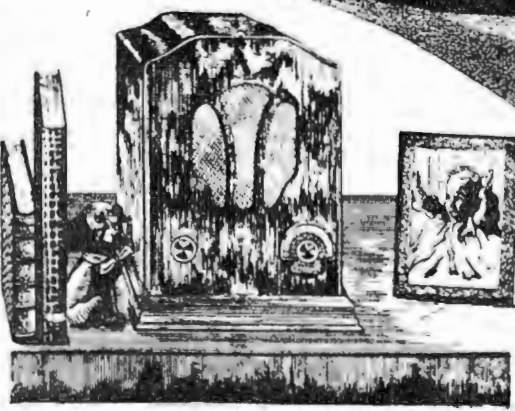




CATALOG NO14 WINTER 1932



HERE IT IS!
The
Marvel
of the Age.
SEE PAGE 4



YOUR PRICE
\$ **16**⁷⁵
Complete

RADIO SHARPE CORP

56 VESEY ST. NEW YORK

WITH THIS ISSUE ♦ ♦ ♦

present a new catalog which reflects our growth, due to your patronage, for which we are extremely grateful.

The last few years have resulted in an increase in business necessitating a substantial increase in our force and quarters. We now occupy the entire six-story building at 54-56 Vesey Street, a total floor area of 20,000 square feet, every bit of which is utilized. The basement of the building is used for stock. Our metropolitan sales division and offices are located on the street floor. Shipping and receiving departments occupy the next floor. These have been greatly enlarged to facilitate speedy handling of your orders. For the convenience of our large foreign trade, we have just organized a foreign department, where all export correspondence and orders are handled. Expert linguists will answer mail in any language, even Chinese. Executive and general offices are located on the sec-

ond floor. On this floor is also the art department together with the test laboratories. The third floor is occupied by machine shop, assembly department and service laboratory. Only the very latest and best test equipment is used. The next floor is the stock room, and the overflow from this is placed on the next floor, where are also located spraying and finishing departments.

We have added to our staff either in advisory, consulting or active capacities, men who are known over the entire world as authorities in radio and electrical engineering. We have in addition full access to the facilities of the research laboratory in one of the largest technical schools in the East. In this issue of our catalog we want to introduce you to some of our staff. We will let you meet more in future issues. Your suggestions and comments are invited. Please address "Catalog Editor."

Let Us Introduce M. B. Sleeper

M.E., I.R.E.

Well-known author, consultant and engineer. Mr. Sleeper was in radio "way back when . . ." Radio editor of Everyday Engineering, Radio Mechanics, Radio Engineering, Radio Design; President and Chief Engineer of General Apparatus Corp. and the M. B. Sleeper Radio Corp.; Chief Research Engineer for Pilot Radio and Tube Corp., and now President of the Sleeper Research Corp.



Mr. Sleeper is well known as the author of innumerable text books and pamphlets on radio. Many a radio man still remembers some of the famous circuits designed by him. The "RX-1," the "X-11," the famous "Pilot Wasp" which he engineered in conjunction with R. S. Kruse, the "Air-Hound," the "Air Scout" and others.

Mr. Sleeper is well versed in the needs and requirements of the serviceman and dealer. Wherever radio men congregate you will hear of "MB."

Have You Met Bertram M. Freed?

R.E., S.E., E.S.



Many years in the radio service field have gained for Bertram M. Freed an enviable, country-wide reputation as a service authority. Thousands of service men have read and are familiar with his "Operating Notes for Service Men" for several years, a leading contribution to "Radio Craft," the service man's magazine. For a long time Mr. Freed managed the repair department of one of the largest radio retail organizations in the East. At present he is as-

sociated with this same company in an important capacity, and one that enables Mr. Freed to keep in close contact with all that pertains to radio service and repair. In an effort to aid servicing, he has designed many tools and devices to assist in the test and repair of receivers. We have induced Mr. Freed to manage our service and test departments which are at your disposal for servicing, test and repair of your receivers at a nominal fee. All this work is under the personal supervision of Mr. Freed. Write our Service Department for full details.

Meet Alfred A. Ghirardi

E.S., E.E., N.Y.E.S.

Mr. Alfred A. Ghirardi is instructor in Radio and Electrical Engineering in one of the largest New York technical schools. He is author of the now famous "Radio Physics Course," a standard text in schools throughout the country. Mr. Ghirardi is now busily engaged in preparing a new and larger "Radio Physics Course" in response to many requests. He was formerly associate editor of "Radio Engineering," "Radio Mechanics" and "Radio Design." He was technical consultant for the Pilot Radio and Tube Corp. He is now the technical and chief engineer of the Radio Technical Service Bureau. Mr. Ghirardi can tell how a receiver or unit will operate and its characteristics, before it is even built. He is a member of the N. Y. Electrical Society. Mr. Ghirardi is that rare specimen, a practical research and development engineer. He is a frequent contributor to the pages of "Radio Engineering," "Radio Design" and "Radio News."



Introducing Gerson Lewis

E.S., A.I.M.E., I.R.E.

Gerson Lewis was formerly associate editor of "Radio Design" and was in charge of the Radio Design laboratory. He was also managing head of "Speed," the mail order division of Pilot Electric and Mfg. Corp.

Along with M. B. Sleeper he did radio work on the Pilot Airplane Radio Laboratory. Later he became engineer in charge of development at the Sleeper Research Labs., where remote control for radio was developed. He has been actively associated in radio since his graduation from technical school in 1918. He contributes to "Radio Engineering," "Radio Design" and other radio and electrical magazines.



There's A Reason!

IF you could walk into our place of business, we wouldn't have to write this. You would see a modern, efficient radio merchandising mart. As we took you through the various departments, over the floors occupying thousands of square feet, you would be thrilled at the size of this business machine and enthusiastic in voicing your admiration at the smooth-working efficiency of so vast an organization. But only a very few can call here, so in a few feeble words we try to tell you the story.

From our start in this business, we have had just one policy—VALUES AND SERVICE. Our entire organization, from the president down through the managers of departments to the errand boys, have this as their guiding beacon. "He profits most who serves best" is the best business motto. Modestly, yet with pardonable pride, we point to our present size and place in the radio industry as the best proof of it.

Located in New York, in the world's largest radio center, our experienced buyers are ever alert for quality merchandise at attractive prices. The main idea in this catalog is to offer all the wanted materials at the **very lowest prices consistent with good quality and service.** We will understate rather than overstate, and refrain from wild and extravagant claims which insult your common sense and intelligence.

As our experience grows, we are more and more convinced that you want honest, straightforward statements so you can pick the best value for the least money. We pledge an unbending adherence to these policies, which have been justified by the faith of the many customers whose satisfaction has caused the growth of this establishment to its present size.

TRANSPORTATION

Please indicate on your order as to how shipment is to be made. If order is to be forwarded parcel post, include enough to pay for postage. We pay your parcel post insurance, when full remittance, including postage, accompanies your orders. Over remittances will be refunded. If not enough has been enclosed to pay for postage, we reserve right to ship C. O. D. or express collect for the balance. We reserve right to make shipment in manner we think best.

2% DISCOUNT

All prices quoted are net; a 2% cash discount has already been deducted.

HOW TO ORDER

We pay postage on our convenient order blanks. If you are all out of these blanks a post card will bring a supply to you. Indicate catalog number, page number and full description of item.

"SAME-DAY SHIPMENTS"

We can supply you with any item in radio, even though not listed in this catalog. Tell us what you want, and we will forward our lowest net prices to you.

NO MAIL ORDERS

ACCEPTED UNDER \$3.00

Mail orders for less than \$3.00 cannot be accepted. If we were to ship such small orders, it would increase our operating expenses and result in an increase in prices.

"If I Knew You and You Knew Me"

By W. E. COOPER

If I knew you and you knew me,
'Tis seldom we would disagree;
But, never having yet clasped hand,
Both often fail to understand
That each intends to do what's right
And treat each other "honor bright."
How little to complain there'd be
If I knew you and you knew me.

Whenever we ship you by mistake
Or in your bill some error make,
From irritation you'd be free
If I knew you and you knew me.
Or when some goods you "fire back,"
Or make a "kick" on this or that,
We'll take it in good part you see,
If I knew you and you knew me.

With customers ten thousand strong
Occasionally things go wrong—
Sometimes our fault, sometimes theirs—
Forebearance would decrease all cares;
Kind friend, how pleasant things would be;
If I knew you and you knew me.

Then let no doubting thoughts abide
Of firm good faith on either side;
Confidence to each other give,
Living ourselves, let others live;
But any time you come this way,
That you will call we hope and pray;
Then face to face we each shall see
And I'll know you and you'll know me.

RETURN MERCHANDISE

In returning merchandise, please ask for authorization. All merchandise must be returned via parcel post or express, all charges prepaid.

We number among our thousands of customers the U. S. Bureau of Standards, Cornell University, Columbia College, Yale University, Hebrew Technical Institute, Tufts College, Sheffield Labs, and hosts of others. As we have satisfied these organizations, we feel confident we can please you. Our terms are strictly net cash. Remarkable values and extreme discounts given by us make it profitable for you to buy for cash. All goods are shipped F. O. B. New York. We advise remittance with order. By remitting with order you save C. O. D. collection charges made by the Post Office, and express. This amounts to quite a saving in most cases.

C. O. D. SHIPMENTS

All C. O. D. orders must be accompanied by at least 20% deposit. No C. O. D. shipments made to foreign countries. We will ship documents against sight draft on any New York bank.

METHOD OF PAYMENT

Make remittances by cashiers' check, postal money order, cash, express order, or personal check. Personal checks, unless certified will be held until payment is made. U. S. Postage Stamps in any denominations, in good condition, accepted in payment. Cash should be sent by registered mail.

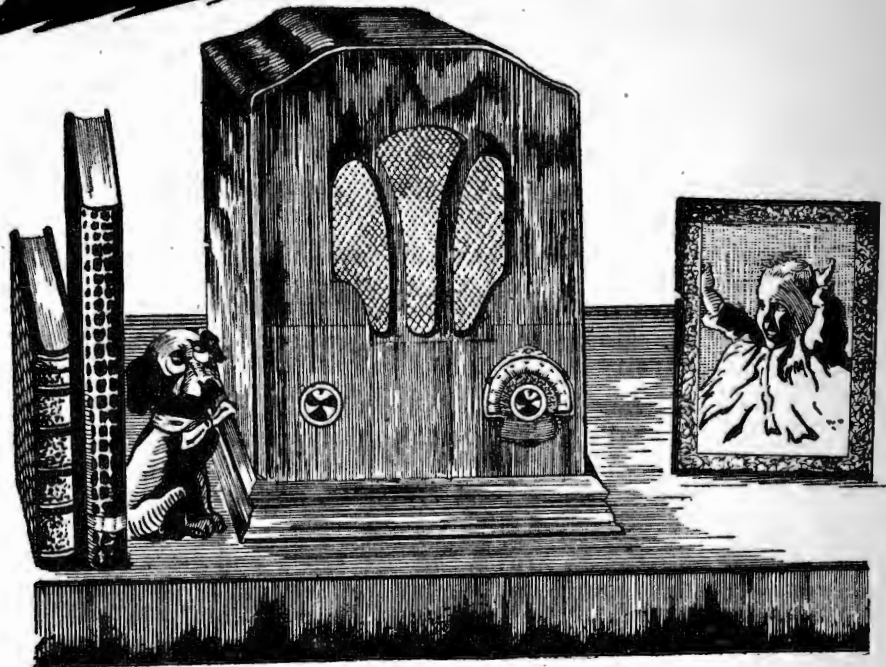
★ ANOTHER SMASHING TRIUMPH!

Reliable JUNIOR

The smallest and most complete radio receiver ever manufactured. Complete in every sense, containing features of the most expensive midget set on the market and many of its own. Housed in a beautiful cabinet of selected woods, the Reliable Junior produces enormous volume with distortion-free tone.

Circuit Details

The circuit is newly developed and one of the most efficient ever designed, consisting of two tuned R.F. stages and two audio stages with Pentode output.



Special R.F. Circuit

The double tuning condenser, which permits high gain per stage without the usual interference between stages, and the radio frequency transformers were specially designed to secure utmost sensitivity and the sharpest selectivity.

New Special Design Power Detector

The detector uses a 224 as a power detector in the latest detector circuit design. The Reliable Junior has a power detector that will handle enormous volume without distortion and yet is far more sensitive than the old grid leak and condenser method of detection.



Audio Amplifiers

The audio amplifier consists of a two-stage compensated amplifier. The first stage is resistance coupled while the output stage which uses a Pentode is special transformer coupled. This amplifier gives tremendous gain and power. A phonograph pickup can be used, if desired, something which is not possible with receivers with a single audio stage.

Full Range Dynamic

A dynamic speaker designed for use with a Pentode tube is the reproducer. It assures faithful, full-throated reproduction of all music and speech broadcasts.

Filter Circuit

The filter circuit contains 7 mfd. of high grade linen-paper condensers. And 8 mfd electrolytic in a brute force filter. The most efficient filter yet designed. Absolutely no hum.

Constant Voltages

The voltage divider system is so designed as to always furnish steady voltages to all tubes, due to the ingenious drop system employed.

