FederaTone Radio and Sound Systems

Spring Catalog Number 19-1936

Federated Purchaser, Inc.
Leading the World in Radio and Sound Equipment

New York, N.Y.
25 Park Place
Barclay 7-7582

Chicago, Ill.
1331 So. Michigan Ave.
Victory 4444

Atlanta, Ga.
546 Spring St. N.W.
Remlock 4813

Pittsburgh, Penna.
343 Blvd. of the Allies
Atlantic 9119

Newark, N.J.
230 Central Ave.
Market 2-5930

Jamaica, L.I.
92-26 Merrick Rd.
Republic 8-8187
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.

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 3½" arched dial is directly 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.
Model No. 25-D
Your Cost, with tubes...

$7.45

Adapter for Operation on 220 Volts AC-DC, No. 19426. Your Cost...

95c

2 outstanding BARGAINS!

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.

Model No. 5-D
Your Cost, with tubes...

$9.45

Model No. 5-DLW
Your Cost, with tubes...

$11.95

Copyright 1936, F.P. Inc.—Printed in U.S.A.
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 560 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 78 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 always "sold."

**5 TUBE AC Superheterodyne, Operates on 105-125 Volt, 50-60 Cycle AC only. Size: 14½"x12½"x8½", Shpg. Wt. 20 lbs. Code: GYARG, Retail Value $31.90. Licensed by R.C.A.-Hazeltine Model No. 7-C. Your Cost, with tubes...**

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**6 tube A.C.-D.C. Acratone**

**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 80-300 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: 8½"x11½x8", Shpg. Wt. 13 lbs. Code: GYAWL, Retail Value $30.00. Model No. 40-D. Licensed by R.C.A.-Hazeltine Your Cost, with tubes...**

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**2 BANDS**

**POLICE AMATEURS BROADCASTS**

**SPECIAL EUROPEAN MODEL**
For operation on 200-550 meters and 800-2000 meters, with phono jack. Code: GYBDS. Retail Value $25.00. Model No. 40-DLW. Your Cost, with tubes...$17.50
Also available for operation on 220-250 Volt at additional charge of 50c.
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 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 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.

Licensed by R.C.A. and HAZELTINE

**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 superheterodyne are of a new and appealing design. They have three more coats of lacquer than the ordinary cabinet and are hand rubbered to a high lustrous "Piano finish." Matched grain, burled butt walnut adorn the front panels and the table model has genuine mahogany 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 6266 for the 1F stage and a 6H6 serves as a diode detector and also acts to provide full automatic volume control. A 5F6 is used as a high gain first audio stage feeding into a 42 pentode output tube. A glass 68 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 pre-selection. Six tuned circuits on the broadcast band and seven on each of the short wave bands ensure a balanced receiver under all conditions.

**DYNAMIC SPEAKERS**

Large construction "DeLuxe" dynamic type loud speakers are provided — 61/2" in table and 8" in console.

### Table Model Acratone 6 Tube AC Superheterodyne

**Receivers** Operates on 105-125 volts, 60 cycles AC only.
Size 15½x10½x12".

- **Model No. 34-C**
  - **Your Cost** $21.75

- **Model No. 58-D**
  - **Your Cost** $29.75

**Console Model Acratone 6 Tube AC Superheterodyne:**

Operates on 105-125 volts, 60 cycle AC only. Size 30x20x10½".

- **Model No. 58-D**
  - **Your Cost** $29.75

**Transformer for Operation of above Receiver on 220 Volts**
60 Cycle AC No. 8251, Additional $2.05

***FEDERATED LEADS with ACRATONE RADIO***

**WORLD-WIDE RECEPTION...**

**SELF-READING 8 DIAL **

**ROBOT CONTROL**

**HIGH FIDELITY SPEAKER**

**21 25 WITH TUBES**

**PAGE 4**
8 Tube ACRATONE CUSTOM-BUILT SUPER-HET!
with NEW ALL-METAL TUBES
Continuous Range 17 to 565 Meters

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 superhetodryne 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 automation 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.

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 detector and electron mixer. A separate oscillator is provided in a type 6C6. Two 6Q7 type tubes are used, one as a 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 6FS 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 324 is used as the rectifier.

MODERN CABINET DESIGN
The cabinets which house the 8 tube superhetodryne 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 x 14 x 9". Shpg. Wt. 29 lbs. Code: GYDIT. Retail Value $65.50.
Model No. 29-C Your Cost, with tubes $32.75

Console Model Acratone 8 metal tube superhet with 12" speaker. Size 39 x 22 x 11". Shpg. Wt. 57 lbs. Code: GYCUCV. Retail Value $88.90.
Model No. 39-C Your Cost, with tubes $44.45

Acratone 8 all metal tube superhet chassis only, with 12" speaker and tubes. Size 7x4 1/2 x 11 1/2". Shpg. Wt. 21 lbs. Code: GYCER. Retail Value $63.50.
Model No. 31-L Your Cost, with tubes $31.75
Transformer for Operation of these Receivers on 220 Volts, 60 Cycles AC No. 9251. Additional Acratet all-wave noise reducing antenna system for these receivers. No. 18772 . $2.05

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

$44.45
WITH TUBES

$31.75
WITH TUBES

FEDERATED LEADS with ACRATEST PARTS

PAGE 5
**NEW LOW PRICED...HOME LIGHTING GENERATOR for only $39.96**

Farmers, campers and people living in rural communities all over the country where regulation electric current is not available are acclaining 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 buy or make your own light—these generators provide cheap, inexpensive electric current for these purposes. It guarantees un-failing current in your battery so that broken radio entertainment is always yours. In addition, a special pulley permits hooking on of home appliances. For full details turn to page 38.

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**NEW CABINET STYLING**

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

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**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.

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**CONSOLE MODEL 6 TUBE ACORATONE SUPERHETERODYNE RECEIVER**

Operates on a single 6 volt storage battery. Size: 6x2x8". Shipp. Wt.: 24 lbs. Code Word: GYFUT. Retail Value $49.95. Model No. 2. $33.95

*Your Cost, with tubes but less battery...$33.95*

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**MODEL 62-E**

Operates on a single 6 volt storage battery. Size: 6x2x8". Shipp. Wt.: 22 lbs. Code Word: GYFUT. Retail Value $49.95. Model No. 2. $24.65

*Your Cost, with tubes but less battery...$24.65*

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**LICENSED BY R.C.A. AND HAZELTINE**

Licensed by R.C.A. and Hazeltine.

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**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.

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**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 14 IP 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.

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**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 overized speaker may be varied from deep bass to high treble.

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**TABLE MODEL 6 TUBE ACORATONE SUPERHETERODYNE RECEIVER**

Operates on a single 6 volt storage battery. Size: 15x12x8". Shipp. Wt.: 22 lbs. Code Word: GYFUT. Retail Value $49.90. Model No. 12. $33.95

*Your Cost, with tubes but less battery...$33.95*

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**NO “B” BATTERIES REQUIRED**

Complete Operation from 6 Volts

World Wide Reception—Three Bands

Extremely Low Battery Drain

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**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.

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**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 filament on all tubes and full audio power output is assured.

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**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.

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**References**

Table Model 6 Tube Acroatone Superheterodyne Receiver: Operates on a single 6 volt storage battery. Size: 15x12x8". Shipp. Wt.: 22 lbs. Code Word: GYFUT. Retail Value $49.90. Model No. 12. $33.95

Table Model 6 Tube Acroatone Superheterodyne Receiver: Operates on a single 6 volt storage battery. Size: 15x12x8". Shipp. Wt.: 22 lbs. Code Word: GYFUT. Retail Value $49.90. Model No. 12. $33.95

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.
RADIO PROGRAMS AND COMPLETE ELECTRIC 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, 234, 339 and 19), the circuit and tubes are so arranged that the total BATTERY DRAIN is 4.5 milliamperes. 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 horizontal 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, Airplane signals and Weather Reports.

OVERSIZED 8" ILLUMINATED AIRPLANE DIAL
The latest development in radio dials is this new, large, elegant 0-600 OVERSIZED DIAL. This larger dial makes dialing easier—so much easier that a child can operate it with full confidence. 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. The IC6 type is used as combination first detector and oscillator. Two 34 types serve as 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 a 8-ohm 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 altering the quality.

THREE GANG CONDENSER
This receiver is provided with three gang condenser, with tuned pre-selection. It is rubber mounted and of heavy construction to avoid any possibility of oscillation. 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: 183/4 x 131/4 x 9", Shpg. Wt. 28 lbs. Code Word: GYGOY. Retail Value $65.00, Model No. 32-C, less battery, Your Cost $32.75. Console Model Acratone 7 Tube All-Wave Battery Receiver, complete with Tubes: Size: 391/4 x 221/4 x 11", 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 ELECTRICAL 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.

"AIR-FLO" CHARGER
A complete wind-powered storage battery charging apparatus. Automatically disconnected when battery becomes fully charged. Charges 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, $3.92.

GUARANTEED STORAGE BATTERY
Six volts at 120 amperes. 15 plate. Composition case, cannot leak. Shpg. Wt. 50 lbs. No. 965 Your Cost, $7.95.

FEDERATED LEADS with ACROMITE PARTS
A real 5 tube AUTO RADIO

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 5x6x2½" made of automobile steel, finished in 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 rattle is reduced.

SEALED POWER UNIT
The transformer and vibrator in this 5 tube auto radio receiver are both contained in a single sealed steel housing. This arrangement assures extra shielding and freedom from vibrator noises.

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 RF 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.

What makes this the best Auto Radio Value ever offered?—compare the 36 Outstanding Features above with those of other receivers. All 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!

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 6¾" Dynamic Speaker in the receiver is mounted at a pre-determined angle and is not parallel to any of the sides of the receiver eliminating rattles and metallic reproductions! The installation of the additional speaker requires no receiver changes—it just plugs in!

Six Tube Compact Auto Radio Receivers: complete with 6 Raytheon Four-Pillar Tubes 6K7, 6F6, 6D6, 6A7, 7S, 8R; Flexible Shifting and Remote Control Mechanism, less control mounting hardware (see listing below). Size: 7½ x 7 x 8¾". Shpg. Wt. 30 lbs. Code Word: GYLDE. Retail Value $47.70.

Model No. 44-D Your Cost, with tubes...

$23.85

CUSTOM-BUILT INSTALLATION

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 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. Price...

No. 31148—For Dodge 36, Plymouth 36. Complete and ready to plug in...

No. 31149—For late Chevrolet, Pontiac, Oldsmobile, Buick, Ford and also for installation on back of trunk seat on all car. Complete and ready to plug in...

Your Cost, either type...

$3.45

Roof and Running Board Antennas described on pages 10-12.
DeLuxe Running Board Antenna
Highly sensitive, easily installed in any car. Wire and rust proof. Shock-absorbing springs and splash guard. Shpg. Wt. 4 lbs.
No. 240
Your Cost $1.55

Fuse Retainer
Your Cost, Each $8.00
Per Dozen 90c

Antenna Connector
auto radio te car antenna.
Shpg. Wt. 1 lb.
No. 11550
Your Cost 6c

FORD V-8 Distributor Suppressor
Special brush replaces regular distributor brush; makes possible use of contoured suppressor, on Ford V-8 cars only. Shpg. Wt. 1 lb.
No. 11552
Your Cost 18c

Generator Condensers
Groups to frame of generator and bypasses interference.
No. 6448—1/2 mfd.
Your Cost, Each 19c
No. 6449—1 mfd.
Your Cost, Each 25c
No. 1922—3/4 mfd.
Your Cost, Each 34c
Ammeter Condenser
No. 1923—1/2 mfd.
Your Cost, Each 20c
190-Ohm Wire-Wound Suppressors
Small, low-resistance inductances, effective to choke out R. F. interference without reducing ignition spark.
No. 10201—Spark Plug
No. 10203—Distributor
Your Cost, Each 27c

LYNCH Super Filtastat
350 inch. Only one required for each car. Replaces 7 or 9 ordinary high voltage 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 1/2c

“Tur-Top” Antenna For Turret-Top Cars
Quickly installed under running board. Cadmium-plated, shielded, lead-in. Instructions furnished.
No. 1701—Single 1.18
No. 1702—Double 2.35

Special Car Antenna
A highly sensitive, running-board antenna, easily installed on any make of car. Sturdily constructed, completely weatherproof and rustproofed. Lead wire is high tension, non-inductive type.
No. 316
Your Cost, Each 79c

WARD DeLuxe Anti-Molded Rubber
A one-piece running-board antenna, 100% weatherproof. Two-bolt mounting. Handsome substantial appearance. 7" x 40".
No. 675
Your Cost $2.06

AEROVOX AUTO RADIO CONDENSERS

Suppressor Condensers
No. 6431—List 80c
Your Cost, Each 44c
No. 6432—List 80c
Your Cost, Each 29c

Suppressor Condenser for FORDS
No. 1150—Cap. 5 Mfd.
Your Cost, List 100c
No. 6433
List 90c
Your Cost, Each 35c

Ammeter Condensers
No. 6434—List 90c
Your Cost, Each 59c

Dome Light Filter Condenser
No. 1180
No. 6436—List 91c
Your Cost, Each 32c

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

DeLuxe Roof Antenna
Can be easily inserted in roof lining of any car. Measures 13" x 34" and utilizes fine grade of pure copper entirely encased in specially prepared material. It provides ample pickup. Very suitable for open cars.
No. 805
Your Cost 29c

Adjustable Metal Antenna
Under running board. Mounting centers 29 1/2" to 32 1/2". Overall minimum length 33 1/4". Width 8". With washers, spacers, and long lead.
No. 801
Your Cost 95c

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 50.45
4461 100-ft. coil 6.68

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 14" 15c $1.19
4470 16" 26c 1.69
4469 18" 58c 4.55

FORD V-8 Filter Condenser
Special mounting bracket fits around Ford distributor. The only type to provide correct filtering for Ford V-8 cars.
No. 10538
Your Cost 25c

Spark Plug and Distributor Supressors
Highly efficient, for use in all auto-radio installations. Resistance element encased in waterproof tube, keeps leakage at absolute minimum. Illustration Cost
No. Type
6450 Spark Plug A 12c
6451 Distributor B
6454 Cable C
6455 Angle D
6455 Ford V-8 E

FEDERATED PURCHASER, Inc.
GEN-E-MOTOR Auto "B" Eliminators
NEW COMPACT MODELS
Complete with built-in filter units, for use as battery eliminators for auto rec
ceivers using "B" batteries, and for installation in auto sets where it is de
aired to remove the filter system used with the old vibrator unit. The entire
unit is housed in a sturdy metal case measuring 2½ × 3½ × 5½ × 7/6. The Gen-
E-Motor is floated in rubber, with complete freedom from vibration. The
armature is supported by two sets of ball bearings. Shpg. Wt. 10 lbs.

<table>
<thead>
<tr>
<th>Output Volts</th>
<th>Inter-</th>
<th>Battery</th>
<th>List Price</th>
<th>Your Cost</th>
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<tbody>
<tr>
<td>No.</td>
<td>1.94</td>
<td>18.00</td>
<td>$10.58</td>
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</tr>
<tr>
<td>919 30</td>
<td>none</td>
<td>18.00</td>
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<td></td>
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<tr>
<td>920 30</td>
<td>76½</td>
<td>18.00</td>
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SPECIAL FOR SOUND TRUCKS

<table>
<thead>
<tr>
<th>2S2-VOLT FARM USE</th>
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<tbody>
<tr>
<td>518 135 volts tapped at 67½ volts</td>
</tr>
<tr>
<td>924 180 volts tapped at 90 volts</td>
</tr>
</tbody>
</table>

GEN-E-MOTOR Replacement Motors
For auto radio "B" supply: Adaptable to any set using vibrator type supply. Use your present chokes and filter system. Operate from 6-volt source. Cadmium Case, 2½ × 3½ × 7/6 high. Shpg. Wt. 6 lbs.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Your Cost</th>
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<tbody>
<tr>
<td>110 12&quot;</td>
<td>$5.42</td>
<td></td>
</tr>
<tr>
<td>1134 10&quot;</td>
<td>4.55</td>
<td></td>
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<tr>
<td>1092 15&quot;</td>
<td>4.95</td>
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</tr>
<tr>
<td>1497 20&quot;</td>
<td>7.95</td>
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</table>

REPLACEMENT CABLE

Cable Spade Ends
A—No. 11396.
B—No. 11377.
C—No. 11388.
For use with above cables. Can be soldered to cable ends by sweating with iron. Your Cost, Any Type, Each $0.05.

Fitron Robostrel
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 top efficiency by eliminating suppressors. Shpg. Wt. 1 lb.

<table>
<thead>
<tr>
<th>Your Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11381</td>
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</table>

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. 0 to 1 ratio. 300-degree pilot bulb. Shpg. Wt. 3 lbs.

<table>
<thead>
<tr>
<th>No.</th>
<th>Your Cost</th>
<th>Mounting Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>11338</td>
<td>$2.20</td>
<td></td>
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</table>

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

<table>
<thead>
<tr>
<th>Your Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11186</td>
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</tbody>
</table>

Steering Column Bracket
Complete with fibre liners to fit all columns 1½" diameter, or less. For mounting 3½ Universal head on either side of steering column. Complete with nuts, lockwashers, and screws. Finish matched head.

<table>
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<th>Your Cost</th>
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</thead>
<tbody>
<tr>
<td>11184</td>
</tr>
</tbody>
</table>

Under-the-Dash Mounting Kit
All "34 Buick," Oldsmobile, Pontiac, and Chevrolet dash panels are pierced to receive all this bracket. Can be used for '35 Buicks, Chevrolets, and many other cars. Complete with hardware.

<table>
<thead>
<tr>
<th>Your Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11187</td>
</tr>
</tbody>
</table>

Remote Control for GENERAL MOTORS Cars
For all 35 Oldsmobiles, Pontiacs, Chevrolet Master Series. No. 11543—Head only $3.53

<table>
<thead>
<tr>
<th>Your Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11149</td>
</tr>
</tbody>
</table>

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 per
fect safety because of automatic tapering feature. Equipped with accurate ammeter; no guessing about charging-rate. Complete with ammeter, 10-ft. cables. Deluxe dash reminder, bakelite charging-plug, operating and in
stallation instructions. For 110-volt, 60-cycle A.C. Shpg. Wt. 15 lbs.

<table>
<thead>
<tr>
<th>No.</th>
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<tbody>
<tr>
<td>561—List $18.95</td>
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</table>

Ampere HOURCHARGER
Not illustrated. Complete with cables, steering, charging, plug. Shpg. Wt. 11 lbs.

<table>
<thead>
<tr>
<th>No.</th>
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<tbody>
<tr>
<td>582—List $9.95</td>
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</table>

New 3-3 Ampere HOURCHARGER Boxes
Not illustrated. With cables, steering-post bracket, and instructions. Shpg. Wt. 8 lbs.

<table>
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<tbody>
<tr>
<td>583</td>
<td>$3.60</td>
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</table>

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 diode from case with felt insulator. Shpg. Wt. 3 lbs. RCA No. 7064—

<table>
<thead>
<tr>
<th>No.</th>
<th>Your Cost</th>
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<tbody>
<tr>
<td>1020</td>
<td>$24.00</td>
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</table>

Hydrometer
Used to determine the exact condition of your storage battery. One-piece rubber bulb, clear readings on float.

<table>
<thead>
<tr>
<th>No.</th>
<th>Your Cost</th>
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<tbody>
<tr>
<td>4200</td>
<td>$2.94</td>
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</table>

GENUINE PHILCO VIBRATOR
Genuine Philco Part No. 39-5036, replacement for Transistor. 6F, 9F, GT 10, etc. Full-wave, 30-cycle. Shpg. Wt. 2 lbs.

<table>
<thead>
<tr>
<th>No.</th>
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<tbody>
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<td>10855</td>
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GENERAL MULTITAP AUTO "B" Supply

<table>
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<th>No.</th>
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<tbody>
<tr>
<td>458</td>
<td>$8.82</td>
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</table>

REMEMBER—FEDERATED GIVES YOU THE LOWEST WHOLESALE PRICES!
## Radiant Vibrators

### Replacement Vibrators

**For All Standard Radio Sets**

---

### Name and Model No. **vs** Type **vs** No. **vs** No. **vs** Cost

<table>
<thead>
<tr>
<th>Name and Model No.</th>
<th>Type</th>
<th>No.</th>
<th>No.</th>
<th>Cost</th>
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<tr>
<td><strong>FADA</strong></td>
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<tr>
<td><strong>FORD MAJESTIC</strong></td>
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<td>$4.15</td>
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<tr>
<td><strong>FORD PHILCO</strong></td>
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<td><strong>FORD LINCOLN</strong></td>
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<td>$4.72</td>
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<tr>
<td><strong>FORD ZENITH</strong></td>
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<td>$4.89</td>
</tr>
<tr>
<td><strong>GREAT WESTERN</strong></td>
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</tr>
<tr>
<td><strong>GULBANSEN</strong></td>
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<td>$2.45</td>
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<tr>
<td><strong>HALSON</strong></td>
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<td>$2.79</td>
</tr>
<tr>
<td><strong>Hudson-Terraplane</strong></td>
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<td></td>
<td>$2.79</td>
</tr>
<tr>
<td><strong>LINCOLN (Ford)</strong></td>
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<td>$2.79</td>
</tr>
<tr>
<td><strong>Majestic</strong></td>
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<td>$2.79</td>
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<tr>
<td><strong>MONTGOMERY WARD (Airline)</strong></td>
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<tr>
<td><strong>MOBIL</strong></td>
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<tr>
<td><strong>RC4 VICTOR</strong></td>
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<td><strong>RC4 VICTOR</strong></td>
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<tr>
<td><strong>SEARS-ROEBUCK</strong></td>
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<tr>
<td><strong>SIMPLEX</strong></td>
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<td>$2.94</td>
</tr>
<tr>
<td><strong>STEWARD-WARNER</strong></td>
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<td>$2.94</td>
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<tr>
<td><strong>STROMBERG-CARLSON</strong></td>
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<td>$2.94</td>
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<td><strong>STUDEBAKER</strong></td>
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<td>$2.94</td>
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<tr>
<td><strong>WELLS GARDNER</strong></td>
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<td>$2.94</td>
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<tr>
<td><strong>WHITNEY</strong></td>
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<tr>
<td><strong>ZENITH</strong></td>
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### Nominal Cost

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<tr>
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<th>120V</th>
<th>20V</th>
<th>440V</th>
<th>120V</th>
<th>20V</th>
<th>440V</th>
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<tbody>
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<td>$2.79</td>
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<td>$2.94</td>
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<td>$2.94</td>
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<td>$2.94</td>
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</tbody>
</table>

---

### Description

- **RC4 VICTOR**: 1935 Models...
- **SEARS-ROEBUCK**: 1936 Models (headtype)...
- **SIMPLEX**: 1934 2nd Series...

