and conform to manufacturers original specifications. Fully guaranteed to perform as well as or better than original. No drilling necessary.

Note: We are able to supply coils for any make set. Let us know your requirements.

No.	Model No.	Stage	Your Cost
BELMONT			
23320	50-C	Composite I. F.	\$1.47
23321	50	Output I. F.	.88
23322	50	Preselector	.59
23323	541	I. F.	.47
23324	550	I. F.	.47
23325	670	Output I. F.	.47
CLARION			
23326	220	Output I. F.	.59
CROSLLEY			
23327	124	W22603 I. F.	1.03

MAJESTIC Complete I.F.

No.	Model No.	Stage	Part No.	Your Cost
7739	20	1st	3908	\$1.50
7740	20	2nd	3907	1.50
7741	60	1st	4439	1.95
7742	60	2nd	4267	1.95
9881	15-55	2nd	4429	.98
9882	15-15B-150 composite		4428	1.25
10243	460	1st	10149	1.10
10244	460 (coil)	2nd	10253	.41

Majestic Coils Only

11196	15	1st	4428	.41
11197	15	2nd	8384	.41
10698	25	1st	5326	.41
10699	25, 55	2nd	5337	.41
23362	25B	2nd	5602	.41
10700	55	1st	6506	.41
23364	116	1st	9355	.41
23365	116	2nd	9361	.41
10701	120	2nd	5257	.41
23367	120B	2nd	6987	.41
10702	200	1st	6250	.41
23369	200	2nd	6254	.41
10703	210	1st	6119	.41
10704	210	2nd	6123	.41
10705	210	3rd	6127	.41
10706	310-330	2nd	7812	.41
23374	400	1st	9669	.41
11199	440	1st	10538	.41
11200	440	2nd	10528	.41
23378	460	1st	10149	.49

MAJESTIC COILS ONLY (Cont.)

No.	Model No.	Stage	Part No.	Your Cost
23379	500	1st	10843	.41
23380	500	2nd	11705	.41
10707	520-800	2nd	11014	.41

Majestic Dimmer Reactor

10697 300-300A-320 coil only .41
 10762 300-300A-320 complete .85

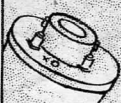
Primary Coil used as R. F. Plate Coil in Models 290, 300, 310, 330, 520, 490, 460. Genuine Majestic Part No. 7187.
 No. 11201 Your Cost... **69c**

RCA-VICTOR

23330	80-82-86-RAE68	1st	8567	\$0.41
23331	80-82-86-RAE68	2nd	8566	.41
23332	80-82-86-RAE68	3rd	8565	.41
23333	M34-M105	1st	3636	.47
23334	M34-M105	2nd	3637	.47

SIMPLEX

23335	P (coil) Output I. F.			.47
23336	P (coil) Input I. F.			.47
SPARTON				
23337	10 (coil)	1st & 2nd		.59
23338	12 (coil)	1st & 2nd		.59
23339	14 (coil)	1st		.59
23340	14	2nd		.73
23341	15	1st & 2nd		.59
23342	16	1st & 2nd		.59



Sockets·Jacks·Switches

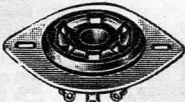
Sub-Panel Sockets



Made for test instruments, transmitting and receiving

No.	Prongs	Each	for
5875	4	12c	\$1.15
5876	5	14c	1.25
6936	6	15c	1.35
10017	7 (small)	15c	1.45
11471	8 (octal)*	24c	2.30

Cliptite Sockets



Slotted metal plate.

Bakelite

No.	Prongs	Each	Your Cost
10978	4	7c	
10979	5	7c	
10980	6	7c	
10981	7 (small)	7c	
10982	7 (large)	7c	
11474	8 (octal)*	9c	

*For new METAL tubes.

No.	Prongs	Each	Your Cost
11903	4	24c	
11904	5	24c	
11905	6	24c	
11906	7 (small)	24c	
11907	7 (large)	29c	
23890	8 (octal)	29c	

Bakelite Wafer Sockets

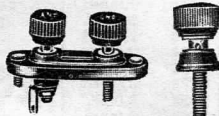


Standard-size sockets have 1 1/2" mounting centers. Midget-size sockets (used in compact A.C.-D.C. sets) have 1 1/4" mounting centers. Fine-quality bakelite with fast-grip contacts.



Standard Size				Midget Size			
No.	Prongs	Each	for	No.	Prongs	Each	for
8026	4	5c	47c	8101	4	5c	47c
8045	5	5c	47c	8102	5	5c	47c
8065	6	5c	47c	8103	6	5c	47c
8085	7 (small)	5c	47c	8104	7 (small)	5c	47c
8086	7 (large)	5c	47c	11473	8 (octal)*	7c	65c

Binding Posts



For all general purpose replacement or the new sets.

No.	Your Cost
5678	Blank Single Post \$0.10
4068	Twin Posts (Field) .15
6689	Twin Posts (A-G) .15
4106	Triple Posts .18

ISOLANTITE Sockets

Designed for short-wave work. Glazed top and sides.



No.	Prongs	Each	for
8105	4	25c	\$2.45
8106	5	25c	2.45
8107	6	27c	2.65
8108	7 (small)	29c	2.85
8109	7 (large)	29c	2.85
8110	8 (octal)*	35c	3.30

*For METAL tubes.

Base Mount Sockets

Molded black bakelite. Perfect bronze spring contacts. 1 1/2" mounting centers. Lug terminals.

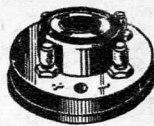


No.	Prongs	Each	for
5874	4	13c	\$1.25
5873	5	14c	1.35
6935	6	15c	1.45
7497	7 (large)	20c	1.95
10016	7 (small)	20c	1.95
11470	8 (octal)*	27c	2.60

*For METAL tubes.

Laboratory Sockets

Designed for laboratory use. Molded black bakelite with special phosphor-bronze springs and knurled posts.



No.	Prongs	Each	for
5675	4	12c	\$1.15
5676	5	12c	1.15
6937	6	12c	1.15
7499	7 (large)	12c	1.15
10018	7 (small)	12c	1.15
11469	8 (octal)*	45c	4.25

*For METAL tubes.

Tube Shield Base

A flange on top of socket binds the shield base to chassis without use of rivets or screws. Projecting lug on shield base. Fits all standard size shields. Cadmium-plated.

No. 10977—Base only	2c
Your Cost, Each	
Ten for	18c

Solderless Phone TIP

An item every serviceman wants. Insert wire, screw up knurled sleeve, and connection is made. Brass nickel plated.

No. 7185	4c
Your Cost	

Twin Jacks



No. 4059—Plain	
No. 4060—Phono	
No. 4069—Speaker	4c
Your Cost, Each	

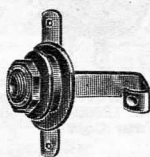
Tip Jack

Standard Phone Tip Jack. Nickel-plated with solder lug. Fits a quarter-inch hole and can pass through a panel 3/8" thick.

No. 5629	3c
Your Cost, Each	
Per Dozen	32c

Midget Jacks

OPEN CIRCUIT Quality made and will withstand rough use.



No. 5491	Your Cost
14c	
CLOSED CIRCUIT	14c
No. 7505—Your Cost	

Insulated Jack

For Phone Tips or Test Prods. Mounts on 1/4" hole.



No. 9048	4c
Your Cost, Each	

Spring Clamp Binding Posts



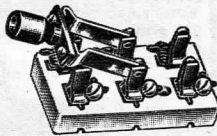
Nothing to twist or screw on these spring clamp binding posts. Just push down and insert wire. Makes strong positive contact.

No. 10471—"Antenna"	
No. 10472—"Ground"	5c
No. 10473—Blank	
Your Cost, Each	

Standard Phone Tip

Nickel-plated brass phone tips, standard size. No. 6531—Package of 12. Your Cost 4c Per 144 35c

Knife Switches



Porcelain Base

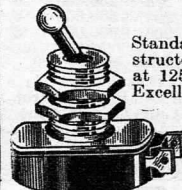
Glazed white porcelain bases, copper blades, screw lug connections. 125 volts at 25 amps.

No.	Type	Each	Box of 10
4159	S.P.S.T.	\$0.10	\$0.90
4177	S.P.D.T.	.12	1.08
4178	D.P.S.T.	.17	1.62
4179	D.P.D.T.	.19	1.80

Bakelite Base

No.	Type	Each	Box of 10
11513	S.P.S.T.	\$0.25	\$2.45
11514	S.P.D.T.	.32	3.15
11515	D.P.S.T.	.36	3.55
11516	D.P.D.T.	.44	4.35

Toggle Switches



Standard type toggle switches, ruggedly constructed for lasting service. Will carry 3 amps. at 125 volts. Furnished with two lock-nuts. Excellent for laboratory work.

"On-and-Off" Switch

Standard single-circuit make-and-break Mounting Sleeve 1/2".

No. 4112—Your Cost	15c
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Long Shank "On-Off"

Single circuit. Shank is 3/8" long and 1/8" diam.

No. 4110—Your Cost	18c
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Single Pole—Double Throw

Phono-Radio combinations, etc.

No. 4104—Your Cost	19c
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Rotary Switch

This is an exact replacement for Fada and A. C. Dayton receivers. Shaft is 1/4" in diam. and 1 1/2" long. Shank, 1/2" long. Approved by Board of Underwriters.

No. 5284—Your Cost	16c
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Double Pole—Double Throw

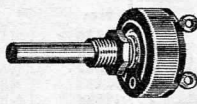
Heavy-duty toggle switch.

No. 4115	34c
Your Cost	

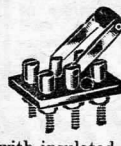
Two Way—Two Circuit

Makes one circuit and breaks the other. For test panels, analysers, etc.

No. 5285—Your Cost	29c
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Midget Knife Switches



For base or panel mounting. Black bakelite case. Highly nickel-plated brass parts with insulated handles.

Single Pole—Single Throw. Size of base 1 1/4" long and 1/2" wide.

No. 3911	9c
Your Cost	

Single Pole—Double Throw. Size of base 1 1/4" long and 1/2" wide.

No. 3910	15c
Your Cost	

Double Pole—Double Throw.

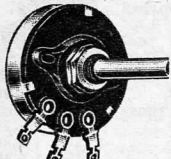
No. 3909	24c
Your Cost	

NOTE: We can quote of special switch not listed on this page to fill any special test requirements.

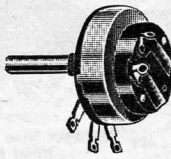
Standard VOLUME CONTROLS

ACRATEST

VOLUME CONTROLS



Carbon Type Tapered Potentiometers for every Circuit



Without Switch Your Cost **28¢** With Switch Your Cost **40¢**

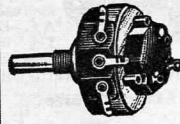
Fine quality replacement controls, properly tapered. Are all of potentiometer type, but can be used as rheostats by disregarding one terminal. Shafts are 2" long with 3/8" bushings. Quiet in operation. List fits every requirement.

Without Switch No.	Ohms Resistance	Type of Circuit	With Switch No.
10897	1000	Antenna Shunt.	10886
10898	2000	Antenna Shunt, "C" Bias.	10887
10899	5000	Antenna Shunt.	10888
10900	10000	Antenna Shunt, "C" Bias and Ant.	10889
11058	15000	Antenna Shunt, "C" Bias.	11057
10901	25000	Antenna Shunt "C" Bias and Ant.	10890
10902	50000	Screen Voltage or Tone Control.	10891
10903	75000	"C" Bias Control.	10892
10904	100000	Screen Voltage or Tone Control.	10893
10905	250000	Audio Shunt or Tone Control.	10894
10906	500000	Audio Shunt or Tone Control.	10895
10907	1 meg.	Audio Shunt or Tone Control.	10896

CLAROSTAT

Volume Controls

Wire Wound Ad-A-Switch

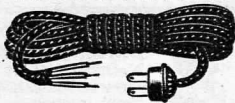


Case 1 3/8" diam., 3/4" thick. Single 3/8" hole mounting. Taper for circuit use: A—standard potentiometer; B—untuned antenna control; C—"C" bias control; D—antenna, "C" bias; E—antenna or R. F. coil control; F—screen-grid voltage.

No.	Ohmage	Your Cost Each	No.	Ohmage	Your Cost Each
7026	50A	40¢	3706	10,000A	51¢
3707	100A				
7028	200A				
7028	300A				
7029	400A				
3702	500A				
7030	750A				
3703	1,000A				
7031	1,000B				
7032	2,000A				
7033	2,000B	46¢	3708	15,000F	56¢
7034	2,000C				
3704	3,000A				
7035	3,000D				
7036	3,000C				
3705	5,000A				
7037	5,000D				
7038	5,000C				
7039	7,500A				
7040	7,500D				
7041	7,500C				
3709	25,000A	62¢	3710	40,000A	62¢
3711	50,000A				
3711	50,000A				

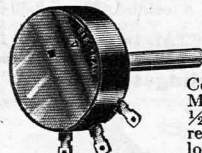
Switch Cover-Plate
Used to convert switchless units listed into switch units. List 50¢.
No. 6750
Your Cost **24¢**

Line Cord Resistors For A.C.-D.C. Sets



No. 8293—360 ohms. For 2-tube sets.
No. 8328—290 ohms. For 4-tube sets using 12-volt rectifier.
No. 8292—220 ohms. For 4-tube sets using 25-volt rectifier.
No. 8329—180 ohms. For 4-tube or 5-tube sets.
No. 8330—160 ohms. For 5-tube sets.
No. 8331—140 ohms. For 6-tube sets.
Your Cost, Each Any Type **31¢**

NOTE! We can supply replacement controls for any radio receiver made. If unacquainted with the Model Number, send us make of radio, tube line-up and approximate year of manufacture. Give as much information as possible. This includes dual controls.