Over-Size Power Transformer

The power transformer employed is of a generous oversize type which delivers the full specified voltages to all tubes. Built to a standard, not to a price, it gives long, unflinching service.

Tuning Control

The tuning dial, of the latest type in design and artistic in appearance, is a full vision direct drive, with NO backlash or slip.

Multi-Mu and Pentode Tubes Used

The use of a multi-mu tube increases the sensitivity and volume. Selectivity is brought up to a new degree by reducing cross talk modulation to a minimum. A Pentode tube in the output circuit handles the enormous power input and delivers it to the speaker in a new realism of tone.

Handsomely Finished Cabinet

The cabinet is gracefully designed. It is made of hand-rubbed satin-finished walnut, and measures 18"x10 1/2"x7". The on and off switch is combined with the full range smooth volume control.

Full Shielding

The chassis is cadmium plated and fully shielded. Every new feature is built into this receiver. Not a job lot, but a carefully designed, well-planned, capably-built receiver.

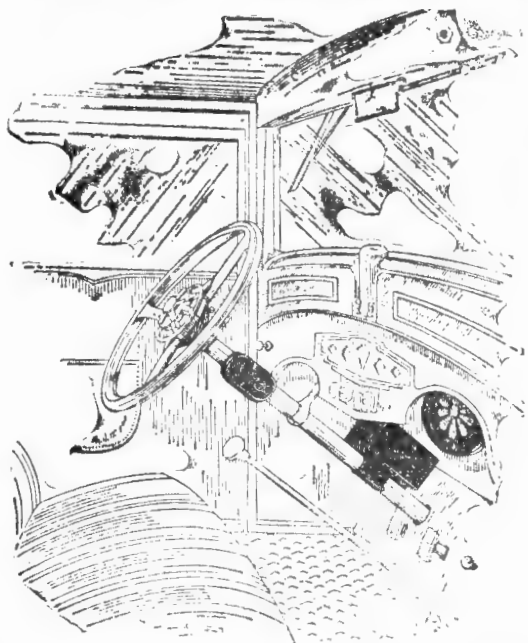
Cat. No. 3928

YOUR PRICE \$16.75

Complete with Tubes
Ready to Operate

When sets are ordered in lots of
or more deduct 5% additional

Radio Surplus Corporation, 54-56 Vesey Street, New York

*La Salle***AUTOMOBILE RADIO RECEIVER***La Salle**La Salle***Modern Pentode Auto Radio**

The La Salle Auto Radio represents the newest developments in auto radio. Uses the new radio tubes, specially designed for automobile radio, a Utah self-baffling dynamic speaker, easiest installation of any automotive set, high sensitivity, quality comparable to the home receiver, and the latest and most efficient control system yet devised. Battery drain is kept down to a minimum and assures long battery life.

Uses Newly Developed Automotive Tubes

The La Salle uses six of the new automotive tubes. Three of the 236 screen grid type, two of the 237 general purpose type and a 238 Power Pentode output tube. This combination gives it stability, sensitivity and freedom from tube trouble and burnout. The automotive tubes are of the heater type, non-micro-

phonic, sturdy construction, and designed to operate over a filament range of from 6 volts to 7.5 volts. This insures equal reception when the car is at rest or when running and the generator charging the car battery, increases the potential across the battery by 1 to 1½ volts.

Full Range Utah Dynamic

A special automobile dynamic speaker, manufactured by Utah is standard equipment with each set. It is a speaker worthy of the finest motor car. Has adjustable brackets that will allow easy installation in any car in any position. The Utah Auto Speaker is acoustically correct and will give quality comparable to the finest receivers in the home.

The Utah Motor Car Control

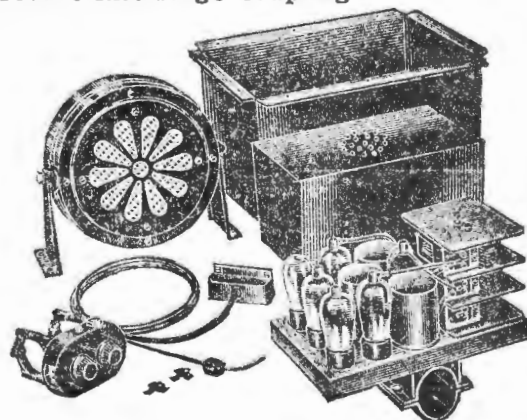
The modern motor car radio deserves a remote control that is equal to the car and radio in mechanical perfection, appearance, and reliability. The control is at the fingertips of the driver and is not affected by road shock and requires no drilling or cutting to install. The Utah has no back lash, no lost motion, no clumsy rotating drive and does not require straight line installation. Cable up to 10 feet long will be supplied at no extra charge, when specified. If a longer drive is needed there will be an additional charge of 25c per foot.

Filtered Power Supply

"A" power is drawn from the car battery. "B" supply is taken from four large dry "B" batteries mounted in a steel case which fastens out of sight under the floor boards. This case is standard equipment included with the receiver. Voltages from the "B" batteries are divided within the set. Each lead is filtered to prevent interstage coupling.

Easy Installation

La Salle Pentode Auto Radio is the smallest ever designed for motor car use. It can be installed in a fraction of the time needed for other makes. A screw driver and pliers are the only tools necessary. No drilling, cutting or marring of the car necessary. A collar on the receiver provides for installation on steering column. Where installation against a flat surface is desired the collar can be removed. Complete receiver with Utah Auto Speaker, Utah Remote Control, Battery Box, Ignition Suppressors, (suppressors for six-cylinder cars), Generator Filter.



Cat. No. 3696

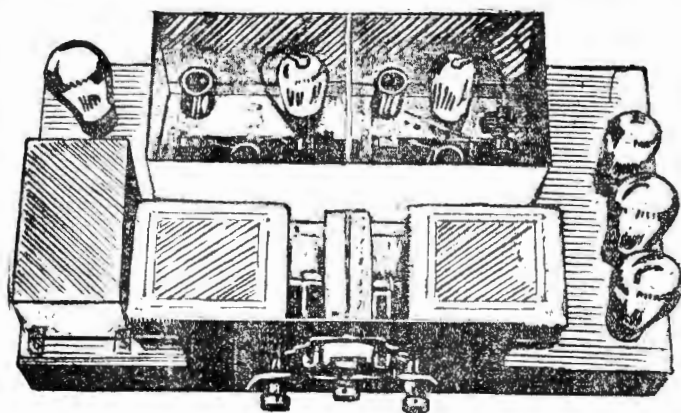
YOUR
PRICE**\$37.50**Less Tubes
and Batteries

Extra Suppressors 45c each

Radio Surplus Corporation, 54-56 Vesey Street, New York



PILOT RADIO PRODUCTS



Pilot Universal Super Wasp Receiver Latest Model

The most advanced receiver ever offered the radio listener. Covers in seven steps the **wave length range of 15 to 650 meters**. One switch, controlled from the front panel controls all wave-length changes. This is as important an improvement to radio as the self-starter to automobiles. There are seven available overlapping ranges 15 to 23 meters, 22 to 41, 40 to 75, 70 to 147, 146 to 270, 240 to 500, and 470 to 650. Any one range may be instantly selected, a scale on the front panel indicating the range which is active.

The Universal uses a stage of tuned screen grid R. F. amplification, a screen grid detector using a new method of regeneration control which does not alter the tuning, an impedance coupled audio stage with 245 push-pull. Has provision for dynamic speaker field excitation, phonograph pickup and

earphone connections. A handsome walnut cabinet is supplied with all models.

The receiver for A. C. uses two 224's, one 227, two 245's and a 280.

The Universal is also available in a battery operated model. The battery job uses two 236's, a 237 first audio and two 238 Pentodes. The receiver is identical in appearance with the A. C. model excepting that it has no provision for dynamic field.

Universal Kit for 110-115 volts, 60. cycle A. C.

Cat. No. 8607 Your Price **\$85.00**

Universal Kit for battery operation.

Cat. No. 3609 Your Price **\$79.00**

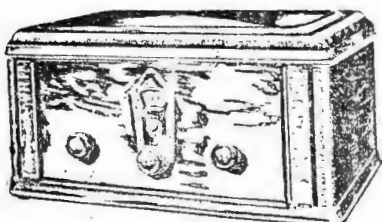
**Universal for 110-115 volts, 60-cycle A. C.
Factory assembled and wired.**

Cat. No. 8608 Your Price **\$99.50**

**Universal Battery Operated. Factory assembled
and wired.**

Cat. No. 3610 Your Price **\$93.00**

Pilot Television Receiver



Television has emerged from the "lab" and is ready for the public. Television reception is breathlessly thrilling and offers the set owner a huge amount of entertainment. Television is transmitted between 100 and 150 meters. The main requirement is that the receiver be free of regeneration. This rules out all standard short wave receivers depending on highly regenerative

detectors for their sensitivity. Pilot has brought out a special kit receiver for television work. It uses 2 stages of screen grid R.F. with 551 variable mu tubes, a 224 detector, a 227 first audio and 247 power pentode output and a 280 rectifier. The audio amplifier is resistance coupled. The set tunes from 100 to 500 meters with two sets of plug-in coils. No power supply is furnished, the receiver being designed for the standard K-112 Power Pack Television kit with front panel, less tubes and power pack.

Cat. No. 3611. **\$28.50**
Your Price.....
Television receiver kit with cabinet, less tubes and power pack. Cat. No. 3612. Your Price..... **\$34.50**
Power Pack for television receiver. Cat. No. 3613. **\$19.50**
Your Price.....

We recommend the Reliable Television with the above receiver. The television will be found listed in this catalog.

Variable Shielded Condensers



The new Pilot shielded variable condensers are the heaviest and most rigid condensers ever offered. Designed originally to meet the specifications of the Pilot DeLuxe Super-Heterodyne receivers, they are built to very rigid standards. Made in single, double, triple and quadruple units, the maximum capacity per section being .000385 mfd. Minimum capacity is unusually low and permits full coverage of the broadcast band. Dimensions 4 1/2" by 3 1/2" on end. Depth 1 1/4", 3", 4 1/2" and 6". Shaft 1/4".

Cat. No. 3590. Single Section Your Price **\$1.14**
Cat. No. 3600. Double Section Your Price **\$2.19**
Cat. No. 3601. Triple Section Your Price **\$3.33**
Cat. No. 3602. Quadruple Section Your Price **\$4.47**

Midget Variable Condensers

Used for neutralizing R.F. amplifiers, antenna coupling, tuning verniers, regeneration control, short wave tuning, etc. Available in four capacities.



Cat. No. Max mfd. Your Price
8603 .000015 **50c**
8604 .000025 **50c**
8605 .00005 **50c**
8606 .0001 **60c**

I. F. Transformers



For the intermediate stages of the super-hut. These are accurately matched. Packed three to a box. In strong aluminum cans arranged for ease of mounting. Cans measure 2 13/16" in diameter and 2 3/4" in height.

Cat. No. 3934 List \$6.00

Your Price **\$3.50** Per Kit of Three

Super-Heterodyne Coils



This kit contains one band-pass coil, one oscillator coil and two special fixed condensers. Packed in one box. Designed for a circuit comprising a band-pass filter coupled to a screen grid R.F. stage ahead of first detector. Recommend the use of the Pilot Shielded Variable Condensers with this kit.

Cat. No. 3935 List \$3.70

Your Price **\$2.25** Complete Kit

COMPLETE LINE OF PILOT RADIO PARTS

Radio Surplus Corporation, 54-56 Vesey Street, New York

Matchless
Performance**PILOT SUPER-HETERODYNES**Enduring
Satisfaction

THE RESULT OF SINCERE WORKMANSHIP

**Pilot Midget Super-Heterodyne**

The new seven-tube Midget Super-Heterodyne has instantaneous eye and ear appeal. It is a small set, but a big performer! Its modified Gothic cabinet is most distinctive in shape and decoration, and presents a truly beautiful appearance because of its combination of diamond walnut veneer and maple grill and overlay. It stands 18½ inches high, 16½ inches wide and 9½ inches deep.

This wonderful set has automatic volume control, full vision illuminated station selector, tone control, phonograph connection and a full-voiced dynamic speaker. It uses the latest variable-mu and power Pentode tubes in a highly developed super-heterodyne circuit that gives clean-cut separation between stations, with clear rounded tones. The automatic volume control reduces fading, eliminates "blasting," and assures uniform signal strength. No other radio set at this price has this expensive feature.

The Midget Super-Heterodyne employs three 551 variable-mu tubes, two 227's, one 247 Pentode and one 250 rectifier. The circuit comprises one R.F. stage ahead of the first detector, local oscillator, I.F. stage, second detector and output Pentode.

Cat. No. 3031.

110-volt D. C. Model available at same price. Models available for battery or 25-cycle operation.

YOUR PRICE

\$69.50

(Complete with Tubes)

**Pilot Standard Console
Super-Heterodyne**

The ten-tube Pilot Super-Heterodyne, in its full-size console, is both a technical achievement and an artistic accomplishment. The rigid chassis, solidly built for enduring performance and service, incorporates new and exclusive features developed by the Pilot engineering staff. A hitherto unrealized degree of sensitivity and selectivity has been obtained with full retention of tone quality. An altogether new type of automatic volume control eliminates fading and prevents "blasting" in the loud speaker when the set is tuned from one station to another. Other features are full-vision station selector, tone control, phonograph connection, nine-inch dynamic speaker and visual tuning meter.