---

### Additional Information

- **Note**: Radiant Vibrators are available for all popular automobile and battery-type radio receivers. If the vibrator you want is not listed, please order in the usual manner and the proper one will be shipped. Give name and model No.
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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>List Price</th>
<th>Dealer's Net Price</th>
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<tr>
<td>00-A</td>
<td>Detector Triode</td>
<td>$1.25</td>
<td>$.73</td>
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<tr>
<td>01-A</td>
<td>Detector Amplifier Triode</td>
<td>.59</td>
<td>.34</td>
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<tr>
<td>01-V</td>
<td>Half-Wave Mercury Vapor Rec.</td>
<td>1.25</td>
<td>.73</td>
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<tr>
<td>10</td>
<td>Half-Wave Rectifier</td>
<td>.89</td>
<td>.52</td>
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<tr>
<td>11</td>
<td>Power Amplifier Triode</td>
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<td>1.38</td>
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<td>12</td>
<td>Detector-Amplifier Triode</td>
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<td>Amplifier-Detector Triode</td>
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<td>19</td>
<td>Class &quot;B&quot; Twin Amplifier</td>
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<td>22</td>
<td>RF Amplifier Tetrode</td>
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<td>RF Amplifier Tetrode</td>
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<td>33</td>
<td>Power Amplifier Pentode</td>
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<td>Super Control RF Ampl. Pent.</td>
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<td>Super Control RF Amplifier</td>
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<td>.52</td>
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<tr>
<td>46</td>
<td>Dual-Grid Power Amplifier</td>
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<td>Power Amplifier Pentode</td>
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<td>Power Amplifier Tetrode</td>
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<td>1.47</td>
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<tr>
<td>51</td>
<td>Class &quot;B&quot; Twin Amplifier</td>
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<td>55</td>
<td>Duplex-Diode Triode</td>
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<tr>
<td>56</td>
<td>Super-Triode Amplifier Detec.</td>
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<td>.40</td>
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<td>57</td>
<td>Triple-Grid Amplifier Detector</td>
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<td>.52</td>
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<tr>
<td>58</td>
<td>Triple-Grid Super Control Amp.</td>
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<td>.52</td>
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<td>75</td>
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<td>Super-Triode Amplifier Detec.</td>
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<td>Triple-Grid Detector-Amplifier</td>
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<tr>
<td>80</td>
<td>Full-Wave Rectifier</td>
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<td>.34</td>
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<td>81</td>
<td>Half-Wave Rectifier</td>
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<td>1.18</td>
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<td>82</td>
<td>Full-Wave Mercury Vapor Rec.</td>
<td>.89</td>
<td>.52</td>
</tr>
</tbody>
</table>

**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 breaksages).

**RCA CUNNINGHAM-RADIOTRON GLASS AND METAL TUBE MANUALS**

Glass Tube Manual: Technical data on all glass tubes to date.
- Your Cost: $20
- Metal Tube Manual: Technical bulletin No. 73B
- Your Cost: $10

<table>
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<td>1A6</td>
<td>Pentagrid Converter</td>
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<td>.73</td>
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<td>Power Amplifier Pentode</td>
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**ADDITIONAL 10% DISCOUNT may be deducted on all orders for 25 or more tubes**

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**RCA ALL-METAL TUBES**
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**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.
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 homes, offices and schools to bear, 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 units or for car or truck work... the Acratone line contains what you need.

Acratone Engineers, headed by Mr. Clifford F. H. Hudok, have illustrated the technical 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 output, high output power, high fidelity 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, each individual microphone and amplifier tested to the above mentioned 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 D.C. storage battery power source for sound truck use or where AC is not available! Such versatility can be found throughout the Acratone line—versatility that means more amplifiers and more amplifiers are in use 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 particular systems are given only as guides for generalization.

NO INSTALLATION TOO LARGE

Federated Purchaser, Inc. has been supplying sound amplifying systems for various uses for many years. No installation is too large or too complicated that it cannot be properly handled. Priced 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-watt speakers. It uses the No. 194 Tuner (page 28) for radio reception, automatic record changer No. 257 for music and microphone inputs. By means of a switching network, any one or all of the inputs may be fed into one set of amplifiers or into all of the amplifiers, providing power output as high as 90 watts. From one pair to 14 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 Newton (N. J.). A special new amplifier 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 installation 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 satisfied 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 "selling" contracts. Let us know your needs and remember—no installation is too large for Acratone Amplifying Systems!
THREE MIXER ACRATONE 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: 5
Rated Power Output Watts: 4
Number of Audio Stages: 3
Tube Compliment: 1-6C6, 1-75, 1-6BS, 1-80
Gain at 1000 Cycles
High Level: 127 db
Medium Level: 72 db
Inputs: 3
Two low level hi-imp.
Output Impedance: 7000 ohms
Hum Level:
Below Max. Output: 45 db
Field Supplied, 1 speaker: 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, it 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. Acratone 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...

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; Acratone 8½" Dynamic Speaker No. 497; 50 ft. No. 10045 Speaker Cable; No. 313 Celotexuffle. Code Word: GEGET. Retail Value $57.00.

Complete System No. 1811
Your Cost...

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: GEHIAT. Retail Value $71.00.

Complete System No. 1812
Your Cost...

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: GEKTR. Size: 18x13½x10¼.
Model No. 1816
Your Cost, less tubes... $24.95
Kit of Matched Tubes... $2.56
No. 13630-13730 Crystal Hand Desk Stand Microphone, additional...

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.
12 to 19 watt AcraTone HIGH GAIN DUAL INPUT AMPLIFIER

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
- High and medium gain Inputs
- Master Tone Compensator
- 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.

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: 1-6CC, 1-79, 2-42, 1-523
- Gain at 1000 Cycles: 118 db
- Inputs: 2
- Output Imp.: 2/8/12/15/500
- Hum Level, below: Maximum
- Power Consumption Watts: 90

Acratone 12 Watt Standard Amplifier:
- Size: 16 1/2 x 8 1/2 x 7 1/2
- Shpg. Wt: 25 lbs
- Code Word: GOODR
- Retail Value: $39.00
- Mode: No. 1800
- Your Cost: $19.95

Complete 12 Watt Standard System:
- 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. 454 Mike Stand; 25 ft. of No. 11065 Mike Cable,
  - two 12" No. 13163 Special Acratone Hi-Fidelity P.A. Dynamic Speakers with
    rectifier tubes; two No. 426 Flare Baffles; 75 ft. of 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 DC Stand; No. 7338 Mike Transformer; Mike Battery; 13 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!
Glass enclosed cartridge fuses are located on top of the steel chassis in these units. 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.

**SPECIFICATIONS**

- Peak Power Output: 24 Watts
- Rated Power Output: 15 Watts
- Number of Audio Stages: 4 Tubes
- Gain at 1000 Cycles: 124 db
- Low Level Input: 72 db

**FUSED AGAINST**

- 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 F95 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 out 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 plug in this test tone where constant music, with occasional announcements, 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 the circuit is not then more 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 supply 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.

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

★ 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, consisting 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 unit 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

<table>
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<tr>
<th>Feature</th>
<th>Specifications</th>
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<tr>
<td>Rated Power Output Watts</td>
<td>30</td>
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<tr>
<td>Number of Audio Stages</td>
<td>4</td>
</tr>
<tr>
<td>Tube Compliment</td>
<td>1-6CC, 1-79, 4-6BS, 1-83</td>
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<tr>
<td>Gain at 1000 Cycles</td>
<td>118.5 db</td>
</tr>
<tr>
<td>Low Level Input</td>
<td>60 db</td>
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<tr>
<td>CONTINUOUSLY VARIABLE TONE CONTROL</td>
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</tbody>
</table>

A tone control of the variable capacitor type is provided. This type of control has little affect 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: 17x6x8* Spg. wt. 45 lbs. Code Word: GAPUR. Retail Value $79.00, Kit of Matched Tubes...6.12 Model No. 1830 $39.50

Complete 30 Watt Standard System for 110 Volt, 68 Cycle AC Operation: Acratone No. 1830 Amplifier with tubes; No. 13650...$6.00; Crystal Microphone: No. 434 Mike Stand; 25 ft. No. 11065 Mike Cable; 2 No. 1649ke De Coster 12" Hi-Fidelity Dynamic Speakers ($6.00); 2 No. 390 Aluminum Deflector Basses; 50 ft. No. 14540 Speaker Cable; No. 13516. Converter Generator Unit and Cable. Code Word: GABPY. Retail Value $278.00.


Complete 30 Volt Standard System for 110 Volt, 68 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. 1833 Your Cost $139.00

Complete Convertible 30 Watt Standard System for 110 Volt, 68 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.
SPECIFICATIONS
Peak Power Output Watts 24
Rated Power Output Watts 15
Number of Audio Stages 5
Tubes Used in Amplifier
4-6C6; 2-76; 2-6BS; 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 DeLuxe. Especially designed by Acratone engineers, they incorporate many new features which make them ideal for sound costly 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 calcium 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 cover that can be placed on the panel to provide ample ventilation to the 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.


Model
No. 1840
Your Cost
$49.50

Complete 15 Watt DeLuxe System for 110 Volt, 60 Cycle AC Operation: Acra-
tone No. 1840 Amplifier with tubes; No. 15630 Crystal Microphone; No. 333 De-
Luxe Mike Stand; 2 ft. No. 11065 Mike Cable; 2 1/2" No. 13162 Special Acratone
Hi-Fidelity P. A. Dynamic Speakers (2500 ohm fields); 2 No. 426 Flare Beffies; 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 DeLuxe 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 handle 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 front panel is of one piece construction with all
dial markings etched directly on the face of the panel. The entire panel is beauti-
fully finished in silver matte and black, and its harmonious design gives the ampli-
ifier 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 cal-
culations 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 “RH-B” Velocity Micro-
phone 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 Micro-
phone 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.
**SPECIFICATIONS**
- Peak Power Output Watts: 53
- Rated Power Output Watts: 30
- Number of Audio Stages: 5
- Tube Compliment: 4-6GC, 2-7E, 4-6BS, 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 spkr.
- Power Consumption Watts: 200

**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.

**Same System as No. 1851 but with No. 1433 Amperite “RBH-B” Velocity Microphone instead of Crystal Mike. Code Word: GABRO. Retail Value $250.00. Complete System No. 1851.**
- **Your Cost:** $128.00

**Same System as No. 1851 but with No. Radio Receiver “GB” Dynamic Microphone instead of Crystal Mike. Code Word: GABED. Retail Value $265.00. Complete System No. 1851.**
- **Your Cost:** $132.50
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 De-Luxe 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) serves 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 De-Luxe 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 permit 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.
**Compact - Durable - Inexpensive WIDE RANGE**

**15 Watt PORTABLE Mixer Amplifier**

★ Weatherproof 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, 2-6BS, 1-523
- Gain at 1000 Cycles: 130 db
- Inputs: 3 High Imp. 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 speaker unit, and the other the amplifier unit; and is covered with a weatherproof grey plastic 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 assurance 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 8½" 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 Your Cost, less tubes... $37.50

Kit of Matched Tubes... $4.25
Speaker Case, as described above, contains two Acratone 8½" 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 Your Cost, less exciter tubes... $24.50

Kit of 2-2525 Tubes... $1.32

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

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**5 Watt ACRATONE PORTABLE Sound System**

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

A complete 5 watt P.A. system in a case only 13½ x 7¼ x 2½"! This ultra-compact case houses our 5 watt amplifier No. 1810 together with a 5¼" 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 invaluable. 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 the input and output 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 5¼" P.A. Dynamic Speaker, 15 ft. speaker cable. Shpg. Wt. 16 lbs. Code Word: GEBAC. Retail Value $39.00. Model No. 1815 Your Cost, less tubes... $19.95

Kit of Matched Tubes... $2.54
POWER STAGES for EVERY PURPOSE

SPECIFICATIONS

Peak Power Output [Watts] 15 to 24 watts
Rated Power Output [Watts] 15
Tube Complement 2-6B5, 1-5Z3
Gain at 1000 Cycles 22db
Inputs: -12 db (bridged across 500 ohm line)

Output Impedance 2/8,12/15/500 ohms
Hum Level, below Max. Output. - 60 db
Field Supply 18 watts for 2-2500 ohm spkers.
Power Consumption Watts 110

Any place where a 500 ohm line can be run becomes a potential speaker location with added power, field supply and for 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. In 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 wirings errors.

Model No. 1850
Your Cost, less tubes $26.50
Kit of Matched Tubes $52.75

SPECIFICATIONS

Peak Power Output [Watts] 30 to 53 watts
Rated Power Output [Watts] 30
Tube Complement 4-6B5, 2-5Z3
Gain at 1000 Cycles 22db
Inputs: -15 db (bridged across 500 ohm line)

Output Impedance 2/8,12/15/500 ohms
Hum Level, below Max. Output. - 60 db
Field Supply 36 watts for 2 or 4 2500 ohm spkers.
Power Consumption Watts 170

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 Accurate 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.

Model No. 1900
Your Cost, less tubes $34.50
Kit of Matched Tubes $55.52

SPECIFICATIONS

Peak Power Output [Watts] 100 to 164 watts
Rated Power Output [Watts] 100
Tube Complement 2-RK33, 1-RK-19
Gain at 1000 Cycles 14.5 db
Inputs: 500 ohms match-

Output Impedance +33 db for rated power output
Hum Level, below Max. Output. - 45 db
Power Consumption Watts 175 to 315

A 100 watt power-booster stage for use with any standard amplifier which has an output level of 32 db 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 of the tubes, and any falling off in the tubes efficiency due to loss in tube emission or other causes may be instantly noted. The tubes are fully protected against damage by a cage steel cover.

May be adapted for rack mounting.

Acratone 100 Watt Power-Booster Stage, Size: 17x6x12x13½". Code Word: GAZLO. Retail Value $155.00.
Model No. 1426
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.
**SPECIFICATIONS**

Peak Power Output Watts . . . . 24
Rated Power Output Watts . . . . 15
Number of Audio Stages . . . . 3
Tube Complement . . . 1-6C6, 1-79, 2-6B5

**Gain at 1000 Cycles**
- Medium Level . . . . 72 db
- High Level . . . . 124 db

**Inputs:**
- 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 shielded 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.

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**Acutone 15 Watt Auto Amplifier with Remote Control**

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

**Complete 15 Watt Auto Amplifier System with Flared Horns**
- Acutone No. 1860 Amplifier, Remote Control and tubes: No. 1225 Crystal Hand Microphone; 2 Acutone No. 735 Dynamic Cone Units; 2 No. 683 Short Flared Horns. Code Word: GATGD. Retail Value $188.00.
- Complete System No. 1861
  - Your Cost . . . . $49.00

**Complete 15 Watt Auto Amplifier System with Aluminum Baffles**
- Acutone No. 1860 Amplifier, Remote Control and tubes: No. 1225 Crystal Hand Microphone; 2 Wright-DeCoater No. 1649 Dynamic Speakers (12½-6V); 2 No. 190 Aluminum Plated Baffles. Code Word: GAWEG. Retail Value $173.00.
- Complete System No. 1862
  - Your Cost . . . . $86.50

**On special order, we can supply the Acutone 15 Watt Auto Amplifier, less remote control.**
- Tube Complement: 1-6C6, 1-6A6, 4-6B5. Shpg. Wt. 70 lbs. Code Word: GARC. Retail Value $133.00.
- Model No. 1870
  - Your Cost, less tubes . . . . $66.50
  - Kit of Matched Tubes . . . . $5.75

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**10 watt D.C. Amplifier**

**SPECIFICATIONS**

Peak Power Output Watts . . . . 15
Rated Power Output Watts . . . . 10
Number of Audio Stages . . . . 3
Tube Complement . . . 2-6C6, 2-76, 4-48

**Gain at 1000 Cycles**
- 72 db

**Inputs**
- 200/500 ohms

**Output Impedance**
- 2/8/12/35/500 ohms

**Frequency Range**
- 50-10000 cycles ±2.5 db

**Power Consumption Watts**
- 110

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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 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 ±3.5 db. The steel chassis has been louvered to provide ventilation. A steel cane cover provides protection to the tubes.

- **Model No. 1415**
  - Your Cost, less tubes . . . . $28.50
  - Kit of Matched Tubes . . . . $7.04

All amplifiers available with Rola, Jensen and Wright DeCoater Speakers — see pages 30-32
**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/coupled 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. 1830 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 phone-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.

**EXCELLENT 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 (6ES) 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.

Acrostone High-Fidelity Tuna-Mixer-Amplifier Combination.
Size: 19x15x13". Shpg. Wt. 45 lbs. Code Word: GAVHO. Retail Value $139.00.
No. 1540, less tubes $69.50
Your Cost........ $69.50
Kit of Matched Tubes.......................... $7.35
Single Section Steel Cabinet for Combination Unit.
No. 1650. Your Cost.................. $4.50

**Complete System:**
Acrostone No. 1940 Tuna-Amplifier Combination with tubes, No. 1530 Crystal Microphone; No. 434 Floor Stand; 25 ft. No. 1165 Mike Cable; 2 12" No. 14162 Special Acrostone High-Fidelity P.A. 2500 ohm. Dynamic Speakers mounted in No. 1877 Leatherette Portable Case; 100 ft. No. 34530 Speaker Cable. Shpg. Wt. 190 lbs. Code Word: GAVHO. Retail Value $244.00.
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 DeCostler Speakers—See pages 30-32.
For Small and Medium Theatres

SPECIFICATIONS

<table>
<thead>
<tr>
<th>No. 1424</th>
<th>No. 1930</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Power Output Watts</td>
<td>15 Watt</td>
</tr>
<tr>
<td>Rated Power Output Watts</td>
<td>24</td>
</tr>
<tr>
<td>Number of Audio Stages</td>
<td>4</td>
</tr>
<tr>
<td>Tube Compliment</td>
<td>1-6C6, 1-6A6, 2-6C6, 4-6BS, 2-6BS, 1-5Z3</td>
</tr>
<tr>
<td>Gain at 1000 Cycles</td>
<td>118 db</td>
</tr>
<tr>
<td>Output Impedance</td>
<td>2/8/12/15/</td>
</tr>
<tr>
<td></td>
<td>500 ohms</td>
</tr>
</tbody>
</table>

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.

SPECIALY 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

<table>
<thead>
<tr>
<th>No. 1424</th>
<th>No. 1930</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inputs: (3)</td>
<td>2 Photo Cells,</td>
</tr>
<tr>
<td></td>
<td>1 High Impedance</td>
</tr>
<tr>
<td>Hum Level, below</td>
<td>-53 db</td>
</tr>
<tr>
<td>max. output</td>
<td>-52 db</td>
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<tr>
<td>Power Consumption Watts</td>
<td>210 Max.</td>
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<tr>
<td>Exciter Lamp Voltage</td>
<td>8V., 4A.,</td>
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<tr>
<td></td>
<td>10V.</td>
</tr>
<tr>
<td></td>
<td>10V.</td>
</tr>
</tbody>
</table>

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

Acratet 35 mm. 15 watt Theatre Amplifier for 110-120 volts, 50-60 cycle AC. Size: 16¼x7½x14¼". Shpg. wt.: 65 lbs. Code Word: GZAP1. Retail Value $115.00. No. 1424 Your Cost, less tubes. $57.50 Kit of Matched Tubes $3.99

30 WATT

Acratet 35 mm. 30 watt Theatre Amplifier for 110-120 volts 50-60 cycle AC. Size: 16¼x7½x15¼". Shpg. wt.: 85 lbs. Code Word: GZAP3. Retail Value $145.00. No. 1930 Your Cost, less tubes. $72.50 Kit of Matched Tubes $4.12

Mail Your Requirements to Federated for Complete Systems!
Acratetest 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-hand 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 tonal 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-zang 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 134—Code Word: GYLOD
Your Cost, Less Tubes: $23.75

Kit of Matched Tubes: 2-6D6, 1-6C6, 1-76, 1-80...$32.51
Special Panel and Sub-base for mounting this Tuner in the ACRATEST P. A. Rack No. 444, described below. Finished in black, baked imitation enamel. Completely assembled and drilled. Shpg. Wt. 7 lbs.

ACRATEST RACKS, PANELS, CABINETS

Standard Relay Racks
Professional racks, being used commercially for transmitters, public address units and in hotels. Sturdily made of 3/4" steel with spot-welded joints. A pressed-steel base prevents distortion of the rack frame and ensures perfect alignment at all times. Sides are angle steel, three-sided, 13/8"x3/4". Drilled for mounting screws every 11/4" and tapped for 10/32 screws. Handsomely finished in black, baked cradle crystaline lacquer giving them the professional and commercial touch.

6' Repeater Rack: Shpg. Wt. 60 lbs.
No. 1221
Your Cost...$10.75

3' Repeater Rack: Shpg. Wt. 30 lbs.
No. 1222
Your Cost...$8.75

Front Rack Shelf for mounting keys, etc. Protrudes 8" from rack front. Panel space of 8 1/2". Regular 19" length. Black crystaline finish.

Steel Panels to match either the No. 1231 or No. 1233 Rack described above. 3/4" thick and slotted for mounting screws. All panels are standard 19 inches wide and cradle-finished.

Steel Cabinets
Cabinet for single panel: Door on top. 8 1/2 x 12" deep. Shpg. Wt. 20 lbs.
No. 1695
Your Cost...$4.50

Cabinet for two panels: Doors on top and rear. 17 1/2 x 10" x 13" deep. Shpg. Wt. 34 lbs.
No. 1693
Your Cost...$7.90

Cabinet for three panels: Door on rear. 26 1/2 x 10" x 13" deep. Shpg. Wt. 48 lbs.
No. 1692
Your Cost...$8.25

Built to house transmitters, P. A. systems, receivers, etc. All take standard 19" relay panels. Constructed with 3/4" steel and finished in baked black crystaline lacquer with joints spot welded. Sides and back are louvered 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.

FEDERATED PURCHASER, Inc.
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 ½ Foot
Mouth 21 4" Square
Shg. Wt. 22 lbs.
No. 756 Your Cost $17.64

4 ½ Foot
Mouth 26 4" Square
Shg. Wt. 30 lbs.
No. 767 Your Cost $20.58

6 Foot
Mouth 31 1/4" Square
Shg. Wt. 24 lbs.
No. 199 Your Cost $24.99

ACRATONE Dynamic Horn Units


GIANT UNIT
12 Watts Constant
No. 162 Your Cost $23.52

SUPER GIANT UNIT
22 Watts Constant
No. 768 Your Cost $35.28

ACRATONE Curvilinear Cone


No. 760—1000-Ohm Field
No. 1165—Field A. C. Model
No. 1165—Your Cost $7.95

ACRATONE Class "B" Dynamic

11-Inch Cone

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. Reproducing a tonal range from 70 to 7000 cycles with in 10 db. Overall height 11", depth 6 ½". Supplied with Universal Output Transformer for all output tubes. Wt. 11 lbs.

No. 539 Your Cost $4.70

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 ½". Convenient building pegs for both voice horn and field leads. Voice coil is aluminum wire-wound, providing 50% greater efficiency. Shg. Wt. 9 lbs.

No. 961—6-Volt Operation
No. 725—6-Volt Operation
Your Cost Either Type $10.25

Exponential Horn


No. 726 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. Shg. Wt. 7 lbs.

No. 683 Your Cost $7.94

ACRATONE Speakers

OXFORD SPEAKERS

A.C. Dynamic Speakers

Standard Dynamic

6-Inch D. C. Field
Safe output rating 4 watts and 7 watts peak. Baffle opening 5 ½". Cone overall 6 ½". Depth 3 ½". Equipped with a Universal Output Transformer matching all types of output tubes. Very popular for small P. A. systems and in newly built receivers. Shg. Wt. 6 lbs.

No. 451—45 Mils. 2500 Ohms.
No. 452—1800 (300 tap) Ohms.
Your Cost Either Type $1.85

DeLuxe Dynamic

8/5-Inch D. C. Field
Safe output rating 8 watts and 10 watts peak. Baffle opening 7 ½". Depth 4 ½". Equipped with a Universal Output Transformer matching all types of output tubes. Can be used with factory prices listed elsewhere. Shg. Wt. 6 lbs.

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

UNIVERSAL OUTPUT TRANSFORMERS can be used with: 3A, 4A, 6B, 6AS, 6AH, 6AV, 6J, 10, 12, 18, 19, 23, 38, 42, 43, 45, 46, 47, 48, 49, 50, 52, 53, 59, 71A, 70, 79, 112A, 112B, 112C, 112D, and METAL 25A6, 46F, 6N6 tubes in single or Push-Pull desired.