New ELECTRAD Volume Controls

Controls up to 5000 ohms wire-wound. Molded bakelite case. Control extends only 1/2" behind panel. Metal end cover can be removed for snap-on switch. Comes with long shaft to be cut to proper size.

Snap-on Switch
Approved by Underwriters
No. 12000—List 50¢
Your Cost **29¢**

No.	Mfrs.	Ohms	Taper (see note)
12018	204	10	1
12038	269	20	2
12015	270	30	2
12016	271	50	2
12017	272	100	2
12020	273	200	2
12040	274	400	2
12050	282	600	2
12041	275W	800	2
12043	276	1000	2
12026	232	2000	2
12028	233	3000	2
12045	277W	4000	2
12031	234	5000	2
12053	278AS	5000	3

Standard Controls (less switch)
List Price \$1.00
Your Cost, Each **59¢**

No.	Mfrs.	Ohms	Taper (see note)
12103	560	7,500	3
12051	283	10,000	2
12033	240	10,000	3
12106	573	12,000	4
12010	201	15,000	3
12046	279	25,000	2
12047	280	25,000	5
12035	241	30,000	5
12019	205	50,000	2
12012	202	75,000	4
12036	242	100,000	2
12048	281	200,000	2
12024	208	250,000	6
12014	203	500,000	6
12022	206	1,000,000	6

Taper Note

- #1—Rheostat.
- #2—Uniform Potentiometer.
- #3—Antenna shunt or C Bias.
- #4—C Bias.
- #5—Audio Plate Control.
- #6—Audio Grid or Tone.

Power Cords for Reducing 220 Volts To 110 Volts For A.C.-D.C. Sets



Will convert receivers operating on 110 volts A. C.-D. C. for use on 220 or 250 volts A. C.-D. C. U. S. receptacle on one end, European plug on other.

340 ohms. For 220-volt operation of magnetic speaker sets drawing about 35 watts.
No. 10246
Your Cost **59¢**

440 ohms. For 250-volt operation of above set.
No. 10430
Your Cost **69¢**

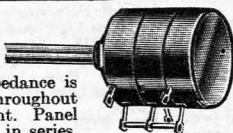
295 ohms. For 220-volt operation of dynamic speaker sets drawing about 42 watts.
No. 10431
Your Cost **63¢**

375 ohms. For 250-volt operation of above set.
No. 10432
Your Cost **69¢**

ELECTRAD T PADS & ATTENUATORS

"T" Pad Attenuator

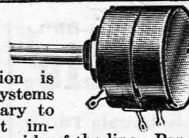
Constant impedance is maintained throughout the adjustment. Panel and rear unit in series, center unit is shunt resistor.



No.	Type	Imped. Ohms	Your Cost, Each
11824	TN15	15	\$2.06
11825	TN50	50	
11826	TN200	200	
11827	TN500	500	
11828	TN3000	3000	
11829	TN5000	5000	

"L" Pad Attenuator

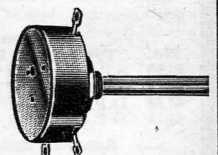
Practical application is found in input systems where it is necessary to maintain constant impedance to only one side of the line. Panel unit is series resistor, and rear unit is shunt resistor.



No.	Type	Imped. Ohms	Your Cost, Each
11830	LN15	15	\$1.47
11831	LN200	200	
11832	LN500	500	
11833	LN3000	3000	
11834	LN5000	5000	

ELECTRAD Type "U" Attenuator

Maintains constant impedance. For: phone-pickup control, magnetic speakers or headphones.

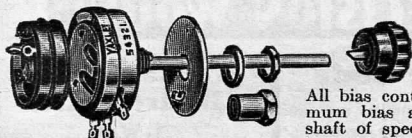


No.	Type	Line Imped. Ohms	Your Cost, Each
11835	U500	500	\$1.18
11836	U4000	4000	
11837	U10000	10000	

VOLUME CONTROLS AND RESISTORS

YAXLEY Volume Controls

Replacement for Over 3000 Set Models



All bias controls have minimum bias adjustment. 4" shaft of special alloy, easily cut to proper size. Knob adapter permits use of any type of knob. Extension bushing fits any control and extends through a 3/8" panel. Power switches easily attached. 500 to 15,000-ohm controls, wire-wound, rest carbon. A special plate is included so that control may be stopped at any degree of rotation. This feature eliminates any necessity of external resistor for minimum bias at loud volume.

Single Units		Dual Units	
No.	Ohmage	No.	Ohmage
10433	500	10441	25,000
10434	1,000	10442	50,000
10435	2,000	10443	100,000
10436	3,000	10444	250,000
10437	5,000	10445	500,000
10438	7,500	10446	1 Meg.
10439	10,000	10447	2 Meg.
10440	15,000		

Your Cost—List \$1
Any Type..... **59c**
S. P. S. T. Control Switch No. 10454
Your Cost..... **29c**

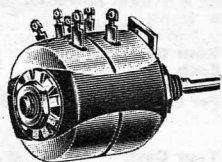
Dual Units	
No.	Ohmage
10448	200- 5,000
10449	2,000- 5,000
10450	10,000- 10,000
10451	10,000- 50,000
10452	500,000- 5,000
10453	500,000-500,000

List \$2.50
Your Cost, Any Type..... **\$1.47**
Other ohmages available.
S. P. D. T. Control Switch No. 10455
Your Cost..... **35c**

VICTOR Replacements

For Models R32, RE45, R52 and RE75

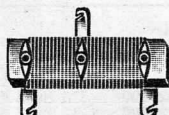
The Genuine Victor Volume Control. Designed to be absolutely trouble-proof and noiseless. Metal strap holds two units rigidly. Shpg. Wt. 1 lb. No. 7450
Your Cost..... **85c**



ACRATEST Wire - Wound C. T. Resistors

No.	Ohms	No.	Ohms	No.	Ohms
7344	6	7346	25	7348	90
4714	10	7347	30	7351	100
7345	15	7349	60		
4724	20	7350	80		

Your Cost, Each..... **8c**

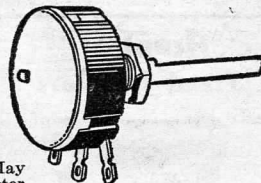


PRICES SLASHED!

Brand New: Guaranteed

Centralab

Improved Radiohms



Shaft 2 1/4" long, milled flat. May be cut to fit size needed. Diameter of controls only 1 3/8", with a resistance area of 1.025 sq. in. Patented non-rubbing contact. C-H power switch approved by Board of Underwriters.

No.	Ohmage	Taper	No.	Ohmage	Taper
12394	500	A	12363	25,000	F
12383	1,000	A	12378	25,000	B
12377	2,000	A	12379	50,000	A
12384	3,000	A	12393	50,000	G
12385	4,000	A	12406	75,000	F
12386	5,000	A	12359	75,000	G
12361	5,000	B	12380	100,000	A
12390	10,000	C	12398	100,000	H
12389	10,000	D	12396	200,000	H
12362	10,000	E	12417	200,000	F
12376	10,000	B	12397	250,000	H
12391	15,000	C	12381	500,000	H
12453	15,000	C	12382	500,000	A
12395	20,000	C	12360	500,000	J
12387	25,000	A	12392	1 meg.	H
12374	25,000	C	12399	3 meg.	H

Taper for usual Circuit Location: A—Voltage Divider; B—Antenna Shunt; C—Antenna, "C" Bias; D—Antenna, "C" Bias of 1 Tube; E—Antenna, "C" Bias of 2 Tubes; F—"C" bias; G—Tone Control; H—Audio Grid or Tone; J—Series in R. F. Plate.

Standard Radiohm	Switch Cover Plate
List \$1.00.	No. 9200—List 50c.
Your Cost, Each... 39c	Your Cost..... 20c

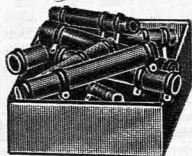
ATWATER - KENT Filament Resistors

For Models 61-70 D. C.



Exact replacement filament resistors for above receivers. Set of three resistors comprises: One resistor No. 16432 (No. 2), 35 ohms; one No. 16433 (No. 1), 680 ohms; one No. 16434 A. F. Filament shunt resistor, 300-300 ohms. No. 6008
Your Cost, Set of 3..... **95c**

Kit of Ten Voltage Dividers

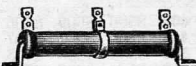


Here is a valuable kit to the serviceman and experimenter. Consisting of ten popular Voltage Dividers, many of them exact replacements for popular receivers, this kit should be part of every repair bench or tool kit. They run from 20 to 75 watts and at various ohmages, mostly tapped. These groups are priced low, but there aren't many of them. Orders will be filled only while this group lasts. This offer will not be renewed.
No. 15565
Your Cost, Kit of 10..... **49c**

NOTE: Voltage dividers on this page may be used for any receivers. Ascertain total ohmage and use taps to obtain voltages needed.

ACRATEST Variable Resistors

Replacement Voltage Dividers for All Radio Receivers



Designed to permit installation in any circuit. Wound on ceramic tubing and protected by a special process coating which is tough, rugged, and heat-resisting. Equipped with one extra slider and mounting brackets.

50 Watt Rating (4" long by 3/8" diam.)

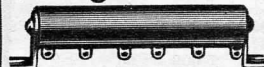
No.	Ohms	M.A.	Your Cost
9626	500	316	66c
9627	1,000	224	
9628	1,500	182	
9629	2,000	158	
9630	2,500	141	
9631	3,000	129	
9632	4,000	112	
9633	5,000	100	
9634	6,000	91	
9635	7,000	84	
9636	8,000	79	73c
9637	9,000	74	
9638	10,000	71	
9639	12,000	65	
9640	15,000	58	
9641	20,000	50	
9642	25,000	45	
9643	30,000	41	
9644	40,000	35	
9645	50,000	32	

75 Watt Rating (6" long by 3/8" outside diam.)

No.	Ohms	M.A.	Your Cost
9646	500	387	85c
9647	1,000	274	
9648	1,500	224	
9649	2,000	194	
9650	2,500	173	
9651	3,000	158	
9652	4,000	137	
9653	5,000	122	
9654	6,000	112	
9655	7,000	103	
9656	7,500	100	98c
9657	10,000	87	
9658	15,000	71	
9659	20,000	61	
9660	25,000	55	
9661	30,000	50	
9662	40,000	43	
9663	50,000	39	
10401	75,000		
10402	100,000		

Adjustable Slider Lugs
For use with the variable voltage dividers listed above.
No. 9757 Your Cost, Each..... **5c**

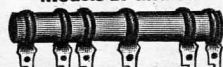
Adjustable Voltage Dividers



10,000 Ohms—50 Watts
Universal air-cooled voltage divider, provided with six sliding taps, for obtaining all required voltages. Length 4". Equipped with mounting brackets.
No. 3967
Your Cost..... **76c**

25,000 Ohms—50 Watts
Similar to above.
No. 3915
Your Cost..... **76c**

Genuine RCA-Radiola Voltage Divider for Models 17 and 50

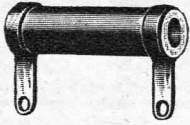


Also used in Victor Model 7-25. Total resistance is 8195 ohms, tapped at 1690, 205, 2140, 3750 and 410 ohms. 4 1/2" long. Rated at 60 watts. Can be used in many other receivers. Wt. 1 lb.
No. 3030
Your Cost..... **25c**

ACRATEST RESISTORS

CARBON AND PRECISION WOUND

ACRATEST Fixed Resistors



Vitreous covered, precision-wound on ceramic tubing. Wattage ratings are conservative and true.

10 Watt ($\frac{3}{8}$ " x $\frac{1}{4}$ ")

No.	Ohms	M. A.	Your Cost
9664	100	315	20c
9665	200	220	
9666	250	200	
9667	300	180	
9668	400	158	
9669	500	141	
9670	750	115	
9671	1000	100	
9672	1200	91	
9673	1500	81	
9674	2,000	70	
9675	2,500	63	
9676	3,000	56	
9677	5,000	45	
9678	7,500	36	
9679	10,000	31	
9680	12,000	29	
9681	15,000	26	
9682	20,000	22	
9683	25,000	20	

20 Watt ($\frac{1}{2}$ " x $\frac{2}{2}$ ")

No.	Ohms	M. A.	Your Cost
9684	100	447	32c
9685	250	282	
9686	400	224	
9687	500	200	
9688	750	163	
9689	850	153	
9690	1,000	141	
9691	1,250	126	
9692	1,500	115	
9693	1,850	104	
9694	2,000	100	
9695	2,500	89	

30 Watt ($\frac{3}{4}$ " x $\frac{4}{4}$ ")

No.	Ohms	M. A.	Your Cost
9696	3,000	81	37c
9697	3,500	75	
9698	5,000	63	
9699	7,500	51	
9700	10,000	44	
9701	12,500	40	
9702	15,000	37	
9703	25,000	28	
9704	35,000	24	

50 Watt ($\frac{3}{4}$ " x $\frac{4}{4}$ ")

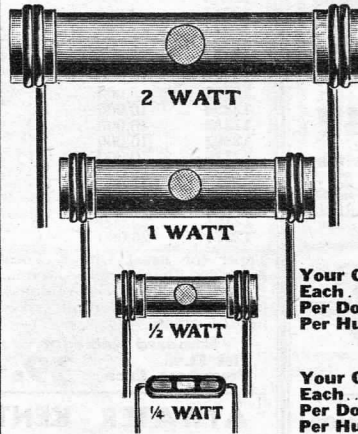
No.	Ohms	M. A.	Your Cost
9949	100	707	54c
9950	250	447	
9951	500	316	
9952	750	258	
9705	1,000	223	
9706	1,500	182	
9707	2,000	158	
9708	2,500	141	
9709	3,000	129	
9710	5,000	100	

70 Watt ($\frac{3}{4}$ " x $\frac{4}{4}$ ")

No.	Ohms	M. A.	Your Cost
9711	7,500	81	61c
9712	10,000	70	
9713	12,500	63	
9714	15,000	57	
9715	20,000	50	
9716	25,000	44	
9717	30,000	41	
9718	40,000	35	
9719	50,000	31	
9720	60,000	29	
9721	75,000	26	
9722	100,000	22	

Standard "RMA" Color Code

These resistors are guaranteed to be of the highest quality and are RMA color-coded for easy identification. They are precision-made of the finest materials. They are non-inductive, and consist of a strong, durable, solidly molded, non-hygroscopic glazed surface mass. They will remain constant in value despite the wide variety of temperatures and conditions encountered in radio work. Equipped with tinned wire leads force-fitted under high pressure to the element with a newly-developed process to insure permanency and a noiseless, positive connection. Better than 10% tolerance.