The two-tone walnut cabinet, with its gracefully rounded legs, fancy grille and tasteful deco-

ration, is a beautiful piece of furniture that will grace any home. It stands 41½ inches high, 24½ inches wide and 15 inches deep, and is a fine example of the cabinet-makers' art.

The Standard Super-Heterodyne uses four 551 variable-mu tubes, three 227's, two 247's and one 250. The circuit is arranged with a pre-selector stage ahead of the initial R.F. stage, the combination working into the first detector, and followed by two I.F. stages, second detector, and push-pull power audio.

Cat. No. 3932. For 110-volt 60-60 cycle A.C.

110-volt D.C. model available at same price. 25-cycle and battery models also available.

YOUR PRICE

\$126

(Complete with Tubes)

**Pilot De Luxe Console
Super-Heterodyne**

The ten-tube De Luxe Super-Heterodyne is a set that lives up to its name. The walnut cabinet is truly magnificent in its well-proportioned contours, its fine matching of veneers, and its handsome finish. The six fluted legs create a pleasing effect of beauty and dignity that will distinguish this set from a dozen others on a display floor.

The hinged doors fitted with antique metal handles, harmonize with the cabinet proper, whether they are open or closed. So many consoles look awkward and unbalanced with the doors swung open, that this new design will be greeted with delight by merchants with a fastidious clientele.

The De Luxe console is fitted with the same ten-tube chassis as the Standard

model, and like the latter, has a long length of baffle that brings out the deepest notes and reproduces every instrument in the largest symphony orchestra. The visual tuning meter shows when a station is fully tuned in, and is a valuable aid in realizing the selectivity and high tone quality of which the set is capable. Overall dimensions of the cabinet are: 41½ inches high, 24½ inches wide, and 15 inches deep.

Ten tubes are required: Four 551's, three 227's, and two 247's and one 250.

Cat. No. 3933. For 110-volt, YOUR PRICE
60-60 cycle.

110-volt D.C. Model available at same price.

25-cycle and battery models also available.

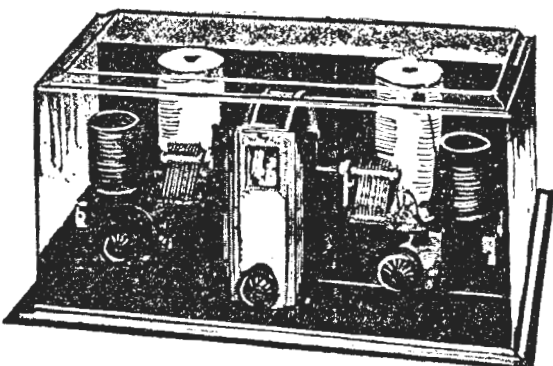
\$146

(Complete with Tubes)

Radio Surplus Corporation, 54-56 Vesey Street, New York

◀ NC RADIO NATIONAL PRODUCTS NC ▶

The New National Thrill Box Double Screen Grid Using New Variable Mu Tubes



The new National 5-tube short wave "Thrill-Box" receiver was designed in response to a continuous demand for a highly sensitive yet easily tuned short wave receiver. It is capable of giving consistent loud speaker reception from the numerous foreign short wave broadcast stations, as well as meeting the strongest requirement of amateur and commercial operators.

High Gain Circuit Employed

The circuit comprises a stage of tuned screen grid R.F. and a screen grid detector. Type 235 or 551 variable mu tubes are used in the R.F. and detector stages. The two stage audio amplifier uses 227 tubes in both stages to eliminate all hum. The output stage is push-pull. A jack is provided after the first stage for

headphone reception, if desired. Four sets of R.F. coils are included. They cover from 15 to 115 meters. Special coils are available for other ranges and blank forms for experimental purposes.

"Wide Band Spread" Operation

The straight line frequency tuning condenser is of a special construction and may be easily adjusted to provide for the "wide band spread" required for special amateur and commercial work.

All-Electric Operation

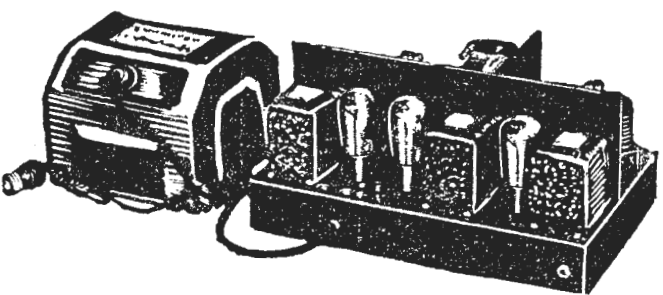
The power pack is a separate unit thoroughly shielded and mounted in an attractive metal case. It supplies all necessary power to the "Thrill-Box" receiver. It uses a 280 tube and comes complete with cable and plug. Model ACS W5—for use on 110-120 volts 50-60 cycle A.C. In kit form (with coils for 15 to 115 meters) uses 2-235's, 2-227's.

Cat. No. 3866. **YOUR PRICE \$46.75** Less Tubes
Model DC SW5—For 2-volt battery operation (with coils for 15 to 115 meters). In kit form. Uses 2-232's, 2-230's, and 1-231 tube. This receiver may also be used with six-volt tubes as per instructions furnished.

Cat. No. 3867. **YOUR PRICE \$44.10** Less Tubes
A-B Power Supply for use with Model AC SW5 receiver. Completely wired with plug-in cable, uses a 280 tube.

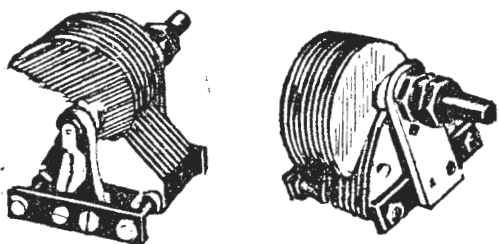
Cat. No. 3868. **YOUR PRICE \$20.30** Less Tubes
Band Spread Coils for 20, 40, or 80 meter. Per set of two per band.

Cat. No. 3869. **YOUR PRICE \$3.90**
We can furnish either DC SW5 or AC SW5 model wired and ready to operate at an additional cost of \$5.85.



SPECIAL SHORT WAVE TUNING CONDENSERS

Type SE 100



The new National Type SE 100 Variable Condenser has been designed especially for short-wave work and is not of the "cut down" broadcast variety. Among the outstanding features is the use of the 270° rotation epcycle plates, insulated front bearing, constant impedance pigtails, single hole panel mounting, as well as provision for baseboard mounting, 1/4" shaft and R-39 low-loss insulation. Size 1 1/2" x 1 3/4" x 2".

Rotor and stator plates readily removable to alter capacity range to meet special circuit requirements.

Cat. No. 3870—Type S E 100—100 mmf. **\$2.21**
List \$3.75. Your Price

Cat. No. 3871—Type S E 50—50 mmf. **\$2.06**
List \$3.50. Your Price

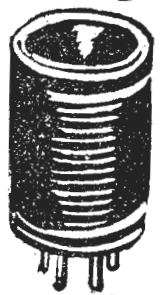
Type S T 100 same as above but eqitune plates, 180° rotation.

Cat. No. 3872—Type S T 100—100 mmf. **\$2.21**
List \$3.75. Your Price

Cat. No. 3873—Type S T 50—50 mmf. **\$2.06**
List \$3.50. Your Price

Special Short Wave Plug- in Inductances

Type R-39



Moulded of R-39, the new low-loss coil form material developed by the Radio Frequency Laboratories for short-wave use. Forms available with UX four prong, UY five prong, or special six prong base, for use in standard sockets.

The coils listed below are designed for use with the new National SW5 "Thrill-Box."

Cat. No.	Color	No.	Range	List	Your Price
3874	Brown	10	9 to 15 meters	\$2.75....	\$1.62
	Black	11	14.5 to 25 "	2.50....	1.47
	Red	12	23 to 41 "	2.50....	1.47
	White	13	40 to 70 "	2.50....	1.47
	Green	14	65 to 115 "	2.50....	1.47
	Blue	15	115 to 200 "	2.75....	1.62
	Orange	16	200 to 360 "	2.75....	1.62
	Yellow	17	350 to 550 "	2.75....	1.62
	Special	18	540 to 850 "	6.00 pair	3.53

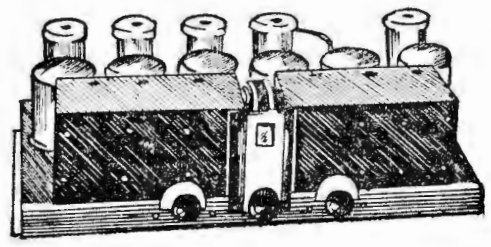
FORMS ONLY
Four prong UX, five prong UY or six prong Special **89c**

Cat. No. 3875. List \$1.50. Your Price.....
SOCKET FOR SIX-PRONG COIL **95c**
Cat. No. 3876. Your Price.....

◀ NC RADIO NATIONAL PRODUCTS NC ▶

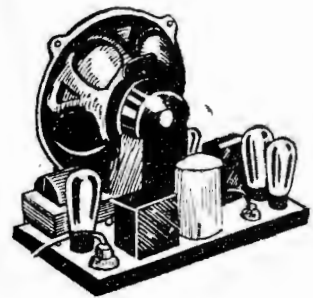
De Luxe National MB 30 Screen Grid Tuner

The latest development of the National Laboratories, incorporating the latest developments of Glenn H. Browning and James Millen. High selectivity, extreme sensitivity (approximately uniform sensitivity of one microvolt per meter over entire broadcast range). Four screen grid stages. Band pass stage. Totally shielded. Colored scale projection tuning dial. Absolute freedom from oscillation. Elimination of tube hiss and other background noises. Rugged construction. Thorough shielding. Easy to wire. Designed for people who want the best. Makes an ideal "radio pick-up" for theatres, hotels and public address systems. Especially designed for use with the Velvetone amplifiers, but can be used with any amplifier. During tests on a production set near Boston, three Californian stations were received with good regularity on an 8-foot antenna.



MB-30 Complete set of parts for 5-tube screen grid tuner. **\$49.18**
 Cat. No. 3878. List Price \$85.00. **YOUR PRICE**

MB30 Tuner completely wired and ready to operate. **\$55.86**
 Cat. No. 3879. List Price \$95.00. **YOUR PRICE**



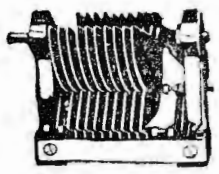
National Velvetone Amplifier-Speaker

(Licensed Under R.C.A. Patents)

This new Velvetone Amplifier Speaker unit is designed especially for use with the MB-30 tuner. A new type Jensen speaker is mounted on the amplifier chassis. Supplies plate and filament voltages for the tuner. It uses 1-227, 2-245's and a 280. Oversize power transformers and units insure long uninterrupted service. Comes completely wired and assembled with Jensen Speaker. **List Price \$109.50**

Your Price **\$63.39**

National Equicycle Condenser



These condensers are of a straight line frequency type, 270° rotation, built into the National Girder frame. The spacing between plates has been doubled in the smaller sizes and a non-inductive piston added to insure positive and silent operation without detuning effect.

Cat. No.	Type	No. Capacity	Plates	List Price	Your Price
3881	EC-15	.000015	3	\$4.00	\$2.35
3882	EC-50	.00005	9	4.25	\$2.50
3883	EC-75	.000075	11	4.25	\$2.50
3884	EC-100	.0001	15	4.50	\$2.65
3885	EC-125	.000125	19	4.50	\$2.65
3886	EC-150	.00015	9	4.00	\$2.35
3887	EC-250	.00025	17	4.50	\$2.65
3888	EC-350	.00035	23	4.75	\$2.80
3889	EC-500	.0005	31	5.00	\$2.94

National Coupling Unit

This is a small insulated universal joint of the flexible disc type, for use in coupling the shafts of tuning condensers. Simplifies construction of single control receivers, prevents binding of shafts. For 1/4" shafts. **List Price 55c**

Your Price **32c**

Laboratory Dials



The 4-inch solid German silver National Velvet Vernier Dial Type N has been developed for use in radio equipment requiring the utmost precision of logging. It is equipped with a real Vernier, making accurate readings possible to 1/10 of a division. Uses the original and unexcelled National Velvet Vernier. Three-point mounting.

Cat. No. 3890. 100-0 scale.
 Cat. No. 3891. 150-0 scale.
 Cat. No. 3892. 200-0 scale.
 List Price \$6.50.