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

EXCEPTIONAL VALUES LISTED ON BARGAIN PAGES 61 - 63

29
**Electro-Dynamic Speakers**

**Auditorium Models**
- Designed to carry 15 watts continuously, 25 watts peak. Dimensions: Diameter of baffle opening, 12". Overall back height, 9". Height 13'4". Voice coil diameter 2½", and impedance 6 ohms.
- Available for A.C. or 6-volt operation.
- No. 582—6-Volt D. C. Model
  - Shpg. Wt. 45 lbs.
  - Your Cost $35.33
- No. 578—110-Volt A. C. Model
  - Shpg. Wt. 47 lbs.
  - Your Cost $52.47
- 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 20 to 8,000 cycles. Cone diameter is 12". Voice coil and baffle opening are 8 ohms. Handles 10 watts continuously. Field-coil resistance of D. C. model is 800 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
  - Your Cost $18.18
- Model A-12—A. C.—Shpg. Wt. 35 lbs.
  - No. 265—Less tube
  - Your Cost $29.15

**Ortho-Dynamics**
- Power handling capacity 10 watts continuously. Peaks of 18 watts. Dimensions: Baffle opening 10½". Overall back height, 12½". Front to back, 2¼". Maximum cone housing, 12½". Voice coil, 2".
- Voice-coil impedance 6 ohms at 1000 cycles.
- Model 800-Ohm Field Resistance
  - No. 550—D. C. Model—110-volt.
  - Shpg. Wt. 35 lbs.
  - Your Cost $25.03
- Model 2150-Ohm Field Resistance
  - No. 553—A. C. Model—110-volt.
  - Shpg. Wt. 34 lbs.
  - Your Cost $36.70

**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.

---

**High Frequency Speakers**
- Model Q-4
  - Shpg. Wt. 6 lbs.—List $12.00
  - No. 770
  - Your Cost $8.23
- Model Q
  - Shpg. Wt. 25 lbs. List $50.50
  - No. 778
  - Your Cost $34.84

**Filter Units**
- 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 high-fidelity work. Model F5 is a low-cost filter, providing means for connecting Model F speakers directly across high impedance input of transformer primary on low-frequency speaker.
- Model F5-A
  - Shpg. Wt. 15 lbs.
  - No. 780
  - Your Cost $26.41

---

**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.
- Model 4
  - 4½ Feet
  - Shpg. Wt. 18 lbs.
  - Your Cost $22.00
  - 6 Feet
  - Shpg. Wt. 22 lbs.
  - Your Cost $27.00

**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"x5½"x44. No. 422—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

---

**Multiple Connectors**
- Wider coverage by driving two or three trumpet units from a single unit. Have flexible couplings for connecting any size trumpet rapidly and solidly. Double Conacher dispersion angle 75°, triple connector 105°.
  - Your Cost $8.73
- Model 500 Triple. List $19.25.
  - Your Cost $11.32

**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. 10 watts peak, 20 watts continuous. 15-ohm voice coil, 6-volt field. Size 6"x5½"x44. Shpg. Wt. 18 lbs.
- No. 435—Your Cost $25.87

**Baby Unit**
- Excellent for paging systems. 10 watts peak, 20 watts continuous. 15-ohm voice coil, Size 4"x4"x44. Shpg. Wt. 7 lbs.
- No. 459—Your Cost $16.17

All above Raco units available with any field resistance. Specify on order ohmage desired.
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 single-condenser-resistor network, as per instructions supplied. Size is 5½ overall diameter and 1½ deep. Shpg. Wt. 2 lbs. No. 681 Your Cost—$4.20 Tweeter Transformer To match 4, 8, 15-ohm voice coil or 500-ohm line, mounted on back of speaker. Shpg. Wt. 0 lbs. No. 682—Your Cost—$6.00

ACRATONE
3-Inch Speaker Used in the smaller midgates or pocket-size radios. Standard output as above. Outside diam. 3½. Shpg. Wt. 2 lbs. No. 629—Your Cost—$1.10

Special Magnetic Speaker 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

All Aluminum Deflector Baffle Attractive, all-aluminum construction. Equipped with suspension ring. This model designed for 1-inch speakers. Overall length 20°, 17° bell diameter and length of bell. Comes complete with weather-proof snap-on cover, from metallic raceway conditions. Solves acoustic problems by reducing feed-back conditions. Ideal for use indoors or outdoors. Easily 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. 399—List $15.00. For 12° Speaker Your Cost—$5.29 Reflector Rings—For cones smaller than 12°. Specify size when ordering. No. 11078—Your Cost—44c

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, 113, etc. All metal parts are cadmium-plated. With 6-ft. cord.
Contains 5-Inch Cone
Size: 7½ square, 3¾ deep. No. 761 Your Cost—$2.18
Contains 6-Inch Cone
Size: 7 square, 4½ deep. No. 762 Your Cost—$2.35
Contains 8-Inch Cone
Size: 9½ square, 4½ deep. No. 763 Your Cost—$3.05

Rola P.M. and Dynamic HI-FIDELITY SPEAKERS


Permanent Magnet Dynamic Speakers Dynamic speaker performance. Speakers serve admirably where it is inconvenient to add a field-supply current and dynamic performance is desired. A domed center shield placed in the faces of the cone protects the magnetic air-gap against metallic particles and dust. The new particle-proof acoustic filter and corrugated dia- phragm type centering member protect the voice-coil. Cores complete with 18° leads and output transformer as listed below. For PP 45, 50, 71A, 2A3, METAL 56S, etc. No. 739—6° Cone. Shpg. Wt. 11 lbs. No. 683—8° Cone. Shpg. Wt. 12 lbs. No. 737—8° Cone. Shpg. Wt. 10 lbs.
Your Cost—$9.50 Your Cost—$5.75 Your Cost—$5.75

WRIGHT DE COSTER
Nokoil Reproducers
Your Cost—$3.43 Your Cost—$3.72


1500 Ohms (tapped at 300) No. 815—Less Transformer Your Cost—$1.39
Your Cost, SPECIAL—95c No. 817—With Transformer. Your Cost—$1.39

OUR CHICAGO STORE—1331 SO. MICHIGAN AVE., VICTORY 4444
Dynamic Speaker and Baffle Horn
A powerful Dynamic Speaker and a newly-designed Baffle Horn, combined into one unit. Extraordinary in medium-sized P. A. installations, sound, trucks, etc. Built to withstand the severest treatment, the Baffle Horn is constructed of 5/16" Celotex with reinforced wood trim. The six-inch Dynamic Speaker is an improved model, with overamplified pole-piece and full leather suspension. Will withstand safely 8 watts of audio power. Peak load, 15 watts. Voice Coil 3/4" in 5 ohms. Brgh. Wt. 15 lbs.

No. 1247—For 6-Volt Operation
No. 1248—For 110-Volt D. C. (1000-Ohm Field)

$10.04

Model 5800
This new giant reproducer has a handling capacity conservatively rated at 15 watts maximum. Uses new type solid speaker, which prevents entrance of water, dirt, or grit to air-gap. This feature is of great importance, particularly in installations. Entire cone is waterproof. 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 375 volts, D. C. at a current of 12 7/10 m. ohms. Field dissipation 18 to 40 watts. This Wright DeCoster Model 5800 has five different impedances, furnished by built-in tapped output transformer: 10 ohms (direct to voice coil), 1000 ohms, 1500 ohms, and 4000 ohms. Size: Diam. 12 1/4"; depth, 9"; overall height, 12 3/4". Shpg. Wt. 35 lbs.

No. 596 Your Cost...

$28.42

Model 630—8 Inch
Tests prove that the patented corrugated solid speaker is superior to any other type of speaker manufactured. Impregnated with temperature-proof compound, this spider is practically incombustible. Standard field coil, 2500 ohms. Voice-coil impedance at 400 cycles, 5.2 ohms. Universal output transformer matches all output tubes. Has neutralizing coil. Cone bracket, 6 1/2" inside cone diameter, 6" depth of speaker, 4 1/2". Rust-proof, enameled-plated. Shpg. Wt. 5 lbs.

No. 208—Your Cost...

$3.09

Model 530—6 Inch
Standard field-coil resistance, 2500 ohms. Has Universal Voice Coil Transformer matches 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 1/2" inside cone diameter, 4 1/2" depth of speaker, 3 1/4". Shpg. Wt. 4 lbs.

No. 278

Your Cost...

$2.60

Model 390—5 Inch

No. 279

Your Cost...

$1.91

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 speaker mounting. If in doubt, send us your old cone with specifications.

<table>
<thead>
<tr>
<th>Voice Coil</th>
<th>O. D. Diam.</th>
<th>In.</th>
<th>No.</th>
<th>Cost</th>
</tr>
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<tbody>
<tr>
<td>MAJESTIC—Continued</td>
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<td>Speaker G10</td>
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<tr>
<td>Speaker G13</td>
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<tr>
<td>Speaker G14</td>
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Genuine PHILCO Replacement Cones
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RCA-VICTOR Replacement Cones
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GENUINE RCA VICTOR Replacement Cones
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ROLA
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<th>Cost</th>
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STEWART-WARNER
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VAPEX-GLORITONE
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UTAH
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FEDERATED PURCHASER, Inc.
Floor Stands with the Automatic Friction Lock

Modernistic, is a new microphone stand with a smooth, self locking adjustment. No screws to loosen or tighten. No rattling due to loose fit. Finished in rich black with chromium friction collar. Heavy 12½" base. 5½'-27 thread to fit most crystal or velocity mikes. (For older mikes see reducers and swivels listed on this page.) Height adjustable from 51' to 70". 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. 1305—Your Cost $1.47

Suspension Rings

5½" Inch
For use with Models "A", "X", "BB", "F", "G", smaller diameter mikes. Made of solid brass, highly polished chrome plate. 5⅛" 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, ¾" thick. List Price $4.00.

No. 3621 Your Cost $2.35

Collapsible Floor Stand

A light, compact, collapsible stand for applications in which portability is paramount. Leg spread adjustable from 23½" to 32½". Adjustable from 43" to 105" in height, yet when folded measures only 30½" wide. Three leg rings removed. Has 5½'-27 pipe-thread. (See listing of Reducers and Swivels on this page.) ¼"-27 thread. Complete with ring and 8 rustproof springs. Shpg. Wt. 7 lbs. List $17.50.

No. 1249 Your Cost $10.29

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

Three-Purpose Desk Stand

This smart-looking, thortoughly practical desk stand combines three microphone mounts in one unit. When ring is mounted directly on base, the stand is 11½" high. The 6½" 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 6½" diameter. Shpg. Wt. 5 lbs.

No. 1229 Your Cost $3.95

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 2½"-27 pipe section is screwed into base (as illustrated), height extends from 16½" to 25½", and has 5½'-27 pipe thread. With small section screwed into base, overall height is 11½"; also has 5½'-27 thread. A reducer is included, with 5½'-27 pipe top thread and 5½'-27 bottom thread for 8½"-27, 5½"-27, 3¼"-10, Universal Dynamic Mikes, etc. 7½" base, equipped with felt feet. Nicely finished in gun-metal. Shpg. Wt. 8 lbs.

No. 1276 Your Cost $6.95

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 pipe-threaded adjusting mechanism. Maximum height 6' 6". Complete with 8 suspension springs. Has 5½'-27 pipe-thread. (See Reducer and Swivel listing on this page.) Shpg. Wt. 11 lbs.

No. 438—Antique Bronze Fin. Your Cost $4.45

No. 716—Nickel-plate Finish Your Cost $5.95

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 5½'-27 pipe-thread. (See Reducer and Swivel listing on this page.) Carefully balanced, steel construction throughout. 10½" base, 6½" ring. Adjustable from 11½" to 6' 5½". Shpg. Wt. 25 lbs.

No. 333—Statuary Bronze Finish—Your Cost $8.40

No. 777—Chromium Finish—Your Cost $9.25

Swivel Joint Desk Stand

This unit is equipped with a usual ball and socket joint which fits crystal or ribbon microphones, and permits them to be tilted to any convenient position. Arm can be locked at any angle by means of special tightening ring. Bushing is furnished on top of swivel permitting either 5½'-27 pipe-thread or 5½'-27 thread. An ornamental stand built for convenience and hard usage. Will satisfy the most critical buyer. Overall height 9½. Diam. of base 5⅛. Shpg. Wt. 5 lbs.

No. 1243 Your Cost $3.25

Swivel-Joint Floor Stand

Similar to above but for bay use. Can be extended from 57" to 67½". Swivel has 5½'-27 thread. Has swivel-joint locking ring and special thumb screw clamp lock. Base 9½ diam. Shpg. Wt. 14 lbs.

No. 1246 Your Cost $6.95

Combination Stand

Can be used either as a desk mount or a wall mount, so the ring can be detached and suspended. Distance from center of ring is 6½. Base is 4½. Height of desk mount is 7½. Easier and finished in chromium plate. A professional-looking stand at a very attractive price. Shpg. Wt. 3 lbs.

No. 1244 Your Cost $1.89

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 given for each microphone and stand listed in this catalog. Chrome finish. Other finishes available at no extra cost.

REDUCERS

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<tr>
<th>No.</th>
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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 2½"-27 pipe section is screwed into base (as illustrated), height extends from 16½" to 25½", and has 5½'-27 pipe thread. With small section screwed into base, overall height is 11½"; also has 5½'-27 thread. A reducer is included, with 5½'-27 pipe top thread and 5½'-27 bottom thread for 8½"-27, 5½"-27, 3¼"-10, Universal Dynamic Mikes, etc. 7½" base, equipped with felt feet. Nicely finished in gun-metal. Shpg. Wt. 8 lbs.

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For Velocity Condenser, Sound Cell and Dynamic Microphones

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This unit is equipped with a usual ball and socket joint which fits crystal or ribbon microphones, and permits them to be tilted to any convenient position. Arm can be locked at any angle by means of special tightening ring. Bushing is furnished on top of swivel permitting either 5½'-27 pipe-thread or 5½'-27 thread. An ornamental stand built for convenience and hard usage. Will satisfy the most critical buyer. Overall height 9½. Diam. of base 5⅛. Shpg. Wt. 5 lbs.

No. 1243 Your Cost $3.25

Swivel-Joint Floor Stand

Similar to above but for bay use. Can be extended from 57" to 67½". Swivel has 5½'-27 thread. Has swivel-joint locking ring and special thumb screw clamp lock. Base 9½ diam. Shpg. Wt. 14 lbs.

No. 1246 Your Cost $6.95

Combination Stand

Can be used either as a desk mount or a wall mount, so the ring can be detached and suspended. Distance from center of ring is 6½. Base is 4½. Height of desk mount is 7½. Easier and finished in chromium plate. A professional-looking stand at a very attractive price. Shpg. Wt. 3 lbs.

No. 1244 Your Cost $1.89

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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 given for each microphone and stand listed in this catalog. Chrome finish. Other finishes available at no extra cost.

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OUR PICK-UP DEPT. WILL GET YOU ANYTHING YOU CAN'T FIND HERE 33
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 3/4" dia. Sound enters through annular slit. Response is within 5 db from 40 to 10,000 cycles. Newly developed crystal element, grafoil bimorph, outsole-wound, driven in a specially shaped small dual diaphragm, horizontally enclosed. Output level is -55 db. Exceeds 24 cell ensembles. Graftol crystal increases internal capacity and reduces cable loss. Can be connected for either single or push-pull input. May be mounted upright on desk or floor stand, or suspended. Thread size 1/2". Finished in rubber-black, with white metal band. Supplied with 3-conductor shielded looking-plate, and convertible suspension for stand/pepceptacle.
Shpg. Wt. 1 lb.
No. 507—List $37.50
Your Cost.......

$22.05

Crystal Lapel Mike
Model 73-A
(Diaphragm Type)
An excellent lapel microphone of light weight of less than 2 oz. and a diameter of only 1 ½". Has a highly efficient and faithful voice reproduction, due to newly designed diaphragm and improved mechanical system. Free from internal or background noise and vibration pick-up. Finished in baked rubber-black japan. Supplied with a special mircro
carbon black-covered 25-ft. flexible lapel clip.
Shpg. Wt. 1 lb. List $25.00
No. 440—Your Cost...

$14.70

Crash Hand Mike
Model 71-AS
A "close-talking" hand microphone that minimizes all crowd noise. Unit in chrome
dium-plated cast case with rubber rubber-black handle with an enclosed push-to-talk switch. Frequency characteris
tics is excellent over entire important audio range. No battery excitation current needed. Complete with 7-ft. cable. Overall length: 9".

No. 1222—List $26.50
No. 1225—Your Cost...

$15.58

BRUSH Sound Cell Microphone
Specially engineered for Pub
cic Address, Amateur Phone and Broadcast pickup use.
Output level — 66 db. Actual weight 1 ½ oz. Staffed into conventional high gain amplifiers or pre-amplifier grid in
t. Unconditionally guaranteed by Brush for one year, operates under normal conditions, designed for use in adverse temperatures and low humidity conditions to 130°F. Supplied with 15 feet of high quality, low capacity single conductor cable.
Shpg. Wt. 1 lb.
No. 13635—List $15.00
Your Cost...

$26.46

SHURE Contact Crystal Microphone — Model 72B
An inertia-type microphone for souptick up from vibrating bodies. Useful for pickup from walls, etc., for detective work, reproduction of string-instrument music, guitars, etc. Particularly applicable in television broadcasting of voices and noise. Practically no acoustic feedback. Supplied with a 74-ft. pickup, 1 ½" x 5 ½" x 5 ½". Furnished complete with 74-ft. cable. Shpg. Wt. 1 lb.
No. 532—List $22.50
Your Cost...

$13.23

Type D-105RS
Essentially the same as Type D-105, except that it is equipped with a suitable handle containing a com
ductor talk switch. Bright chromium-finished with a shielded 8-ft. two
cable. Shpg. Wt. 2 lbs.
List $26.50
No. 1436—Your Cost...

$15.58

Type D-105

Free from back-ground noises. Coup
ed to grid of transformer. Not
table. Not
table upon weather conditions. Diameter 2%" x 3 ½" thick. Finished in bright chro
ium and comes with a 8 ft. of shielded cable. Five 3/16" pipe. Shpg. Wt. 2 lbs.
List $22.50
No. 1445—Your Cost...

$13.23

Type L-1

Can be operated close to speakers. Response flat to 6000 cycles. Coupled directly to grid with 2 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 8000 cycles. The output level is — 75 db. It is wind
d. Height 2½", extreme outside diam.
No. 1438—Your Cost...

$22.05

FEDERATED PURCHASER, Inc.
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 in 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 3/4 pipe. Shpg. Wt. 10 lbs.

No. 349—Model SR-80 200* ohms. List Price $36

Year’s Model 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. Enameled in black oxide.

No. 11908—Your Cost............$3.25

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. Pick-up is the well known ACRA-TEST, 5000 ohms. Other phono-planes available on special order. Pick-up has a maximum output of 4.5 or 5.0 millivols. 75 R.P.M. 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. The assembly is for use with the number 44 rack listed elsewhere. Comes with a 10" turntable. Excellent for use in P. A. systems and for station broadcasting and public address when rack-panel mounted. Entire unit is ruggedly constructed for continuous use. Shpg. Wt. 20 lbs. List Price $59

No. 432—Your Cost..........$29.50

New High Impedance Type
Velocity Microphone

Eliminates Input Transformer

Model RH (High Impedance type) operates directly into grid of tube. Eliminates transformer and therefore inductive hum. Requires 18 db less amplification than 200-ohm type. No separate preamplifier 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

Junior Velocity

Equipped with shoulder strap so that the microphone can be fastened around the neck of the speaker, and is small in size (13 x 4½ x 5½) that it is entirely hidden from the speaker's coat. Output level 20 db (open line). Frequency response 75,000 cycles. Equipped with 15-ft. cable. Shpg. Wt. 3 lbs.

No. 1412—Model 7-H—200 ohms. $17.64

No. 1415—Model 7-H—High Impedance. List Price $30.00

Ribbon Microphone Transformer

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

No. 10412—Ribbon to Line—R. L. $29.49

10413—Line to Grid—L. G. . $6.88

10414—Plate to Line—P. L. $6.88

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

No. 1132—R. L.—Your Cost.......$5.88

No. 1133—L. G.—Your Cost.......$7.96

Phonograph Assembly

Sound System Accessories

Phonograph Assembly

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. L 6 db. (5000 ohms). Input impedance 2 megohms, matching amplifier microphones. Output impedances 200-2000 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.


No. 1425—Your Cost, Less Batteries Complete set of Six Burgess Batteries, extra $12.50

No. 1417—Your Cost, Less Tubes Kit of Matched Tubes, extra $16.75


No. 1417—Your Cost, Less Tubes Kit of Matched Tubes, extra $17.50

4-Circuit—2-Position Input Control Unit

Input Impedance: two high impedances (input jacks for radio tuner and high impedance pickup); one 200-ohm line (automatic record changer); one low impedance pickup or output of pre-amplifier); one 400-ohm C. T. winding (for double button carbon microphone). Output Impedance: 100 db. With this unit it is possible to mix or fade two program sources selected by means of a switch. Mounted in a compact black bakelite cased case with attached panel; Shpg. Wt. 5 lbs. Code Word: ABUSB

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

No. 13789—Your Cost...........$19.95

New High Impedance Type
Velocity Microphone

Model RH (High Impedance type) operates directly into grid of tube. Eliminates transformer and therefore inductive hum. Requires 18 db less amplification than 200-ohm type. No separate preamplifier 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-M 200* ohms. Excellent for speech and music. Output (open line)—44 db. List Price $42.00

No. 1222

Model RB-B 200* ohms. For usual feedback conditions. List $42.00

No. 1432

Your Cost, Any Type...$24.70

Model RB-S 200* ohms. Especially designed for speech. List $92.00

No. 1221

Model RS-H High level—2000 ohms. Similar to RB-H. List $32.00

No. 1223

Your Cost, Either Type...$18.82

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

Pipe size on all above mikes: ¾"-27. All above prices include Shock Absorber.
**Radio Receptoer Moving Coil Dynamic Microphones**

Hi-gly 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. Please address and request a free sample. Sensitivity, normal speech at 3 ft., -49 db. Shpg. Wt. 3 lbs.

No. 423 — Your Cost $7.64
No. 3640 — Your Cost $29.40

**Radio Receptoer Moving Coil Dynamic Microphones**

Highly efficient and noiseless microphone 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. Please address and request a free sample. Sensitivity, normal speech at 3 ft., -49 db. Shpg. Wt. 3 lbs.

No. 423 — Your Cost $7.64
No. 3640 — Your Cost $29.40

**Polarized P. A. Connectors**

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

<table>
<thead>
<tr>
<th>No.</th>
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<tr>
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<td>6305</td>
<td>3-wire cap</td>
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<td>3-wire connector</td>
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<td>$36.00</td>
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<tr>
<td>6360</td>
<td>3-wire flush cap</td>
<td>$15.75</td>
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</table>

**Mike Plug and Jack 3 Conductors**

Specially designed 3 conductor plug and jack for microphone use. Standard size. Soldered jacks insure positive connections. Plug overall length, 1 1/4 in. 7/8 in. Tip length, 1 3/4 in. Jack fits 1 3/4 in. mounting hole and any panel up to 1 in. thick.

No. 7320 — Jack | $26.00
No. 7321 — Plug | $40.00

**Shielded Plug and Extension Receptacle**

For two-connection cable extension. Plug also fits standard jacks. Brass shells finished in polished nickel. Overall dia. 1.5 in. Combined overall length, connected, 5 3/4 in. Fits cables without dia. of approx. 1.9 in. Wt. 1 lb.

No. 11334 — Shielded plug | $2.50
No. 11335 — Shielded recept. | $1.32

**Rugged Plugs and Sockets**

Heavy duty multiple contact plugs and sockets made of bakelite with armored metal caps. Excellent for use with portable audio equipment. 1/2 lb.

No. 11311 — Contact | $0.40
No. 11312 — Contact | $0.40

**Rubber-Covered Microphone Cable**

Wired with No. 18. Shielded wire contains metal braid. Outer wall of pure para rubber: tough, flexible and water-proof. No. 11065 single shielded wire is used for Crystal Microphones. Cables can be used for microphones, speakers or phone wiring.

No. 3691 — Your Cost $10.00

**Microphone Springs**

Highest grade spring steel allows maximum flexibility. Rust-proof cadmium-plated finish. No. 3621 — Set of 9

**Carbon Granules**

Finest grade transmitter carbon granules. Sufficient quantity in each vial to re-carbon two 2-button microphones. No. 6374 — Your Cost $40.00
**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 is capacitively adjusted. Overall length 8 1/4", Volume control built into base. Golden-bronze finish. Very compact and light weight. One of the most popular models with P. A. men.