1/4-Watt
Your Cost, Each **4c**
Per Dozen **45c**
Per Hundred **\$3.75**

1/2-Watt
Your Cost, Each **5c**
Per Dozen **51c**
Per Hundred **\$4.23**

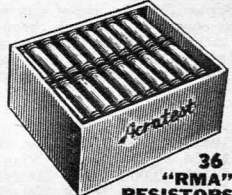
1-Watt
Your Cost, Each **6c**
Per Dozen **63c**
Per Hundred **\$4.94**

2-Watt
Your Cost, Each **10c**
Per Dozen **\$1.03**
Per Hundred **8.45**

Resistance Ohms	1/4-Watt No.	1/2-Watt No.	1-Watt No.	2-Watt No.
100	8500	8600	8700	8800
150	8501	8601	8701	8801
200	8502	8602	8702	8802
250	8503	8603	8703	8803
300	8504	8604	8704	8804
350	8505	8605	8705	8805
400	8506	8606	8706	8806
450	8507	8607	8707	8807
500	8508	8608	8708	8808
600	8509	8609	8709	8809
650	8510	8610	8710	8810
700	8511	8611	8711	8811
750	8512	8612	8712	8812
875	8513	8613	8713	8813
1000	8514	8614	8714	8814
1250	8515	8615	8715	8815
1500	8516	8616	8716	8816
1750	8517	8617	8717	8817
2000	8518	8618	8718	8818
2250	8519	8619	8719	8819
2500	8520	8620	8720	8820
3000	8521	8621	8721	8821
3500	8522	8622	8722	8822
4000	8523	8623	8723	8823
4400	8524	8624	8724	8824
5000	8525	8625	8725	8825
6000	8526	8626	8726	8826
7000	8527	8627	8727	8827
7500	8528	8628	8728	8828
8000	8529	8629	8729	8829
9000	8530	8630	8730	8830
10000	8531	8631	8731	8831
12500	8532	8632	8732	8832
15000	8533	8633	8733	8833
17500	8534	8634	8734	8834
20000	8535	8635	8735	8835

Resistance Ohms	1/4-Watt No.	1/2-Watt No.	1-Watt No.	2-Watt No.
22500	8536	8636	8736	8836
25000	8537	8637	8737	8837
30000	8538	8638	8738	8838
35000	8539	8639	8739	8839
40000	8540	8640	8740	8840
45000	8541	8641	8741	8841
50000	8542	8642	8742	8842
60000	8543	8643	8743	8843
70000	8544	8644	8744	8844
75000	8545	8645	8745	8845
80000	8546	8646	8746	8846
90000	8547	8647	8747	8847
100000	8548	8648	8748	8848
125000	8549	8649	8749	8849
150000	8550	8650	8750	8850
180000	8551	8651	8751	8851
200000	8552	8652	8752	8852
250000	8553	8653	8753	8853
350000	8554	8654	8754	8854
400000	8555	8655	8755	8855
500000	8556	8656	8756	8856
600000	8557	8657	8757	8857
750000	8558	8658	8758	8858
1 Meg.	8559	8659	8759	8859
1.5 Meg.	8560	8660	8760	8860
2 Meg.	8561	8661	8761	8861
2.5 Meg.	8562	8662	8762	8862
3 Meg.	8563	8663	8763	8863
3.5 Meg.	8564	8664	8764	8864
4 Meg.	8565	8665	8765	8865
5 Meg.	8566	8666	8766	8866
6 Meg.	8567	8667	8767	8867
7 Meg.	8568	8668	8768	8868
8 Meg.	8569	8669	8769	8869
9 Meg.	8570	8670	8770	8870
10 Meg.	8571	8671	8771	8871

Carbon Resistor Kits 1 Watt



Contains two each of the resistors mentioned below and described elsewhere on this page. As can be noticed, the ohmages selected are those encountered in every-day radio repair work. Having the proper resistor on hand at a moment's notice might mean dollars in savings. in this kit:—

Ohms	Ohms	Ohms	Ohms	Ohms
1000	7500	20000	100000	1 Meg.
2000	10000	25000	250000	3 Meg.
3000	12500	40000	500000	5 Meg.
5000	50000	75000		

No. 9149 Your Cost **\$1.79**

33 "RMA" RESISTORS

Contains 33 One-Watt RMA (Radio Manufacturers' Association) Color-Coded Resistors. This kit has an evenly distributed variety, with a few odd sizes so often needed, especially as Cathode Resistors. When purchasing either this kit or the one described above, ask for the Aluminum "RMA" Color Code described above. It is presented free with either of these two kits. This kit consists of one each of the following resistors:—

Ohm	Ohm	Ohm	Ohm	Ohm	Ohm
100	750	3000	15000	75000	1 Meg.
150	1000	3500	20000	100000	2 Meg.
200	1250	4000	25000	150000	3 Meg.
300	1500	5000	30000	200000	
400	2000	7500	40000	250000	
500	2500	10000	50000	300000	

No. 3507 Your Cost **\$1.69**

"RMA" Coded Scale



Made of aluminum. Any value is obtained by twirling three discs to proper colors. This handy instrument given free with any purchase of a Resistor Kit. Specify on order. No. 7432 Your Cost **10c**

FREE
A Pocket Size "RMA" Color Code Chart with every purchase. Just include on your order blank when ordering.

OHMITE WIRE WOUND RESISTORS

Wire-Wound Resistors



Covered with a special high-temperature refractory cement which protects wire from injury, **even though red heat is reached.** Accurate and thoroughly dependable in operation. 10-Watt, 1 1/2" long. 20-Watt, 2" long.

10-Watt Rating			
No.	Ohms	No.	Ohms
10247	50	10261	900
10248	75	10262	1,000
10249	100	10263	1,200
10250	150	10264	1,250
10251	200	10265	1,500
10252	250	10266	1,750
10253	300	10267	2,000
10254	350	10268	2,250
10255	400	10269	2,500
10256	500	10270	3,000
10257	600	10271	3,500
10258	700	10272	4,000
10259	750	10273	4,500
10260	800	10274	5,000
10275	6,000	10276	7,000
10277	7,500	10278	8,000
10279	9,000	10280	10,000
10281	12,000	10282	12,500
10283	15,000	10284	17,500
10285	18,000	10286	20,000
10287	22,500	10288	25,000

Your Cost Each, Any Value **24c**

20-Watt Rating					
No.	Ohms	Mils	No.	Ohms	Mils
10289	30,000	25	10292	45,000	21
10290	35,000	23	10293	50,000	20
10291	40,000	22			

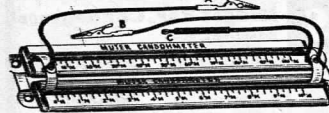
Your Cost, Each **44c**

No.	Ohms	Mils	No.	Ohms	Mils
10294	55,000	19	10299	80,000	15
10295	60,000	18	10300	85,000	15
10296	65,000	17	10301	90,000	14
10297	70,000	16	10302	95,000	14
10298	75,000	17	10303	100,000	14

Your Cost Each **59c**

NOTE: The complete OHM-ITE line of resistors contains many items not listed on this page. These can be furnished at a discount of 40% and 2% from list prices. Write for our complete OHMITE listing, and it will be forwarded at once.

MUTER Candohmeter Indicator



Determines the proper value to replace a defective resistor. Used as a voltmeter multiplier, enabling measurement of high voltages with a low-range voltmeter. Can be used as a calibrated resistor in experimental work. A test-prod, mounted in an insulated handle, is furnished with each Candohmeter. They are packed in individual boxes, 1 3/4" x 1" x 7 1/2", with full instructions.

Dual Unit	
Range	Price
0-10,000 and 0-100,000	\$2.50
No. 9620—List	\$1.18
Your Cost	
Single Unit—Range 0-100,000	
No. 9621—List	\$2.00
Your Cost	\$1.03

NOTE: Resistors described in as replacements in radio receivers. If you are in doubt as to the proper value of a resistor, send all information to Model No. of the receiver and circuit to our Technical Division.

1-Watt "Wirewatt" Resistors



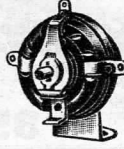
Wound on a core of special insulating material. Overall length 1 1/8", 1 1/2" tinned soldering leads.

1-Watt Rating			
No.	Ohms	No.	Ohms
10304	100	10318	1,000
10305	125	10319	1,100
10306	150	10320	1,200
10307	200	10321	1,250
10308	250	10322	1,500
10309	300	10323	1,750
10310	350	10324	2,000
10311	400	10325	2,250
10312	500	10326	2,500
10313	600	10327	3,000
10314	700	10328	3,500
10315	750	10329	4,000
10316	800	10330	4,500
10317	900	10331	5,000
10332	6,000	10333	7,000
10334	7,500	10335	8,000
10336	9,000	10337	10,000
10338	12,500	10339	15,000
10340	16,000	10341	17,500
10342	18,000	10343	20,000
10344	22,500	10345	25,000

Your Cost Each, Any Value **15c**

OHMITE 3-Point Band Switch

Designed for band switching in transmitters. Porcelain construction, high tension insulation. Three contacts, silver-plated. **Widely spaced makes this the finest band-change switch ever manufactured.** Floating shoe contact on arm. Single-hole mounting. May be ganged for "single-control" by use of 1/4" shaft coupling, insulated.



No. 11548 Your Cost **\$1.76**

Candohms for A. C. and D. C. Sets



These are Genuine Candohm replacement voltage dividers as used originally in the receivers mentioned below. Candohms not listed below can be obtained on special order for any A. C.-D. C. set.

Mfg. Part No.	Resistance Ohms	Your Cost
BELMONT RADIO		
R-258	350	9551 20c
R-261	1500-25000-150-350	9552 68c
R-266	6000-6000	9553 40c
R-278	7500-200	9554 29c
1055	10000-7000-2000	9555 50c
1056	12000-6000-9000	9556 59c
CROSLY RADIO		
20176B	10-10-10-860	9490 49c
20452B	320-325-2000-1750	9491 68c
20909	10000	9492 49c
22574	3000-2150-1220-45	9493 59c
22574A	1790-2150-1220-45	9494 59c
28755A	246-28	9495 78c
EMERSON RADIO		
HR-36	310	7676A 29c
HR-38	1500	9496 19c
XR-95	38-38-150	9953 50c
ZR-104	10000	9954 29c
AAAR115D	15000-12500	9955 59c
GRIGSBY-GRUNOW RADIO		
7818	2000-140-500	9497 39c
8292	2000-350-500	9498 39c
9239	7000-400-3000-300	9499 68c
10252	10000	9500 29c
8705	400-100	9557 20c
10145	408-134-1800-360-9000-10000	9558 69c
10535	300-1500-000	9559 39c
11953	63-51	9560 40c
HALSON RADIO		
6700	2000-500-300-200	9561 40c
6701	5000-500-1000-600	9562 50c
INTERNATIONAL RADIO		
R-302	1500	9501 19c
R-303	310	7676B 29c

IRC Metallized and New Insulated RESISTORS

Metallized Resistors



"Type F"—1 Watt

Type "F" Metallized Resistors are comparatively non-inductive. Ideal for exacting requirements, such as in super-heterodyne oscillator circuits, AVC Filter circuits, or as grid leaks across R. F. Tubes. Satisfactory for all ordinary radio uses. Resistors listed below are 1 watt.

No.	Ohms	No.	Ohms	No.	Ohms
10346	500	10356	15,000	10366	200,000
10347	1,000	10357	17,500	10367	250,000
10348	1,500	10358	20,000	10368	300,000
10349	2,000	10359	25,000	10369	400,000
10350	2,500	10360	30,000		
10351	3,000	10361	40,000	10370	Meg.
10352	4,000	10362	50,000	10371	1/2
10353	5,000	10363	75,000	10372	1
10354	8,000	10364	100,000	10373	2 1/2
10355	10,000	10365	150,000	10374	3 1/2

Your Cost Each **12c**

Metallized INSULATED Resistors Type "B" 1 Watt



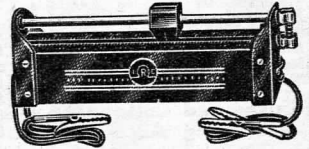
Small, light, high-voltage insulation enables use anywhere — famous Metallized resistance element SEALED in moisture-proof insulating material—extreme ruggedness—More effective length of wire leads. Noise-free, crack-proof and trouble-free. Both color-coded and individually marked with resistance value and wattage rating.

No.	Ohms	No.	Ohms	No.	Ohms
11660	500	11670	15,000	11680	200,000
11661	1,000	11671	17,500	11681	250,000
11662	1,500	11672	20,000	11682	300,000
11663	2,000	11673	25,000	11683	400,000
11664	2,500	11674	30,000		
11665	3,000	11675	40,000	11684	Meg.
11666	4,000	11676	50,000	11685	1/2
11667	5,000	11677	75,000	11686	1
11668	8,000	11678	100,000	11687	2 1/2
11669	10,000	11679	150,000	11688	3 1/2

Your Cost Each **15c**

IRC Dual Resistance Indicator (Fuse Protected)

Quickly indicates the proper resistance value for Best results in any circuit. Enables you to check "dead" and "changed" resistors. Useful for determining correct resistance values for volume controls. Two scales permit accurate readings from 100 to 100,000 ohms. Range may be extended indefinitely by adding fixed resistors in series. Convenient fuse guards resistance strips from accidental overload. Indicator has sturdy metal case, ball-bearing slide, convenient tapered clips, etc. Shpg. Wt. 2 lbs.