Your Price **\$3.82**

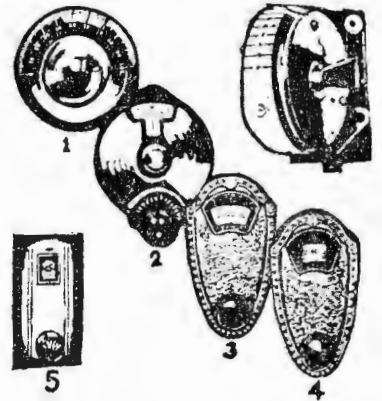
New National Auto Receiver

National Engineers have for the past year been engaged in designing a real automobile set, designed to overcome the faults and shortcomings of all preceding sets. Final details have not been released as we go to press, but we will be pleased to mail descriptive matter about this receiver to anybody asking for same. The highest design in automobile and radio engineering has been incorporated in this latest release from the National Laboratories.

Service Dept.

Our service department is now available for service and repair of your receivers and powerpacks. It is under the direction and personal supervision of Bertram M. Freed, assuring you of service that is right in all respects. Write for prices and details. Address "Service Department."

Velvet Vernier Dials



Velvet Vernier dials are synonymous with the highest quality and precision operation of tuning dial.

Fig. 1—The original Type A—No backlash exists—none can develop.

Cat. No.	Type	List Price	Your Price
3893	0-100, 180°	\$2.50	\$1.47
3894	100-100, 180°	2.50	
3895	200-0, 360°	2.50	
3896	150-0, 270°	2.50	

Fig. 2—Variable Vernier ratio of 6-1 to 20-1.

Cat. No.	Type	List Price	Your Price
3897	200-0 360°	\$2.50	\$1.47
3898	0-200 360°	2.50	
3899	0-100-0 180°	2.50	

Dial Illuminator and Bracket Extra, 30c

Fig. 3—Similar to Fig. 2, but with a distinctive escutcheon.

Cat. No.	Type	List Price	Your Price
3900	0-100-1	\$2.75	\$1.62
3901	200-0	2.75	1.62

Dial Illuminator Extra, 30c

Fig. 4—The new National drum dial. Automatic spring take up. Modern escutcheon. Cat. No. 3902 List \$4.50 Your Price **\$2.35**

Type 28. Illuminator extra, 30c

Fig. 5—The latest projection television type dial. Choose your station by rainbow color. A beautiful and novel dial.

Cat. No.	List Price	Your Price
3903	Drum Dial, \$5.50	\$3.23
3904	Disc Dial, 3.75	2.24

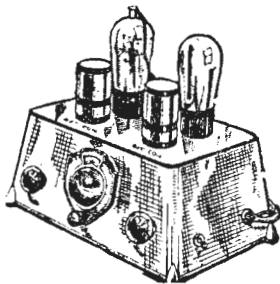
Full Line of National Parts in Stock

Radio Surplus Corporation, 54-56 Vesey Street, New York

BUD EQUIPMENT—EVERYTHING IN RADIO

Bud Super Short Wave Converter

*A New Thrill in Radio With
the Turn of a Knob*



*Makes Your Present Set a Short
and Long Wave Receiver*

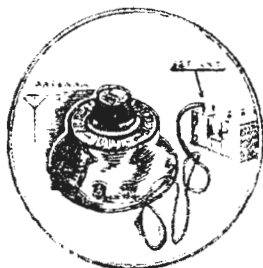
The Bud Super short wave converter is a fully A.C. operated screen grid converter with self-contained filament supply and an adapter whereby plate current is taken from the broadcast receiver. Housed in a compact Die-Cast Aluminum case and finished in a beautiful crystalline brown. When operated in combination with any standard broadcast receiver either superheterodyne or tuned radio frequency type, the Bud super short wave converter will give loud speaker volume of short wave and broadcast programs of all the American and foreign short wave stations. A very sensitive and easy-to-operate unit, using one 224 and one 227 tubes. A new sensation to get radio messages from ocean liners, aeroplanes, direct without depending on rebroadcasting from local stations. Complete with 5 pairs of coils. Shpg. wt., 5 lbs.

Cat. No. 3568

Your Price
Less Tubes

\$17.35

BUD AERIAL FILTER



A very attractive compact unit that really enables you to cut out interfering stations and bring in the station you desire.

Cat. No. 3587

List \$1.50

Your Price **88c**

COIL FORMS

(Not wound)



Ideal for short wave converters and tuners. Constructed of high grade low loss insulating material.

4 prong coil form Cat. No. 3590 List 35c

5 prong coil form Cat. No. 3591 List 35c

Your Price **21c**

ANTENNA ELIMINATOR

A device that can be fastened into cabinet of set and takes place of an outside aerial.

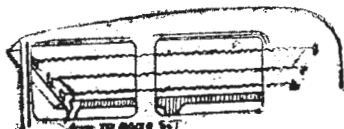
Cat. No. 3597

List \$2.50

Your Price **\$1.47**



BUD AUTO RADIO AERIAL



Easily installed and very practical. Plated while the shielding effect of your car has least effect. Consists of three Phosphor Bronze Coiled Springs.

Cat. No. 3588

List \$2.00

Your Price **\$1.47**

AUTO RADIO SILENCER KITS

The ideal kit for autoradio installations. Guaranteed to give perfect satisfaction. Consisting of specially constructed spark plug suppressors, distributor spark suppressor, and a generator silencer of the finest type, with bracket attached for mounting on generator. Complete in attractive carton.



Cat. No. 3592, 4-cyl. Cars. List Price \$1.50

Your Price **\$2.65**

Cat. No. 3593, 6-cyl. Cars. List Price \$5.80

Your Price **\$3.41**

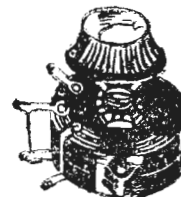
Cat. No. 3594, 8-cyl. Cars. List Price \$7.10

Your Price **\$4.18**

Cat. No. 3595, Md. A Fords. List Price \$5.10

Your Price **\$2.99**

Constant Impedance Volume Control



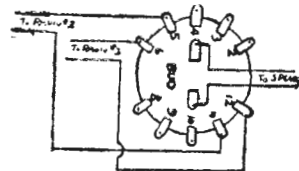
A carefully designed unit for all purposes where the entire impedance is desired across the circuit at all times regardless of the adjustment. 5000 ohms.

Cat. No. 3589

List \$2.50

Your Price **\$1.47**

5-POINT DOUBLE POLE SELECTOR SWITCH



A sturdy, compact selector switch that is ideal for use in installations, where one instrument as receiver, speaker or meters can be connected up to five circuits by merely turning the switch. Has no peer for set analyzer construction.

Cat. No. 3596

List \$1.50

Your Price **88c**

PHONE TIPS



Heavily nickled
Cat. No. 3598

Your Price

Per Dozen
35c

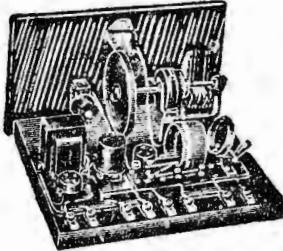
Per Gross
\$4.10

**KNOWN THE
WORLD OVER**

For Better Radio
Hammarlund
PRECISION
PRODUCTS

**PRECISION
RELIABILITY**

"THE HAWK"-A Two-Tube Short Wave Receiver



Remarkable 2-tube distance getter. Consists of regenerative detector and one stage of audio. Designed for use with new 2-volt tubes. Designed for two type 230 tubes, but can be used with any tubes. For years, this standard reliable circuit has given consistent reception from all parts of the world. Designed for phone, but extra stage of amplifier can be added for loud speaker reception. Covers from 14 to 110 meters or a frequency range of about 20,000 K.C. to 27,000 K.C. A kit quickly and easily assembled. Uses parts of the highest quality. Comes complete with panel, baseboard, instructions, necessary hardware and plug-in coils.

Cat. No. 3830.

Your Price \$21.17

Short Wave Condensers

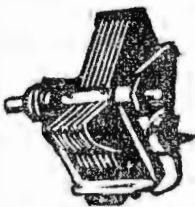


Double spaced brass plates. Parmica insulation, smooth and easy tuning, double wiping contact, midline shaped plates, full floating rotor, shaft is removable. Panel or baseboard mounting. Tested at 1,000 volts.

Cat. No.	Capacity	Your Price
3831	150 mmf.	\$2.94
3832	125 mmf.	
3833	100 mmf.	
3834	000 mmf.	

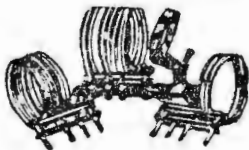
Midline Condensers

The improved Midline Condenser utilizes the newly perfected Parmica low loss insulation. Four years of leadership attest to the remarkable engineering and leadership of Hammarlund Midlines. Special shaped brass plates, full floating rotor, removable shaft, ball and cone bearings, bronze pigtail; rib reinforced aluminum alloy frame. Tested on 1,000 volts AC.



Cat. No.	Capacity	Your Price
8835	.0005 mfd.	\$3.24
8836	.00035 mfd.	\$3.09
8837	.00025 mfd.	\$2.94

Short Wave Plug-ins



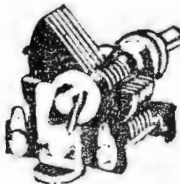
Built around the famous Hammarlund self-supporting space-wound core material developed over five years ago, and still acknowledged as standard for low impedance at the high frequencies. New and greatly improved. For use with 125 mmf. condensers. Set consists of base with a variable antenna coil and 20, 30, 40, 80 meter hand plug-in coils. Cat. No. 3839

Your Price \$7.35

Additional coil for 105 to 205 meters.

Cat. No. 3838. **Your Price \$1.77**

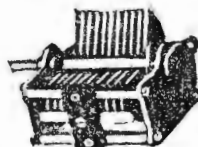
New Midget Short Wave Condensers



Soldered non-corrosive brass plates, sturdy frame and accurately fitted bearings. Parmica insulation. Four-point bronze wiping contact. No pigtail. Adjustment locking screw works in a groove. Cannot burr the shaft.

Cat. No.	Plates	Min. Cap.	Max. Cap.	Your Price
3840	43	12 mmf.	320 mmf.	\$2.06
3841	34	10 mmf.	260 mmf.	1.77
3842	27	10 mmf.	200 mmf.	1.65
3843	19	7 mmf.	140 mmf.	1.47
3844	14	6 mmf.	100 mmf.	1.35
3845	11	6 mmf.	80 mmf.	1.18
3846	7	5 mmf.	50 mmf.	1.06
3847	5	4 mmf.	35 mmf.	.88
3848	3	3 mmf.	20 mmf.	.88

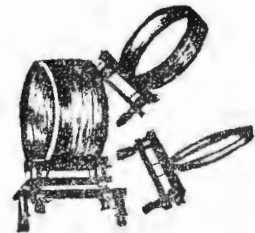
Transmitting Condensers



The extremely low losses and high quality of Hammarlund Transmitting Condensers makes them ideal for high powered transmitters. Spacing between plates is .083". Breakdown voltage is 3500 volts at 500 K.C. using 500 cycle alternator.

Cat. No.	Capacity	Your Price
3849	106 mmfd.	\$3.53
3850	200 mmfd.	4.12
3851	390 mmfd.	5.88

Short Wave Plug-in Inductors



Constructed like the regular plug-in coils, but without the tickler or valuable primary. Designed for use in a receiver using a tuned radio frequency stage, using standard or screen grid tubes. Set consists of base and coils for 20, 30, 40, 80 meters. Cat. No. 3852

Your Price \$4.41

105 to 205 meter plug-in coils. Cat. No. 3853

Your Price \$1.18

R.F. Choke Coils Polarized Type

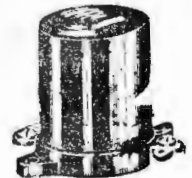


The coil unit is thoroughly shielded in an aluminum shell. This construction results in a minimum external field and permits close compact receiver design. High impedance, low distributed capacity. The polarity is indicated. Cat. No. 3854

Price 88c

High Impedance Type

Encased in bakelite. Ideally suited for use in detector plate circuits, "B" plus and grid return leads of R.F. tubes or wherever R.F. filtering is required. Both types will carry 60 m.a.



85 Millihenry inductance. Capacity, 3 mmf. D.C. resistance, 215 ohms. Cat. No. 3855

YOUR PRICE \$1.18

250 Millihenry inductance. Capacity, 2 mmf. D.C. resistance, 420 ohms. Cat. No. 3856

YOUR PRICE \$1.32

MIDGET SETS FOR ALL PURPOSES

THE "I. C. A." ENVOY RECEIVER



Proving itself to be a most remarkable and powerful receiver, the Envoy is taking its place as the leading and best designed midget that has ever been released. Radio's latest developments have been so incorporated into the Envoy as to produce tremendous volume and selectivity **WITHOUT DISTORTION**. The introduction of the **VARIABLE-MU SCREEN GRID TUBES** absolutely prevents cross talk and interference between stations. A **PENTODE POWER OUTPUT TUBE** resistance coupled to the screen grid **POWER DETECTOR** assures life-like reproduction and outstanding tone quality. Equipped with famous "I. C. A." tone control, phonograph jack and sturdy, powerful hum-free dynamic speaker. **WAVELENGTH RANGE OF 200-600 METERS BUT MODELS ARE AVAILABLE RANGING FROM 200-2,000 METERS.** Five tubes—two 651 variable-mu tubes, one 224, one Pentode and one 280 tube. Cabinet of dark American walnut, piano finish. Net wt. 28 lbs. Shpg. wt. 32 lbs.