Shpr. Wt. 4 lbs.

No. 274

Your Cost

$4.95

**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 5 1/2 oz. on 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. Shpr. Wt. 5 lbs.

7500 ohm impedance.

Your Cost

$5.62

---

**Automatic Stop**

For Electric Phonographs

Adjustable to operate at any fixed point on the record.

No. 9351

Your Cost

75¢

---

**PIEZO ASTATIC Crystal Pickup**

Operates on all recordings, 78 or 33⅓ R.P.M., with additional weights. Extremely high impedance, connects direct to grid. Black crystaline finish. Instructions furnished. Shpr. Wt. 5 lbs.

No. 678—8" Tone Arm

Your Cost

$7.06

No. 679—12" Tone Arm

Your Cost

$8.82

---

**Aluminum Discs**

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

Pregrooved Blank

Your Cost

No. Cost

7176 .08 6 .5071 .86

7177 .30 8*.5071 .23

7178 .44 10*.5073 .33

7179 .57 12*.5072 .90

---

**CAPEHART Record Changer**

**Dual Speed Model 10-12C**

Plays ten 10" or 12" records. Provides for either 78 R.P.M. or 33 ⅓ R.P.M. long playing records, and, by using long playing records four hours of continuous music are obtained. Last record automatically repeats itself unless records are restarted or master switch is cut off. Equipped with reject device and record unload lever. New type of balanced pickup is furnished. Has standard 110-volt, 60-cycle A. C. motor. Dimensions. 14¾" x 14¾". Height above tabletop 7 ¼". Depth 3 ¾". Shpr. Wt. 36 lbs.

No. 257

Your Cost

$59.50

---

**GREEN FLYER**

**Governor Controlled**

**Dual Speed 33⅓ & 78 R.P.M.**

Induction type. With dial, escutchion and pointers. Finished in satin-brushed. All mountings and hardware included. Overall 8 1/4" x 5¾". Suspend 3 1/2 below baseboard. Mounting bracket centers 3 ½ x 3¾". For 165-1200 volts, 60-cycle A. C. or 12 volt D. C. high speed (standard) and new type slow speed records. Shpr. Wt. 15 lbs.

6 Volt D. C. 2-Speed Motor

Drain 2.8 amperes. Wt. 15 lbs.

No. 722—12" table

Your Cost

$14.10

---

**110 Volt A. C. - D. C.**

**Dual Speed**

33 1/3 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

---

**GREEN FLYER**

**Governor Controlled**

**Dual Speed 33⅓ & 78 R.P.M.**

Induction type. With dial, escutchion and pointers. Finished in satin-brushed. All mountings and hardware included. Overall 8 1/4" x 5¾". Suspend 3 1/2 below baseboard. Mounting bracket centers 3 ½ x 3¾". For 165-1200 volts, 60-cycle A. C. or 12 volt D. C. high speed (standard) and new type slow speed records. Shpr. Wt. 15 lbs.

6 Volt D. C. 2-Speed Motor

Drain 2.8 amperes. Wt. 15 lbs.

No. 722—12" table

Your Cost

$14.10

---

**110 Volt A. C. - D. C.**

**Dual Speed**

33 1/3 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

---

**GREEN FLYER**

**Governor Controlled**

**Dual Speed 33⅓ & 78 R.P.M.**

Induction type. With dial, escutchion and pointers. Finished in satin-brushed. All mountings and hardware included. Overall 8 1/4" x 5¾". Suspend 3 1/2 below baseboard. Mounting bracket centers 3 ½ x 3¾". For 165-1200 volts, 60-cycle A. C. or 12 volt D. C. high speed (standard) and new type slow speed records. Shpr. Wt. 15 lbs.

6 Volt D. C. 2-Speed Motor

Drain 2.8 amperes. Wt. 15 lbs.

No. 722—12" table

Your Cost

$14.10

---

**105 - 120 Volts A. C.**

**Single Speed**

78 R.P.M. With 10" turntable and all mounting hardware. Motor 63 ½ x 3¾". Suspend 3" below baseboard. Operates on 105-120 volts, 60-cycle A. C.

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 33⅓ R.P.M. records.

**Equipped with new high-fidelity Astatic Crystal Pickup**, assuring exceptional tone quality and size of plate: 14¾" x 14¾". Height 5 ¼". Depth 3 ¼". Complete with "on-off" switch, pickup and volume control. Shpr. Wt. 25 lbs.

No. 668—For 110 Y. 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. 722—Chassis only, 110 V. 60 Cy. A. C. Shpr. Wt. 25 lbs.

Your Cost $27.81

No. 723—Complete in leatherette carrying case, for 110 V. 60 Cy. A. C. Shpr. Wt. 30 lbs.

Your Cost $32.28

---

**FEDERATED'S GUARANTEE PROTECTS YOU — BUY WITH CONFIDENCE!**
PIONEER "Gen - E - Motor" Converters

<table>
<thead>
<tr>
<th>No.</th>
<th>Volts</th>
<th>Amps</th>
<th>Watts</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>767</td>
<td>110</td>
<td>.8</td>
<td>40</td>
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<tr>
<td>689</td>
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<tr>
<td>690</td>
<td>110</td>
<td>2.2</td>
<td>110</td>
<td>$22.64</td>
</tr>
<tr>
<td>651</td>
<td>110</td>
<td>2.33</td>
<td>150</td>
<td>$27.05</td>
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<tr>
<td>652</td>
<td>110</td>
<td>2.8</td>
<td>300</td>
<td>$25.69</td>
</tr>
<tr>
<td>654</td>
<td>110</td>
<td>3.53</td>
<td>250</td>
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<td>719</td>
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<tr>
<td>720</td>
<td>110</td>
<td>4.2</td>
<td>40</td>
<td>$30.28</td>
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<tr>
<td>655</td>
<td>110</td>
<td>5.6</td>
<td>80</td>
<td>$32.05</td>
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<tr>
<td>656</td>
<td>110</td>
<td>7.5</td>
<td>160</td>
<td>$42.52</td>
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<tr>
<td>657</td>
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<td>2.78</td>
<td>40</td>
<td>$22.64</td>
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<td>658</td>
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<td>4.7</td>
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<tr>
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<td>663</td>
<td>110</td>
<td>35.0</td>
<td>800</td>
<td>$37.53</td>
</tr>
</tbody>
</table>

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 east end plates. Heavy rubber cable and plug supplied.

"Air-Flo" Charger

Delivers 6 volts at 5 amperes to charge storage battery. Weatherproof 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, on-off switch, and all necessary wire for the automatic installation. Unconditionally guaranteed at the factory.

No. 769 — Generator only, as described.

Your Cost $15.94

No. 770 — Tower only, as described.

Your Cost $3.92

HARTMAN Converters

11-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. For operation of A. C. equipment of 85 watts from D. C. Dimensions 6½" x 5½" x 4½".

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

ACRATRAS Field Exciters

For 1 Dynamic Speaker 500-1800 Ohm Field Coils For 2 Dynamic Speakers 750 - 2500 Ohm Field Coils

For Use on A. C. 105-125 Volts 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, 3½" high. Uses a 523 or 83-type rectifier tube. Thoroughly reliable and dependable. Shpg. Wt. 5 lbs. Less rectifier tube.

No. 75 Your Cost $2.90

No. 85 Your Cost $4.69

For 1 or 2 Dyn. Speakers 6-Ohm Field Coils

Designed to replace 6 volt, 60 cycles, A. C. Output: 2 amps. at 6 volts D. C. Can be used to excite two or three 6-ohm dynamic speaker fields. Line toggle switch and output terminal strip on front panel. Complete with 100, 600 and Size 4½" x 7½", Shpg. Wt. 8 lbs.

No. 654 Your Cost $11.95

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-wave and high frequency. Overall dimensions 7½" x 8¾" x 5¾". 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

POWER LUCK

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

0 for 1 or 2 Dyn. Speakers 6-Ohm Field Coils

Designed to replace 6 volt, 60 cycles, A. C. Output: 2 amps. at 6 volts D. C. Can be used to excite two or three 6-ohm dynamic speaker fields. Line toggle switch and output terminal strip on front panel. Complete with 100, 600 and Size 4½" x 7½", Shpg. Wt. 8 lbs.

No. 265 Your Cost $11.95
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 adaptors. 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 5-125-500-1250 volts. (6) Point-to-Point Resistance-tester with ranges of 200-2000-20000-200000 ohms, and megohm meter with ranges of 2-30 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 a 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

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 new 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 testing of 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: 0-25-125-250-500-1250 milliamperes, A. C. and D. C. Volts, 5-15-125-250-500-1250 volts. Capacity, 0-5-1-2-3-5-50-12.5-500-5000-50,000-500,000 ohms, and 2-20 mega. In beautiful Oak Case, with removable lid. Shpg. Wt. 18 lbs.

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.

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. Lower 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. Packed from A.C. line and furnished complete with one B66 oscillator tube and accessories. Two 37 Tubes required are not supplied.
No. 1495 - Less 2-37 Tubes
Your Cost...
$11.40

TUBE 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. 19214
Your Cost...
$11.40

DEPENDABLE Set Testers
Model 6423 - A quality analyzer at a low cost. Tests all types 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. Micro-
ammeter 0-100. Includes testing prods and sure-pull-out adapters. Protected against obscuration; spare points available on order.
Dimensions: 15 1/2" x 8 1/2" x 4 1/4.
Shpg. Wt. 10 lbs.
No. 1476
Your Cost...
$21.51

Model 6424 - 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 385C
This new model features a 5" bake-lite fan-type meter with semi-Kilowatt reading scale. Tests every type of receiving tube made today, including new ALL-METAL types. 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 100,000 ohms. 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...
$24.45

Portable Model
Carrying case with removable cover.
No. 1479
Your Cost...
$44.00

De Luxe Counter Model
Tubes receptacles on sides.
No. 1489
Your Cost...
$25.97

See Cat. No. 18 for complete listing of Test Equipment
TRIPLET
TESTING EQUIPMENT

Volts - Ohms - Milliammeters
Model 1200

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: 73/4" x 6 1/2" x 4 1/4" 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 1229 Direct-Reading All-Wave Sig. Generator. Also available with 1221 Sig. Generator on order. Shpg. Wt. 55 lbs. List Price $124.00

No. 1445 — Your Cost...
$81.02

No. 1446 — List Price $107.00

Your Cost...
$69.90

Portable Laboratory
Model 1200 in Kit Form

No. 1446 — Your Cost...
$21.24

ライブリット Test Equipment and Meters not listed in this catalog. Readrite instruments supplied at a discount of 40% and 2% from last Triplet instruments at a discount of 35% and 2% from last.

NOTE:

Note: We can supply any Readrite or TRIPLET Test Equipment and Meters not listed in this catalog. Readrite instruments supplied at a discount of 40% and 2% from last Triplet instruments at a discount of 35% and 2% from list.

Model 1310 Tube Tester

Employees 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 or 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 — Your Cost...
$29.40

Direct Reading All-Wave Signal Gen.
Model 1931—5 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, 60-cycle audio note. Model 1231 All-Wave Direct Reading D.C. Signal Generator is a 1936 addition to the popular Triplet Master Units. All frequencies are fully stabilized. Furnished in regular Black Master Unit case. Two 250 tubes and batteries included. Shpg. Wt. 15 lbs. List Price $40.00.

No. 1443 — Your Cost, Complete...
$26.14

All-Wave Signal Generator
Model 1230
An All-Wave Signal Generator. Supplies a continuously variable signal. Frequencies controlled on six bands from 100 Kc. to 15 megacycles. Either modulated or unmodulated. Power taken from generator does not upset circuit balance. Fully shielded. Furnished with 221/2-volt and 15-volt batteries and two type 20 tubes. Connecting wires and six individual calibrated graphs and large size charts are included. Shpg. Wt. 15 lbs. List Price $35.00.

No. 1230 — Your Cost...
$15.02

FEDERATED PURCHASER, INC.
### Panel Meters

Good, serviceable instruments. Guaranteed accuracy within 5%. Pro-rata with wide mounting flange. Require a 2½" hole. Standard finish black flange and nickelized bezel. Special white enamelled dials.

<table>
<thead>
<tr>
<th>Range</th>
<th>No. 100</th>
<th>No. 150</th>
<th>No. 200</th>
<th>No. 300</th>
<th>No. 500</th>
<th>No. 1000</th>
<th>No. 5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. C. Voltsimeters</td>
<td>108</td>
<td>109</td>
<td>110</td>
<td>111</td>
<td>112</td>
<td>113</td>
<td>114</td>
</tr>
<tr>
<td>D. C. Milliammeters</td>
<td>108</td>
<td>109</td>
<td>110</td>
<td>111</td>
<td>112</td>
<td>113</td>
<td>114</td>
</tr>
</tbody>
</table>

### Resistance Meters

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

<table>
<thead>
<tr>
<th>Resistance Meters</th>
<th>Model 501</th>
<th>Model 511</th>
<th>Model 512</th>
</tr>
</thead>
<tbody>
<tr>
<td>Your Range (ohms)</td>
<td>0-10000</td>
<td>0-10000</td>
<td>0-10000</td>
</tr>
<tr>
<td>Your Cost</td>
<td>$1.25</td>
<td>$1.25</td>
<td>$1.25</td>
</tr>
</tbody>
</table>

### Precision Meters

Triplet D. C. meters are D'Arsonval type, with extra-light-moving coil. A. C. meters are movable iron, relupson type. All all-damped. Models 321 and 331 are 3¼" flush-mounting types. Models 321 and 331 are 2½" flush-mounting, Bakelite cases.

<table>
<thead>
<tr>
<th>D. C. Voltsimeters</th>
<th>Model 321</th>
<th>Model 331</th>
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</thead>
<tbody>
<tr>
<td>Your Range (vols)</td>
<td>0-10</td>
<td>0-10</td>
</tr>
<tr>
<td>Your Cost</td>
<td>$1.25</td>
<td>$1.25</td>
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</tbody>
</table>

### Tuning Meters

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

<table>
<thead>
<tr>
<th>Front or Bottom Illuminated</th>
<th>Model 301</th>
<th>Model 302</th>
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<tbody>
<tr>
<td>No. 1000 Scale M. A.</td>
<td>0-1000</td>
<td>0-1000</td>
</tr>
<tr>
<td>Your Cost</td>
<td>$8.85</td>
<td>$8.85</td>
</tr>
</tbody>
</table>

### 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. and 1000-500-250-100-50-10-5 ohms. Diagram furnished. Shpg. Wt. 5 lbs.

<table>
<thead>
<tr>
<th>No. 300—Complete Kit, less batteries</th>
<th>Model 301 Universal Meter Kit</th>
<th>Model 302 Universal Meter Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Your Cost</td>
<td>$33.07</td>
<td>$31.97</td>
</tr>
</tbody>
</table>

### Decibel Meter Kits

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

<table>
<thead>
<tr>
<th>Decibel Meter Kit</th>
<th>No. 150-550 Scale M. B.</th>
<th>No. 150-1000 Scale M. B.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-constant impedance</td>
<td>$4.90</td>
<td>$4.90</td>
</tr>
<tr>
<td>Constant impedance</td>
<td>$4.90</td>
<td>$4.90</td>
</tr>
</tbody>
</table>

### Our Atlanta Store

- 546 Spring Street, N. W. - Hemlock 4613

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**Note:** We can make immediate delivery on all types of WESTON, READRITE and TRIPLETT meters and test equipment not listed in this catalog.
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 tool if distinctly definite need for neutralizing and aligning radio receivers, coils, etc.

No. 9640 10c Each.
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

3/4" and 5/8" nut wrenches, miniature blade screw-driver for neutralizing and a full-size insulated handle general purpose screw-driver. Made of fine quality extra strong 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.

Fancy Head Bronze Finish Screws for Mig. Speakers

No. 1516 10c
No. 1515 9c
No. 1514 8c
No. 1513 7c
No. 1512 6c
No. 1511 5c
No. 1510 4c
No. 1509 3c
No. 1508 2c

Radio Hardware Assortment of machine screws, hex nuts, washers, lugs, grommets, grid caps and fibre bushings. Approx. 225 pieces to box. Very handy on repair jobs.

No. 11921 Your Cost 95c

Insulated Jacks

For i-banana plugs. New split type. Mounts in 1/8" hole up to 1/4" thick. Hexagonal head.

No. 11919 1/4" long. Your Cost 9c

Twin Jacks & Plugs

Twin plugs mounted on 1/4" and 1/2" bakelite. Wires and handles red and black. All connections made solderless. Jacks are 3/8" and 3/4"-Twin Needle Point Phone Tip Plug with 36" wire leads, 3/4" apart. H—Twin Phone Tip Jack.


No. 11916 Your Cost Per Pair 38c C—Binding Post Banana Plug.

No. 11912 Your Cost D—Split Type Banana Plug, 1/4" plug, 6-32TPI screw, with nut.

No. 11913—Your Cost E—Brass Split Type Banana Plug, 1/8" plug, 32-24TPI, side screw for solderless connection.

No. 11914—Your Cost F—Banana Tip.

Solderless Insul. Phone Tip Plug

Fits standard type phone tip jacks. Wire inserted through tip for solderless connection. 1/4" long. Red and black—specify color when ordering.

No. 9308 Each. 5c Per Dozen 50c

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 1/2" long.

No. 11999 Your Cost 6c

B—Insulated Banana Plug, 1/4" long.

No. 11901—Your Cost 6c

C—Insulated Banana Plug, 1/2" long.

No. 11902—Your Cost 6c

D—Split Type Banana Plug, 1/2" plug, 6-32TPI screw, with nut.

No. 11913—Your Cost 6c

E—Brass Split Type Banana Plug, 1/8" plug, 32-24TPI, side screw for solderless connection.

No. 11914—Your Cost 6c

grid caps Completely insulated. 12" wire, solderless phone-tip and insulated handle. Wire not attached to grid cap.

Standard Tube Caps No. 1159—Your Cost 16c 866 Tube Caps No. 1159—Your Cost 16c Metal Tube Caps No. 1159—Your Cost 12c

Insulated S. G. Caps

Available in Red, Blue, Black, Green, Purple, and Yellow.

No. 9517—12" wire. Your Cost 6c

No. 11592—24" shielded Your Cost 12c

Screen-Grid Clip

Positive contact. Made of spring brass, tinned for easy soldering.

No. 4173 Your Cost Per Dozen 15c Per Gross 51c.49

FEDERATED PURCHASER, INC.

42
6.3 Volt Transformers

Flush Mounting Type "PM"

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 1/4 x 3". Weight: 3 lbs.
Mounting Centers: 2 x 2 1/2".
No. 777F
Your Cost...$1.98

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 5/8 x 3 1/2". Weight: 3 lbs.
Mounting Centers: 2 x 2 3/4".
No. 15551
Your Cost...$2.10

For 5, 6, 7 or 8 Tubes Using 2A3 Output
Area: 3 3/4 x 3 1/2". Weight: 8 lbs.
Mounting Centers: 3 1/2 x 4 1/2".
2.5 volts at 5 amps.
2.5 volts at 5 amps.
2.5 volts at 5 amps.
2.5 volts at 5 amps.
5 volts at 3 amps.
5 volts at 3 amps.
5 volts at 3 amps.
No. 7804—Cost...$3.45

For 7 or 8 Tubes Using 25' Type Tubes
Area: 3 3/4 x 3 1/2". Weight: 8 lbs.
Mounting Centers: 3 1/2 x 4 1/2".
1.5 volts at 5 amps.
1.5 volts at 5 amps.
1.5 volts at 5 amps.
1.5 volts at 5 amps.
5 volts at 2 amps.
5 volts at 2 amps.
5 volts at 2 amps.
No. 6241—Cost...$2.15

For 8 or 9 Tubes
Area: 4 1/4 x 3 1/4". Weight: 6 lbs.
Mounting Centers: 2 1/2 x 3 1/2".
2.5 volts at 5 amps.
2.5 volts at 5 amps.
2.5 volts at 5 amps.
2.5 volts at 5 amps.
700 volts at 30-M. A. C. T.
700 volts at 30-M. A. C. T.
No. 6758—Cost...$2.30

For 10, 11 or 12 Tubes
Area: 4 1/4 x 3 1/4". Weight: 6 lbs.
Mounting Centers: 3 1/2 x 4 1/2".
2.5 volts at 5 amps.
2.5 volts at 5 amps.
2.5 volts at 5 amps.
2.5 volts at 5 amps.
700 volts at 30-M. A. C. T.
700 volts at 30-M. A. C. T.
No. 6759—Cost...$2.70

For Auto Receivers
A newly developed compact transformer delivering 250 volts at 50 miles in conjunction with a high inefficiency, unshielded type mounting center. Overall height 3 3/4". Withstands vibration and temperature changes. Wt. 3 lbs.
No. 11754
Your Cost...$1.69

4-Tube Replacement Power Transformer
For sets using 2A3's:
27's, 35's, 51's, or 35, 55, 56, 57, 58, 2A3's.
2A7's, 2B1's, etc.: 1-45, 46, 47, and 48.
Following voltages available:
24 volts at 3.75-amps. C. T.
5 volts at 2 amps.
600 volts at 40-M. A. C. T.
Size: 2 1/4 x 3 1/4".
Mounting Centers: 2 x 2 1/2".
No. 6822
Your Cost...$2.50

Flush Mounting Type "PM"
Terminal chart supplied with each transformer, simplifying installation. High standards insure satisfactory service.

For 5 Tubes
Area: 2 1/2 x 3". Weight: 3 lbs.
Mounting Centers: 2 1/2 x 3".
2.5 volts at 7 amps.
650 volts at 50-M. A. C. T.
5 volts at 3 amps.
No. 6627—Cost...$86

For 5 Tubes
Area: 2 1/2 x 3 1/2". Weight: 4 lbs.
Mounting Centers: 2 1/2 x 3 1/2".
2.5 volts at 7.5 amps.
650 volts at 50-M. A. C. T.
5 volts at 3 amps.
No. 3342—Cost...$1.29

For 6 or 7 Tubes
Area: 3 1/2 x 3 1/2". Weight: 5 lbs.
Mounting Centers: 3 1/2 x 3 1/2".
2.5 volts at 7 amps.
700 volts at 30-M. A. C. T.
5 volts at 3 amps.
No. 5158—Cost...$1.50

4050—Cost...

For 8 or 9 Tubes
700 volts at 90-M. A. C. T.
Area: 3 1/2 x 3 1/2". Weight: 6 lbs.
2.5 volts at 10.5 amps.
2.5 volts at 10.5 amps.
5 volts at 3 amps.
700 volts at 100-M. A. C. T.
No. 6760
Your Cost...$1.73

For 10, 11 or 12 Tubes
Area: 3 1/4 x 3 1/4". Weight: 7 lbs.
Mounting centers 3 1/4 x 3 1/4".
2.5 volts at 15.1/2 amps.
2.5 volts at 15.1/2 amps.
5 volts at 3 amps.
700 volts at 110-M. A. C. T.
No. 6762
Your Cost...$2.27

Acratext UNIVERSEAL
REPLACEMENTS

THE "MULTI-MOUNT" POWER TRANSFORMER
Acratext Engineers have designed these transformers for general replacement service. They have a wide flexibility for various combinations of mounting holes. Each terminal lug is numbered and every transformer is provided with a schematic diagram for easy installation. The diagrams are thereby simplified.