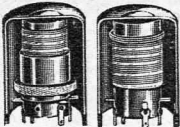
No. 10375—List Price \$4.50 Your Cost **\$2.70**

R.F. COILS

ACRATEST

I.F. COILS

S.-W. & Broadcast Litz-Wound Coils



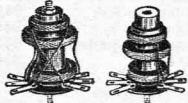
Tunes
120-200
200-545
Meters

For use with 365 mmfds. condenser. Can 1 1/8" x 2 1/4" high with spade bolts 1 3/4" apart. Shielded high-impedance primary. Tap on secondary for short-wave coverage. Coil 1" x 2 1/4" long. Bank wound Litz. With diagram showing connections.

No. 11008—Antenna Coil.
No. 11009—R. F. Coil.
Your Cost, Each **47c**

S.-W. & Broadcast Unshielded Coils

80-550
Meters
in 2
Bands.



High-gain. Lateral winding. Wound on special dowels 1/2" x 1 1/2" long. Uses .003365 mfd. Variable condenser. Wiring diagram showing coil connections included.

No. 11006—Antenna Coil.
No. 11007—R. F. Coil.
Your Cost, Each **59c**

Shielded Litz-Wound R. F. and Antenna Coils

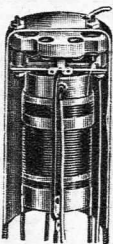
175 to 550 Meters
Low Impedance

No. 11018—Antenna Coil.
No. 11019—R. F. Coil.
Your Cost, Each **31c**

High Impedance

No. 11020—Antenna Coil.
No. 11021—R. F. Coil.
Your Cost, Each **38c**

Composite Units



High-gain composite coil used as combination I. F. and oscillator. Finds popular use in 5- and 6-tube super-heterodyne receivers. Top tuning. This unit is furnished in 175 Kc. and 456 Kc. frequencies, mounted in a shield, 1 1/8" in diameter by 3 1/4" in height. Equipped with two spade-mounting bolts.

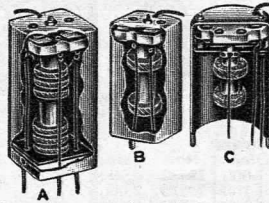
No. 9428—175 Kc.
No. 11017—456 Kc.
Your Cost, Each **\$1.25**

Cushioned Condenser Mounting Assembly



Consists of a spade mounting bolt, gum rubber grommet, cup washer and nut.

No. 10609 Your Cost, Each **4c**



ACRATEST I.F. Transformers

High-gain, precision-wound I. F. Transformers for set builder or general replacement. Litz wire used where improved results are obtained. 465 Kc. coils can be padded for use in circuits requiring 456 Kc. coils. All connections except gridcap lead. Wiring diagram with each unit.

Type "A" De Luxe
(Size 1 1/4" x 5" high)
Double Tuned
(Mounting Centers 1 1/4")
No. 10025—456 Kc.
No. 11000—380 Kc.
Your Cost, Each **\$1.19**

Type "C" Large
(Size 2 1/2" x 3" high)
Double Tuned
(Mounting centers 1 1/2")
No. 5358—175 Kc.
No. 6612—465 Kc.
Your Cost, Each **67c**

Type "B" Medium
(Size 1 1/2" x 3" high)
Double Tuned
(Mounting Centers 1 1/2")
No. 9433—175 Kc.
No. 11001—262 Kc.
No. 9435—465 Kc.
Your Cost, Each **73c**

Type "B" Medium
(Size 1 1/2" x 2 1/2" high)
Singed Tuned
No. 11002—175 Kc.
No. 11003—465 Kc.
Your Cost, Each **69c**

Center Tapped Secondaries For Use with Wunderlich, 55's, 75's, etc.

Type "C" Large
No. 7313—175 Kc.
No. 7758—465 Kc.
Your Cost, Each **85c**

Type "B" Medium
No. 9434—175 Kc.
No. 9436—465 Kc.
Your Cost, Each **95c**

Antenna and Oscillator Coils for Super Hets



Lateral-wound Oscillator and Antenna coils for superhets. Coils can be used separately if desired, or can be used in pairs. These coils make ideal replacements for standard sets. Broadcast coils wound on a dowel, 1/2" x 1 1/2" long. Broadcast: short-wave coils, wound on a dowel, 3/8" x 1 3/8" long. Instructions and diagram with each coil. Broadcast coils cover 1500 to 550 Kc. and combination short-wave and Broadcast cover, 1500 to 550 Kc. and 4000 to 1500 Kc.

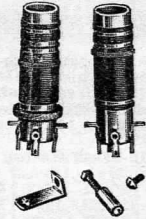
No. 11022—Antenna Coil
Your Cost, Each **42c**

Broadcast Oscillator Coils
No. 11024—175 Kc.
No. 11025—465 Kc.
Your Cost, Each **49c**

No. 11023—Short-Wave and Broadcast Coil
Your Cost, Each **57c**

Short-Wave & Broadcast Oscillator Coils
No. 11026—175 Kc.
No. 11027—465 Kc.
Your Cost, Each **65c**

Unshielded Antenna and R. F. Coils

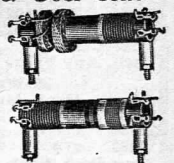


75-550 Meters
For use with 365 mmfds. condenser. High-impedance primary. Shunt winding for short-wave coverage. Coil 1 1/2" x 2 1/2" long. With mounting bracket as shown. Connections on lugs.

No. 11004—Antenna Coil.
No. 11005—R. F. Coil.
Your Cost, Each **33c**

Unshielded Antenna R. F. & Osc. Coils

15-55 and 200-550 Meters



For use with 365 m m f d s . condenser. With wiring diagram.

No. 11010—R. F. Coil.
No. 11011—Antenna Coil.
Your Cost, Each **69c**
No. 11012—Oscillator Coil.
Your Cost, Each **59c**

Unshielded Antenna and R. F. Coils

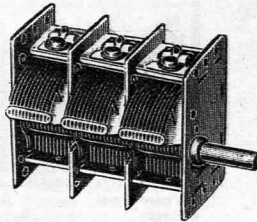
175-550 Meters
3/8" diameter, 2 1/4" long. For use with 365 mmfd. condenser. Diagram supplied.

High Impedance
No. 11013—Antenna Coil.
No. 11014—R. F. Coil.
Your Cost, Each **34c**
Low Impedance
No. 11015—Antenna Coil.
No. 11016—R. F. Coil.
Your Cost, Each **27c**

Variable Condensers

Precision Variable Condensers T.R.F. and Supers

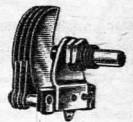
These precision-built condensers embody all of the latest improvements in condenser design. The R.F. sections have capacities of 365 mmfd. each section. Superhet condensers have special tracking sections. Condenser meshes to the right (clockwise). Shafts are 3/8" diam., 1 1/4" long. Ball bearing mountings for shafts.



No.	Gangs	Depth	Description	Wt. lbs.	Your Cost
5359	2	2 1/2"	For Straight T.R.F.	3	\$1.03
5360	3	3 3/8"	For Straight T.R.F.	4	1.50
5361	4	4 1/2"	For Straight T.R.F.	5	2.03
5292	2	2 1/2"	For Superhets (175 Kc.)	3	1.03
5293	3	3 3/8"	For Superhets (175 Kc.)	4	1.50
5294	4	4 1/2"	For Superhets (175 Kc.)	5	2.03
"High Shield"					
5720	2	2 1/2"	For Straight T.R.F.	2	.84
5721	3	3 3/8"	For Straight T.R.F.	3	1.23
5722	4	4 1/2"	For Straight T.R.F.	4	1.95
9975	2	2 1/2"	For Superhets (456 Kc.)	2	.84
9977	3	3 3/8"	For Superhets (175 Kc.)	3	1.23
9978	4	4 1/2"	For Superhets (175 Kc.)	4	1.95
"Low Shield"					

Midget Var. Condensers

Excellent for use as padding or trimming condensers, for tuning or regeneration control in short-wave receivers, etc. The plates are of heavy aluminum and are mounted on a brass shaft and brass studs. The shaft diameter is 1/4" in diam.



No. Cap. Mmfd. Your Cost
9971 15 \$0.32
9972 30 .32
23520 40 .40
5252 60 .44
5258 100 .48
9974 140 .56

Midget Trimmers

Made of bakelite and mica. Adjusting screw.



No. Plates Capacity Your Cost
11528 3 12-60 mmfd. \$0.19
11529 2 4-28 mmfd. .15
11530 2 4-22 mmfd. .14
11531 2 2-36 mmfd. .14
11532* 2 2-36 mmfd. .15
*Made on ceramic.



DIALS-KNOBS-PILOT LIGHTS



2 1/2" Airplane Dial

Bronze-finished escutcheon is 3 1/4" outside diameter. Fits 3/8" condenser shaft. Standard 1/4" shaft for knob. Distance between shaft centers is 2". Has dual translucent scale and two pilot lamp sockets.

Double pointer and condenser shaft turn in same direction but opposite to knob. Dial is covered with convex glass. Tapped holes provide easy mounting method. Excellent for use on midset sets or as a replacement for older type dials. Shpg. Wt. 1 lb. **No. 11202**
Your Cost... 55c

Full Vision Dials

Translucent celluloid strip, 100 to 0 clock-wise. Illuminated from rear. Furnished with escutcheon-plate and pilot-light socket. Outside diam. of dial 3 3/8"

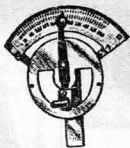
No. 4041—for 3/8"-condenser-shaft.

No. 4128—for 1/4" condenser-shaft.

Your Cost

Either

Type



65c

5-Inch Airplane Dial



Escutcheon is 6" overall and is bronze finished. Fits 3/8" condenser shaft and has 1/4" shaft for knob. Distance between shaft centers is 3 1/2". Has **translucent dial face** with scales calibrated from 500 kilocycles to 16 megacycles. **Two pilot lamp sockets attached** so as to eliminate shadows. Double pointer turns in same direction with condenser shaft but opposite to knob. Tapped holes allow easy mounting on chassis or on a bracket. Broadcast, amateur, police, and foreign bands clearly indicated. **No. 23710**
Your Cost... \$1.95

Midget Fan Dials

Compact with translucent strip and pilot-light socket. Attractive bronze escutcheon plate. 3" diam. 3/4" high, 3/4" deep. For 3/8" shaft.

Complete with socket and escutcheon plate. **No. 6911**
Your Cost... 51c



4-Inch Airplane Dial

Bronze-finished escutcheon, 4 3/4" in diameter. 1/4" shaft for knob. Fits 3/8" condenser shaft. 2 3/4" between shaft centers. Has four scales on the translucent dial face. One scale 0-100, one 100-0, one 550-1500 kilocycles and one 200-545 meters. Double pointer and two dial lamps. **No. 15591**—Shpg. Wt. 2 lbs.
Your Cost... 98c



Fan Type Dials

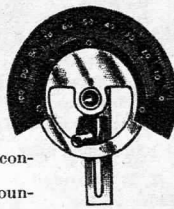
Knob shaft 1/4", 5/8" long. Escutcheon 2 3/8" wide, 2 3/4" high. Complete with escutcheon-plate and pilot-light socket. Replacement on old sets ideal.

No. 6904—100 to 0 condenser clockwise.

No. 10784—0 to 100 counter-clockwise.

Your Cost

Either Type



56c

Air Cell Pilot Bulbs

Draws only .06 amp. at 2 volts. **No. 10976**
Your Cost, Each... 20c
Ten for... \$1.75

Pilot Lamp for Victor and Colonial Receivers

No. 4224—110 Volt, Frosted
Your Cost, Each... 17c

Bayonet Base

No. 4083—2.5 V.

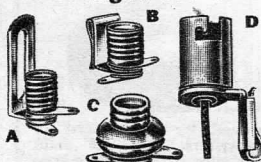
No. 4084—6.3 V.

Box of 10

Your Cost, Either Type... 79c



Pilot Light Sockets



(A) No. 4076. (B) No. 6571.

(C) No. 4077

Your Cost, Each... 5c

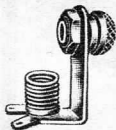
Per Dozen, Any Type... 49c

(D) Bayonet Socket

No. 4082

Your Cost... 6c

Per Dozen... 60c



Pilot Brackets

Min. Base

No. 9132—Red

No. 9133—Green

No. 10539—Crystal

Candelabra Base (110 v.)

No. 9134—Red Jewel

No. 9135—Green Jewel

No. 10540—Crystal Jewel

No. 9136—Amber Jewel

Your Cost, Any Type, Each... 16c

MAZDA Pilot Lights

Long life. Will not burn out after short use.

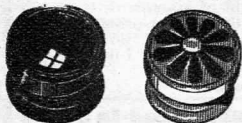
No. 3665	Volts 2.5
3675	6.3
Your Cost	
Carton of 10... 53c	
No. 3666 —3.2 volts	

Your Cost, Carton of 10... 69c

Independent Make

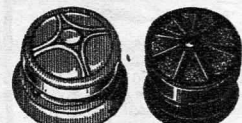
No. 3676	Volts 2 1/2	Carton of Ten
3699	3.2	Your Cost
3677	6.3	Cost... 29c

Genuine Walnut Wood Carved Knobs



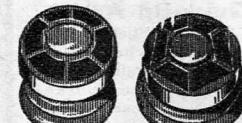
Dia. 1 1/4"
No. 3565

Dia. 1 3/8"
No. 3215



Dia. 1 1/2"
No. 3380

Dia. 1 5/8"
No. 3716

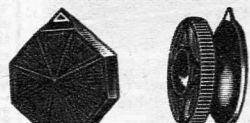


Dia. 1 3/4"
No. 3552

Dia. 1 7/8"
No. 3717

Your Cost, Each Any Type... 9c
Per Dozen... 99c

Miniature Knobs for A. C.-D. C. Receivers



Round Shape

Without Pointer With Pointer

No. 10074 **No. 10075**

Your Cost, Either Type... 5c

Hexagon Shape, with Pointer

No. 10076—**Your Cost... 6c**



Bakelite Bar Knob



Your Cost Each Per Dz.