Cat. No. 3308. 110 Volt A.C. or D.C. Models. **\$29.50**
List \$65.00. Your Price

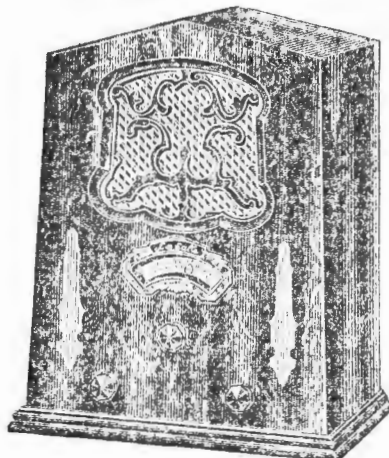
Cat. No. 3309. 220 Volt A.C. or D.C. Models. **\$29.50**
List \$65.00. Your Price

Cat. No. 3310. Long Wave Model, 200-2,000 Meters. List \$72.00. Your Price. **\$29.50**

110 Volt A.C. or D.C. Chassis of Above Receiver **\$22.75**



La Salle "CHICO" A Double Pentode and Variable Mu Midget of Superlative and Outstanding Merit



Employing in a new and highly improved circuit, two new type 235 variable-mu screen grid tubes, one 224 screen grid power detector and TWO new 247 Power Pentodes and a 280 rectifier. **PRODUCING SUCH TREMENDOUS DISTORTIONLESS VOLUME AND AMAZING SELECTIVITY AND SENSITIVITY AS WAS NEVER BEFORE POSSIBLE WITH ANY OTHER COMBINATION OF TUBES.** The Utah or Rola dynamic speaker designed particularly for this set, easily handles the volume with sweetness of tone and without a trace of hum. Illuminated full vision dial and permanent phono-pickup jack. Housed in a beautiful cabinet of American walnut, tastefully finished. Will fit into the most luxurious surroundings. 15" x 14 1/2" x 9". Wt. 21 lbs. Shpg. wt. 25 lbs.

Tubes required for A. C. models, 2-235, 2-247, 1-224, 1-280

FOR 110-VOLT

110-volt D. C. **\$22.50**
Your price
110-volt 60 cycle **\$25.20**
A.C. Your Price...

Tubes required for D. C. models, 8-232, 1-230, 2-171A.

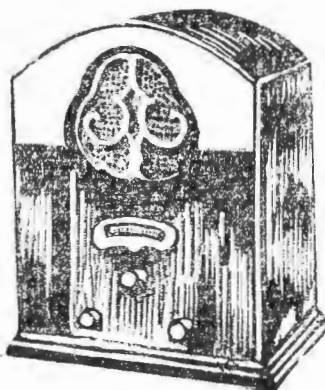
FOR 220-VOLT

220-volt D. C. **\$23.70**
Your price
220-volt 60 cycle **\$27.00**
A.C. Your Price...

HALSON RECEIVERS

A newly-developed product of the radio art, housed in a distinctly modern, two-toned, hand-rubbed walnut cabinet. Foremost engineers have contributed in designing this high-selective golden-toned midget, with its 3 tuned

stages, variable-mu tubes, full-vision dial, 2-8 mfd. electrolytic condensers, tone control and phono-pickup jack. A Rola dynamic completes the picture of as fine a receiver as money can buy. A.C. models for either 110 or 220 volt operation use two 235, one 224, one 247 and one 280 tubes. D.C. models for either 110 or 220 volt operation use three 233 and two 236 tubes. Shpg. wt. 32 lbs.



A.C. MODELS
Cat. No. 3312. List \$30.00

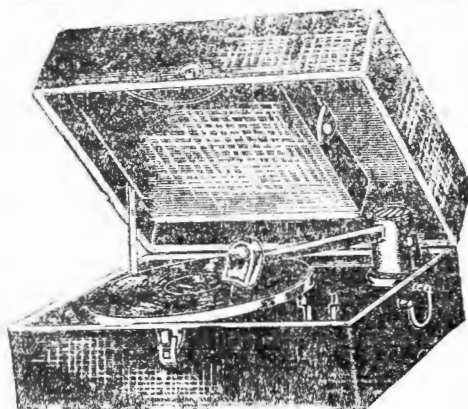
Your Price **\$23.75**

D.C. MODELS
Cat. No. 3313. List \$32.50

Your Price **\$24.50**

Allen-Hough Rotrola with Webster Pickup

A handsome and serviceable combination for reproducing phonograph records with minimum effort and maximum efficiency. Self-contained in a strong, attractive leatherette carrying case with the famous Hough electric motor. The Webster pickup, one of the most popular models, equipped with volume control is responsible for the excellent reproduction of which the outfit is capable. Extreme volume with minimum needle-scratch is made possible by the carefully engineered phono pickup. Two attractive leads emerge from one side of



the case, one connects to the A.C. and the other to the amplifier or radio set by means of the adapter supplied. Comes equipped with record case which is out of way, needle cups, adapter and turn-table which fits any size record. Strong artistic carrying handles. An ideal combination for every use. Shpg. wt. 23 lbs.

Cat. No. 3314. List \$42.50.

Your Price

\$14.75

Radio Surplus Corporation, 54-56 Vesey Street, New York

Midgets in Size-Giants in Performance

THE UNIVERSAL COMPANION



Uses 1-236 and 6-237's

A self-contained portable all-electric receiver with built-in speaker. So versatile that it may be plugged into any A.C. or D.C. socket or operated from a 6-volt storage battery and 135 volts of "B" battery. Single dial tuning utilizing a most modern circuit. One stage of tuned screen grid R.F. using a 236 screen grid, a screen grid power detector, employing a 237, a power output stage using two 237's in push pull. Rectifier is a 237. Plenty of Volume, Selectivity, and Sensitivity. Built in a handsome leatherette traveling case, measuring $11\frac{1}{2} \times 11\frac{1}{2} \times 8\frac{1}{2}$ " and weighing only 14 lbs.

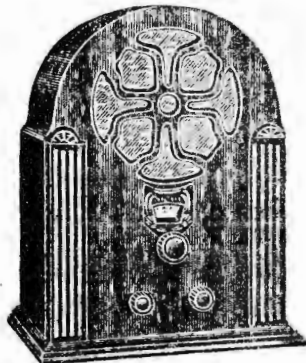
Cat. No. 3676

Your Price

\$23.50

Kit of Tubes, \$8.25

MUSIC MASTER "PETITE"



The Smallest, $17 \times 13 \times 7\frac{1}{2}$ "
The Lightest, $18\frac{1}{2}$ lbs.
Shpg. wt., 23 lbs.

Mighty in Performance

A nationally famous Midget. Strong, compact construction, careful design. Lofting White amplification uses 3-234 screen grid, 1-245 power and 1-280 type tubes. Electrolytic condensers, Jensen or Magnavox speaker, beautiful modernistic walnut veneer cabinet. Find for yourself the unusual value offered in these splendid sets

Cat. No. 3674

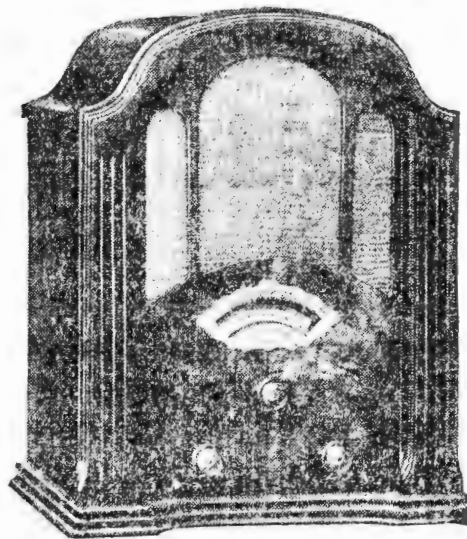
List Price \$49.50, Less tubes

Your Price

\$25.50

Complete With Tubes

AUDIOLA MONARCH



RCA, GE, Westinghouse Licensed Multi-Mu—Pentode

Offering more advanced features in midget receiver design than any other midget on the market today. Three sharply tuned stages using 2-235, 1-224, 1-237, 1-247, and 1-280 tubes. Jensen dynamic speaker, designed for Pentode, Spotlight tuning, smooth volume control, 2 Mershon electrolytic condensers, 8 mfd each. A perfect tone control that does not affect volume. Oversize power transformer, cadmium-plated fully shielded chassis. Housed in a graceful tastefully-finished cabinet of fine woods. Shipped from our Chicago, Ill., factory.

Cat. No. 3646

Your Price

List Price \$79.50

\$45.50

THE ELGIN PENTODE 5-TUBE RECEIVER

A fine, outstanding receiver constructed of well-known standard parts of the highest quality. A handsome adjunct to any home. Cabinet of fine grain selected woods housing a sturdy, compact cadmium plated chassis. Uses 2-235 Variable-Mu, 1-224, 1-247 Power Pentode and 1-280 tubes. Jensen high impedance dynamic to match Pentode tube, Full Vision Dial Local Distance switch, 2 3 mfd Electrolytic condensers, An antenna compensator. Resulting in a powerful, selective, sweet, mellow tone receiver of high merit in a smart cabinet.

Cat. No. 3677

Your Price

List \$49.50

\$29.50

Complete With Tubes

Elgin 7-Tube Pentode Multi-Mu Receivers



A new and different compact radio set featuring a High Gain "Super-Mu" humless circuit, embodying four variable-mu tubes, 1-224 and Pentode output \$80 rectifier, 7 tubes in all.

Every New Feature

1. Four gang condenser.
 2. Hair breath selectivity.
 3. Weird sensitivity.
 4. Full-vision illuminated dial.
 5. Four tuned stages.
 6. Complete shielding.
 7. Three Electrolytic condensers.
 8. Oversize Power Transformer.
 9. Cadmium-plated heavy gauge base.
 10. Powerful Dynamic Speaker.
- Beautiful hand-rubbed walnut cabinet of exclusive design.

Cat. No. 3675

List Price \$59.50, with tubes

Your Price **\$34.95**

110 Volt A.C. or D.C. Model
Complete with Triad-R.C.A. Licensed tubes
Elgin Chassis and Speaker
Only

Cat. No. 3675

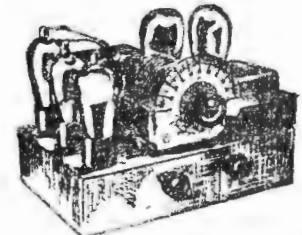
List Price \$49.50

Your Price **\$29.50** Less Tubes

Complete with set of Triad-R.C.A. Licensed tubes

List Price \$59.50 Your Price **\$34.95**

Reliable Pentode Multi-Mu Chassis Triple Screen Grid



All the new features in Radio are part of this receiver. Variable-Mu tubes, Pentode Power tube, two Electrolytic condensers, Full-Vision Dial, Sharply Tuned Stages, Power Detection, Standard Parts. Here is an opportunity to cash in on one of the most wonderful midget of its size and accomplishments ever produced. So designed and constructed as to fit into any style cabinet with little trouble and less effort. A heavy gauge, cadmium-plated chassis is the foundation for this remarkable value. Uses 2-235, 1-224, 1-247, and 1-280

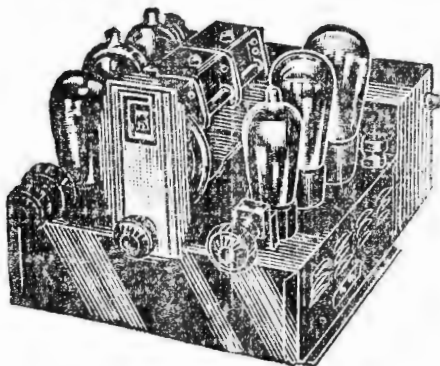
Cat. No. 3678

List \$37.50

Your Price **\$26.75**

Complete With Tubes and Dynamic Speaker

Portables - The Companion - Battery Receivers



National NJ-30 Compact Electric Receiver

A truly remarkable receiver. Small but powerful enough to compete with the larger sets. Made with precision by National. National parts. Compact, measuring only 12 inches long by 10 inches high and 10 inches wide. Modern in design. Equipped with phonograph plug-in jack. Uses three screen grid tubes, one 227, one 245 and one 280 tubes. Can be operated with dynamic or magnetic type reproducer. Superb tonal quality. A special offer. Shipping weight 15 lbs.

Cat. No.
3477

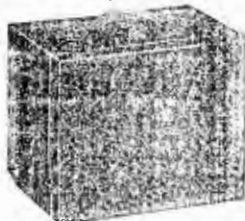
List
\$77.50

YOUR
PRICE **\$28.75**

Portable Radio Receivers

Vagabond Battery-Operated Portable

A single dial portable receiver with remarkable efficiency, tone quality and power. A large purchase enables us to offer this bargain to you.



EQUIPMENT NEEDED

Five UX199 tubes, 2-45 V. "B" batteries (Burgess 5308 or similar), one 4½ volt "C" battery (Burgess 5360 or similar), and 3 dry cell "A" batteries.