For 6, 7 or 8 Tubes
5 type 24, 27, 35, or any combination 9 type 55, 56, 57, 58, 2A6, 2A7, 2B1, or any combination 1 type 45, 46, 47, 50, 2A5 1 type 80, 80M, 83, 523 2.5 volts e. t. at 8.75 amp. 2.5 volts e. t. at 8.75 amp. 5.0 volts e. t. at 2.0 amp. 5.0 volts e. t. at 2.0 amp. 700 volts e. t. at 110 mils. Dimensions: A-1 1/2" x C-1/4", C-1/4". Shpg. Wt. 6 lbs.
No. 5414
Your Cost, Each...$1.95

For 8, 9 or 10 Tubes
6 type '26' Type Tubes 1 type 27, 24, 35, 55, 56, 57 1 type 27, 24, 35, 55, 56, 57, 58 1.5 volts at 6.3 amp. 2.5 volts e. t. at 1.75 amp. 5.0 volts e. t. at 3.5 amp. 5.0 volts e. t. at 3.5 amp. 700 volts e. t. at 110 mils. Dimensions: A-1 1/2", B-3", C-3/4", C-3/4". Shpg. Wt. 7 lbs.
No. 6025
Your Cost, Each...$2.49

For 9 or 10 Tubes
7 type 24, 27, 35, or any combination 9 12 type 55, 56, 57, 2A6, 2B1, 2B7, or any combination 2 type 45, 46, 47, 50, 2A5 1 type 80, 80M, 83, 523 2.5 volts e. t. at 12.25 amp. 2.5 volts e. t. at 12.25 amp. 5.0 volts e. t. at 3.5 amp. 5.0 volts e. t. at 3.5 amp. 700 volts e. t. at 110 mils. Dimensions: A-2", B-3", C-3/4", C-3/4". Shpg. Wt. 8 lbs.
No. 5190—Your Cost...$3.35
### Audio Transformers

#### Audio and Chokes for All Replacement Purposes

A line of Genuine Thorndar Transformer and Chokes for use as replacement in almost any type of receiver where these components are used. Thorndar 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.

#### Audio Transformer Ratings

<table>
<thead>
<tr>
<th>Application</th>
<th>Type</th>
<th>Mounting</th>
<th>Ratio</th>
<th>Size</th>
<th>No.</th>
<th>Your Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interstage Coupling</td>
<td>Universal</td>
<td>1-3</td>
<td>235x1x1</td>
<td>11071</td>
<td>$1.03</td>
<td></td>
</tr>
<tr>
<td>Coupling</td>
<td>Open</td>
<td>1-3</td>
<td>135x2x3/4</td>
<td>11074</td>
<td>$1.18</td>
<td></td>
</tr>
<tr>
<td>Single plate (any type tube) to single grid (any type tube)</td>
<td>Universal</td>
<td>1-3</td>
<td>135x2x3/4</td>
<td>11075</td>
<td>$1.08</td>
<td></td>
</tr>
<tr>
<td>T-3767</td>
<td>Sub Panel</td>
<td>1-3</td>
<td>235x1x1</td>
<td>11077</td>
<td>$1.75</td>
<td></td>
</tr>
<tr>
<td>T-3768</td>
<td>Sub Panel</td>
<td>1-3</td>
<td>235x1x1</td>
<td>11080</td>
<td>$2.35</td>
<td></td>
</tr>
<tr>
<td>T-369*</td>
<td>Shielded</td>
<td>1-3</td>
<td>235x1x1</td>
<td>11080</td>
<td>$2.35</td>
<td></td>
</tr>
</tbody>
</table>

*Power/detection or high peak audio. For high quality amplifiers.

| Push-Pull Input | Universal | 1-3 | 135x2x3/4 | 11081 | $1.32 |
| Universal | 1-3 | 135x2x3/4 | 11082 | $1.18 |
| T-3769 | Sub Panel | 1-3 | 135x2x3/4 | 11083 | $1.32 |
| T-3767 | Sub Panel | 1-3 | 135x2x3/4 | 11084 | $1.32 |
| T-3764* | Sub Panel | 1-3 | 135x2x3/4 | 11084 | $1.32 |
| T-3741 | Sub Panel | 1-3 | 135x2x3/4 | 11085 | $2.00 |
| T-3743 | Sub Panel | 1-3 | 135x2x3/4 | 11086 | $2.06 |
| T-3404 | Shielded | 1-3 | 135x2x3/4 | 11087 | $2.65 |

**Specialty transformer designed for high quality amplifiers.**

| Push-Pull Interstage | Open | 1-3 | 235x2x3/4 | 11090 | $2.06 |
| T-3867 | Sub Panel | 1-3 | 235x2x3/4 | 11091 | $2.22 |
| T-3862* | Shielded | 1-3 | 235x2x3/4 | 11092 | $4.12 |

**Prime amplifier but should not be used in final Class "B" stages.**

#### Push-Pull Output Chokes

<table>
<thead>
<tr>
<th>Type</th>
<th>Characteristics</th>
<th>Size</th>
<th>No.</th>
<th>Your Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-102</td>
<td>Universal</td>
<td>1-3</td>
<td>235x2x3/4</td>
<td>11011</td>
</tr>
<tr>
<td>T-3747</td>
<td>Open</td>
<td>1-3</td>
<td>235x2x3/4</td>
<td>11012</td>
</tr>
<tr>
<td>T-3748</td>
<td>Sub Panel</td>
<td>1-3</td>
<td>235x2x3/4</td>
<td>11013</td>
</tr>
<tr>
<td>T-3749</td>
<td>Open</td>
<td>1-3</td>
<td>235x2x3/4</td>
<td>11014</td>
</tr>
</tbody>
</table>

#### Filter Chokes

<table>
<thead>
<tr>
<th>Type</th>
<th>Mounting</th>
<th>Hours</th>
<th>M.A. Rating</th>
<th>Ohms Res.</th>
<th>Size</th>
<th>No.</th>
<th>Your Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-105</td>
<td>Universal</td>
<td>10</td>
<td>75</td>
<td>135x2x3/4</td>
<td>11106</td>
<td>$1.03</td>
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</tr>
<tr>
<td>T-4707</td>
<td>Open</td>
<td>75</td>
<td>290</td>
<td>235x2x3/4</td>
<td>11107</td>
<td>$1.03</td>
<td></td>
</tr>
<tr>
<td>T-3752</td>
<td>Sub Panel</td>
<td>5</td>
<td>135</td>
<td>2x2x3/4</td>
<td>11109</td>
<td>$1.03</td>
<td></td>
</tr>
<tr>
<td>T-3754</td>
<td>Sub Panel</td>
<td>9.5</td>
<td>110</td>
<td>235x2x3/4</td>
<td>11111</td>
<td>$1.32</td>
<td></td>
</tr>
<tr>
<td>R-196</td>
<td>Shielded</td>
<td>15</td>
<td>85</td>
<td>375</td>
<td>235x2x3/4</td>
<td>11112</td>
<td>$1.76</td>
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<tr>
<td>T-1700</td>
<td>Shielded</td>
<td>8.5</td>
<td>150</td>
<td>235x2x3/4</td>
<td>11113</td>
<td>2.65</td>
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</tr>
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</table>

#### Transformer Ratings

<table>
<thead>
<tr>
<th>Type</th>
<th>Mounting</th>
<th>Hours</th>
<th>Secondary Secondary Size</th>
<th>No.</th>
<th>Your Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-107</td>
<td>Universal</td>
<td>10</td>
<td>Push-pull</td>
<td>15x2x2x3/4</td>
<td>11093</td>
</tr>
<tr>
<td>T-107</td>
<td>Same as R-107 above</td>
<td>10</td>
<td>Secondary</td>
<td>15x2x2x3/4</td>
<td>11094</td>
</tr>
<tr>
<td>T-3999</td>
<td>Open</td>
<td>6 to 12 mms</td>
<td>15x2x2x3/4</td>
<td>11095</td>
<td>1.33</td>
</tr>
<tr>
<td>T-3983</td>
<td>Shielded</td>
<td>50 or 40</td>
<td>15, 8-ohms 4000</td>
<td>11099</td>
<td>2.35</td>
</tr>
<tr>
<td>T-2850</td>
<td>Shielded</td>
<td>50 or 40</td>
<td>4000</td>
<td>11100</td>
<td>2.35</td>
</tr>
</tbody>
</table>

* *Not Class "B".*

Suitable for connection to any voice coil ranging from 6 to 12 ohms impedance.

### Class "B" Coupling Trans.

**INPUT**

- Plate of single grid to grids of push-pull grid 46", 54", x 235x2x3/4. Lugs on bottom. Shpg. Wt. 3 lbs.

**OUTPUT**

For coupling plate of push-pull 46" to 9, 15, 500, 4000 ohm loads. Size 235x2x3/4. Leads on bottom. Shpg. Wt. 3 lbs.

**No. 7127**

**Your Cost**

$1.45

#### Audio Choke for Screen-Grid Tubes

**Inductance**

- 600 henries at 5 amperes

Efficiency operates at maximum efficiency. Has lugs on bottom. Shpg. Wt. 2 lbs.

**No. 7776**

**Your Cost**

$9.80

**Universal Output**

**Jefferson 467-169**


**No. 6202**

**Your Cost**

$9.40

**Jefferson 467-170**


**No. 6326**

**Your Cost**

$10.03

**General Universal Output**

Primary single or push-pull, secondary: 2 to 30 ohms in 2-ohm steps. Overall dimensions 2x2x3/4 x 135x2x3/4. Mounting centers 135x2x3/4 to 135x2x3/4. Shpg. Wt. 2 lbs.

**No. 6327**

**Your Cost**

$9.20

**Jefferson Heavy Duty Filter Choke**

For radio receivers, amplifiers or transmitters. Resistance 200 ohms.

**30 Henries - 150 Mills**

**No. 6916**

- Wt. 3 lbs.

**Your Cost**

$98.00

**30 Henries - 80 Mills**


**No. 10728**

**Your Cost**

$72.00

**General Shielded Filter Chokes**

30 Henries, 150 Mills.

Fully shielded, suitable for mounting with lugs below ground. High purity material. Fully protected electrically and physically.

**30 Henries - 80 Mills**

**No. 3763**

**Your Cost**

$94.00
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 expert service. Furnished with 8-ft. cord and plug for primary.
80 Watt—Shpg. Wt. 6 lbs.
Your Cost $2.05
160 Watt—Shpg. Wt. 9 lbs.
Your Cost $2.80
350 Watt—Shpg. Wt. 11 lbs.
Your Cost $6.95

Class "B" Power Transformer
For Public Address Amplifiers and High Powered Radios
A specially designed power transformer by Aeratex, utilizing standard type tubes; makes possible the construction of a power amplifier or radio receiver having an output of approximately 20 watts. 780 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" x 3¼" x 3¾". Mounted: 3½" x 3½" x 7½". No. 7125
Your Cost $2.95

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-action switch. Black steel case, 4¼" x 7" x 6½". All units deliver up to 100 watts. For 70 to 150-Volt Line
No. 1134—Primary 70-80-90-100-
110-120- or 130 volts. Secondary 110 volts. 60-cycle 500 cycles. Your Cost $7.94
For 100 to 190-Volt Line
No. 1134—Primary 100-110-

Universal Push-Pull Output Transformer
For Mixer and Microphone Amplifiers
Matches 7 ½ A's to 30 A's. 350, 450, 450, 450, 350, 243. 243 power speakers and line.
Has two secondaries: 4000 ohms tapped at 500; 15 ohms tapped at 9. Shpg. Wt. 2 lbs.
No. 6927
Your Cost $1.57

Mike-Pickup Input Transformer
Will match standard 200-ohm microphone pickup stage. Secondary impedance 15,000 ohms. Two sections 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. No additional terminals. Vertical mounting. Can be used to replace burnt-out chokes or in new receivers.
No. 8244
Your Cost $2.95

Amateur Attention
Modulation Choke
For Real Heavy Duty 30 Henry—150 Ma.
Tube Testing Trans.

Acratex 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.
No. 31639
Your Cost $89

Filament Transformers
For use as preheaters, shortwave, filament supply, etc. All taps clearly marked.
Primary 110-125 volts, 50-60 cycles A. C.
2½ Volts at 3½ Amps.
No. 15532—Wt. 1 lb.
Your Cost $39

For 140 to 260-V. Line
No. 11350—Primary 140-160-
200-220-240 or 260 Volts. Secondary 110 Volts. 50-60 Cycles. Your Cost $8.53

For 10 Volt Line
No. 11351—Primary 10-15-
20-25-30-35 or 40 volts. Secondary 110 Volts. 50-60 Cycles. Your Cost $8.23

No. 7145
Your Cost $1.05

No. 11351
Your Cost $8.23

Bargains in High Grade Audios

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 Transformer; matches Single 47 or 245 to 5-15 ohm voice-coil.
No. 15548—P. P. Output Transformer; matches P. P. 45 or 71A to voice-coil.
No. 15549—P. P. Output Transformer; matches P. P. 47's or 2A3's to voice-coil.

Shielded Push-Pull Input Transformer
Fully shielded, high-grade transformer. Excellent frequency range provided by larger core and more liberal windings. Ideal for replacements. Used with all standard tubes; matches single plate to push-pull. Shpg. Wt. 2 lbs.
No. 15559
Your Cost, Each $59

FEDERATED PURCHASER, INC.
"600" Peak Dry Electrolytic

Specially constructed for replacement in sets, amplifiers where the surge voltage is over 500 volts. Constructed in the standard ACRA TEST manner except that the peak voltage is 600 and the working voltage 475. They make ideal replacement for all types of power packs and receivers. In cardboard box with two flexible leads.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>0254</td>
<td>2</td>
<td>.20</td>
</tr>
<tr>
<td>0255</td>
<td>4</td>
<td>.45</td>
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<tr>
<td>0256</td>
<td>6</td>
<td>.55</td>
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<td>0258</td>
<td>8</td>
<td>.79</td>
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<tr>
<td>9386</td>
<td>10</td>
<td>.95</td>
</tr>
</tbody>
</table>

"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.

<table>
<thead>
<tr>
<th>No.</th>
<th>Cap.</th>
<th>Mfd.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11451</td>
<td>4</td>
<td>200</td>
<td>.33</td>
</tr>
<tr>
<td>11452</td>
<td>8</td>
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<td>450</td>
<td>.55</td>
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<tr>
<td>11461</td>
<td>12</td>
<td>450</td>
<td>.79</td>
</tr>
</tbody>
</table>

Cap. Peak Your No. Mfd. Volts Cost

6491 | 1    | 500  | .24   |
6492 | 2    | 500  | .29   |
7695 | 2    | 220  | .29   |
7696 | 4    | 220  | .32   |
8312 | 4    | 120  | .70   |
6540 | 4    | 4    | .69   |
7734 | 4    | 8    | .76   |
7735 | 8    | 8    | .82   |

NOTE: A condenser for every purpose is listed in our 335-page No. 18 Catalog. A complete list of your hands absolutely free of charge. Write to-day!

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 condensers, blocks and dual or triple electrolytics. Red is positive and black is negative. Sizes 2" x 1" x 1".

Round Aluminum Can "Multiple Section" Dry Electrolytic Condensers

Can be mounted in any position. Made in sturdy aluminum can. Long life.

<table>
<thead>
<tr>
<th>No.</th>
<th>Capacity</th>
<th>Diam.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>3316</td>
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<tr>
<td>3318</td>
<td>8-8</td>
<td>1.13</td>
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<tr>
<td>3319</td>
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<td>3324</td>
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<td>3326</td>
<td>8-8-8</td>
<td>.35</td>
<td>.35</td>
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<tr>
<td>3332</td>
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<td>3334</td>
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<td>3338</td>
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</tr>
<tr>
<td>3340</td>
<td>8-8-8</td>
<td>.35</td>
<td>.35</td>
</tr>
</tbody>
</table>

Tubular Pigtail Electrolytic 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.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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<td>25</td>
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<td>9.30</td>
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<td>16.94</td>
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<td>75</td>
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<td>6531</td>
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<tr>
<td>6532</td>
<td>150</td>
<td>95</td>
<td>37.94</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>6493</td>
<td>4</td>
</tr>
<tr>
<td>6495</td>
<td>8</td>
</tr>
</tbody>
</table>

Power Electrolytic Filter Condensers

1000 Peak Voltage

800 Working Voltage

Low power factor, high filtering efficiency. Highest voltage electrolytic condensers made. Perfect inexpensive filtering for power amplifiers and transmitters. For first condenser in filter with condenser input.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd. Dimensions</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>6551</td>
<td>125 x 125 x 125 x 125</td>
<td>.07</td>
</tr>
<tr>
<td>6552</td>
<td>250 x 250 x 250 x 250</td>
<td>.08</td>
</tr>
<tr>
<td>6553</td>
<td>375 x 375 x 375 x 375</td>
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<tr>
<td>10125</td>
<td>.05 x 1.000</td>
<td>.10</td>
</tr>
<tr>
<td>10126</td>
<td>.05 x 1.000</td>
<td>.11</td>
</tr>
<tr>
<td>10127</td>
<td>.05 x 1.000</td>
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<td>10132</td>
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<td>10135</td>
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<td>.20</td>
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</table>

EXCEPTIONAL VALUES LISTED ON BARGAIN PAGES 61-63

ACRA TEST ELECTROLYTICS

Compactness, long life, low power factor, stability in operation, and LOW COST make ACRA TEST Electrolytics the FIRST CHOICE of the serviceman for replacement, work. Conservatism ratings and high manufacturing standards are YOUR GUARANTEE of satisfaction.
## Type "EE" — 525 Surge Peak Voltage

**450 Volts D. C. Working**
Standard Universal Mounting Condensers in Round Aluminum Cases, furnished with mounting rings.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfns. Dia.</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>9776</td>
<td>4</td>
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<tr>
<td>9777</td>
<td>8</td>
<td>$1.75</td>
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<tr>
<td>9778</td>
<td>8-10</td>
<td>$2.15</td>
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<td>9779</td>
<td>8-16</td>
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<td>9780</td>
<td>8-8-8</td>
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<tr>
<td>9781</td>
<td>9-9-18</td>
<td>$3.25</td>
</tr>
<tr>
<td>9782</td>
<td>9-9-18</td>
<td>$4.75</td>
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</table>

**Double Section Condensers**

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfns. Dia.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>9783</td>
<td>6 1/4 x 8 x 1/4</td>
<td>$1.59</td>
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<tr>
<td>9784</td>
<td>6 1/4 x 8 x 1/4</td>
<td>$1.15</td>
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<td>9785</td>
<td>6 1/4 x 10 x 1/4</td>
<td>$1.25</td>
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<td>9786</td>
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<tr>
<td>9787</td>
<td>6 1/4 x 10 x 1/4</td>
<td>$1.60</td>
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</table>

### Cardboard Containers

#### Cardboard Contaminants

**Type PB-25**
25 V. D. C. Working

<table>
<thead>
<tr>
<th>Cost</th>
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<tbody>
<tr>
<td>$0.47</td>
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</table>

**Type PB-50**
50 V. D. C. Working

<table>
<thead>
<tr>
<th>Cost</th>
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<tbody>
<tr>
<td>$0.47</td>
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</table>

### Cardboard Tube Electrolytic Condensers

**Type PR100**
100 V. D. C. Working

<table>
<thead>
<tr>
<th>Cost</th>
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<tbody>
<tr>
<td>$0.32</td>
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</table>

**Type PR150**
150 V. D. C. Working

<table>
<thead>
<tr>
<th>Cost</th>
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<tbody>
<tr>
<td>$0.55</td>
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</tbody>
</table>

**Type PR2**
200 V. D. C. Working

<table>
<thead>
<tr>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>$0.41</td>
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</tbody>
</table>

**Type PR50**
50 V. D. C. Working

<table>
<thead>
<tr>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$0.41</td>
</tr>
</tbody>
</table>

### Cardboard Container Condensers—With Wire Leads & Mfg. Flanges

**Type PM5**
With four insulated wire connections for circuits where either common negative or common positive condensers are used.

<table>
<thead>
<tr>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$0.71</td>
</tr>
</tbody>
</table>

### Cardboard Container By-Pass Condensers

**Type PM-5**
The smallest electrolytic made in equivalent capacities. Dry, free from leakage, seepage and corossion. May be mounted closely together without electrostatic contact. All units provided with flexible rubber-covered leads.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfns. Dia.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>10520</td>
<td>4 1/4 x 1 1/4 x 1/4</td>
<td>$0.32</td>
</tr>
<tr>
<td>10521</td>
<td>4 1/4 x 1 1/4 x 1/4</td>
<td>$0.35</td>
</tr>
<tr>
<td>10522</td>
<td>6 1/4 x 1 1/4 x 1/4</td>
<td>$0.53</td>
</tr>
<tr>
<td>10523</td>
<td>8 1/4 x 1 1/4 x 1/4</td>
<td>$0.56</td>
</tr>
</tbody>
</table>

**Double Section Condensers**

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfns. Dia.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>10524</td>
<td>4 1/4 x 2 1/4 x 2</td>
<td>$0.71</td>
</tr>
<tr>
<td>10525</td>
<td>4 1/4 x 2 1/4 x 2</td>
<td>$0.75</td>
</tr>
<tr>
<td>10527</td>
<td>8 1/4 x 2 1/4 x 2</td>
<td>$0.88</td>
</tr>
</tbody>
</table>

### Type "EE" — 525 Surge Peak Voltage

**525 Surge Peak Voltage**

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfns. Dia.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>9789</td>
<td>4 1/4 x 8 x 1/4</td>
<td>$0.65</td>
</tr>
</tbody>
</table>

## New "Space Saver — Type PBS"

**Midget Electrolytics**

Where more capacity and higher working voltage are required, the new Space Saver models are ideal.

No sacrifice in working voltage capacity, or economical service life, yet a positive startling reduction in bulk! All models enclosed in cardboard containers, imprimated, fully sealed. Flanges for ready mounting. Leads color-coded for polarity.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Capacity</th>
<th>D. C.</th>
<th>Size</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11258</td>
<td>PBS2</td>
<td>4</td>
<td>2 1/4 x 3/4 x 1/4</td>
<td>$0.38</td>
<td></td>
</tr>
<tr>
<td>11259</td>
<td>PBS3</td>
<td>8</td>
<td>2 1/4 x 3/4 x 1/4</td>
<td>$0.45</td>
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</tr>
<tr>
<td>11260</td>
<td>PBS4</td>
<td>10</td>
<td>2 1/4 x 3/4 x 1/4</td>
<td>$0.50</td>
<td></td>
</tr>
<tr>
<td>11261</td>
<td>PBS5</td>
<td>12</td>
<td>2 1/4 x 3/4 x 1/4</td>
<td>$0.56</td>
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</tr>
<tr>
<td>11262</td>
<td>PBS6</td>
<td>16</td>
<td>2 1/4 x 3/4 x 1/4</td>
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<tr>
<td>11263</td>
<td>PBS7</td>
<td>20</td>
<td>2 1/4 x 3/4 x 1/4</td>
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<tr>
<td>11264</td>
<td>PBS8</td>
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<td>2 1/4 x 3/4 x 1/4</td>
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<tr>
<td>11265</td>
<td>PBS9</td>
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<td>2 1/4 x 3/4 x 1/4</td>
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<td>PBS10</td>
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<td>$0.85</td>
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</tr>
<tr>
<td>11267</td>
<td>PBS11</td>
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<td>2 1/4 x 3/4 x 1/4</td>
<td>$0.85</td>
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</tbody>
</table>

**Cardboard Container Type PB**

**255 Surge Peak Voltage**

These units make ideal replacements for condensers in all type receivers. Wax-imregnated cardboard boxes to reduce their cost to a minimum.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfns. Dia.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>9803</td>
<td>6 1/4 x 8 x 1/4</td>
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<tr>
<td>9805</td>
<td>6 1/4 x 8 x 1/4</td>
<td>$0.35</td>
</tr>
<tr>
<td>9806</td>
<td>6 1/4 x 10 x 1/4</td>
<td>$0.35</td>
</tr>
<tr>
<td>20941</td>
<td>12 1/4 x 1 1/4 x 1/4</td>
<td>$0.76</td>
</tr>
</tbody>
</table>

### Double Section Cond.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfns. Dia.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>9807</td>
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<td>$0.71</td>
</tr>
<tr>
<td>9808</td>
<td>4 1/4 x 8 x 1/4</td>
<td>$0.71</td>
</tr>
<tr>
<td>9809</td>
<td>8 1/4 x 1 1/4 x 1/4</td>
<td>$0.88</td>
</tr>
<tr>
<td>9810</td>
<td>8 1/4 x 1 1/4 x 1/4</td>
<td>$0.88</td>
</tr>
</tbody>
</table>

## Type "II" — Insulated 525 Surge Peak Voltage

These standard size, single-section, inverted mounting units are furnished in insulated mounting types, having an insulating box integral with the cover and provided with a negative lug riveted to the can. Extensively used in filter circuits of standard sets. 450 volts D. C. working.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfns. Dia.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>10516</td>
<td>6 1/4 x 2 1/4 x 1/4</td>
<td>$0.74</td>
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<td>10517</td>
<td>6 1/4 x 2 1/4 x 1/4</td>
<td>$0.74</td>
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<td>10518</td>
<td>10 1/4 x 2 1/4 x 1/4</td>
<td>$0.78</td>
</tr>
<tr>
<td>10519</td>
<td>12 1/4 x 2 1/4 x 1/4</td>
<td>$0.82</td>
</tr>
</tbody>
</table>

### Type "EE" — Dual Sections

**525 Surge Peak Voltage**

A very compact, can-type condenser for midget receivers, 1/16" in diameter.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfns. Dia.</th>
<th>Cost</th>
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<tbody>
<tr>
<td>9789</td>
<td>6 1/4 x 8 x 1/4</td>
<td>$0.44</td>
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<tr>
<td>9787</td>
<td>8 1/4 x 8 x 1/4</td>
<td>$0.76</td>
</tr>
<tr>
<td>9785</td>
<td>8 1/4 x 8 x 1/4</td>
<td>$0.76</td>
</tr>
</tbody>
</table>

### Type "EMI" — Single Section

**525 Surge Peak Voltage**

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfns. Dia.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>9791</td>
<td>8 1/4 x 8 x 1/4</td>
<td>$0.62</td>
</tr>
</tbody>
</table>

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FEDERATED PURCHASER, Inc.
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.