No. 10072	Size 2 1/4"	\$0.10	\$1.08
10073	1 1/4"	.09	.98

Close-Fitting Tube Shields

Type ST-12 fits 57, 58, 2A7, and similar tubes. Type ST-14 is for larger tubes such as 2A4, 35, 51, etc. Two parts, fit snugly around tube; held in place by clamp ring.

Type ST-12 **Type ST-14**
No. 9028 **No. 9029**
Your Cost
Either Type... 7c

Coil Shields

With Detachable Base



A sturdy shield, made of aluminum. 2 1/2" x 3" high. **No. 9026**

Your Cost 15c

Same as above, but 2 3/4" x 3 3/4" high. **No. 9027**

Your Cost... 18c

3-Piece Tube Shield

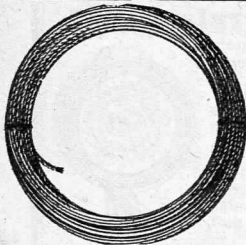
For tubes having the S. T. 12-size bulb. They are thoroughly ventilated to allow dissipation of heat, yet perform very effective shielding. Overall height is 4 1/2" and diameter is 1 3/8".

No. 7173—Mounting centers 1 3/8"
No. 10885—Mounting centers 1 1/2"
Your Cost, Each... 9c

Large Coil Shield

3 3/4" high with a diameter of 2 1/2". Mounting flange and drilled end holes.
No. 10676
Your Cost... 19c

ANTENNA KITS AND EQUIPMENT



Aerial Wire

A complete selection of wire suitable for any antenna. The wire is of the highest-grade copper and is cut to the exact length and gauge as specified. The bare copper wire is suitable for general receiving use while the enamel wire will not crack or peel and is very efficient for installation in deluxe antenna systems and for transmitters.

Bare Copper Wire

7/27 Stranded
No. 11395—75 feet **13c**
 Your Cost
 Lots of 10, Each.....12c
 Lots of 50, Each.....11c
 Lots of 100, Each.....10c

7/27 Stranded
No. 11396—100 feet **15c**
 Your Cost
 Lots of 10, Each.....14c
 Lots of 50, Each.....13c
 Lots of 100, Each.....12c

7/24 Stranded
No. 11397—75 feet **19c**
 Your Cost
 Lots of 10, Each.....18c
 Lots of 50, Each.....17c
 Lots of 100, Each.....16c

7/24 Stranded
No. 11398—100 feet **22c**
 Your Cost
 Lots of 10, Each.....21c
 Lots of 50, Each.....20c
 Lots of 100, Each.....19c

7/22 Stranded
No. 11399—75 feet **25c**
 Your Cost
 Lots of 10, Each.....24c
 Lots of 50, Each.....23c
 Lots of 100, Each.....22c

7/22 Stranded
No. 11400—100 feet **29c**
 Your Cost
 Lots of 10, Each.....28c
 Lots of 50, Each.....27c
 Lots of 100, Each.....26c

Enameled Copper Wire

Antenna wire of the highest quality, ideally suitable for low-loss antennas both for receiving and transmitting. Enamel is weather resisting and stops all forms of corrosion.

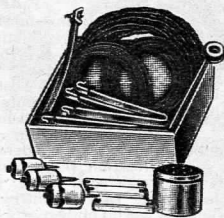
No. 14 Solid
No. 4416
Your Cost, 100-ft. Coil **31c**
No. 4475—1000 ft.
Your Cost **\$2.90**

100-FT. COILS
7/22 Stranded
No. 4421
Your Cost, Each **39c**
Lots of 10, Each **37c**

No. 12 Solid
No. 4503
Your Cost, Each **46c**
No. 4504
Your Cost **\$4.49**
1000-ft. Coil

All-Wave Antenna System With Universal Coupler

Contains everything supplied in more expensive kits, yet offered at a price that can turn over a large profit. The Kit includes: 2 40-ft. coils of No. 14 solid enameled wire, 1 50-ft. twisted-pair transmission line, 1 universal DeLuxe coupler, and all of the associated insulators, hardware and necessary parts for a complete installation. A complete set of instructions supplied, making installation a simple matter in any location. This antenna is non-directional and requires no receiver change.



No. 11205—Shpg. Wt. 4 lbs. **\$1.30**
 Your Cost

Lead-In Wire



No. 17—Heavy rubber covered solid copper wire.

No.	Ft.	Your Cost
4403	50	\$0.18
4404	100	.33
4400	1000	3.19

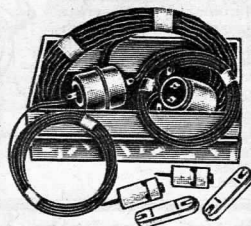
Quality Lead-In Wire



Approved by the Board of Underwriters. **No. 14** solid copper wire with heavy waxed braid insulation.

No.	Ft.	Your Cost
4573	100	\$0.78
4574	500	3.75

TACO All-Wave Antenna System



Consists of antenna and set transformers, 60 ft. wire, soldered to ant. transformer, 75 ft. transmission line, 2 nail-it knobs, 2 insulators. Full instructions supplied. Shpg. Wt. 5 lbs.

No. 11418
Your Cost **\$3.97**
 Antenna Transformer, only.
No. 11419—Your Cost. **\$.132**
 Set Transformer, only.
No. 11420—Your Cost. **\$.147**

Lead-In Strips



A fully insulated lead-in strip equipped with Fahnestock clips at both ends and soldered.
No. 4208—Black **4c**
No. 10541—White
Your Cost, Each **\$1.85**
50 for



Lead-in strips with screw terminals. Available in black only.
No. 10910
Your Cost **5c**
100 for **\$4.50**

Universal Coupler



Universal Coupler permits the use of an ungrounded transmission line with any type, either all-wave or dual-wave, without sacrificing any of the stability

which grounding sometimes provides. Mounts anywhere near the receiver. It inductively couples the transmission line or lead-in to the receiver. No changes necessary in the radio receiver.
No. 8020
Your Cost **38c**

AERIAL Accessories

Glass Insulators



Insulators made of the highest quality special treated glass. Very low leakage loss, even when wet.

No.	Size	Your Cost	Each	per 100
2769	3"	\$0.03	\$2.45	
10070	4"	.03½	3.35	
10071	5"	.09	7.99	

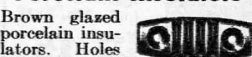
Nail-It Knobs



Glazed white porcelain round insulators. Separable cap with base. Ideal for aerial or lead-in wire. Assembled together with nail having leather washer under head.

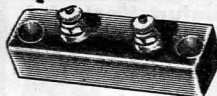
No. 2767
Your Cost, Each **2c**
Per 100 **\$1.55**

Porcelain Insulators



Brown glazed porcelain insulators. Holes at each end. 2½" long.
No. 10909
Your Cost, Each **2c**
100 for **\$1.70**

Special Arrester



A dependable air-gap type arrester, approved by the Fire Underwriters. Suitable for any radio installation.
No. 4209—Your Cost... **7c**
10 for **65c**

Ground Clamps



A heavy copper ground clamp with Fahnestock clip for connecting to ground lead, and heavy bolt and nut for tightening. Can be securely fastened to assure positive grounding.
No. 4251—Your Cost... **3c**
50 for **\$1.20**

GRIP-TITE Ground Clamp



Vise-grip hardened steel frame. Bites through rust, corrosion, paint and foreign matter of all kinds. 1½" opening.
No. 4212—Your Cost... **4c**

Aerial Spring Adjuster



Keeps antennas straight and tight. Prevents sag due to weight of antenna or transmission lines. Rust-proof construction. Porcelain insulation at ends. Shpg. Wt. 1 lb.
No. 10198
Your Cost **29c**

Doublet Lead-In Strips



Consist of two Duco-lacquered weather-proof lead-in strips. Held parallel to each other with two bakelite strips riveted at the ends. Ideal for doublet lead-ins to prevent shorting.
No. 11475
Your Cost, Pair **9c**

Quick-Up Aerial



Sticks instantly wherever installed. For use along base-boards, mouldings, etc. Also for car radio use.
No. 4575
Your Cost, Each **36c**
Dozen for **\$3.89**

BATTERIES

New BURGESS Portable "B" Batteries 45-Volt



Small, efficient "B" Batteries, extensively used in Acetone and other Transceivers. Ideal for all portable radio equipment.

Type A30BP

Size: overall height 4". Width 4 1/2". Depth 2 3/4". 30 Cells. Shpg. Wt. 3 lbs.

No. 11071
Your Cost **\$1.10**

Type Z30P

Size: overall height 4 3/4". Width 3 1/2". Depth 1 1/2". 30 cells. Shpg. Wt. 2 lbs.

No. 11072
Your Cost **\$1.15**

WIRE

Colored Rubber Covered Stranded Hook-Up Wire



Very flexible, tinned for easy soldering. All popular colors. 16-gauge standard wire, rubber covered, strips easily. Specify color when ordering.

No.	Ft.	Your Cost
4405	25	\$0.12
4406	50	.24
4407	100	.45

All Rubber Covered Parallel Lamp Cord



A jacket of rubber encases two rubber-covered conductors, which are No. 18 gauge. 41-strand copper wire. Approved by the Underwriters. Easy to strip and extremely flexible. Available in brown, green, ivory and black. Specify color. Shpg. Wt. 3 lbs. per hundred feet.

No. 4578—100-ft. roll.
Your Cost **\$1.25**

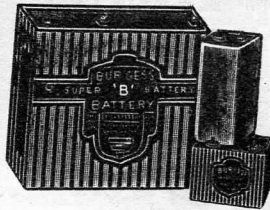
Push-Back Wire



A high grade hook-up wire for general work. The 19-gauge wire is tinned, ready for soldering. Covered with paraffined push-back insulation.

Push-Back Solid		
No. 4561—Black, 50 ft.		22c
No. 4579—Red, 50 ft.		
No. 4408—Black, 100 ft.		34c
No. 4580—Red, 100 ft.		
Push-Back Stranded		
No. 4562—Black, 50 ft.		24c
No. 4582—Red, 50 ft.		
No. 4563—Black, 100 ft.		38c
No. 4583—Red, 100 ft.		

BURGESS Dry Cell Batteries



These are the famous BURGESS Super Dry Batteries, known the world over as the finest quality "A," "B," and "C" batteries that it is possible to obtain. Exceptionally long shelf life. Each battery is guaranteed to give lasting satisfaction. You can always rely upon Burgess Batteries.

No.	Burg. No.	Voltage	Size, Ins.			Shp. Wt. Ea.	Unit Pkg. Quan.	List Price	Your Cost	
			D.	W.	H.				Brkn. Crtn. Lots, Each	Crtn. Lots, Each
SUPER "B" BATTERIES										
611	21308	45	4 1/2	8	8 1/4	16	6	\$2.95	\$2.17	\$1.97
612	22308	45	3 3/8	8	8 1/4	10 1/2	6	1.95	1.44	1.31
STANDARD "B" BATTERIES										
615	10308	45	4 1/2	8	8 1/4	14	6	2.25	1.66	1.51
616	2308	45	3 1/8	8	8 1/4	11	6	1.75	1.30	1.18
617	5308	45	2 1/2	4 1/2	6 1/2	11	5	1.50	1.10	1.00
618	5156	22 1/2	2 1/2	4 1/2	2 1/2	5	10	.85	.63	.57
619	4156	22 1/2	2 1/2	3 1/2	2 1/2	2	10	.75	.55	.50
STANDARD "C" BATTERIES										
9105	5360	4 1/2	2 1/2	1 1/2	2 1/2	1	10	.40	.30	.27
621	2370	4 1/2	1 1/2	4	3	2	10	.40	.30	.27
8225	5540	7 1/2	1 1/2	4	2 1/2	3	10	.65	.48	.44
RADIO "A" BATTERY										
623	4FA†	1 1/2	4 1/2	2 1/2	2 1/2	50	1	.40	.30	.27
3-VOLT "A" PACK										
699	20F2†	3	6 1/2	1 1/2	4	20	1	3.30	2.45	2.21

†Replaces old type No. 6 Dry Cell, now obsolete.
‡Resistor for reducing to 2-volts, No. 10191—Your Cost. 17c

New EVEREADY Air Cell "A" Battery

Air-Cell batteries for 2-volt receivers. Do not require recharging. Have life of 1000 hours. Type A-600 for sets drawing 660 Ma. maximum, type SA-850 for 750 Ma. maximum. Supplies constant voltage. Shpg. Wt. 23 lbs.

No. 25000—Type A-600 **\$4.09**
Your Cost

No. 25001—Type SA-850 **\$5.15**
Your Cost



BEST Batteries



Ruggedly built and thoroughly tested. Made to give noiseless performance until completely used up.

Standard Size—No. 1032
8" long, 7" high, 3" deep.
Shpg. Wt. 7 lbs. **84c**
No. 6905—Yr. Cost

Heavy-Duty Size—No. 1050
8" long, 7" high, 4" deep.
Shpg. Wt. 11 lbs. **\$1.19**
No. 9104—Cost

Flashlight Cells

Regular Size No. 10—1 1/2" x 2 1/4"
No. 6682 **5c**
Your Cost
Per 50 \$2.25

Baby Size No. 5—1" x 1 1/4"
No. 6683 **5c**
Your Cost
Per 50 \$2.25



BEST 22 1/2 Volt "B" and "C" Battery



22 1/2 volts tapped at +18 volts. Recommended for portable radio receivers. Also used as "C" bias battery where —4 1/2 or —22 1/2 volts is required. Size: 4" long, 3" high, 2 1/2" deep. Wt. 3 lbs.

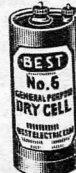
No. 6685—Your Cost. **61c**
4 1/2-Volt "C" Battery
Standard "C" battery, 4" long, 3" high, 1 1/2" deep. Shpg. Wt. 2 lbs.