Cat. No. 3478

Your
Price **\$22.50**

Less Equipment

TOM THUMB PORTABLES

New Model B Screen Grid For Battery Operation

The use of two screen grid 222 tubes plus the single drum dial and the beautiful lightweight cabinet make up a portable receiver that amazes all who hear its sensitivity, selectivity and clarity. Station after station come in. Real shock-proof construction.

NECESSARY EQUIPMENT

Two UX222 tubes and three UX199 tubes, two Burgess 5308 (or similar) "B" batteries, one 4½ Burgess 5360 (or similar) "C" battery and three dry cells.

Cat. No. 3479

Your
Price **\$26.50**

Less Equipment



Kodel Battery Receivers

ONE-TUBE RECEIVER

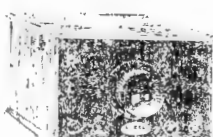


Extremely sensitive, using full 360° tuning condenser; small yet complete in every detail. Shpg. wt. 2 lbs.

Cat. No. 3480

Your
Price **\$3.25**

TWO-TUBE RECEIVER



Single dial control; individual filament control. Very sensitive and can be used to operate a loud speaker on powerful stations. Shpg. wt. 4 lbs.

Cat. No. 3481

Your
Price **\$3.75**

THREE-TUBE RECEIVER



Two dial control. Individual filament control. Will operate a loud speaker. Reflex type circuit gives it greater sensitivity and selectivity. Shpg. wt. 5 lbs.

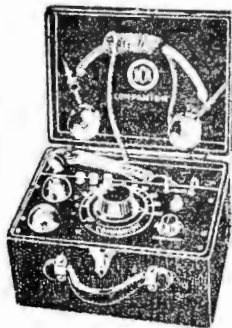
Cat. No. 3482

Your
Price **\$4.25**

EVERYONE'S COMPANION—

All Electric Receiver

For Traveling Men, Hospital Patients and Shut-In Individuals



Wherever there is electric current, this self contained electric receiver is a fit companion for the radio enthusiast. No batteries are required, it being only necessary to plug into the 110 volt light line. The high gain of the receiver permits the use of almost any sort of antenna or ground. Any antenna will be found satisfactory. Single dial control for tuning, another control acting as combined volume and sensitivity control. Uses two 227 type tubes in A.C. model and in D.C. model one 112A is used, insuring quiet operation. Everyone's Companion will furnish head-phone reception that is both pleasant and entertaining. Range comparable to that of the average loud speaker set. Pair head phones included. Shpg. wt. 12 lbs.

Cat. No. 3484. D.C. Model for 110 volts. **\$14.50**
Your Price

Cat. No. 3483. 110 V. 60 cycle **\$14.50**
Your Price

Automatic Radio Shut-off

This is a device which must really be used to be appreciated. When the receiver is lifted off the hook, the shut-off acts and quiets the radio. When you hang the receiver up, the radio is automatically turned on. No need waiting for the tubes to heat. The Shut-Off merely shuts down the speaker and not the radio. The program is on but you do not hear it because it shuts off the speaker. Made in two styles, for desk phones or French phones. Shpg. wt. 3 lbs.



Cat. No. 3947

Your
Price **\$1.56**

Radio Surplus Corporation, 54-56 Vesey Street, New York



ALL TYPES ALWAYS IN STOCK

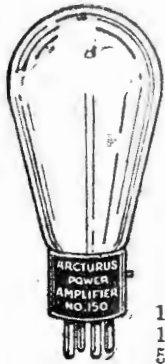
Reliable Guaranteed Tubes

5% Discount on Orders for 50 or More Assorted Tubes

UX201A.....	30c
UX226 UX227 UX245 UX280 UX224	35c
UX171A.....	45c
217 Pentode UX236 UX281, UX237 UX250, UX238 UX210 UX551 Variable Mu.	95c

CV199 UX199 UX120 UX200A UX112A	50c
WD11 WD12 UX230 UX231	65c
UX232.....	75c

GUARANTEE! All Reliable tubes are tested on a Jewell Standard tube tester before shipment. Any tubes found defective will be replaced in 15 days.



ARCTURUS

BLUE A-C LONG LIFE

RADIO TUBES

Arcturus Radio Tubes are noted for long life, and quick heating. Humless reception assured. Put a set in use now!

Deduct 5% discount on orders for 50 or more assorted tubes.

AC Type Tubes

Type	List	Your Price	Type	List	Your Price
127 Detector-Amplifier	\$1.75	\$1.03	PZ Pentode	\$2.40	\$1.41
124 Screen Grid	2.00	1.18	150 Power Amplifier	6.00	3.53
551 Variable Mu	2.70	1.59	180 Full Wave Rectifier	1.40	.83
126 Amplifier	1.45	1.03	181 Half Wave Rectifier	5.00	2.94
145 Power Amplifier	1.40	.83	671A Power Amplifier	2.25	1.33

DC Type Tubes

Type	List	Your Price
099 UX Detector Amplifier	\$2.50	\$1.47
099 UV Detector Amplifier	1.45	1.62
101A Detector Amplifier	1.45	.74
012A Detector Amplifier	2.25	1.33
122 Screen Grid Amplifier	4.50	2.65

15 Volt AC Tubes

Type	List	Your Price
28 Detector	\$4.00	\$2.35
28 Amplifier	3.00	1.77
48 Amplifier	3.00	1.77
30 Power Amplifier	2.00	1.77
40 Power Amplifier	3.00	1.77
32 High Mu.	3.00	1.77
22 Screen Grid	7.50	4.41



Tungar Type Replacement Bulbs

For Tungar or other chargers using similar type.

No.	Type	List	Your Price
1800	6 10 Amp Trickle	\$4.50	\$2.65
1801	2 Amp Pin Contact	4.00	2.35
1801A	2 Amp Base Contact	4.00	2.35
1802	6 Amp	8.00	4.70

Less 5% in lots of 6

R.C.A. UV877 PROTECTIVE TUBE

May be used on set analyzers, continuity tests, circuit tests, limits current drawn from "B" Battery in case of short circuit. Standard double contact automobile light base. In original boxes.

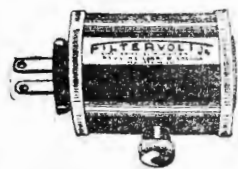
Cat. No. 1969
Your Price **29c**

Television Tube and Photo Electric Cells

A television tube with a UX four prong bakelite base. Striking voltage 100; minimum current, 5 mils, maximum, 80 mils; internal resistance, 1,000 ohms; plate area, 1 1/2 in. sq.

No. 1896. List, \$10.00. Your Price **\$5.88**
No. 1897. Photo-Electric cell, 1 1/4 in. bulb diameter. List, \$20.00. Your Price **\$11.76**
No. 1898. Photo-Electric cell, 3 in. bulb diameter. List \$37.50. Your Price **\$22.05**

FILTERVOLT



Eliminates line noises from vacuum cleaners, sewing machines, electric fans, toasters, etc. Installed by plugging the unit into the wall socket between socket and receiver. Shpg. wt. 1 lb.

Cat. No. 730 List \$3.00
Your Price **\$1.71**

Reliable Voltage Regulator



An air cooled voltage regulator. Prevents line voltage rising above 115 volts as is required for best operation and longest tube life. Ballasting type of resistor. Necessary for every A.C. receiver.

Cat. No. 3281 List \$1.25
Your Price **45c**
Lots of 6, \$2.55

Universal Resistovolt



Prevents tubes from blowing out due to excessive line voltage, lengthens life of tubes and power packs. Heat automatically dissipated. Shpg. wt. 1 lb.

Cat. No. 722 List \$2.00
Your Price **\$1.08**

Guaranteed B-H Type Rectifier Tube



125 mils Replacement tube for all type "B" eliminators using Raytheon or gas filled tubes.

Cat. No. 3280
Your Price **\$1.19**
Lots of 6, \$6.90

Radiotron UX867 Photo Electric Cell



The UX 867 is a highly sensitive gas-filled photo electric cell. Anode supply voltage, 300 volts. Anode current 20 microamperes. Sensitivity is from 25 to 30 micro-

amperes lumen. Standard UX base.
Cat. No. 3279. List \$35.00
Your Price **\$17.50**

Short Wave Receivers, Converters, Parts

Short Wave Coils

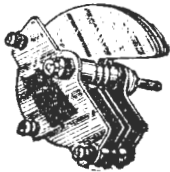


Bakelite moulded UX (4-prong) socket bases. Range of 15-210 meters with a .0001 variable condenser. Shpg. wt. 1 lb.
No. 130. Set of 4 Coils.

List \$3.75
YOUR PRICE \$1.50

Short Wave Condenser

Low loss .0001 mfd. variable tuning condenser. Single hole mount. Modified straight line frequency curve. Recommended for use with the type 130 or 131 short wave coils.



Cat. No. 3089. List \$2.00
YOUR PRICE 85c

Vernier Dial

R. E. L. Type No back-lash, friction movement. Translucent number plate. Easily installed. 4" diameter. Shpg. wt. 1 lb.
No. 178



YOUR PRICE 40c

Centralab Regeneration Controls

C. R. L. regeneration controls allow the detector to slide in and out of oscillation easily and smoothly. Available in 20,000 and 50,000 ohm sizes.



Cat. No. 3090.
List \$2.50

YOUR PRICE 35c

Head Phones



Ideal for the DX and short-wave fan. Unusually sensitive, carefully designed with aluminum shells and genuine moulded ears. Music and voice are reproduced with remarkable fidelity of tone and absolute clarity. Fit very comfortably. 2000 ohms, resist. Shpg. wt. 2 lbs.
No. 912

YOUR PRICE \$1.28

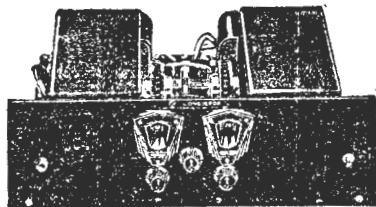
Shielded R. F. Choke

Universal choke for all radio frequency circuits. Mounted in a copper shield can, with tinned terminals for easy soldering.



Cat. No. 3091. List \$1.95
YOUR PRICE 45c

I.C.A. "CONQUEROR" SHORT WAVE 5-TUBE SET



For either AC or DC operation, DC requiring 1-222, 1-201A, 2-112A, 1-171A tubes. NO BOOSTER REQUIRED! USES ONE SCREEN GRID R. F. STAGE plus regenerative detector, leading into THREE FULLY STABLE and CONTROLLED AUDIO STAGES INCLUDING ONE POWER TUBE STAGE. Will work ANY DYNAMIC

OR MAGNETIC SPEAKER! Imagine, 10,000 mile reception possible through a loud speaker! Any novice can tune this highly sensitive receiver with ease.

WAVE LENGTH RANGE

Eight PLUG-IN coils (same type as used on all commercial equipment) are included—cover range of 14 to 157 meters. Additional plug-in coils, covering 140 to 600 meters, are obtainable, permitting use of this receiver on regular BROADCAST wave-lengths, thereby making the "CONQUEROR" truly UNIVERSAL. Battery model requires 180 volts "B," 40 volts "C," 6 volt storage battery. AC model requires special power pack listed below. Shpg. wt., 25 lbs.

No. 1078-17. AC model, less pack and tubes. List \$65.00.
NET \$36.95

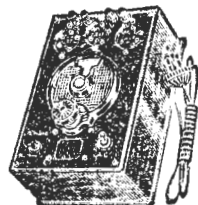
No. 1077-48. BATTERY model, less tubes.
NET \$37.25

No. 1078. I.C.A. AC POWER PACK.
\$18.25

No. 1079. 4 BROAD-CAST PLUG-IN COILS. 104-600 meters.
NET \$9.95

No. 1080. 8 PLUG-IN S.W. COILS. 14 to 175 meters.
NET \$11.25

SUPERHETERODYNE SHORT WAVE CONVERTER



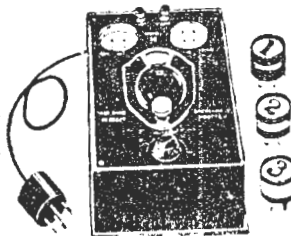
This unit makes a short wave superheterodyne out of any receiver. Uses three 227 tubes and covers from 20 to 115 meters. No plug-in coils. Switch is used to cover all wave lengths. Built-in filament transformer. All that is necessary is to obtain a positive B potential from your receiver of from 45 to 180 volts. This voltage is not critical. Regular receiver is operated as usual when not receiving short wave signals. Shipping weight, 10 lbs.

Cat. No. 3096. List \$25.00

Your Price \$12.95

The Flewelling-Dayton Short Wave Adapter

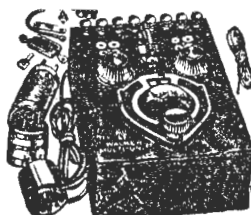
Detector tube is removed from your regular receiver and is placed in the right-hand upper socket of the Adapter. The cable plug of the Adapter is then placed in this empty detector socket of the receiver. No rewiring of your present set. Range 18 to 78 meters. European short wave reception highly possible! Encased in a handsome mahogany wood case. Measures 7 1/2" by 5 1/2" by 3 1/2". Shipping weight 5 lbs.