Cap. Working Voltage

<table>
<thead>
<tr>
<th>No.</th>
<th>Mfd.</th>
<th>Volt Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>9556</td>
<td>.01</td>
<td>400 5.00</td>
</tr>
<tr>
<td>9557</td>
<td>.02</td>
<td>400 5.00</td>
</tr>
<tr>
<td>9558</td>
<td>.03</td>
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<td>.05</td>
<td>400 3.00</td>
</tr>
<tr>
<td>9560</td>
<td>.10</td>
<td>400 3.00</td>
</tr>
<tr>
<td>9561</td>
<td>.25</td>
<td>400 1.90</td>
</tr>
<tr>
<td>9562</td>
<td>.50</td>
<td>400 1.90</td>
</tr>
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<td>600 1.00</td>
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<td>9569</td>
<td>.10</td>
<td>600 1.00</td>
</tr>
<tr>
<td>9570</td>
<td>.25</td>
<td>600 2.20</td>
</tr>
<tr>
<td>9571</td>
<td>1-2</td>
<td>600 2.20</td>
</tr>
<tr>
<td>9572</td>
<td>.006</td>
<td>1000 1.20</td>
</tr>
<tr>
<td>9573</td>
<td>.01</td>
<td>1000 1.20</td>
</tr>
<tr>
<td>9574</td>
<td>.02</td>
<td>1000 1.20</td>
</tr>
<tr>
<td>9575</td>
<td>.03</td>
<td>1000 1.20</td>
</tr>
<tr>
<td>9576</td>
<td>.05</td>
<td>1000 1.20</td>
</tr>
<tr>
<td>9577</td>
<td>.10</td>
<td>1000 1.20</td>
</tr>
<tr>
<td>9578</td>
<td>.25</td>
<td>1000 2.20</td>
</tr>
</tbody>
</table>

Universal Tubular Replacement Condensers

- **KOM**
- **MFD**
- **2000**
- **14 MFD**
- **2000**

A very satisfactory condenser assembly for replacement on the vast majority of compact receivers. Capacities as indicated in diagram, 1/4" diam., 1/2" long. Spade lugs are provided for easy mounting.

**Your Cost** $1.32

**Sparton By-Pass Condensers**

*These are exact duplicates of high grade condensers for the Sparten by-pass condenser sets listed below. Made express to replace the units designated by the manufacturer's part no.*

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Mfd. DC W.V. Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11275</td>
<td>.5 400 33c</td>
</tr>
<tr>
<td>11276</td>
<td>1.0 200 33c</td>
</tr>
<tr>
<td>11277</td>
<td>25 600 33c</td>
</tr>
</tbody>
</table>

**Mica Condensers Type 1467**

A very popular type mica condenser. Two soldering lug terminals. **Test Volts 500**. Two holes are provided in bakelite for screwing down.

**Capacity**

- **No.**
- **Mfd.**
- **Cost**

**Type 1460**

A popular type of mica condenser used by experimenters and Amateur Radio operators. High-voltage type, 1,000 volts test, 1/4" square.

**Capacity**

- **No.**
- **Mfd.**
- **Cost**

**High Voltage Mica Condensers Type 1450**

**NOTE!** A complete stock list 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.
**Acratést**

**Hi-Volt Service Sections**

This line of Acratést Capacitors is the first to be manufactured in this country having the properties of high voltage-ratings in a small space. They are protected against moisture; wrapping in Emolare paper, withstand- ing very high voltage. Number of section breaking down against metal chassis. End seal- ing is hard, high-temperature wax. Leads are coded to show outside foil, so condenser is self- shielding.

<table>
<thead>
<tr>
<th>No.</th>
<th>Capacity Volts</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>10135</td>
<td>25 mfd. 600</td>
<td>$.04</td>
</tr>
<tr>
<td>10136</td>
<td>25 mfd. 660</td>
<td>$.04</td>
</tr>
<tr>
<td>10140</td>
<td>1.0 mfd. 600</td>
<td>$.56</td>
</tr>
<tr>
<td>10141</td>
<td>2.0 mfd. 600</td>
<td>$.60</td>
</tr>
<tr>
<td>10142</td>
<td>25 mfd. 1000</td>
<td>$.35</td>
</tr>
<tr>
<td>10143</td>
<td>5.0 mfd. 1000</td>
<td>$.45</td>
</tr>
<tr>
<td>10144</td>
<td>1.0 mfd. 1200</td>
<td>$.50</td>
</tr>
<tr>
<td>10145</td>
<td>2.0 mfd. 1200</td>
<td>$.56</td>
</tr>
</tbody>
</table>

**ATWATER-KENT**

**By-Pass Condensers**

| Ear Models | 37, 38, 49, 42, 44, 46 |

Guaranteed condensers to fit limited space in these ATWATER-KENT receivers. May also be used in SPARTON By-Pass Condensers for Sparten Receivers. 2½" long, 1½" in diameter. Bracket on end for 6-32 screw. Mounting lug with slot at side. Full capacity and voltage rating.

**Sparton Condensers**

Replace that troublesome leaky con- denser in the Colonial Model 32 with these compact, high-grade replacement units. Part No. 1784-SA. Yellow, 1 mfd.; Green, 1 mfd.; Brown, 2 mfd.; Red, 1 mfd. Can Negative 3" base, 2½" high; 2" wide.

**MAJESTIC Complete L.F.**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Stage</th>
<th>No.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>7739</td>
<td>20</td>
<td>1st</td>
<td>3908</td>
<td>$1.50</td>
</tr>
<tr>
<td>7740</td>
<td>20</td>
<td>2nd</td>
<td>3907</td>
<td>$1.50</td>
</tr>
<tr>
<td>7741</td>
<td>20</td>
<td>3rd</td>
<td>4439</td>
<td>$1.85</td>
</tr>
<tr>
<td>7742</td>
<td>20</td>
<td>4th</td>
<td>4267</td>
<td>$1.50</td>
</tr>
<tr>
<td>5851</td>
<td>15-35</td>
<td>2nd</td>
<td>4429</td>
<td>$1.85</td>
</tr>
<tr>
<td>10243</td>
<td>460</td>
<td>1st</td>
<td>10149</td>
<td>$1.50</td>
</tr>
<tr>
<td>10244</td>
<td>460 (coil)</td>
<td>2nd</td>
<td>10253</td>
<td>$1.31</td>
</tr>
</tbody>
</table>

**MAJESTIC Coils Only**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Stage</th>
<th>No.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11196</td>
<td>15</td>
<td>1st</td>
<td>4428</td>
<td>$.41</td>
</tr>
<tr>
<td>11197</td>
<td>15</td>
<td>2nd</td>
<td>8584</td>
<td>$.41</td>
</tr>
<tr>
<td>12067</td>
<td>25</td>
<td>1st</td>
<td>5200</td>
<td>$.41</td>
</tr>
<tr>
<td>12068</td>
<td>25</td>
<td>2nd</td>
<td>5201</td>
<td>$.41</td>
</tr>
<tr>
<td>12362</td>
<td>25B</td>
<td>1st</td>
<td>6506</td>
<td>$.41</td>
</tr>
<tr>
<td>12363</td>
<td>25B</td>
<td>2nd</td>
<td>6507</td>
<td>$.41</td>
</tr>
<tr>
<td>12364</td>
<td>115</td>
<td>1st</td>
<td>9555</td>
<td>$.41</td>
</tr>
<tr>
<td>10901</td>
<td>20</td>
<td>1st</td>
<td>9561</td>
<td>$.41</td>
</tr>
<tr>
<td>10902</td>
<td>20</td>
<td>2nd</td>
<td>9562</td>
<td>$.41</td>
</tr>
<tr>
<td>10903</td>
<td>20</td>
<td>3rd</td>
<td>9563</td>
<td>$.41</td>
</tr>
<tr>
<td>10904</td>
<td>20</td>
<td>4th</td>
<td>6247</td>
<td>$.41</td>
</tr>
<tr>
<td>11019</td>
<td>440</td>
<td>1st</td>
<td>10388</td>
<td>$.41</td>
</tr>
<tr>
<td>11290</td>
<td>440</td>
<td>2nd</td>
<td>10528</td>
<td>$.50</td>
</tr>
</tbody>
</table>

**RCA-VICTOR**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Stage</th>
<th>No.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>32330</td>
<td>80-82-56</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32331</td>
<td>80-82-56</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32332</td>
<td>80-82-56</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32333</td>
<td>M34-M105</td>
<td>1st</td>
<td>3636</td>
<td></td>
</tr>
<tr>
<td>32334</td>
<td>M34-M105</td>
<td>2nd</td>
<td>3637</td>
<td></td>
</tr>
<tr>
<td>32335</td>
<td>P (coil)</td>
<td>Output I. F.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32336</td>
<td>P (coil)</td>
<td>Input I. F.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32337</td>
<td>10 (coil)</td>
<td>1st &amp; 2nd</td>
<td>8567</td>
<td>$.41</td>
</tr>
<tr>
<td>32338</td>
<td>12 (coil)</td>
<td>1st &amp; 2nd</td>
<td>8566</td>
<td>$.41</td>
</tr>
<tr>
<td>32339</td>
<td>14 (coil)</td>
<td>1st &amp; 2nd</td>
<td>8565</td>
<td>$.41</td>
</tr>
<tr>
<td>32340</td>
<td>16 (coil)</td>
<td>1st &amp; 2nd</td>
<td>8564</td>
<td>$.41</td>
</tr>
</tbody>
</table>

---

**FEDERATED PURCHASER, Inc.**

50
### Sub-Panel Sockets
- Made for test instruments, transmitting and receiving
- Your Cost: $10
- No. Procs Each
- 5875 4 12c $1.15
- 5876 5 15c 1.45
- 6586 6 15c 1.35
- 10017 7 (small) 1.15 1.45
- 11471 8 (offset)* 24c 2.30

### Bakelite Wafer Sockets
- Standard-size sockets have 1/8" mounting centers.
- Midget-size sockets (used in compact A.C., D.C., etc.) have 1/4" mounting centers. Fine-quality bakelite with fast-grip contacts.

#### Standard Size
<table>
<thead>
<tr>
<th>No. Procs Each</th>
<th>Your Cost</th>
<th>Midget Size</th>
<th>Your Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>8026 4 5c</td>
<td>47c</td>
<td>8011 4 5c</td>
<td>47c</td>
</tr>
<tr>
<td>8024 5 5c</td>
<td>47c</td>
<td>8012 5 5c</td>
<td>47c</td>
</tr>
<tr>
<td>8025 6 5c</td>
<td>47c</td>
<td>8013 6 (small) 5c</td>
<td>47c</td>
</tr>
<tr>
<td>8028 7 (small) 5c</td>
<td>47c</td>
<td>8014 7 (offset)* 5c</td>
<td>47c</td>
</tr>
<tr>
<td>8027 7 (large) 5c</td>
<td>47c</td>
<td>11473 7 (offset)* 5c</td>
<td>47c</td>
</tr>
</tbody>
</table>

#### Midget Size
- For ALL-METAL tubes.

### Cliptite Sockets
- Slotted metal plate.
- Bakelite
- Your Cost
- No. Procs Each
- 10978 4 $7c
- 10979 5 $7c
- 10980 6 $7c
- 10981 7 (small) $7c
- 10982 7 (large) $7c
- 11474 8 (offset)* $9c
- *For new METAL tubes.

### Binding Posts
- Designed for short-wave work. Glazed top and sides.
- Your Cost
- No. Procs Each for
- 6005 4 $2.25
- 6006 5 $2.65
- 6007 6 $2.85
- 6008 7 (small) $2.85
- 6009 7 (large) $2.85
- 11470 8 (offset)* $3.30

### ISOLANTITE Socket$"s
- Designed for laborator use.
- Molded bakelite with special phosphor-bronze - springs and knurled posts.

#### 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
- Your Cost, Each
- Ten for $1.85

#### Solderless Phone Tip
An item every service man wants. Insert wire, screw up knurled sleeve, and connection is made. Brass nickel-plated.
- No. 7185
- Your Cost, Each
- Per Dozen

#### Twin Jacks
- Takes standard phone plugs. Made of genuine bakelite, brown finish.

#### Tip Jack
- Standard Phone Tip Jack. Nickel-plated with solder lug. Fits a quarter-inch hole and can pass a panel 3/4" thick.
- No. 5629
- Your Cost, Each
- Per Dozen

#### Insulated Jack
- For Phone Tips or Test Prods. Mounts on 1/4" hole.
- No. 5045
- Your Cost, Each
- Per 144

#### Porcelain Base
- Glazed white porcelain bases, copper blades, screw lug connections. 125 volts at 25 amperes.
- Your Cost
- No. Type Each Box of 10
- 4159 S.P.D.T. $1.15
- 4177 S.P.D.T. .12 1.85
- 4178 D.P.S.T. .17 1.65
- 4179 D.P.S.T. .18 1.80

#### Bakelite Base
- Your Cost
- No. Type Each Box of 10
- 11513 S.P.D.T. $2.45
- 11514 S.P.D.T. .32 2.45
- 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 120 volts. Furnished with two lock-nuts. Excellent for laboratory work.

#### Long Shank “On-Off” Switch
- Single circuit. Shank is 3/4" long and 1/4" diam.
- No. 4110 - Your Cost 18c

#### Single Pole-Double Throw
- Phone-Radio combination, etc.
- No. 4104 - Your Cost 19c

#### 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, 3/16" long. Prove to Board of Underwriters.
- No. 5284 - Your Cost 16c

#### 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"
- Your Cost, Each
- Per 144

#### Standard Phone Tip
- Nickel-plated brass phone tips, standard size.
- No. 5091 - Package of 12.
- Your Cost

#### Double Pole-Double Throw
- Heavy-duty toggle switch.
- No. 4112 - Your Cost 15c

#### Two-Way - Two Circuit
- Makes one circuit and breaks the other. For test panels, analyzers, etc.
- No. 5285 - Your Cost 29c

#### 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 1/2" wide.
- No. 9098 - Your Cost 9c

#### Double Pole-Double Throw
- Size of base 1 1/4" long and 1 1/2" wide.
- No. 9090 - Your Cost 24c

### NOTE: We can quote any type of special switch not listed on this page to fill any special test requirements.
**Acratest**

**Volume Controls**

Carbon Type
Tapered
Potentiometers
for every Circuit

Without Switch

**Cost**

28¢

With Switch

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 5/8" bushings. Quiet in operation. Lists fit every requirement.

Without Switch

Switch

Ohms

10857
1000

10858
2500

10859
1000

10906
10000

10910
10000

10952
25000

10902
5000

10953
5000

10904
10000

10906
50000

10907
1 meg.

Type of Circuit

No.

10886
Antenna Shunt.

10887
Antenna Shunt, "C" Bias.

10888
Antenna Shunt.

10889
Antenna Shunt, "C" Bias and Ant.

10890
Antenna Shunt, "C" Bias and Ant.

10891
Screen Voltage or Tone Control.

10892
"C" Bias Control.

10893
Screen Voltage or Tone Control.

10894
Audio Shunt or Tone Control.

10895
Audio Shunt or Tone Control.

10896
Audio Shunt or Tone Control.

10897
Audio Shunt or Tone Control.

**ClaroStat**

**Wire Wound Ad-A-Switch**

Case 1/4" dia., 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.

**Volume Controls**

<table>
<thead>
<tr>
<th>Ohmage</th>
<th>Your Cost Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>7026</td>
<td>50A</td>
</tr>
<tr>
<td>7027</td>
<td>200A</td>
</tr>
<tr>
<td>7028</td>
<td>300A</td>
</tr>
<tr>
<td>7029</td>
<td>500A</td>
</tr>
<tr>
<td>7030</td>
<td>750A</td>
</tr>
<tr>
<td>7033</td>
<td>1,000A</td>
</tr>
<tr>
<td>7031</td>
<td>1,000B</td>
</tr>
<tr>
<td>7032</td>
<td>2,000A</td>
</tr>
<tr>
<td>7034</td>
<td>2,000C</td>
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<td>3,000C</td>
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<td>5,000A</td>
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<tr>
<td>7038</td>
<td>5,000C</td>
</tr>
<tr>
<td>7039</td>
<td>7,500A</td>
</tr>
<tr>
<td>7040</td>
<td>7,500C</td>
</tr>
</tbody>
</table>

**Line Cord Resistors**

For A.C.-D.C. Sets

<table>
<thead>
<tr>
<th>No.</th>
<th>8292—360 ohms. For 2-tube sets.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>8292—290 ohms. For 4-tube sets using 12-volt rectifier.</td>
</tr>
<tr>
<td>No.</td>
<td>8292—220 ohms. For 4-tube sets using 25-volt rectifier.</td>
</tr>
<tr>
<td>No.</td>
<td>8292—180 ohms. For 4-tube or 5-tube sets.</td>
</tr>
<tr>
<td>No.</td>
<td>8330—100 ohms. For 5-tube sets.</td>
</tr>
<tr>
<td>No.</td>
<td>8331—140 ohms. For 6-tube sets.</td>
</tr>
</tbody>
</table>

**New ELECTRAD Volume Controls**

Controls up to 5000 ohms wire-wound. Molded bakelite case. Control extends only 3 1/2" behind panel. Metal end cover can be removed for snap-on switch. Comes with long shaft to be cut to proper size.

**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. in U. S. receptacle on one end, European plug on other.

<table>
<thead>
<tr>
<th>No.</th>
<th>340 ohms. For 220 volt-operation of 30 métal magnet sets drawing about 35 watts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>10246—59¢</td>
</tr>
<tr>
<td>No.</td>
<td>440 ohms. For 250 volt-operation of above set.</td>
</tr>
<tr>
<td>No.</td>
<td>295 ohms. For 250 volt-operation of above set.</td>
</tr>
<tr>
<td>No.</td>
<td>375 ohms. For 250 volt-operation of above set.</td>
</tr>
<tr>
<td>No.</td>
<td>10432—69¢</td>
</tr>
<tr>
<td>No.</td>
<td>10431—69¢</td>
</tr>
</tbody>
</table>

**Electrad Type "U" Attenuator**

Maintains constant impedance to only one side of the line. Panel unit is series resistor, and rear unit is shunt resistor.

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Imped. Your Cost, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>11330</td>
<td>L15</td>
<td>15</td>
</tr>
<tr>
<td>11331</td>
<td>L200</td>
<td>200</td>
</tr>
<tr>
<td>11332</td>
<td>L250</td>
<td>250</td>
</tr>
<tr>
<td>11333</td>
<td>L300</td>
<td>300</td>
</tr>
<tr>
<td>11334</td>
<td>L350</td>
<td>350</td>
</tr>
<tr>
<td>11335</td>
<td>U15</td>
<td>15</td>
</tr>
<tr>
<td>11336</td>
<td>U400</td>
<td>400</td>
</tr>
<tr>
<td>11337</td>
<td>U1000</td>
<td>1000</td>
</tr>
</tbody>
</table>
VOLUME CONTROLS

YAXLEY Volume Controls

Replacement for Over 3,000 Set Models

PRICES SLASHED!

Brand New: Guaranteed

Centralab

Improved Radiomhs

Shaft 2 1/2" long, milled flat. May be cut to fit size needed. Diameter of controls only 1 1/8", with a resistance area of 1.025 sq. in. Patented, non-scrubbing contact. C-H power switch approved by Board of Underwriters.

No. Ohmage Taper
12234 500 A
12243 1,000 A
12245 1,500 A
12247 2,000 A
12248 2,500 A
12250 3,000 A
12251 4,000 A
12252 5,000 A
12253 6,000 A

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 Radiomhs

List 52.00
Your Cost, Each... 39c

Switch Cover Plate
Nos. 9200—List 50c
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

VICTOR Replacements

For Models RS2, RE45, RS2 and RE75

The Genuine Victor Volume Control—Designed to be absolutely trouble-proof and noiseless. Metal strap holds two units rigidly. Shp. Wt. 17 lbs. No. 7450

Your Cost... 85c

ACRATEST Wire—Wound C. T. Resistors

No. Ohms No. Ohms No. Ohms
7344 6 7346 25 7348 90
7344 15 7346 60
7346 25 7348 100
7345 60 7347 300
Your Cost, Each... 8c

ACRATEST Variable Resistors

Replacement Voltage Dividers for Automatic 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

No. Ohms M. A.
9625 500 316
9627 1,000 224
9629 2,000 158
9630 2,500 141
9631 3,000 126
9632 4,000 112
9632 5,000 100
9633 6,000 91
9634 7,000 84
9635 8,000 79
9636 9,000 73
9637 10,000 65
9638 12,000 55
9640 15,000 45
9641 20,000 38
9642 30,000 30
9643 40,000 24
9644 50,000 18

Your Cost... 66c

75 Watt Rating

No. Ohms M. A.
9645 500 387
9647 1,000 274
9648 1,500 206
9649 2,000 174
9650 2,500 154
9651 3,000 138
9652 4,000 127
9653 5,000 112
9654 6,000 102
9655 7,000 93
9656 8,000 86
9657 9,000 80
9658 10,000 73
9659 12,000 65
9660 15,000 55
9661 20,000 48
9662 30,000 40
9663 40,000 35
9664 50,000 30
9665 60,000 25

Your Cost... 76c

Adjustable Voltage Dividers

10,000 Ohms—50 Watts
Universal air-cooled voltage divider, provided with six sliding tabs, for obtaining all required voltages. Length 4”. Equipped with mounting brackets.

Your Cost... 76c

Genuine RCA-Radiola Voltage Divider for Models 17 and 59

Also used in Victor Model 7-35. Total resistance is 1,885 ohms. Tapped at 1680, 300, 2140, 3760 and 410 ohms. 4 1/2” long. Rated at 60 watts. Can be used in many other receivers. Wt. 1 lb.

Your Cost... 76c

NOTE: Voltage dividers on this page may be used for any receivers. Ascertain total ohmage and use taps to obtain voltages needed.

OUR CHICAGO STORE—1331 S. MICHIGAN AVE.—Victory 4444
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-hygrosopic glazed surface mass. They will remain constant in value despite the wide variety of temperatures and conditions encountered in radio work. Equipped with tin-coated 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.

**Acratex Fixed Resistors**

Vitreous covered, precision-wound on ceramic tubing. Wattage ratings are conservative and true.