No. 6655—Your Cost. **18c**

BEST No. 6 Dry Cell 1 1/2-Volt

A high-quality dry cell for all kinds of ignition work, doorbells, buzzers, Radio "A" Batteries, and other general dry cell uses. Diam. 2 1/2", 6 1/2" high. Shpg. Wt. 3 lbs.

No. 6656 **18c**
Your Cost



BURGESS Flat Batt's

For Analyzers and Flashlights

No. 532, same as Eveready 703. 4 1/2 volts. Size, 2 1/2" x 2 1/2" x 1 1/2".

No. 10913

No. 432, same as Eveready 751. 4 1/2 volts. Size, 2 1/2" x 2" x 1 1/2".

No. 10914
Your Cost, Either Type

20c



BURGESS Compact

No. 44
Midget 1 1/2-volt cell battery for Mike, etc. 4 3/8" x 1 1/2".

No. 620
Your Cost **24c**



WIRE

Transmission Wire



For use in installation of noise-reducing antenna systems. Two conductors of stranded copper wire, rubber covered with weatherproof braid. Twisted conductor designed to reduce interference-pickup. Shpg. Wt. per 100-ft. coil, 2 lbs.

No. 4566—100-ft. coil.
Your Cost **77c**
No. 4586—500-ft. coil.
Your Cost **\$3.40**

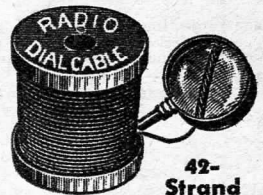
Twisted Cotton Lamp Cord



Used for general installation work, hooking up aerials and grounds to radio sets, lamp-wiring, etc., No. 18 gauge, 1/2" rubber, 250-ft. spools. Shpg. Wt. per spool 5 lbs.

No. 4572—Green and Yellow.
No. 4571—White. **\$2.49**
Your Cost

Dial Cable



42-Strand
Phosphor Bronze

Six cables of 7 strands braided around strong center-fibre cord.

No. 10984—25 ft. spool.
Your Cost **74c**
No. 9121—50-ft. spool.
Your Cost **\$1.39**

18-Strand Phosphor Bronze Cable

No. 4289—25 ft. **25c**
Your Cost

No. 4286—50 ft. **39c**
Your Cost



QUALITY TOOLS

Heavy-Duty Soldering Irons



Highly polished nickel tube. Removable mahogany handle. Element is wound on steel core with high-grade amber mica. Removable copper tip, $\frac{3}{8}$ " diam. Provided with 6-ft. heater cord. Length 12". Weight 12 oz. For 110-120 volts. Shpg. Wt. 2 lbs. No. 5113—75 Watts

Your Cost \$1.45

Same as above, but 100 watt. For 110-120 volts. Weight 16 oz. Shpg. Wt. 3 lbs. No. 3305

Your Cost \$1.75

Extra Tips for Above

No.	Watts	Type	Your Cost
7444	75	Round	\$0.20
7446	75	Chisel	.20
7445	100	Round	.20
7447	100	Chisel	.20

Quality Friction Tape

High-grade tape for all uses. Individually packed to insure freshness. Impregnated with adhesive rubber compound.



No. 4215—4-Oz. Roll
Your Cost **8c**
Each
Per Dozen **89c**

No. 4223—8-Oz. Roll
Your Cost **17c**
Each
Per Dozen **\$1.90**

Soldering Iron



A quality soldering tool at a low price. Constructed to give long service in the shops, home, or on a service call. Quick, heating. Removable copper tip can be easily replaced if necessary. Overall length 11" and tip is $\frac{3}{8}$ ". 110 volts. Shpg. Wt. 2 lbs. No. 2720

Your Cost \$59c

KESTER Radio and Aluminum Solder



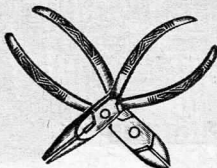
RADIO SOLDER: The solder that is recommended by leading radio engineers because it is absolutely non-corrosive and offers practically no contact resistance. A liberal coil in each tin. No. 5220—Rosin Core
No. 9147—Acid Core
Your Cost, Per Tin **15c**
Display Carton of 10 Tins
Your Cost **\$1.45**

KESTER 1 and 5-lb. Spool Radio Solder

No.	Rosin Core	Your Cost
5225	Spool 1 lb.	\$0.56
5227	5 lb.	2.65
	Acid Core	Your Cost
5221	Spool 1 lb.	\$0.56
5223	5 lb.	2.65

Aluminum Solder: Enables you to really repair aluminum. Flux-filled. Complete instructions. No. 9129
Your Cost, Per Can **17c**
No. 9130—1 lb. spool. Your Cost **\$1.80**

KRAUETER Pliers



Diagonal Cutters

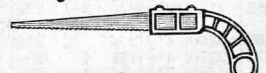
The cutting jaws of this plier come together perfectly.

No. 9905—5 $\frac{1}{2}$ " Your Cost **\$1.75**
No. 9956—5" Your Cost **\$1.60**

Long-Nose Pliers

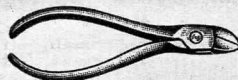
Sharp, side-cutting blade. No. 9906
Your Cost **\$1.25**

Keyhole Hack Saw



Cuts armored cable, conduit, bakelite, fibre, wood, etc. For getting around corners. Length 9 $\frac{1}{2}$ ". Edge 5 $\frac{1}{2}$ ". Wt. 1 lb. No. 11241
Your Cost **21c**

Diagonal Pliers

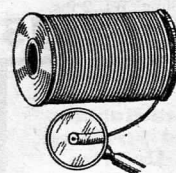


A fine tool; polished finish for clean electrical and radio work. No. 10956—5" Your Cost **34c**
No. 10957—6" Your Cost **39c**

Long Nose Pliers

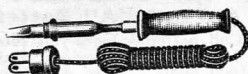
Made of hardened tool steel, fine finished. 5 $\frac{1}{2}$ " No. 10764—Yr. Cost **39c**

ACRATEST "E-Z" Flow 1 m.m. Solder



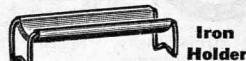
Despite extreme thinness, has a fluid core which makes it hold to nichrome wire and highly polished surfaces. $\frac{1}{2}$ -lb. Spool, 117 ft. Shpg. Wt. 1 lb. No. 6521—Your Cost **49c**
1-lb. Spool, 235 ft. Wt. 2 lbs. No. 5997—Your Cost **89c**

ESICO Soldering Irons



Both the Midget and Junior Models are wound with Grade A nichrome wire. Steel cases and heat proof handles add to their practicability.

"Midget Iron"
No. 3341B—65 watts
Your Cost **\$1.03**
"Junior Iron"
No. 3347—85 watts
Your Cost **\$1.62**



Iron Holder
A practical stand for your hot iron. Solidly constructed. Size 5 $\frac{1}{2}$ " long by 2 $\frac{1}{2}$ " wide by 1 $\frac{1}{2}$ " high. No. 10763
Your Cost **19c**

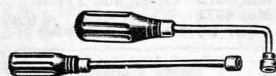
Midget Screw Drivers
Handy for driving set-screws and other small screws. Two sizes conveniently mounted on card. No. 10908
Your Cost, Per Pair **9c**

Radio Reamer



Reams holes from $\frac{1}{8}$ " to $\frac{3}{8}$ ". Length of blade is 4". Shpg. Wt. 1 lb. No. 5118
Your Cost **17c**

Spin Type Socket Wrenches



High-grade, complete selection of hexagonal socket wrenches for every purpose. Sockets are hardened, shanks of heavy steel. Handles ribbed wood. Hollow stems permit inserting over long projecting screws. Tight places can be reached with offset types. Selection below for all standard nut sizes. Every radio test bench should have a complete set.

Nut Size	6" Straight	9" Straight	7" Offset
$\frac{1}{8}$ "	10958	10959	7895
$\frac{1}{4}$ "	7746	7750	7896
$\frac{3}{8}$ "	7747	7751	7897
$\frac{1}{2}$ "	7749	7753	7898
$\frac{5}{8}$ "	7748	7752	7899
1"	7893	7894	7900
	Net Each	Net Each	Net Each
	12c	15c	15c
Per Set of Six	65c	85c	85c

Screw-Holding Type



Indispensable for extracting or inserting screws in places that cannot be reached with an ordinary screw-driver. Has blue steel grippers which hold the screw firmly. No. 4166—8" blade
Your Cost **69c**

Electrician's Screw-Driver Super-Grip Type



High quality construction. The blade is thinner than standard.

No.	Length of Blade	Your Cost
9886	4 $\frac{1}{2}$ "	\$0.17
9887	6 $\frac{1}{2}$ "	.24

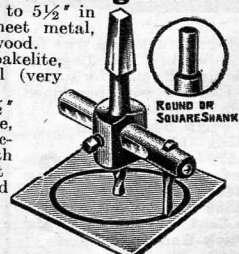
NOKORODE Solder Paste



Non-corrosive. Safe as rosin; rapid as acid; not affected by heat, does not spatter. 2-oz. can. No. 4211
Your Cost **12c**
Per Dozen **\$1.39**

Adjustable Circle Cutting Tools

Jumbo No. 5 will cut holes 1" to 5 $\frac{1}{2}$ " in bakelite, hard rubber, fibre, sheet metal, aluminum, fibre, and pressed wood. No. 2 will cut holes 1" to 4" in bakelite, hard rubber, fibre, sheet metal (very thin), fibre and pressed wood. Junior will cut holes $\frac{3}{4}$ " to 2 $\frac{1}{2}$ " in bakelite, hard rubber, fibre, pressed wood. All types are accurately machined; equipped with high-speed cutting bits. They cut clean holes and leave no jagged edges.



No. 9900—Jumbo No. 5—5 $\frac{1}{2}$ " Round Shank. Shpg. Wt. 1 lb.
No. 9901—Jumbo No. 5—5 $\frac{1}{2}$ " Sq. Shank. Shpg. Wt. 1 lb.
Your Cost, Either Type **\$1.88**
No. 9908—Junior
Your Cost **78c**
No. 9033—No. 2 Cutter
Your Cost **\$1.10**
Extra cutter for all types.
No. 9034—Your Cost **24c**

BARGAINS

QUANTITY LIMITED

ALDEN Sure-Grip Plug



7-Prong (small) plug with special handle: will fit any type of 7 - prong (small) socket. Can be used in P. A. installations for connectors of from 2 to 7 wres.

No. 10613
Your Cost, Each **9c**

Replacement Vibrator For A. K. 424, 534 Auto Radios



Only a few left! Full wave, synchronous vibrators, also used in Audiola 86 and Emerson 640 Auto Radios. Suitable for any set using this type. Has five leads. Is 2" square by 5 1/2" long. Shpg. Wt. 2 lbs.

No. 15559
Your Cost **\$1.65**

AMERTRAN Audios



High-quality core and careful winding afford straight-line frequency response, ideal for high-fidelity amplification. Only a small quantity left, so rush your order in NOW! Mounting centers 2 1/2". Height 3". Thickness 2". Equipped with both lugs and thumb-screw terminals.

No. 15592—5:1 ratio
Your Cost **29c**

Enameled Magnet Wire



Here is a rare opportunity to obtain a supply of magnet wire at real bargain prices. A generous supply of wire is wound on each spool. Finest quality enamel for best insulation. Furnished in standard gauges from 18 to 32. For winding coils, transformers, etc. Act quickly on this item, as our supply is limited. A spool of each size will be handy in any shop. Shpg. Wt. 1 lb. each

No.	Gauge	No.	Gauge
15610	18	15614	26
15611	20	15615	28
15612	22	15616	30
15613	24	15617	32

Your Cost Each Spool **15c**

NOTE! For a complete listing of 1/4 lb. spools of magnet wire see Cat. No. 18.

AMERTRAN Power Supply Transformers



A REAL buy in high grade power supply transformers! These are well-designed, hum-free, heavy-duty units. All transformers have 100-125 volt, 60-cycle primaries. Note exceptionally low price for high-powered transformers of this type!

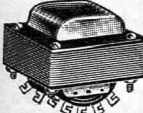
Type PF-245A
2.5 Volts at 3 Amps. C. T.
2.5 Volts at 7 Amps.
2.5 Volts at 1.75 Amps.
5 Volts at 2 Amps. C. T.
730 Volts at 110 Mills, C. T.

No. 15594
Your Cost, SPECIAL **\$1.98**

Type PF-281-A
For sets using Type 50's and 81's.
7.5 Volts at 2.5 Amps. C. T.
2.5 Volts at 5.25 Amps.
2.5 Volts at 1.75 Amps.
7.5 Volts at 2.5 Amps C. T.
600 Volts at 100 Mills C. T.

No. 15595
Your Cost **\$2.25**


Special 4-Tube Power Transformer



For compact sets. Supplies 2 1/2-v. at 3-amps., 5-v. at 2-amps., 650-v. at 40-MA-C. T. Flush Mtg. centers 2 1/2" x 2". Shpg. Wt. 3 lbs.

No. 15456
Your Cost **55c**

RIDER'S Perpetual Trouble Shooter's Manual Volume VI



Fresh off the press! Rider's Volume VI is a complete service guide to the latest sets of over 100 manufacturers. Over 1200 pages of valuable information. A new arrangement in this volume provides schematics of double page width, with larger, more legible diagrams and symbols. Easier to read than any previous service manual. Shpg. Wt. 10 lbs.

No. 14555
Your Cost **\$7.35**

For a complete listing of the previous volumes of Rider's manual and other service manuals please refer to page 62 of our Catalog No. 18.

Amateurs Attention! Hi-Power Transformer



Delivers:
3.3-v., 8 3/4 amps. C.T.
7 1/2-v., 3 amps. C. T.
7 1/2-v., 3 amps.
1200-v., 150 ma., C.T.
Operates on 110-120 volts, 50-60 cycles. A. C. 150 watts. A special transformer designed for low-powered Amateur transmitters, using type 210 and 281 tubes. Will carry two of each easily. Can be used in P. A. amplifiers using a pair of 210 or 250 tubes in P. P. with a pair of 281 rectifiers. 3.3-v. may be reduced by resistor for 2.5-volt tubes.