No. 726. For D.C. Sets.
YOUR PRICE \$4.95

No. 727. For A.C. Sets.
YOUR PRICE \$4.95

George W. Walker Flexi-Unit



The unit of a dozen uses at the price of one. It can be used as a short wave receiver, short wave adapter, regular broadcast receiver radio, "experimental" unit, oscillation, extra stage of R.F., a pre-amplifier, a crystal receiver, and a wave meter, and numerous other uses which will suggest themselves to you. Will use any type of tube, battery or electric. Small in size, measuring 5 1/2" by 8 1/2" by 3". List, \$16.00.
Cat. No. 3048

YOUR PRICE \$9.35

All types Adapters, \$1.39

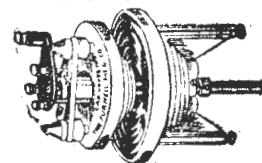
AIR-KING



PRECISION SHORT WAVE PLUG-IN KIT
Squirrel cage type air-space wound coils. Note variable primary. Tuned with a .00014 condenser, covers 15 to 130 meters. Shpg. wt. 2 lbs.

No. 131. COMPLETE SET.
List, \$12.50
YOUR PRICE \$5.10

Furnell 360° Short Wave Condenser

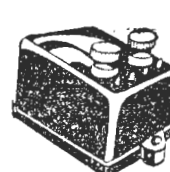


Ideal for short waves. 300° rotation assures wide spread over entire band. Special construction insures low minimum capacity. Pigtail leads give quiet operation. Available in .00015 mfd. or .00035 mfd. capacity.
Cat. No. 3092. .00015 mfd.

YOUR PRICE \$1.25

Cat. No. 3093. .00035 mfd.
YOUR PRICE \$1.15

Short Wave R. F. Choke



Ideal choke for Short Wave receivers. Low distributed capacity. This choke allows the detector to oscillate easily over entire band. No dead spots.

Cat. No. 3094
YOUR PRICE 45c

Remler 360° Drum Dial

This drum dial is ideally suited for use with the Furnell Condensers. Smooth variable operation. Complete with escutcheon plate, lamp and holder.



Cat. No. 3095. List Price \$3.50
YOUR PRICE 95c

Manhattan Reliable Telegraph Key

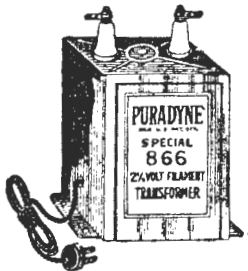


This Standard Telegraph Key is admirably adapted to radio work. Adjustable arm movement with a Western Union type knob insures easy operation. Mounted on a hard wood base and supplied with mounting screws. Shpg. wt., 2 lbs.

Cat. No. 2083
YOUR PRICE 95c

Short Wave Transmitters and Equipment

Filament Transformers



10,000 volt insulation. Mounted in metal case with stand off insulators.

- Type 866. 12 amps at 2 1/2 V. for 2-866's.
 Cat. No. 3232 **YOUR PRICE \$3.50**
 List \$10.50
- Type 872. 30 amps at 5 V. for 2-872's.
 Cat. No. 3233 **YOUR PRICE \$6.00**
 List \$13.50
- Type 250. 6 amps at 7 1/2 V. for 2-250's.
 281's, 210's.
 Cat. No. 3234 **YOUR PRICE \$3.50**
 List \$10.50
- Type 832. 7 1/2 amps at 10 V. for 203A's.
 Cat. No. 3235 **YOUR PRICE \$4.00**
 List \$12.00
- Type 2250. 2 7/8 amp. windings C.T. at 4
 amps each.
 Cat. No. 3236 **YOUR PRICE \$4.00**
 List \$12.00

Puradyne Power Transformer



Metal cased, equipped with stand-off insulators. Type PF-50 delivers 3000 volt high secondary at 300 m. a. This winding is center tapped. Rated at 500 watts.

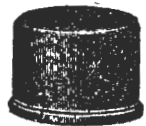
Cat. No. 3237
 List \$35.00

Your Price \$16.00

TYPE PF-250 delivers 1300 volt high secondary. This winding is center tapped. Also has 2 7/8 volt winding. Rated 200 watts.
 Cat. No. 3238. List \$12.00

Your Price \$4.50

High Frequency Buzzer



This type buzzer is the same as used on our wireless practice set. It is adjustable. Has standard resistance of 2 ohms. Black crystallized lacquer finish. Shipping weight 8 ozs.

No. 380-R. List \$1.25

Your Price 75c

Puradyne Plate Blocking Condenser



Rated at 6000 volts. Equipped with stand-off insulators.

Cat. No. 3239. .002 mfd.

Your Price 95c

Cat. No. 3240. .006 mfd.

Your Price 95c

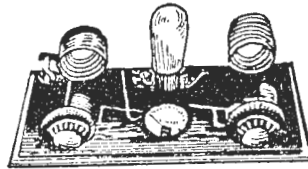
Ohmite Transmitting Grid Leaks



Unmounted, high current rating. Wattage capacity 30 watts. Available in 5000, 10,000, 11,000 and 16,000 and 17,000 ohms.
 Cat. No. 3246

Your Price 75c

Tuned Grid, Tuned Plate Circuit Transmitter



This transmitter employs a UX-210 Tube as Oscillator. The Output with normal plate voltage is 8 to 10 watts. Transmitters of this type are in common use amongst numerous amateurs and many of them have been heard around the world. This Unit can be used in conjunction with additional equipment for Radio Telephone Work. It is completely wired and tested and ready to hook up to antenna and power supply. Coils for 40 meters (the most common C.W. band) are supplied. A plate milliammeter of 0 to 200 is also included. The Power Unit uses 2 281 Tubes in the rectifier. Supplies 550 Volts D.C. and filament current for the 210 and 281 tube.

Complete with power unit ready to operate but less tubes.

Cat. No. 3258. List \$150.00

Your Price \$77.35

Ferranti 3-Stage, 250 Push Pull Power Amplifier



Ferranti amplifiers are supreme in their realism of reproduction. The input stage is a 227 which operates into 226 push-pull which feeds into 250 push-pull. Full wave rectification is obtained by use of 2-281's. Output and input leads are shielded. Wiring in the amplifier is in lead cable wherever necessary. The amplifier is portable, measuring 24"x12"x8 1/2", and is equipped with a full range gain control. The entire amplifier is in a metal case with only the tube sockets showing. The undistorted output is 18 watts. Input is for pickup or radio use. Microphone input at slight extra cost.

CAT. NO. 3241. LIST PRICE \$150.00

Your Price \$80.00

Ferranti Amplifier with Microphone Input

CAT. NO. 3242. LIST PRICE \$525.00

Your Price \$94.85

Limited Quantity! Order Now!

Puradyne 1000-Volt Condenser Block

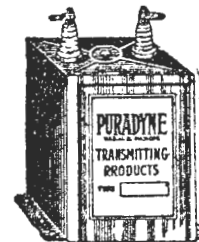


Ideal for all 250 push-pull packs and amplifiers. Has 4, 4, 4, 2 mfd. sections, all 1000 volt working.

Cat. No. 3245
 List Price \$13.50

Your Price \$5.00

Transmitting Condensers



Encased in neat metal cans with stand-off insulators. All condensers rated at continuous working voltage.

Cat. No. 3247

Capacity 1000 Volts 1500 Volts 2000 Volts

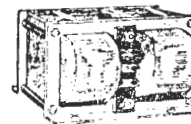
1 mfd...	\$1.40	\$2.25	\$3.50
2 mfd...	\$2.40	\$3.25	\$5.50
3 mfd...	\$2.90	\$3.75	\$6.75
4 mfd...	\$3.75	\$5.75	\$9.50

Transmitting Chokes

Stand off insulators. Insulated for 8000 volts 20 henry, 110 ohms D.C. resistance, 250 mil.

Your Price \$4.00

General Electric Double Filter Chokes



D.C. resistance 500 ohms per choke. 50 henry at 80 milliamperes. Made by General Electric.

Cat. No. 3255

Unshielded

Your Price \$1.95

Cat. No. 3256. Shielded

Your Price \$2.25

150-Watt Transmitting Socket

Heavy construction. Substantial contacts.

Cat. No. 3257. List \$3.25

Your Price \$1.75



Puradyne Transmitting Grid Leaks



200 watt, center tapped. Metal cased with stand off insulators.

Cat. No. 3249. 5,000... **Your Price \$1.75**

3250 10,000... **\$2.25**

3251 15,000... **\$2.50**

3252 20,000... **\$2.75**

3253 30,000... **\$3.00**

3254 50,000... **\$4.00**

PURADYNE 866's, 872's



Guaranteed Half Wave mercury vapor rectifier tubes. Used in most amateur and low power broadcast stations.

866. Half Wave Mercury Vapor Rectifier. Max. peak inverse volts 5000; max. peak plate current .6 ampere. Tube voltage drop 15. Filament terminal voltage 2.5 volts at 5 amperes. Cat. No. 3243

YOUR PRICE \$6.00

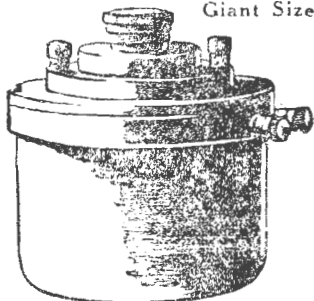
872. Max. Peak Inverse Volts 5000. max. peak plate current 2.5 amperes. Tube voltage drop 15. Filament terminal voltage 5 volts at 10 amperes.

Cat. No. 3244
YOUR PRICE \$6.00

PUBLIC ADDRESS SYSTEMS and ACCESSORIES

DYNAMIC HORN UNITS

Giant Size



This unit is capable of handling any 100-watt horn of 10 to 30 ft. diameter. It is mounted on a 19 in. L.I. amp of 6 volts D.C. This may be replaced with a storage battery of equal capacity listed on this page. Volume control potentiometer is 10 ohms in impedance. Measures 5 1/2" x 5 1/2" x 5 1/2" and weighs 17 lbs.

Cat. No. 3191. List Price \$120.00
YOUR PRICE **\$52.50**

OUTPUT TRANSFORMERS

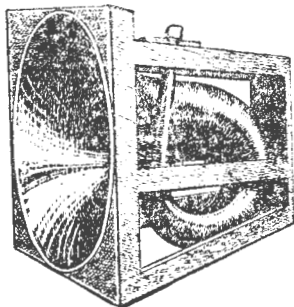
Design for use with horn units. Rated for 250 amp hrs. Shipping weight, 4 lbs.

Cat. No. 3195. List \$22.50
YOUR PRICE **\$9.75**

Output transformer for 100, 175, 210, and 245 Amp hrs.

Cat. No. 2196. List \$15.00
YOUR PRICE **\$5.95**

EXPONENTIAL HORN For Outdoor and Indoor Use



Gives perfect frequency response. Self supporting. Measures 34" x 36" x 36". 32" diameter. Round bell permits even distribution of sound. Complete with frame work. We recommend the Giant unit described above for use with this unit.

Cat. No. 3197. List \$80.00
YOUR PRICE **\$39.50**

Waterproof and Heatproof Model for Outdoor Use

Cat. No. 3198. List \$100.00
YOUR PRICE **\$47.50**

REFLEX HORN

Newest type of exponential horn. Suitable for any unit. Last word in acoustical air columns. Saves space as overall size is 16" x 13" x 17".

Cat. No. 3199. List Price \$10.00
YOUR PRICE **\$22.50**

Heat and Waterproof for Outdoor Use

Cat. No. 3500. List Price \$50.00
YOUR PRICE **\$27.95**

TRUMPETS

For all public address work. They use an exhaustible 2 1/2 foot trumpet. Length 42". Bell 22".

Cat. No. List YOUR PRICE

3501 \$20.00 **\$10.25**
Heat and Waterproof Model for Outdoor Use

3502 \$25.00 **\$12.95**
60" Exponential Trumpet, Bell 18 3/4"

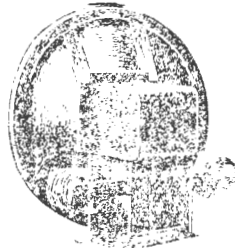
3503 \$50.00 **\$22.50**
Heat and Waterproof Model for Outdoor Use

3504 \$62.00 **\$33.75**



Dynamic Cone Speakers for Public Address Systems

The ideal speaker for public address work. Faithful reproduction is assured particularly when used with the baffles described below. Large size have 10 cones. Small size have 6 cones. Each cone has 110 V.A.C. input impedance. Input transformer for 110-115 volt. 60 cycle A.C. line. Output transformer for 100-250 ohms. Input transformer for 100-250 ohms. Filter capacitor 2 u.f. 50 v. Filter resistor 2 u.f. 50 v.



Cat. No.	Model	List Price	YOUR PRICE
3505	10" 110 V. A.C.	\$35.00	\$21.00
3506	6" 110 V. A.C.	\$22.50	\$13.95
3507	10" D.C.	\$22.50	\$14.95
3508	6" D.C.	\$15.00	\$7.95

Exciter for Horn Units

For use with all horn units or any 6 volt D.C. dynamic. Operates from 110-115 volt. 60 cycle A.C. line. Will supply from one to three units. Special type rectifier and filter insures a quiet hum-free supply. Shpg. wt., 10 lbs.