**20 Watt**

<table>
<thead>
<tr>
<th>No.</th>
<th>Ohms M.A.</th>
<th>Your Cost</th>
<th>Any Type, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>9664</td>
<td>100</td>
<td>315</td>
<td></td>
</tr>
<tr>
<td>9665</td>
<td>200</td>
<td>320</td>
<td></td>
</tr>
<tr>
<td>9666</td>
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<td>9667</td>
<td>300</td>
<td>330</td>
<td></td>
</tr>
<tr>
<td>9668</td>
<td>400</td>
<td>340</td>
<td></td>
</tr>
<tr>
<td>9669</td>
<td>500</td>
<td>350</td>
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</tr>
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<td>9670</td>
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<td>355</td>
<td></td>
</tr>
<tr>
<td>9671</td>
<td>700</td>
<td>360</td>
<td></td>
</tr>
<tr>
<td>9672</td>
<td>800</td>
<td>365</td>
<td></td>
</tr>
<tr>
<td>9673</td>
<td>900</td>
<td>370</td>
<td></td>
</tr>
<tr>
<td>9674</td>
<td>1000</td>
<td>375</td>
<td></td>
</tr>
<tr>
<td>9675</td>
<td>1200</td>
<td>380</td>
<td></td>
</tr>
<tr>
<td>9676</td>
<td>1500</td>
<td>385</td>
<td></td>
</tr>
<tr>
<td>9677</td>
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<td>390</td>
<td></td>
</tr>
<tr>
<td>9678</td>
<td>2500</td>
<td>395</td>
<td></td>
</tr>
<tr>
<td>9679</td>
<td>3000</td>
<td>400</td>
<td></td>
</tr>
</tbody>
</table>

**20 Watt**

<table>
<thead>
<tr>
<th>No.</th>
<th>Ohms M.A.</th>
<th>Your Cost</th>
<th>Any Type, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>9680</td>
<td>4000</td>
<td>405</td>
<td></td>
</tr>
<tr>
<td>9681</td>
<td>5000</td>
<td>410</td>
<td></td>
</tr>
<tr>
<td>9682</td>
<td>6000</td>
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<tr>
<td>9683</td>
<td>7000</td>
<td>420</td>
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<td>9684</td>
<td>8000</td>
<td>425</td>
<td></td>
</tr>
<tr>
<td>9685</td>
<td>9000</td>
<td>430</td>
<td></td>
</tr>
<tr>
<td>9686</td>
<td>10000</td>
<td>435</td>
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</tr>
</tbody>
</table>

**20 Watt**

<table>
<thead>
<tr>
<th>No.</th>
<th>Ohms M.A.</th>
<th>Your Cost</th>
<th>Any Type, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>9687</td>
<td>20000</td>
<td>440</td>
<td></td>
</tr>
<tr>
<td>9688</td>
<td>30000</td>
<td>445</td>
<td></td>
</tr>
</tbody>
</table>

**36 "RMA" RESISTORS**

Contains two each of the resistors mentioned in the table below and described elsewhere on this page. As can be noticed, the ohmages selected are those encountered in every-day radio repair work. The resistors in each box are molded under pressure on a resistor on hand at a moment's notice, which means a savings in time.

<table>
<thead>
<tr>
<th>No.</th>
<th>Your Cost</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>36R</td>
<td>$1.79</td>
<td></td>
</tr>
</tbody>
</table>

**Carbon Resistor Kits**

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. Each is molded under pressure free with either of these two kits. This kit consists of one each of the following resistors:

<table>
<thead>
<tr>
<th>Your Cost</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>33R2</td>
<td>$1.69</td>
</tr>
</tbody>
</table>

**Federated Purchaser Inc.**

Made of aluminum. Any value is obtained by twisting three vials to proper color. This handy instrument is given free with any purchase of a Resistor Kit. Specify on order. No. 7452

**FREE**

A Pocket Size "RMA" Color Code Chart with every purchase. Just include on your order blank when ordering.

FEDERATED PURCHASER, Inc.
**OHMITE WIRE WOUND RESISTORS**

*Covered with a special high-temperature refractory cement which protects wire from injury, even through red heat is reached. Accurate and highly dependable in operation. 10-Watt, 1 1/4 long. 20-Watt, 2 1/4 long.*

**Wire-Wound Resistor**

*Wound on a core of special Insulating material. Ohms 150Ω, 15Ω, 2.2Ω, tin-covered soldering leads.*

**1-Watt "Wirewatt" Resistors**

*Made for hand switching in transmitters. Porcelain construction, high tension insulation. Ideal for exact contacts, silver-plated. Widespacing makes this the finest band switch change switch ever manufactured. Floating shoe contact is the latest. Single-hole mounting. May be gauged for "single-control" by use of 3/8" shaft coupling.**

**Your Cost Each**

<table>
<thead>
<tr>
<th>Value</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>24Ω</td>
<td>24c</td>
</tr>
<tr>
<td>22Ω</td>
<td>24c</td>
</tr>
<tr>
<td>20Ω</td>
<td>24c</td>
</tr>
<tr>
<td>18Ω</td>
<td>24c</td>
</tr>
<tr>
<td>16Ω</td>
<td>24c</td>
</tr>
<tr>
<td>15Ω</td>
<td>24c</td>
</tr>
<tr>
<td>14Ω</td>
<td>24c</td>
</tr>
<tr>
<td>12Ω</td>
<td>24c</td>
</tr>
<tr>
<td>10Ω</td>
<td>24c</td>
</tr>
<tr>
<td>8Ω</td>
<td>25c</td>
</tr>
<tr>
<td>6Ω</td>
<td>26c</td>
</tr>
<tr>
<td>4Ω</td>
<td>27c</td>
</tr>
<tr>
<td>3Ω</td>
<td>28c</td>
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<tr>
<td>2Ω</td>
<td>29c</td>
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<tr>
<td>1Ω</td>
<td>30c</td>
</tr>
<tr>
<td>0.5Ω</td>
<td>31c</td>
</tr>
<tr>
<td>0.25Ω</td>
<td>32c</td>
</tr>
</tbody>
</table>

**OMHITE 3-Point Band Switch**

*Designed for band switching in transmitters. Porcelain construction, high tension insulation. Ideal for exact contacts, silver-plated. Widespacing makes this the finest band switch change switch ever manufactured. Floating shoe contact is the latest. Single-hole mounting. May be gauged for "single-control" by use of 3/8" shaft coupling.**

**Your Cost Each**

<table>
<thead>
<tr>
<th>Value</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>300Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>250Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>200Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>150Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>125Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>100Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>80Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>60Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>50Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>40Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>30Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>25Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>20Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>15Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>10Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>8Ω</td>
<td>1.76</td>
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<tr>
<td>6Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>5Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>4Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>3Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>2Ω</td>
<td>1.76</td>
</tr>
<tr>
<td>1Ω</td>
<td>1.76</td>
</tr>
</tbody>
</table>

**METALLIZED AND NEW INSULATED RESISTORS**

*Metallized INSULATED Resistors Type "B" 1 Watt* *Small, light, high-voltage insulation enables use anywhere — no 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.*

**Your Cost Each**

<table>
<thead>
<tr>
<th>Value</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>15Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>22Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>20Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>18Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>16Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>15Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>12Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>10Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>8Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>6Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>5Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>4Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>3Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>2Ω</td>
<td>1.18</td>
</tr>
<tr>
<td>1Ω</td>
<td>1.18</td>
</tr>
</tbody>
</table>

**MUTER CANDOHMETER INDICATOR**

*Determines the proper value to replace a defective resistor. Used 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-proof, mounted in an insulated handle, is furnished with each Indicator. They are packed in individual boxes, 1½" x 1½", with full instructions.*

**Your Cost Each**

<table>
<thead>
<tr>
<th>Value</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>59c</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Resistors described in this section can be used as replacements in radio receivers. Note: You are in doubt as to the proper value of a resistor, send all information as to Model No. of the receiver and circuit to our Technical Division.
### R.F. FOILS ACRA TEST I.F. TRANSFORMERS

**For use with 305 mmfd. condenser. Can 17/2" x 21/2" high with spade bolts 1/2" apart. Shielded high-impedance primary. Tap on secondary furnished for short-wave coverage. Coil 1 1\(\frac{1}{2}\)" long. Bank wound Litz. With diagram showing connections.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11009</td>
<td>Antenna Coil</td>
<td>$47.00</td>
<td></td>
</tr>
<tr>
<td>11010</td>
<td>R. F. Coil</td>
<td>$47.00</td>
<td></td>
</tr>
</tbody>
</table>

### S.-W. & Broadcast Unshielded Coils

**20-550 Meters in 2 Bands.**

- High-gain, Lateral winding. Wound on special dowels 1/4" x 1/2" long. Uses 0.0385 mfd. Variable condenser. Wiring diagram showing coil connections included.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11006</td>
<td>Antenna Coil</td>
<td>$59.00</td>
<td></td>
</tr>
<tr>
<td>11007</td>
<td>R. F. Coil</td>
<td>$59.00</td>
<td></td>
</tr>
</tbody>
</table>

### Shielded Litz-Wound R. F. and Antenna Coils

**175 to 550 Meters Low Impedance**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11018</td>
<td>Antenna Coil</td>
<td>$31.00</td>
<td></td>
</tr>
<tr>
<td>11019</td>
<td>R. F. Coil</td>
<td>$31.00</td>
<td></td>
</tr>
</tbody>
</table>

### High Impedance

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11020</td>
<td>Antenna Coil</td>
<td>$38.00</td>
<td></td>
</tr>
<tr>
<td>11021</td>
<td>R. F. Coil</td>
<td>$38.00</td>
<td></td>
</tr>
</tbody>
</table>

### Composite Units

- High-gain composite coil used as both broadcast and oscillator. Flat and 6-tube super heterodyne receivers. Top tuning. This unit is furnished in 175 Ke. and 450 Ke. frequencies, mounted in a shield 1\(\frac{1}{2}\)" in diameter by 3\(\frac{1}{2}\)" in height. Equipped with two spade-mounting bolts.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>9428</td>
<td>175 Ke.</td>
<td>$1.25</td>
<td></td>
</tr>
<tr>
<td>9417</td>
<td>450 Ke.</td>
<td>$1.25</td>
<td></td>
</tr>
</tbody>
</table>

### Cushioned Condenser Mounting Assembly

Consists of a spade mounting bolt and rubber grommet, cup washer and nut.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>10609</td>
<td>Your Cost</td>
<td>$4.00</td>
<td></td>
</tr>
</tbody>
</table>

### Acra Test I.F. Transformers

- High-gain, precision-wound I.F. Transformers for set building or general replacement. Litz wire used where improved results are obtained. 465 Ke. coils can be piled for use in circuits requiring 450 Ke. coils. All connections except gridcap lead. Wiring diagram included.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;A&quot; De Luxe</td>
<td>(Size 2 1/2 x 3/4&quot; high) (Mounting Centers 1 1/4&quot;)</td>
<td>Double Tuned</td>
<td>$1.19</td>
</tr>
<tr>
<td>&quot;B&quot; Medium</td>
<td>(Size 1 3/4 x 2/5&quot; high)</td>
<td>Double Tuned</td>
<td>$0.73</td>
</tr>
<tr>
<td>&quot;C&quot; Large</td>
<td>(Size 2 1/2 x 3/4&quot; high)</td>
<td>Double Tuned</td>
<td>$0.67</td>
</tr>
<tr>
<td>&quot;C&quot; Large</td>
<td>(Size 2 1/2 x 3/4&quot; high)</td>
<td>Single Tuned</td>
<td>$0.95</td>
</tr>
<tr>
<td>&quot;B&quot; Medium</td>
<td>(Size 1 1/4 x 1/2&quot; high)</td>
<td>Double Tuned</td>
<td>$0.85</td>
</tr>
<tr>
<td>&quot;B&quot; Medium</td>
<td>(Size 1 1/4 x 1/2&quot; high)</td>
<td>Single Tuned</td>
<td>$0.95</td>
</tr>
</tbody>
</table>

### Center Tapped Secondaries

For use with Wunderlich, 98K-70, etc.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;C&quot; Large</td>
<td>(Size 1 3/4 x 1/2&quot; high)</td>
<td>$0.75</td>
<td></td>
</tr>
<tr>
<td>&quot;C&quot; Large</td>
<td>(Size 1 3/4 x 1/2&quot; high)</td>
<td>$0.85</td>
<td></td>
</tr>
</tbody>
</table>

### Antenna and Oscillator Coils for Super Hets

- Lateral-wound Oscillator and Antenna coils for superhets. Coils can be used separately if desired, but designed for use in pairs. These coils make ideal replacements for standard sets. Broadcast coils wound on a dowel, 1/2 x 1/2 long. Broadcast-surge coils wound on a dowel, 3/4 x 3/4" long. Instructions and diagram with each coil. Broadcast coils cover 1500 to 550 Ke. and combination short-wave and Broadcast cover, 1500 to 550 Ke. and 4000 to 1500 Ke. Coils 175 to 550 Meters.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11022</td>
<td>Antenna Coil</td>
<td>$42.00</td>
<td></td>
</tr>
<tr>
<td>11023</td>
<td>Short-Wave and Broadcast Coil</td>
<td>$57.00</td>
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</tr>
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### Broadcast Oscillator Coils

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11024</td>
<td>Short-Wave Oscillator</td>
<td>$65.00</td>
<td></td>
</tr>
<tr>
<td>11025</td>
<td>405 Ke.</td>
<td>$49.00</td>
<td></td>
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</tbody>
</table>

### Variable Condensers

- Precision Variable Condensers

**T.R.F. and Supers**

These precision-built condensers embody all of the latest improvements in condenser design. The T.R.F. sections have capacities of 365 mfd. Each section. Superhet condensers have special tracking sections. Condenser meshes to the right (clockwise). Shafts are 3/8" diam. 11/16" long. Ball bearing mountings for shafts.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>5569</td>
<td>2 1/2&quot; For Straight T.R.F.</td>
<td>$1.03</td>
<td></td>
</tr>
<tr>
<td>5560</td>
<td>3 3/8&quot; For Straight T.R.F.</td>
<td>$1.50</td>
<td></td>
</tr>
<tr>
<td>5561</td>
<td>4 3/8&quot; For Straight T.R.F.</td>
<td>$2.93</td>
<td></td>
</tr>
<tr>
<td>5579</td>
<td>3 1/2&quot; For Straight T.R.F.</td>
<td>$2.93</td>
<td></td>
</tr>
<tr>
<td>5582</td>
<td>2 1/4&quot; For Supers</td>
<td>$2.93</td>
<td></td>
</tr>
<tr>
<td>5583</td>
<td>2 1/4&quot; For Supers</td>
<td>$2.93</td>
<td></td>
</tr>
<tr>
<td>5580</td>
<td>2 1/4&quot; For Superhet (175 Ke.)</td>
<td>$2.93</td>
<td></td>
</tr>
<tr>
<td>5579</td>
<td>3 1/2&quot; For Superhet (175 Ke.)</td>
<td>$1.50</td>
<td></td>
</tr>
<tr>
<td>5578</td>
<td>3 1/2&quot; For Superhet (175 Ke.)</td>
<td>$1.50</td>
<td></td>
</tr>
<tr>
<td>5577</td>
<td>4 3/8&quot; For Superhet (175 Ke.)</td>
<td>$2.93</td>
<td></td>
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</tbody>
</table>

**"Low Shield"**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
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</tr>
</thead>
<tbody>
<tr>
<td>5720</td>
<td>2 1/4&quot; For Straight T.R.F.</td>
<td>$0.84</td>
<td></td>
</tr>
<tr>
<td>5721</td>
<td>3 1/2&quot; For Straight T.R.F.</td>
<td>$0.84</td>
<td></td>
</tr>
<tr>
<td>5722</td>
<td>4 3/8&quot; For Straight T.R.F.</td>
<td>$0.84</td>
<td></td>
</tr>
<tr>
<td>9975</td>
<td>2 1/4&quot; For Supers (465 Ke.)</td>
<td>$1.95</td>
<td></td>
</tr>
<tr>
<td>9977</td>
<td>2 1/4&quot; For Superhet (175 Ke.)</td>
<td>$1.95</td>
<td></td>
</tr>
<tr>
<td>9978</td>
<td>4 3/8&quot; For Superhet (175 Ke.)</td>
<td>$1.95</td>
<td></td>
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</tbody>
</table>

### Unshielded Antenna and R.F. Coils

- 75-550 Meters
- For use with 365 mfd. condenser. High-impedance primary. Shunt winding for short-wave coverage. Coils 1 1/4 x 1/2" long. With mounting bracket as shown. Connections on lugs.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11004</td>
<td>Antenna Coil</td>
<td>$33.00</td>
<td></td>
</tr>
<tr>
<td>11005</td>
<td>R. F. Coil</td>
<td>$33.00</td>
<td></td>
</tr>
</tbody>
</table>

### Unshielded Antenna R. F. & Osc. Coils

- 15.5-55
- 200-550 Meters

- For use with 365 mfd. condenser. With wiring diagram.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11010</td>
<td>R. F. Coil</td>
<td>$69.00</td>
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</tr>
<tr>
<td>11011</td>
<td>Antenna Coil</td>
<td>$69.00</td>
<td></td>
</tr>
</tbody>
</table>

### Unshielded Antenna and R. F. Coils

- 175-550 Meters
- 1/4 diameter, 1/2" long. For use with 365 mfd. condenser. Diagram supplied.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11012</td>
<td>Antenna Coil</td>
<td>$59.00</td>
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</tr>
<tr>
<td>11013</td>
<td>R. F. Coil</td>
<td>$59.00</td>
<td></td>
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</table>

### High Impedance

<table>
<thead>
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<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
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<tr>
<td>11014</td>
<td>Antenna Coil</td>
<td>$34.00</td>
<td></td>
</tr>
<tr>
<td>11015</td>
<td>R. F. Coil</td>
<td>$34.00</td>
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</tbody>
</table>

### Midget Var. Condensers

- Excellent for use as padding on tuning or tracking condensers, for tuning or precision regeneration control in short-wave receivers, etc. The plates are of heavy aluminum and are mounted on a brass or brass stud. The shaft diameter is 1/2" in diam.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
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<tbody>
<tr>
<td>9971</td>
<td>10 50.02</td>
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<td></td>
</tr>
<tr>
<td>9972</td>
<td>10 50.02</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9975</td>
<td>10 50.02</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9987</td>
<td>10 50.02</td>
<td></td>
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</tbody>
</table>

### Midget Trimmers

- Made of baked-lite and mica. Adjusting screw.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Each</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11528</td>
<td>2 1 1/2 12-60 mfd.</td>
<td>$0.19</td>
<td></td>
</tr>
<tr>
<td>11529</td>
<td>2 1 1/2 12-28 mfd.</td>
<td>$0.19</td>
<td></td>
</tr>
<tr>
<td>11531</td>
<td>2 1 1/2 2-22 mfd.</td>
<td>$0.14</td>
<td></td>
</tr>
<tr>
<td>11532</td>
<td>2 1 1/2 2-36 mfd.</td>
<td>$0.15</td>
<td></td>
</tr>
</tbody>
</table>

*Made on ceramic.*
**DIALS • KNOBS • PILOT LIGHTS**

- **2 1/2" Airplane Dial**
  - Bronze-finished escutcheon is 3 1/2" outside diameter. Fits 3 1/2" condenser shaft. Standard 1/2" 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 onampion sets or as a replacement part for older type dials. Sold by Weight. 1 lb. No. 11202
  - **Your Cost:** 65¢

- **5-Inch Airplane Dial**
  - Escutcheon is 6" overall and is bronze finished. Fits 5 1/2" condenser shaft and has 1 1/2" shaft for knob. Distance between shaft centers is 3 1/8". Has translucent dial face with scales calibrated from 500 kilocycles to 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 assembly mounting on chassis or on a bracket. Broadcast, amateur, police, and foreign bands clearly indicated. No. 27210
  - **Your Cost:** $1.95

- **Fan Type Dials**
  - Knob shaft 1/4", 3/4" long. Escutcheon 2 1/2" wide, 2 1/2" high. Complete with escutcheon plate and pilot-light socket. Replacement on old sets ideal. No. 6904—1 to 10 condenser clockwise. No. 10784—0 to 10 condenser counter-clockwise. No. 11382
  - **Your Cost:** 56¢

- **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 1/2". No. 4041—for 3 1/2" condenser-shaft. No. 4128—for 3 1/2" condenser-shaft.
  - **Your Cost:** 65¢

- **Midget Fan Dials**
  - Compact with translucent strip and pilot-light socket. Attractive bronze escutcheon plate, 3" dim. 3 1/2" high, 3/4" deep. For 1/2" shaft. Complete with socket and escutcheon plate. No. 6921
  - **Your Cost:** 51¢

- **Pilot Light Sockets**
  - (A) No. 4076, (B) No. 6571
  - **Your Cost:** 5¢

- **Genuine Walnut Wood Carved Knobs**
  - Dia. 1 1/4" No. 3525
  - Dia. 1 1/4" No. 3225

- **Miniature Knobs for A. C.—D. C. Receivers**
  - Round Shape
  - Without Pointer With Pointer No. 10077 No. 10078
  - **Your Cost,** Either Type. 5c

- **Coil Shields With Detachable Base**
  - A sturdy shield, made of aluminum. 1 1/4" x 3/4" high. No. 9077
  - **Your Cost:** 15c

- **Close-Fitting Tube Shields**
  - Type ST-12 fits 57, 58, 2A7 and similar tubes. Type ST-14 is for larger tubes such as 24A, 35, 51, etc. Two parts, fit snugly around tube; held in place by clamping. Type ST-22 Type ST-14 No. 9028 No. 9029
  - **Your Cost,** Either Type. 7c

- **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 effectively for shielding. Overall height is 4 1/8" and diameter is 3 1/8". No. 7173—Mounting centers 1 1/2". No. 10655—Mounting centers 1 3/4".
  - **Your Cost,** Either Type: 9c

- **Bakelite Bar Knobs**
  - Dia. 1 1/4" No. 3552
  - Dia. 1 1/8" No. 3777

- **Pilot Light Bracket Min. Base**
  - No. 9132—Red Jewel No. 9135—Green Jewel No. 9136—Crystal
  - **Your Cost:** 6c

- **Candelabra Base (110 v.)**
  - No. 9134—Red Jewel No. 9135—Green Jewel No. 9136—Amber Jewel
  - **Your Cost,** Any Type: 16c

- **MAZDA Pilot Lights**
  - Long life. Will not burn out after short use. No. 3652 2.5 No. 3675 6.3
  - 12 Volt 6c 12 Volt 6¢
  - **Your Cost Carton of 10, No. 3666—3.2 volts**
  - **Your Cost Carton of 10, No.**

- **Independent Mains**
  - No. 3666 2 1/2 Volt 6c
  - **Your Cost Carton of 10, No.**
  - **YOUR COST:** 29¢

- **Bayonet Base**
  - No. 4883 2.5 V. No. 4884 3.9 V. Box of 10
  - **Your Cost:** Either Type. 79c

- **Independent Mains**
  - No. 3666 2 1/2 Volt 6c
  - **Your Cost Carton of 10, No.**

- **Pilot Lamp for Victor and Colonial Receivers**
  - No. 4224—110 Volt, Frosted
  - **Your Cost:** Each. 17c

- **Genuine Walnut Wood Carved Knobs**
  - Dia. 1 1/4" No. 3525
  - Dia. 1 1/4" No. 3225

- **Pilot Light Sockets**
  - (A) No. 4076, (B) No. 6571
  - **Your Cost:** 5c

- **Miniature Knobs for A. C.—D. C. Receivers**
  - Round Shape
  - Without Pointer With Pointer No. 10077 No. 10078
  - **Your Cost,** Either Type. 5c

- **Pilot Light Bracket Min. Base**
  - No. 9132—Red Jewel No. 9135—Green Jewel No. 9136—Crystal
  - **Your Cost:** 6c

- **Candelabra Base (110 v.)**
  - No. 9134—Red Jewel No. 9135—Green Jewel No. 9136—Amber Jewel
  - **Your Cost,** Any Type: 16c

- **Close-Fitting Tube Shields**
  - Type ST-12 fits 57, 58, 2A7 and similar tubes. Type ST-14 is for larger tubes such as 24A, 35, 51, etc. Two parts, fit snugly around tube; held in place by clamping. Type ST-22 Type ST-14 No. 9028 No. 9029
  - **Your Cost,** Either Type. 7c

- **Large Coil Shield**
  - 3 3/4" high with a diameter of 2 1/2". Mounting flange and drilled for holes. No. 10676
  - **Your Cost:** 19c

---

**OUR NEW YORK STORE — 25 PARK PLACE — Barclay 7—7582 — 3 — 4**
Aerial Wire

A complete selection of wire suitable for any antenna. The wire is of the highest-grade copper and is treated to cut out the street length and gauge as specified. The bare copper wire is suitable for general receiving use while the enamelled wire will not crack or peel and is very efficient for installation in deluxe antenna systems and for transmitters.