Shpg. Wt. 10 lbs.
No. 6918
Your Cost **\$1.50**

Power Transformer 6.3 Volt for 5 Tubes



Provides following voltages: 650-v. 45-MA. C. T.; 6.3-v. at 1.6-amps. C. T.; 5-v. 2-amps. Mtg. centers 2" x 2 1/2". Quantity limited.

No. 15461
Your Cost **89c**


Midget Soldering Irons



This is the smallest practical soldering iron on the market. Only 7" in length, it weighs 5 1/2 ounces, including cord and plug. Heats in one minute. Has 20-watt rating with a special design for concentrated heat that permits work of larger irons. Tips are removable and replaceable. Finest grade nichrome element is used, wound on a porcelain core and insulated with special heat-resisting cement. Baked enamel wood handle for easy handling. Has unbreakable plug and Underwriter's heater cord. Ideal for delicate work and for small, hard-to-get-at places on radios, etc.

No. 24555—110-v. A. C.-D. C.
No. 24556—6-volt
Your Cost Either Type **73c**

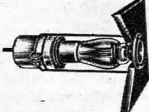
TACO Cathode Ray Resonance Indicator



A new type test instrument with a multitude of uses. Has the new electron ray tube (6E5) and two 6H6 tubes. Makes an excellent output meter for aligning receivers. May also be used as a simple capacity or resistance meter, or in place of a galvanometer in bridge circuits. One 6H6 and the 6E5 are mounted inside the instrument case. Other 6H6 mounts on a head unit with test leads and clips. Main instrument is 4 1/2" x 5" x 5 3/8". For 110-v. A. C. operation. Cord and plug supplied. Full directions supplied. Wt. 22 lbs. less tubes.

No. 13910
Your Cost **\$6.76**

TACO Tuning Indicator



Makes use of the electron ray tube (6E5). Complete with es-cutcheon and diagram. Requires 1 1/2" hole in panel. Forms a simple and inexpensive means of modernizing sets by adding precise visual tuning. For sets equipped with AVC only.

No. 14001—Less Tube
Your Cost **88c**

Long Shank Push Switch



Locking type. Contact made when button pulled out. Overall length 3". Complete with knurled nuts and washer.

No. 15561
Your Cost **10c**

Iron Core RF Chokes



Metallic core chokes for all radio frequency requirements. Iron cores approximately double the coil "Q" and inductance, resulting in a smaller coil with a smaller RF field. These coils have a low distributed capacity and a low RF resistance. Gain and selectivity are increased about twice with these coils. Enameled wire wound. Coils are wound on a core of special low-loss insulating material.

No.	Cap. M. H.	Your Cost
23280	2.5	35c
23281	3.5	38c
23282	5.5	38c
23283	10	44c
23284	30	50c
23285	60	59c
23286	80	67c
23287	125	88c

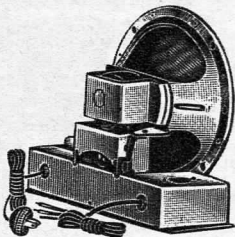


BARGAINS



QUANTITY LIMITED

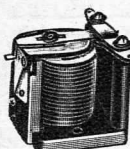
A. C. Dynamic Speaker with Stand



A. C. operated using a 25Z5. Has output transformer for 71A, 45, 50, 2A3. Full 9" Cone. 6-ft. A. C. cord and 3-ft. input cord. 110-volt, 60-cycle A.C.

No. 15452—
Your Cost, Less Tube..... **\$4.75**

Transmitting Relay

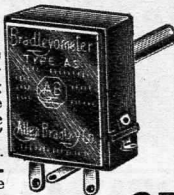


Ruggedly built keying relay, used either as SPST or SPDT. Can be used for remote control or as a telegraph sounder. $\frac{1}{8}$ " heavy silver contacts. Operates on $\frac{1}{2}$ -volt dry cell. Size $2\frac{1}{2}$ " square. Shpg. Wt. 1 lb.

No. 3561—
Your Cost..... **49c**

ALLEN BRADLEY Volume Controls VERY LIMITED QUANTITY

"Bradleyometers" at give-away prices. These potentiometers have been favorites with servicemen for years because of their smooth, dependable operation and long life. Ideal for all replacements where this resistance control is required. Size $1\frac{3}{4}$ " x $1\frac{1}{2}$ " x $\frac{3}{8}$ ". Insulated shaft $2\frac{1}{2}$ " long. Milled flat for push-on type knobs. Equipped with an A. C. switch. 100,000 ohms for screen voltage or tone control.



No. 15586—Your Cost..... 27c
1-Megohm Potentiometer without switch
Same type as above, less switch. Audio shunt controls.
No. 15589—
Your Cost..... **15c**

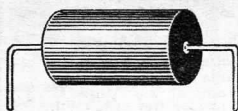
Auto-Radio Dynamic Speaker 5-Inch

Designed for auto use with ribbed cone for full volume without distortion. **Output transformer for Pentode tube supplied.** For 6-volt operation. 5.5-ohm field.



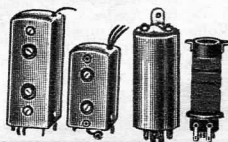
No. 15536—Your Cost..... \$1.39
6-Inch
Same as above with 4-ohm field.
No. 15537—Your Cost..... \$1.98

Special HI-Voltage Tubular Condensers



No. 10734—.04 mfd., 400 v. 4c
Ten for..... 35c
No. 10735—.06 mfd., 400 v. 4c
Your Cost, Each..... 35c
No. 10731—.006 mfd., 600 v. 4c
Your Cost, Each..... 35c
No. 10732—.006 mfd., 1000v. 5c
Your Cost, Each..... 45c
Ten for..... 45c

5-Tube Super Coil Kit 75 to 550 Meters A. C. - D. C.



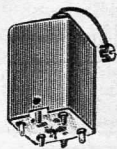
Specially priced coil kit. Designed for superhets using 77, 2-78's, 43, 25Z5, or similar ALL-METAL tubes. Doubled-tuned 456 Kc. I. F. Transformers. Complete with instructions. Shpg. Wt. 1 lb.

No. 15554—Your Cost..... \$1.69

I. F. Coils

Two high quality I. F. Coils. 175 Kc. coil is single tuned and 456-Kc. coil is double tuned. In an aluminum can 2" square. Two spade-bolt mounting with 2" mounting centers. Trimmers on ceramic base. Shpg. Wt. 1 lb.

15599—175 Kc. 45c
Your Cost..... 59c
No. 15600—456 Kc. 59c
Your Cost..... 59c



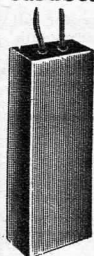
Universal Mount Round Aluminum Can Electrolytics 450 D. C. Working V.



Long-life, self-healing, low power factor and good filtering characteristics. Absolutely dry. Mounts in any position. Quantities limited. Height $4\frac{3}{8}$ ".

No.	Cap. Mfd.	Diam. Inches	Your Cost
15391	8-8	$1\frac{1}{2}$ "	\$0.58
15392	5-15	$2\frac{1}{2}$ "	.73
15393	8-8-8	3"	.90
15394	9-9-18	$3\frac{1}{2}$ "	1.20

Cardboard Container Dry Electrolytics 450 D. C. Working Volts



Thoroughly impregnated against moisture, and with two flexible leads. Compact, inexpensive, light-weight. Have all advantages of standard metal type containers. Quantities limited. Lgth $4\frac{1}{2}$ ", width $1\frac{1}{2}$ ".

No.	Cap. Mfd.	Size D	Your Cost
15382	4	$\frac{3}{8}$ "	22c
15256	8	$\frac{3}{8}$ "	25c
15383	4-4-4	$1\frac{1}{8}$ "	74c
15384	8-8	$1\frac{1}{8}$ "	47c
15385	8-8-8	$1\frac{1}{2}$ "	69c

None Better AT ANY PRICE

Compact Cardboard Dry Electrolytic



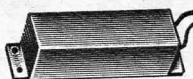
8-8 Mfd.—175 Peak Volts: Another Bargain in Electrolytics! Small size, only $2\frac{3}{8}$ " long by $\frac{3}{4}$ " square. Stock up NOW before supply is exhausted! Mounting centers $2\frac{3}{8}$ ".

No. 15566—Your Cost..... 29c

8 Mfd.—550 Peak Volts: These dandy little electrolytics are just the thing for all replacement purposes. Size 3 " x 1 " x 1 ". Mounting flanges. Two long color-coded leads. Quantity limited.

No. 15455—Your Cost..... 17c

Cardboard Container Condenser



450-V.—16-Mfd. In a compact cardboard container measuring only 4 " x $1\frac{1}{4}$ " x $\frac{1}{4}$ ", this electrolytic has mounting flanges with two holes each end. Overall length $5\frac{1}{2}$ ". Shpg. Wt. 1 lb.

No. 15568—Your Cost..... 34c

MERSON 8 Mfd. Midget Wet 450 Volts

New-type midget wet electrolytic, measuring only 1" in diameter and $4\frac{1}{2}$ " tall above chassis. Aluminum can. Mounting stud $\frac{1}{8}$ ". Soldering lug. Can ground. Wt. 1 lb.

No. 15569—Your Cost..... 19c



MERSON Standard 8-Mfd. Wet Electrolytic 450 Volts

Newly-designed inverted wet electrolytic condenser, 8 mfd. at 450 Volts. Diam. $1\frac{1}{2}$ ". Length above chassis $4\frac{1}{2}$ ". Mounting stud $\frac{3}{8}$ ". Can ground. Ideal for replacement. Wt. 1 lb.

No. 15571—Your Cost..... 34c



A dry 8-8 mfd. electrolytic condenser at 475 Volts. Diam. $1\frac{3}{8}$ ". Above chassis length $5\frac{1}{2}$ ". Mounting stud $\frac{3}{8}$ ". Has 2 color-coded leads and common can ground. Wt. 1 lb.

No. 15572—Your Cost..... 49c



14-8-10-10 Electrolytic

14 and 8-mfd. at 200 P. V., 10-10 at 35 P. V. Common negative. Cardboard container $1\frac{1}{2}$ " diam. by 4" length. Mtg. bolts $1\frac{1}{4}$ " apart. Wt. 1 lb.

No. 15598—Your Cost..... 39c



Inverted Type Dry Electrolytics

Will fit $\frac{3}{4}$ " hole. Housed in aluminum container with nut on threaded bushing. Can be mounted in any position. 450 D. C. Working Voltage.

Diameter $1\frac{3}{8}$ "
Cap. L Your

No.	Mfd.	In.	Cost
15386	4	$2\frac{3}{8}$ "	26c
15387	6	$4\frac{3}{8}$ "	27c
15253	8	$4\frac{3}{8}$ "	30c
15388	4-4	$4\frac{3}{8}$ "	42c
15389	8-8	$4\frac{3}{8}$ "	58c

* Diameter $1\frac{1}{2}$ ".

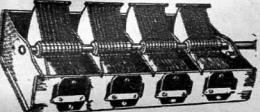


BARGAINS

QUANTITY LIMITED



4 Gang .00035 Mfd. Variable Condenser



A very sturdy condenser unit for use with all circuits requiring a four-gang condenser of straight-line frequency characteristics. Smooth tuning. Shaft diameter is $\frac{3}{8}$ ". Equipped with adjustable bearings. No trimmer condensers. Size, 10" long, $3\frac{1}{2}$ " deep, $2\frac{1}{4}$ " high. Finest grade of plates. Close to right.

No. 17090
Your Cost **39¢**

3-Wire 10-Ft. Microphone Cable



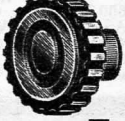
Made of the finest tinsel wire covered with a durable layer of woven fabric. Excellent for use as microphone cable, extension speaker cord, etc.

No. 3626
Your Cost **9¢**

Transmitting Knob

A knob of high-quality bakelite, dark brown. Slotted finger grip. Diam. $1\frac{1}{4}$ ". For $\frac{1}{4}$ " shaft. For any transmitter.

No. 15585
Your Cost **5¢**



Electric Cord



$5\frac{1}{2}$ ft. long, composition plug attached and a rubber grommet for chassis hole.

No. 15597
Your Cost **5¢**

R.M.A. Color Coded Carbon Resistors



1 WATT

Accurately-calibrated resistance material used. Specify ohmmages when ordering.

Ohms	Ohms	% Ohms	Ohms
500	5,000	35,000	500,000
750	7,500	50,000	750,000
1,000	10,000	75,000	1 Meg.
1,500	15,000	100,000	2 Meg.
2,000	20,000	150,000	3 Meg.
2,500	25,000	200,000	5 Meg.
3,000	30,000	250,000	

No. 15457—1 Watt
Your Cost, Each ... **2 1/2¢**

40 Assorted 1/4-Watt Carbon Resistors

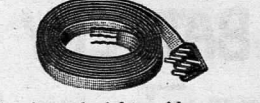


Ohmmages range from 500 ohms to 2 megohms. All brand-new and coded.

No. 15376
Kit of 40
Your Cost. **59¢**



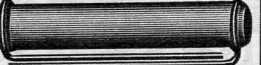
8-Wire Flat Cable



Consists of eight rubber covered wires, insulated well; in canvas corded cover. Total length is 18 feet. One end has a flat 8 wire plug. Ideal for wiring under rugs.

No. 15553
Your Cost **49¢**

2-Watt Carbon Resistors Limited Quantity

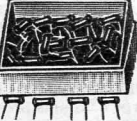


High-grade carbon resistors for high-wattage work. All resistors RMA color-coded. Only sizes below available.

500	6,500	30,000
750	9,000	40,000
1,000	10,000	50,000
2,000	15,000	60,000
2,500	17,000	75,000
3,000	20,000	80,000
4,500	25,000	100,000

No. 15576
Your Cost, Any Size ... **5¢**

37 Assorted 1/2-Watt Carbon Resistors



Standard metal-end type. Ranges 500 ohms to 4 megohms. All guaranteed brand-new. Popular sizes.

No. 15377—Kit of 37
Your Cost. **69¢**

32 Carbon Resistors 1-Watt

An exceptional buy. The sizes range from 500 ohms to 6 megohms. All brand-new and coded. No. 15378—Kit of 32

Your Cost, Special **69¢**

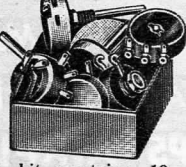
Inside On-Off Switch



Used in compact receivers at rear of chassis as a short-wave switch. Has many special purposes. Bracket depth behind panel is $\frac{5}{8}$ ". Mounting centers $1\frac{1}{2}$ ". Overall depth from bakelite toggle button to end of soldering lugs is $1\frac{1}{2}$ ".

Shpg. Wt. 1 lb.
No. 15590
Your Cost **5¢**

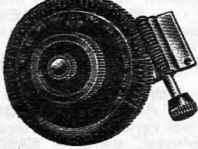
Ten Volume Controls



This kit contains 10 controls, most of them singles, some dual controls, and some with switches. Ohmmages run low enough for cathode control and high enough to be used as tone controls. Quantity is limited—wise servicemen will buy now!

No. 15564
Your Cost, Kit of 10 **89¢**

S. W. Tuning Dial



Gear Ratio is 156 to 1. $3\frac{1}{2}$ " diameter. Made of high-grade bakelite. Easy to install on any panel. Quantity limited.

No. 15250
Your Cost **5¢**

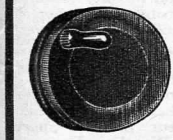
Momentary Push Button Switch Extra Long Shank



Length of threaded shaft $1\frac{1}{8}$ ". Overall length $2\frac{3}{8}$ ". Shaft is provided with three lock-nuts to accommodate any installation. Contact is made by pushing switch-button in, broken when button is released. Capable of handling 125 volts at 3 amps.

No. 15426
Your Cost **9¢**

Genuine Walnut Wood Carved Knobs



Here's a beautiful, two-toned knob, especially designed for sets employing dials with high gear ratios. It has a tiny auxiliary handle, which permits rapid rotation. Diam. $1\frac{1}{4}$ ". For $\frac{1}{4}$ " shaft. Has set screw. We've only a small quantity left, so rush your order in NOW, for YOUR share!

No. 15577
Your Cost, Each **5¢**

Type A
Two-toned metal-inlay Walnut
Diam. $1\frac{1}{8}$ ". $\frac{1}{4}$ " shaft
Set Screw.
No. 15578 Either Type **4¢**

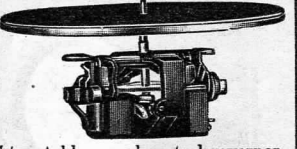
Type B
Wide-base Knob.
Diam. $1\frac{1}{4}$ ". $\frac{1}{4}$ " shaft
Set Screw.
No. 15579

All above knobs for $\frac{1}{4}$ " shaft.

No. 15580—(C) diam. $\frac{1}{8}$ " Set Screw Type
No. 15581—(D) diam. $\frac{1}{8}$ " Set Screw Type
No. 15582—(E) diam. $\frac{1}{8}$ " Set Screw Type
No. 15583—(E) diam. $\frac{1}{8}$ " Push-on Type
No. 15584—(F) diam. $\frac{1}{8}$ " Push-on Type

Your Cost, Each, Any Type **4¢**

Induction Phono Motor Single Speed 78 R.P.M.



Heavy-duty induction motor. Will not interfere with radio. Self-starting. Complete with 10" turntable, speed control governor. Overall $4\frac{1}{2}$ ", under mounting board, $7\frac{1}{4}$ " long. For 110 Volts, 60 Cycle A. C. operation. Will play 78 R.P.M. records only. Has compound-wound induction coils, actuating a perfectly balanced armature disc.

Shpg. Wt. 12 lbs.
No. 135—Your Cost **\$4.95**

Kit 25 Assorted Knobs

Contains every type needed for the average receiver. Round, square, pointers, hexagon of wood or bakelite in brown and black and shaded. Some equipped with set screws, some push-on type. No serviceman should be without a kit.

No. 15424
Your Cost **79¢**

6 ACRA TONE tube "LOBOY"

**FOREIGN & AMERICAN
BROADCASTS-POLICE-
SHIPS-AIRPLANES
AMATEURS**

YOUR COST \$24.65 WITH TUBES

Here is the most sensitive and selective 6 tube receiver on the market in an up-to-the-minute Lo Boy cabinet.

Although compact, this receiver is actually a large DeLux set with all best features known to the radio industry.

METAL TUBES

It is equipped with three of the new metal tubes and three metal-glass tubes which are replaceable with their metal counterparts.

TWO STAGES OF I.F. AMPLIFICATION

The latest type of superheterodyne circuit is employed, using a 6A8G pentagrid mixer, and two 6K7 IF stages. A metal 6Q7 has the triple function of diode detector, first audio stage and AVC tube. A glass 5Y3 with octal base is used as a rectifier and a 6F6G pentode is employed as the output tube to feed high quality signals to the dynamic speaker. This is the only 6 tube receiver on the market with two stages of IF amplification.

FLOATING DYNAMIC SPEAKER

A full sized dynamic speaker is provided to handle the large output volume of the

6F6G with high fidelity and without distortion.

THREE CONTINUOUS WAVE BANDS

Tuning is accomplished over three bands: 18.5 to 52 meters, 52 to 175 meters, and 175 to 550 meters. This continuous range includes foreign and American broadcast and short wave stations, police calls, amateurs, ships at sea, weather reports and aircraft stations.

OVERSIZED ILLUMINATED DIAL

A large 8" dial is provided with identifying features for every band, and calibration in both kilocycles and megacycles. A 28 to 1 tuning ratio is provided, making it easy to accurately tune any signal.

HAS SPECIAL APPEAL TO HAM

This receiver, with its high gain and band spread tuning meets all of the "Ham" requirements at a most attractive price.

VARIABLE TONE CONTROL

A continuously variable tone control is provided so that the response may be varied from a deep base to a high treble in accordance with the personal tastes of the user. It also acts as a static suppressor when turned to the full bass position.

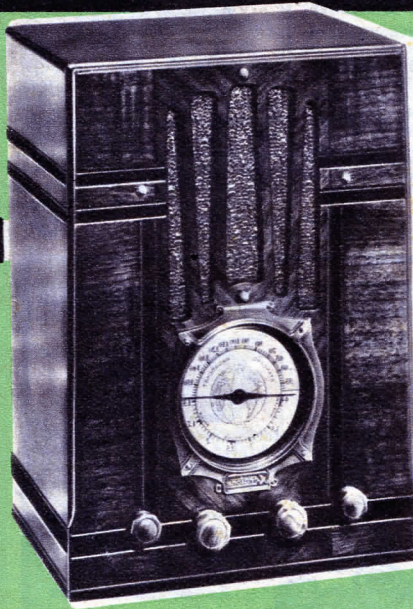
Licensed by
R.C.A. and HAZELTINE

NEW LO BOY CABINET

A new type cabinet houses this exceptional receiver. The front panel, of matched grain walnut burl, is neatly balanced by the dial and speaker grill. The base is slightly shaped, to give the effect of a pedestal, and to enhance the low, sleek lines. Two streamlined overlays appear over the front and top. The entire cabinet is of heavy, well seasoned wood, strongly reinforced and hand rubbed to a high "piano lustre."

6 Tube Acratone AC Superheterodyne in Lo Boy: Operates on 105-125 volts, 50-60 cycles AC. Size: 20 1/2 x 10 x 9". Shpg. Wt. 24 lbs. Code Word: GYELF. Retail Value. \$49.30 R.C.A. and Hazeltine licensed. Model No. 55-D **\$24.65**
Your Cost, with tubes...

Special European Model 6 Tube Acratone AC Lo Boy: Equipped with universal power transformer for operation on 110 volts to 250 volts AC. Has three bands: 18.5 to 52 meters, 175 to 550 meters and 800 to 2000 meters. Code Word: GYFAS. Retail Value \$59.30. R.C.A. and Hazeltine licensed. Model No. 56-D
Your Cost, with tubes... \$29.65



Licensed by
R.C.A. and HAZELTINE
2-VOLT AIR CELL MODEL

Uses type 19, 30, 1C6, 1B5 and 34 tubes. One Air Cell and 3 "B" batteries required. Complete with tubes. Code: GOTIL. Retail Value \$33.90. Model No. 169-D—less batteries **\$16.95**
Your Cost...
Complete set of Batteries for above model. Shpg. Wt. 40 lbs. Your Cost... \$4.89

5 tube BATTERY OPERATED ACRA TONE SUPER-HET for 2 Volt, 6 Volt and 32 Volt Operation WORLD WIDE RECEPTION

IDEAL FOR RURAL COMMUNITIES OR BOATS

So near to AC operation do these receivers perform that if one were not acquainted with the fact that they are powered by either a 2, 6 or 32 volt source, the difference could not be recognized.

LOW CURRENT DRAIN TUBES

Long battery life and a freedom from trouble are made possible through the use of five of the latest type low-current drain tubes. A radically new superheterodyne circuit, skillfully engineered to provide high quality reproduction with a surprisingly large volume uses the types 19, 30, 1C6, 1B5 and 34 tubes in the 2-Volt Model.

6-VOLT STORAGE BATTERY

Requires no "B" or "C" batteries. Operates on a single storage battery. Low battery current consumption. Tubes used: 1C6, 1B5, 38, 34 and V6 vibrator rectifier. Code Word: GUDIX. Retail Value \$41.90. Model No. 168-D—Complete with tubes, less batteries **\$20.95**
Your Cost...

Long Wave Model for European Use,

200-550, 800-2000 meters (150-375 and 450-1550 kc.). Any model on special order at an additional cost of \$2.50.

These tubes represent a total "A" battery consumption of only .68 amperes, while the total "B" battery battery requirement is 20 milliamperes!

**13-55, 200-550 METERS
(1600-5400, 1500-550 KC.)**

A band switch controls two bands bringing in Domestic and Foreign Broadcast, Amateur phones, short wave signals and Weather Reports. A handsome Airplane easy-reading dial clearly shows the locations of broadcast, police and amateur bands. Housed in attractive sliced walnut cabinet. Size: 9 3/4" wide, 14" high, and 6 3/4" deep. Shpg. Wt. 12 lbs. All models are licensed by R.C.A. and Hazeltine.

32-VOLT ALL ELECTRIC MODEL

Operates from 32-volt Delco farm plants or similar power supplies. Requires no batteries at all. Tubes used: 1C6, 1B5, 38, 34, V6 and 5DF voltage regulator. Code Word: KUKIB. Retail Value \$47.90. Model No. 167-D **\$23.95**
Your Cost, with tubes...

FEDERATED PURCHASER, INC.

NEW YORK CITY
25 Park Place

CHICAGO, ILL.
1331 S. Michigan Ave.

ATLANTA, GA.
546 Spring St., N.W.

PHILADELPHIA, PA.
120 N. 7th St.

PITTSBURGH, PA.
343 B'lvd. of the Allies

OTHER BRANCHES AT:
BRONX, N. Y.
534 E. Fordham Rd.

NEWARK, N. J.
226 Central Ave.

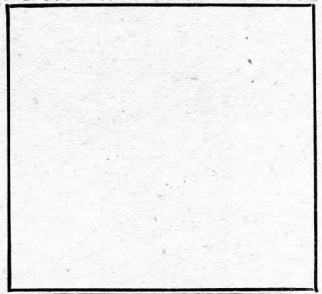
JAMAICA, L. I.
92-26 Merrick Rd.

Cable Address: FEDERPURCH

Date.....

Ship to.....
(Print Plainly to Avoid Errors and Delay)

DO NOT WRITE IN THIS SPACE



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.
Please include postage or we will have to ship Collect

Do Not Write in This Column	HOW MANY	Catalogue No.	DESCRIPTION OF ARTICLE WANTED Please State Electrical Values Wherever Necessary (Any notations should be written on a separate sheet of paper and attached to order) Before ordering please refer to our catalogue	Net Price of Each or Per Dozen		Extend Totals Here and Then Add This Column



HAVE YOU SENT SUFFICIENT POSTAGE TO COVER PARCEL POST?

Shall we make partial shipment if we are temporarily short of any items? Yes
If any item is out of stock, shall we substitute? Yes No
When we substitute, we always send equal or better value at the lowest possible price.
If you want goods shipped by Parcel Post be sure to include enough to cover postage and insurance.
Excessive amounts sent for postage will be refunded. If you send Currency, Register your letter.
Prices subject to change without notice.

TERMS: Domestic—Cash with order, or 20% deposit with order. Balance C.O.D. Remit by Postal, Express or telegraph money order. Include with your remittance Postage and money order fee. Do not send Cash. However if it is necessary, please Register your mail. If you pay in full, you will save collection charges.

FOREIGN—Payment in New York by irrevocable Letter of Credit or 50% deposit with order, balance sight draft documents attached. Quotations F.O.B. 25 Park Place, N. Y. with slight charge for Export Packing.

Drafts with order must be drawn on a New York Bank plus Transportation, Consular and insurance charges.

Total of Order		
Less Deposit		
NOTE: At least 20% Deposit Must Accompany Every Order.		
Carrying Charges	} Include Parcel Post Charges	
Total Amount Enclosed		
Balance C. O. D.		

PLACE
STAMP
HERE

Federated Purchaser, Inc.

25 Park Place,

NEW YORK, N. Y.

FROM

NAME _____

POST OFFICE _____

STATE _____

STREET
AND NO. _____

R. F. D. NO. _____

BOX NO. _____

PLEASE PRINT NAME AND ADDRESS