**Bare Copper Wire**

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Your Cost</th>
<th>Unit Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/24 Stranded</td>
<td>75 feet</td>
<td>$13.00</td>
<td>$0.20/ft</td>
</tr>
<tr>
<td>7/27 Stranded</td>
<td>100 feet</td>
<td>$15.00</td>
<td>$0.15/ft</td>
</tr>
<tr>
<td>7/24 Stranded</td>
<td>100 feet</td>
<td>$22.00</td>
<td>$0.22/ft</td>
</tr>
<tr>
<td>7/26 Stranded</td>
<td>75 feet</td>
<td>$19.00</td>
<td>$0.25/ft</td>
</tr>
</tbody>
</table>

**Enamelled Copper Wire**

Antenna wire of the highest quality, ideally suitable for low-loss antennas both for receiving and transmitting. Enamelled weather resisting and stops all formation of corrosion.

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Your Cost</th>
<th>Unit Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 Solid</td>
<td>100 feet</td>
<td>$31.00</td>
<td>$0.31/ft</td>
</tr>
<tr>
<td>14 Solid</td>
<td>1000 ft</td>
<td>$291.00</td>
<td>$0.29/ft</td>
</tr>
</tbody>
</table>

**Lead-In Wire**

Consists of antenna and set transformers, 60 ft. wire, soldered to antenna transformer, 75 ft. transmission line, 2 nail-it knobs, 2 insulators. Full instructions supplied. Shpg. Wt. 5 lbs.

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Your Cost</th>
<th>Unit Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1104</td>
<td>100 ft</td>
<td>$3.97</td>
<td>$0.04/ft</td>
</tr>
</tbody>
</table>

**AERIAL ACCESSORIES**

- **Glass Insulators**
  - Insulators made of the highest quality special treated glass. Very low leakage loss, even when wet.

- **Special Arresters**
  - A dependable air-gap type arrestor, approved by the Fire Underwriters. Suitable for any radio installation.

- **Nail-It Knobs**
  - Glazed white porcelain round insulators. Separate cap with base. Ideal for aerial or lead-in wire. Assembled together with nail having leather washer under head.

- **Ground Clamps**
  - A heavy copper ground clamp with Falcon stock clip for connecting to ground lead, and heavy bolt and nut for tightening. Can be securely fastened to assure positive grounding.

- **Porcelain Insulators**
  - Brown glazed porcelain insulators. Holes at each end. 2 1/2" long.

- **Aerial Transformer**

**Quick-Up Aerial**

Sticks instantly wherever installed. For use along baseboards, moldings, etc. Also for ear radio use.

- **Aerial Transformer**
  - $9.00

- **Double 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 double lead-ins to prevent shorting.

- **Quick-Up Aerial**
  - $3.69

**FEDERATED PURCHASER, Inc.**

58
BATTERIES

New BURGESS Portable "B" Batteries 45-Volt
Small, efficient, "B" Batteries, extensively used in Aeronautics and other Trans. equipment for portable radio equipment.

- Type A30BP
  Size: overall height 4 1/2". Width 3 1/2". Depth 25/8". 30 Cells. Shpg. Wt. 3 lbs.
  No. 11071 Your Cost $1.10

- Type 230P
  Size: overall height 4 3/4". Width 3 1/2". Depth 1 3/4". 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. 18, 20, 22 and 24 gauge standard wire, rubber covered, strds. Easily. Specify color when ordering.

- No. 445 25 Ft. $1.25
- No. 446 50 Ft. $2.40
- No. 447 100 Ft. $4.30

All Rubber Covered Parallel Lamp Cord
A jacket of rubber encases two rubber-covered copper wires, which are No. 18 gauge, 41-strand copper wire. Approved by the Underwriters. Industry to strip and extremely flexible. Available in brown, green, ivory and black. Specify color. Shpg. Wt. 3 lbs. per 100 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.

- No. 4561—Black, 50 ft. Your Cost $2.25
- No. 4579—Red, 50 ft. Your Cost $2.25
- No. 4488—Black, 100 ft. Your Cost $9.40
- No. 4585—Red, 100 ft. Your Cost $9.40

Push-Back Stranded
- No. 4562—Black, 50 ft. Your Cost $2.25
- No. 4563—Red, 50 ft. Your Cost $2.25
- No. 4581—Black, 100 ft. Your Cost $9.40
- No. 4583—Red, 100 ft. Your Cost $9.40

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.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>No. 611</td>
<td>21308</td>
<td>45</td>
<td>4 1/2</td>
<td>8</td>
<td>8 1/2</td>
</tr>
<tr>
<td>No. 612</td>
<td>22308</td>
<td>45</td>
<td>3 1/2</td>
<td>8</td>
<td>8 1/2</td>
</tr>
</tbody>
</table>

BURGESS Flat Bat's

- No. 532, same as Eveready 703. 41/4 volts. Size: 25/8" x 3/8" x 1/2". Shpg. Wt. 1 lbs.
- No. 10914 Your Cost $2.25

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. 0.2 lbs.
- No. 4566—100-ft. coil Your Cost $7.75
- No. 4568—500-ft. coil Your Cost $3.40

Twisted Cotton Lamp Cord
- No. 4572—Green and Yellow. Your Cost $5.30
- No. 4578—White. Your Cost $2.49

BEST Batteries

- New EVEREADY Air Cell "A" Battery
- No. 25000—Type A-600 Your Cost $4.09
- No. 25001—Type SA-850 Your Cost $5.15

BEST 221/2 Volt "B" and "C" Battery
Ruggedly built and thoroughly tested. Made to give noiseless performance until completely used up.

- Standard Size—No. 1032 8 1/2 long, 7" high, 1" deep. Shpg. Wt. 7 lbs.
- No. 6065—Yr. Cost. 84c
- Heavy-Duty Size—No. 1050 8 long, 7" high, 4" deep. Shpg. Wt. 11 lbs.
- No. 9104—Cost $1.19

Flashlight Cells
Regular Size, No. 10—1 1/4" x 2 1/4". No. 6682 Your Cost $5.00
- Per 50 $2.25
- Baby Size No. 5—1 1/2" x 1 1/4". No. 6683 Your Cost $5.00
- Per 50 $2.25

22 1/2 volts tapped at +18 volts. Recommended for portable radio receivers. Also used as "C" size battery where --41/2 or -22 1/2 volts is required. Size: 3 1/2 long, 3 1/2 high, 2 1/2 deep. Shpg. Wt. 3 lbs.

- No. 6685—Your Cost $6.10
- Heavy-Duty Size—No. 1050 8 long, 7" high, 4" deep. Shpg. Wt. 11 lbs.
- No. 6655—Your Cost $18.00

BEST No. 6 Dry Cell
12 Volts
A high-quality dry cell for all kinds of ignition work, doorbells, etc., also for use in Portable Radio "A" Batteries, and other general dry cell use. Diam. 2 1/2", 4 1/2" high. Shpg. Wt. 3 lbs.

- No. 6685 Your Cost $18.00

FEDERATED'S GUARANTEE PROTECTS YOU—BUY WITH CONFIDENCE 59
HEAVY-DUTY SOLDERING IRONS
Highly polished nickel tube. Removable thermostat, detachable handle. Elo-
ment is wound on steel core with high-grade amber- brite mix. Removable copper tip, \$1.50 as standard. Provided with 6-ft. heater cord. Length 12”. Weight 12 oz. For 110-120 volt, 15 amperes. Shpg. Wt. 2 lbs. No. S1135 75 Watts Yr. Cost 1.45
Same as above, but 1/2 watt. For 110-120 volt, 15 amperes. Shpg. Wt. 3 lbs. No. S220 $1.75

SOLDERING IRON
A quality soldering iron at a low price. Constructed to give long service in the shops, home, or on a service call. Quick, heat-loading. Removable copper tip can be easily replaced if necessary. Overall length 11” and tip in 3/8”, 110 volts. Shpg. Wt. 2 lbs. No. S2720 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. S229—Rosin Core, No. S5147—Acid Core

Extra Tips for Above

Your Cost
No. 7449 75 Round .50
Per Dozen 8c
No. 7448 75 Chisel .20
Per Dozen 8c
No. 7445 100 Round .20
Per Dozen 8c
No. 7443 100 Chisel .20
Per Dozen 8c

Q-U-A-L-I-T-Y FRICTION TAPE
High-grade tape for all uses. Individual projects to assure freshness. Impressed with adhesive rubber compound. No. 4215—4-oz. Roll Your Cost Each 8c Per Dozen 85c

No. 4223—8-oz. Roll Your Cost Each 17c Per Dozen .50

SOLDERING IRON

KRAUETER Pliers
Diagonal Cutters
The cutting jaws of this plier come together perfectly. No. 9985—5 1/2" $1.75
No. 9956—5 1/2" $1.50

Long-Nose Pliers
Sharp side-cutting blade. No. 9966 $1.25

Keyhole Hack Saw
Cuts armored cable, conduit, bakelite, fibre, wood, etc. For cutting bunt screws. Length 9 1/2”. Edge 5 1/2”. Wt. 1 lb. No. 11243 $2.10

ES CO Soldering Irons
A practical stand for your hot iron. Satisfactory construction. Size 5 1/4” long by 2 1/4” wide by 1 1/4” high. No. 10763 $19.00

MIDGET Screw Drivers
Handy for driving set-screws and other small screws. Two sizes conveniently mounted on card. No. 10792 Your Cost Pair 9c

Reamer
Reams holes from 1/8” to 3/16”. Length of blade is 4”. Shpg. Wt. 1 lb. No. 5115 Your Cost 17c

ADJUSTABLE CIRCLE CUTTING TOOLS
Jumbo No. 5 will cut holes 1” to 5 1/4” in bakelite, hard rubber, fibre, sheet metal, aluminium, 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 4” to 2 1/4” in bakelite, hard rubber, fibre, pressed wood, all types are accurately milled, equipped with high-speed cutting bits. They cut clean holes and leave no jagged edges. No. 9950—Jumbo No. 5—$1.50
No. 9901—Jumbo No. 5—$1.95

No. 9993—Junior No. 5—$1.50
No. 9893—Junior 4 1/4”—$1.35
No. 9892—Junior 3 1/2”—$1.05

Electrician's Screw- Driver
Super-Grip Type
High quality construction. The blade is thinner than standard. Length of Your Cost Blade No. 9886 4% 1/2 8c No. 9887 6% 1/2 25c

FEDERATED PURCHASER, Inc.
**ALDEN**

**Sure-Grip Plug**
7-Pong (small) plug with special handle; will fit any type 7-pong (small) socket. Can be used in P.A. installations for connectors of from 2 to 7 wires.

- No. 10613
- Your Cost: 9¢

**Replacement Vibrator**
For A. K.
424, 534
Anco Radios

Only a few left! Full wave, synchronous vibrators, all types, in Audiola S6 and Emerson 640 Autograph, have been used. Suitable for any set using this type. Choice of five leads, 5 1/2" square by 5 1/2" long. Shpg. Wt. 2 lbs.

- No. 15559
- Your Cost: $1.65

**AMERTRAN Power Supply Transformers**

A REAL buy in high grade power supply transformers! These are well-designed, burn-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
  - 9 Volts at 2 Amps, C.T.
  - 730 Volts at 110 Milis, C.T.
- No. 15594
- Your Cost, SPECIAL: $1.98

**AMERTRAN Audios**

High-quality core and careful winding afford a high-quality frequency response, ideal for high-fidelity amplification. Only a small quantity left, so rush your order in NOW! Mounting centers 2". Thickness 2". Equipped with both lug and thumb-screw terminals.

- No. 15592—4:1 ratio
- Your Cost: 29¢

**Enamelled Magnet Wire**
Here is a rare opportunity to obtain a supply of enamelled magnet wire at real bargain prices. All enamelled magnet wire is wound on each spool. Finest quality enamel for best insulation. Furnished in standard gauge from 18 to 32. Precise 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.

- No. 15548
- Your Cost: 15¢

**NOTE!** For a complete listing of 1/4 lb. spoons of magnet wire see Cat. No. 18.

**Special 4-Tube Power Transformer**
For compact sets. Supplies 21-v., at 3-amps, 5-v. at 2-amps, 650-v. at 40-M.A.C T. Flush Mgt. centers 2½" x 2½". Shpg. Wt. 3 lbs.

- No. 14546
- Your Cost: 55¢

**Power Transformer**

63 Volt for 5 Tubes

Provides following voltages: 650-v. 45-M.A. C. T.; 63-v. at 1.6-amps, C. T.; 7-v. 2-amps. Mgt. centers 2½" x 2½". Shpg. Wt. 8 lbs.

- No. 14555
- Your Cost: 89¢

**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 the 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. 14561
- 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:
3.5-v., 83% amps. C.T.
7½-v., 3 amps. C.T.
7½-v., 120-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 in F. 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

**Midget Soldering Irons**

This is the smallest practical soldering iron on the market. Only 7" in length, it weighs 5½ ounces, including cord and plug. Heats in one second. Has 20-watt rating with a special design for concentrated heat that permits work on larger iron. Tips are removable and replaceable. Fine 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: 73¢

**TACO Cathode Ray Resonance Indicator**

M a k e s u s e of the electron ray tube (6K5). Complete with e-cutout panel and diagram. Requires 114" hole in panel. Forms a simple and inexpensive means of modernizing sets by adding precise visual tuning. For sets equipped with 6K5.

- No. 14001—Less Tube
- Your Cost: 88¢

**TACO Tuning 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. NOW! Mounting centers 2½". Equipped with 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 4½" x 5½". For 110-v. A. C. operation. Over-all plug supplied. Full directions supplied. Wt. 22 lbs. less tubes.

- No. 13110
- Your Cost: $6.76

**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 low RF resistance. Gain and selectivity are increased about twice with these coils. Elements are wound on a core of special low-loss insulating material.

- No. 22280
- Your Cost: 3.5¢

**Long Shank Push Switch**

Locking type. Contact made when button pulled out all length 3". Complete with knurled nuts and washer.

- No. 15661
- Your Cost: 10¢

**Quantity Limited**

OUR PITTSBURGH STORE — 343 BLVD. OF THE ALLIES — Atlantic 9119

**A. C. Dynamic Speaker with Stand**

A. C. operated using a 2525. 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 with either SPDT or SPST. Can be used for remote control or as a telegraph sounder. 1½ lb. solid silver contacts. Operates on 1½-volt dry cell. Size 2½ square. Shpg. Wt. 1 lb.

No. 3563 Your Cost $49

**Universal Mount Round Aluminum Can Electrolytics**

450 D. C. Warling V.


Height 4½"

Cap. Dia. Mfd. Inches Cost
15391 8-8 1½ 50.58
15392 5-15 3½ 73.73
15393 8-8 3 39.39
15394 9-9-18 3½ 129

**Cardboard Container Dry Electrolytics**

450 D. C. \& Warling V.


No. 15322 4 4 22c
15326 8 8 25c
15333 4-4-4 1½ 74c
15338 8-8-8 1½ 58c
15352 11-11-11 69c

**Compact Cardboard Dry Electrolytic**

8-8 Mfd.—175 Peak Volts: Another Bargain in Electrolytic! Small size, only 2½" long by ½" square. Stock up NOW before supply is exhausted!

Mounts centers 2½"

No. 15556 Your Cost $29

8 Mfd.—550 Peak Volts: These dandy little electrolytics are just the thing for all replacement purposes. Size 3½"x1½". Mounting flanges. Two long color-coded leads. Quantity limited.

No. 15455 Your Cost $17

**Cardboard Container Condenser**

Compact and economical. In a compact cardboard container measuring only 4½x1½x 2¼", this electrolyte has mounting flanges with two heavy brass ends. Overall length 5½". Shpg. Wt. 1 lb.

No. 15571 Your Cost $34

**Genuine MERVILITH Dry Electrolytics**

Clamp units supplied with lead clamp. Stud units with nut and washer. Complete with instructions, 450 D. C. working voltage.

No. 7369 Your Cost $17

**Sprague Dual 6-Mfd. Condenser**

475 Volts

A dry 8-8 mfd. electrolytic condenser at 475 volts. Diameter 1½". Above chassis length 3½". Mounting stud 1¼". Has 2 color-coded leads and common can ground. Wt. 1 lb.

No. 15577 Your Cost $49

**Sprague 8-Mfd. Midget Wet**

450 Volts

New-type midget wet electrolytic, moisture proof, only 1" in diameter and 4½" tall above chassis. Aluminum can. Mounting stud 3/8". Soldering lug. Can ground. Wt. 1 lb.

No. 15569 Your Cost $19

**MERSON 8-Mfd. Wet Electrolytic Condenser**

450 Volts

Newly-designed inverted wet electrolytic condenser, 8 mfd. at 450 volts. Diameter 1¾". Mounting stud 3/8". Has 2 color-coded leads and common can ground. Wt. 1 lb.

No. 15572 Your Cost $34

**Auto-Radio Dynamic Speaker**

5-Inch

Designed for auto use. All ribbed cone for full volume without distortion. Output transformer for Pentode tube supplied. For 6-volt operation, 5.5-ohm.

No. 15536 Your Cost $1.39

8-Inch

Same as above with 4-ohm field.

No. 15537 Your Cost $1.98

**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 2½ square. Two spade-bolt mounting with 2½ mounting centers. trimmers.

Shpg. Wt. 1 lb.

No. 6599—175 Kc. Your Cost $45
No. 15509—456 Kc. Your Cost $59

**None Better at Any Price**

**Auto-Radio Dynamic Speaker**

5-Inch

Designed for auto use. All ribbed cone for full volume without distortion. Output transformer for Pentode tube supplied. For 6-volt operation, 5.5-ohm.

No. 15536 Your Cost $1.39

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No. 15569 Your Cost $19

**Merson 8-Mfd. Midget Wet**

450 Volts

New-type midget wet electrolytic, moisture proof, only 1" in diameter and 4½" tall above chassis. Aluminum can. Mounting stud 3/8". Soldering lug. Can ground. Wt. 1 lb.

No. 15572 Your Cost $34

**None Better at Any Price**

**14-8-10-10 Electrolytic**

14 and 8-mfd. at 200 P. V., 10-10 at 35 P. V. Common negative. Cardboard container 1½" diam. by 4" length. Mfg. bolts 1¼" apart. Wt. 1 lb.

No. 15538 Your Cost $39

**Inverted Type Dry Electrolytics**


Diameter 1½"

Cap. Size Mfd. D Cost

No. 7370 8 8 30c
15389 4 4 20c
15389 4-4-4 1½ 58c
15389 8-8-8 1½ 58c

**Diameter 1½"**
4 Gang .00035 Mid. 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 3/4". Equipped with adjustable bearings. No trimmer condensers. Size, 10" long, 3/4" deep, 7/8" high. Finest grade of plates. Close to right.

No. 17890 Your Cost. 39¢

3-Wire 10-Fl. Microphone Cable

Made of the finest insulated 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


No. 15557

Your Cost 5¢

Electric Cord

5½ ft. long, composition plug attached and a rubber grommet for chassis hole.

No. 15555

Your Cost 5¢

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. Diameter 1 3/4." For 3/4" shaft. Has set screw. We've only a small quantity left, so rush your order in NOW for YOUR share!

No. 15556

Your Cost, Each 5¢

R.M.A. Color Coded Carbon Resisters

1 WATT

Accurately-calibrated resistance material used. Specify ohmages when ordering.

Omegas:

Omegas range from 500 ohms to 2 megohms. All brand-new and coded.

No. 15457

Your Cost, Each 2½¢

40 Assorted ¾-Watt Carbon Resisters

No. 15376

Your Cost, Kit of 40 59¢

37 Assorted ¾-Watt Carbon Resisters

Standard metal-end type. Range 500 ohms to 4 megohms. All brand-new and coded.

No. 15377

Your Cost, Kit of 37 69¢

32 Carbon Resisters 1-Watt

An exceptional buy. The sizes range from 600 ohms to 3 megohms. All brand-new and coded.

No. 15378

Your Cost, Kit of 32 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 9/16". Mounting cutouts. Overall length 1½". Mounts to panel with toggle button to end of soldering lug is 1½." Ship. Wt. 1 lb.

No. 15590

Your Cost 5¢

Induction Phono Motor

Single Speed 78 R.P.M.


Ship. Wt. 12 lbs.

No. 15425

Your Cost 4.95¢

All above knobs for 3/4" shaft.

No. 15588 (O) diam. 1 3/4". Service Type

No. 15589 (D) diam. 1 3/4". Service Type

No. 15582 (E) diam. 1 3/4". Service Type

No. 15583 (F) diam. 1 3/4". Push-on Type

No. 15584 (G) diam. 1 3/4". Push-on Type

Your Cost, Each, Any Type 4¢

S. W. Tuning Dial

Gear Ratio is 156 to 1. 3" diameter. Made of high-grade bakelite. Easy to install on any chassis. Quantity limited.

No. 15520

Your Cost 5¢

Momentary Push Button Switch

Extra Long Shank

Length of threaded shaft 1½". Overall length 2¾". 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¢

Ten Volume Controls

This kit contains 10 controls, most of them singles, some dual controls, and some with switches. Ohmages 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¢

You NEVER PAY MORE AT FEDERATED!
Acratone 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 superhetodryne circuit is employed, using a 6AG7 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 6Y3 with octal base is used as a rectifier and a 6F6G pentode is employed as the output stage 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: 185 to 53 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 kilohertz and megacycles. A 28 to 1 tuning ratio is provided, making it easy to accurately tune any signal.

**HAS SPECIAL APPEAL TO HAMS**
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 sound 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.

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 covers 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."


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

**BATTERY OPERATED Acratone SUPER-HET for 2 Volt, 6 Volt and 32 Volt Operation**

**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 superhetodryne circuit, skillfully engineered to provide high quality reproduction with the surprisingly large volume uses the types 19, 30, 1C5, 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: GTJ0X. Retail Value $41.90.

Model No. 165-D—Complete with tubes, less batteries
Your Cost: $20.95

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.

Licensed by R.C.A. and Hazeltine

**2-VOLT AIR CELL MODEL**
Uses types 19, 30, 1C5, 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
Your Cost: $16.95

Complete set of Batteries for above model, Shpg. Wt. 40 lbs. Your Cost: $4.95

Licensed by R.C.A. and Hazeltine

**32-VOLT ALL ELECTRIC MODEL**
Operates from 32-volt Delcofarm plants or similar power supplies. Requires no batteries at all. Tubes used: 1C6, 1B5, 38, 34, V9 and SDF voltage regulator. Code Word: GUKSB. Retail Value: $47.90.

Model No. 167-D Your Cost, with tubes: $23.95

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NEW YORK CITY  •  CHICAGO, ILL.  •  ATLANTA, GA.
25 Park Place  •  1331 S. Michigan Ave.  •  546 Spring St., N.W.

PHILADELPHIA, PA.  •  PITTSBURGH, PA.  •  OTHER BRANCHES AT:
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Cable Address: FEDERPURCH

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(Print Plainly to Avoid Errors and Delay)

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

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<th>Do Not Write in This Column</th>
<th>HOW MANY</th>
<th>Catalogue No.</th>
<th>DESCRIPTION OF ARTICLE WANTED</th>
<th>Net Price of Each or Per Dozen</th>
<th>Extend Totals Here and Then Add This Column</th>
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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.

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Less Deposit

NOTE: At least 20% Deposit Must Accompany Every Order.

Carrying Charges □ Include Parcel □ Post Charges

Total Amount Enclosed

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