Cat. No. 3512. List \$30.00
YOUR PRICE **\$16.95**



Microphone Accessories Cable and Springs

Microphone Suspension Springs. Non-rusting and stainless. Supplied in sets of 3 springs only.

Cat. No. 3513. List 75c
YOUR PRICE **35c**

Per Set of 3 Springs

Shielded Microphone Cable Three Conductor

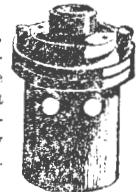
YOUR PRICE PER FOOT **9c**

Heat and Waterproof Model for Outdoor Use

YOUR PRICE PER FOOT **7c**

Dynamic Horn Units Intermediate Size

Designed for use with exciter, transformer, and filter. Various installations may be used outdoors. The dynamic horn is the heart of the unit and is easily replaceable. (Patented feature found only in this model.) Shpg. wt., 15 lbs.



Intermediate Dynamic Horn Unit. Heat and Waterproof Model for Outdoor Use. Will handle any 100-watt horn of 10 to 20 ft. diameter.

Cat. No. 3514. List Price \$50.00
YOUR PRICE **\$27.50**

Junior Dynamic Horn Unit

Designed for use with exciter, transformer, and filter. Will handle any 100-watt horn of 10 to 20 ft. diameter.

Cat. No. 3515. List Price \$25.00
YOUR PRICE **\$19.75**

Exponential Horns



Ten-foot Giant Square Exponential Horn. Bell size 42" x 42". Overall 50" x 50" x 50". Price includes Frame Work.

Cat. No. 3516. List \$125.00
YOUR PRICE **\$67.50**

Heat and Waterproof Model for Outdoor Use

Cat. No. 3517. List \$153.00
YOUR PRICE **\$78.50**

CURVED TRUMPET

Curved trumpets are recommended for use where space is limited. They give faithful reproduction of all frequencies. Five foot curved trumpet. Bell measures 22". Shipping weight, 5 lbs.



Cat. No. 3518. List \$35.00
YOUR PRICE **\$17.95**

Heat and Waterproof Model for Outdoor Use
Cat. No. 3519. List \$48.00
YOUR PRICE **\$23.75**

Two-Way Horn Adapter

Makes it possible to use two units with one exciter. Increases sound without requiring additional exciter. Shipping weight, 1 lb.

Cat. No. 3520. List \$17.50

YOUR PRICE **\$9.75**



Acoustical Baffles for Cone Speakers

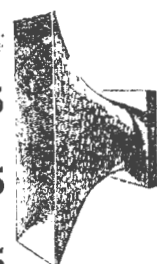
Will change the tone of a speaker to exponential quality. Square baffles are 10" x 10" x 10". Round baffles are 10" x 10" x 10". Cone opening 7" or 10".

Cat. No. List YOUR PRICE

3509 \$12.00 **\$6.95**
Square Baffle with Round Bell
Bell 22". Length 12". Cone opening 7" or 10"

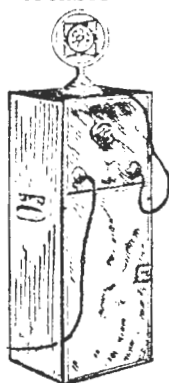
3510 \$15.00 **\$8.65**
Square Baffle with Round Bell
Bell 32". Length 25". Cone opening 7" or 10"

8511 \$ 3.00 **\$16.95**



Microphone and Public Address Systems and Equipment

Portable Address System



For use in autos, trucks, motorboats, airplanes, halls or wherever compactness is a factor. Uses two 245's and two 201's. Batteries used are six heavy duty "B" batteries and three 22½ volt "C" batteries. The panel is equipped with all necessary controls. Measures 31" x 14" x 14". The microphone can be placed in the battery compartment, when not in use.

List \$145.00
Less Accessories

Cat. No. 3116

Your Price **\$95.00**

Junior Portable Public Address System

For use where extreme volume is not a necessity.

List \$60.00
Less Accessories

Cat. No. 3117

Your Price **\$45.00**

Adjustable Floor Stand

For Two Microphones

Extends from 45" to 72". Modernistic. Finished in satin silver. This is the regular studio type stand. Shpg. wt. 20 lbs.

Cat. No. 3118
List Price, \$40.50

Your Price **\$22.95**

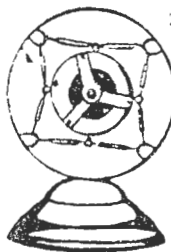


Desk Stand

Base diameter is 5", with a 6-inch ring. Stands 9 inches high and is finished in highly polished nickel.

Cat. No. 3131
List \$7.50

Your Price **\$5.75**



Single Button Hand Microphone

Suitable for use in airplane broadcasting or home broadcasting. Made with the same precision as the other microphones listed here.

Cat. No. 3122
List with switch \$30.00

Your Price **\$17.75**

Cat. No. 3133
List without switch \$25.00

Your Price **\$14.50**



In addition to the equipment listed here, we can meet any requirements for special apparatus. We can supply racks and panels with or without control equipment for any purpose. Write us for prices giving all specifications for talkie equipment, double channel amplifiers, remote control for amplifiers, etc. We also can supply C. W. code transmitters, airplane transmitters, crystal controlled transmitters, oscillating crystals with thermostatic heat control and ground to any specified frequency. We can furnish Ultra Short Wave Oscillators for special Physiological Research Work. These can be supplied in two models. The first has a range of from 1 to 5 meters with 20 watt output. The other is for general physicians and hospital use and operates at 5 meters with 150 watt output. Write for prices, giving all specifications.

RELIABLE RECORDER HEAD

Enables you to make records of anything you would like to hear over the radio or direct recording. Can be used with any amplifier and microphone. Complete with instructions but less microphone. We recommend the Amplion Hand Mike.

Cat. No. 3278
List \$33.50

Your Price **\$16.95**



Two-Button Microphone

CARBON TYPE

Special alloy diaphragm of the stretched type enables this microphone to reproduce all frequencies between 30 and 7,500 cycles with practically flat amplification over this range. The buttons are carefully matched and balanced. Operates on 8 to 15 mills per button. 100 ohms resistance per button. Shpg. wt. 5 lbs.

Cat. No. 3119
List Price, \$50.00

Your Price **\$28.50**



Single Button Microphone

Resistance, 100 ohms. Requires up to 6 volts at 8-10 mills for operation. Special alloy diaphragm and unique construction of this microphone is responsible for its performance from 50 to 3,500 cycles with excellent volume. Shpg. wt. 2 lbs.

Cat. No. 3122
List Price, \$15.00

Your Price **\$8.25**

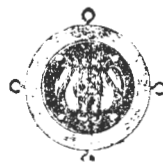


Broadcast Concert Model Two-Button Microphone

The leader of these microphones. Standard broadcast model. Extra fine carbon polished special granules used. Uniform frequency response from 30 to 8,500 cycles. An instrument of highest precision within .001 of an inch in accuracy. Finished in combination satin silver, gunmetal or gold. Uses 5 to 8 mills at 3 volts, 8-15 mills at 6 volts. Balanced most accurately on both sides. Shpg. wt. 5 lbs.

Cat. No. 3120
List Price, \$75.00

Your Price **\$42.50**

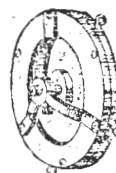


Two-Button Microphone

Special alloy stretched diaphragm. Unique assembly and high quality of materials used enables this microphone to reproduce exactly all frequencies between 50 and 5,000 cycles. Shpg. wt. 4 lbs.

Cat. No. 3123
List Price, \$25.00

Your Price **\$13.95**



Microphone Desk Stand

Modernistic type finished in satin silver. 10" high, 8" base, 6" ring with suspension hooks. Shpg. wt., 8 lbs.

Cat. No. 3125
List Price, \$15.00

Your Price **\$7.95**

Amplion Transverse Current Microphone



Type HM

An ideal microphone to use for making records, home broadcasting, etc. The patented construction makes it possible to pass up to 60 mills through the microphone. Amplion microphones contain no metal diaphragm, no metal levers, or moving parts. Carbon hiss is entirely eliminated and they cannot pack.

Cat. No. 3121
List Price, \$15.00

Your Price **\$5.75**

Adjustable Floor Stand

Modernistic finish of satin silver; extends from 45" to 72". Base is 16" square. Shpg. wt., 18 lbs.

Cat. No. 3124

List Price, \$30.00

Your Price **\$15.65**



Microphone Suspension Ring

6" inside diameter by 5/8". Four microphone suspension hooks with two outside suspension hooks. Satin silver finish. Shpg. wt., 2 lbs.

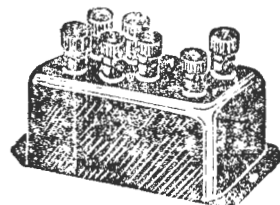
List Price, \$7.50

Cat. No. 3127

Your Price **\$3.75**



Variable Input Microphone Transformer



Two input transformers in one case. Will match any standard one or two-button type microphone. Tapped for 100 and 200 ohms.

Cat. No. 3128
List Price, \$15.00

Your Price **\$7.95**

Single button microphone transformer

Cat. No. 3129
List Price, \$7.50

Your Price **\$2.95**

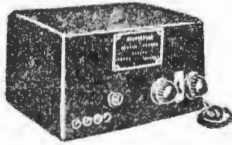
Double button microphone transformer

Cat. No. 3130
List Price, \$11.50

Your Price **\$3.95**

Amplifiers, Power Packs, Eliminators, Television, Amplifiers

Microphone Pre Amplifier A. C. Operated



Absolutely new. The first all A.C. electric operated microphone pre-amplifier. Absolutely self contained. Uses 2-227 tubes, one as a rectifier and the other as the audio amplifier stage. Suitable for microphone or phonograph pickup pre-amplification. Ideal for use with sets which have only one audio stage, and are normally incapable of operating with a phonograph pickup. All batteries are eliminated excepting the microphone battery. A smooth gain control and input matching transformer are built into units of the amplifier.

Cat. No. 3300 List Price \$25.00
Your Price **\$22.50** Tubes

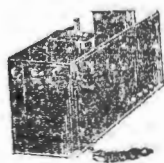
Reliable Audio Oscillator



Audio oscillators of the better type have up till now been offered only at very high prices. We now offer through a special arrangement with a manufacturing laboratory an improved oscillator at a very low figure. Numerous tests and measurements can be made with the use of the audio oscillator. Useful for testing fidelity of audio circuits, gain and frequency response of amplifiers. Used as an audio source of capacity, resistance, and all high frequency measurements. Uses one tube of any general purpose type as a 201A, 199, 230, etc., and from 45 to 90 volts of "B" battery.

Cat. No. 3299 List Price \$12.00
Your Price **\$5.50**
Leads tube and batteries

ACME "B" & "C" ELIMINATOR



Supplies pure filtered hum free current. Has C minus 40 V. B. minus, B plus 45, 90, 180. Will operate a nine-tube set using 171's in push-pull. Uses 280 full wave rectifier. Shpg. wt., 20 lbs.

Cat. No. 3286 List Price, \$35.00
Your Price **\$6.65**

PENTODE ADAPTER



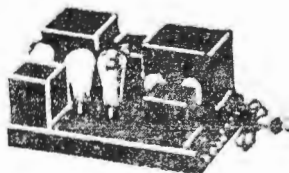
The Pentode, the new power output tube, can now be used in place of the 245 by use of the Adapter. No rewiring necessary. Just plug the Adapter into the 245 socket and the Pentode tube into the adapter to get the full benefit of the pentode tube. Gives greater volume and more power.

Cat. No. 3285 List Price, \$2.50
Your Price **\$1.20**

AMPLIFIERS Designed and Built

To order or specifications. We are specialists in this field and can build or design amplifiers for any use. We can supply panel jobs, rack units up to any capacity and for any purpose. Specialists in the design of special amplifier equipment for mobile advertising purposes, and airplane use. All amplifiers constructed by us to specifications carry a full guarantee. In order to enable us to give correct quotation, we must have all necessary details. Our amplifier experts will be glad to aid you in every way in solving your amplifier problems. All inquiries should be addressed to "Public Address System Department."

Three-Stage Webster R-250 Amplifier



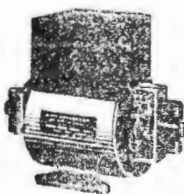
is a three-stage resistance coupled Amplifier. The first two stages are 226 tubes. The output stage is a 250 tube. Two 281's are used as a full wave Rectifier. This amplifier gives the clarity and frequency response possible only with a resistance coupled amplifier. Operates from one to five A. C. Dynamic

Speakers. Has microphone input, and a two-button microphone having an impedance of 200 ohms per button is recommended. Any standard pick-up or Radio Tuner can be used. Shpg. wt. 37 lbs.

Cat. No. 2051 List Price, \$110

Your Price **\$29.50**

KATO KONVERTERS



Kato converters are designed to allow operation of standard A. C. receivers from the 110 or 32 volt D. C. supply. Each unit comes complete with a filter system which successfully eliminates all interference which may originate at the converter. Machines are quiet running in every respect, and the bearings are of the self-oiling type requiring only occasional attention. For special models not listed, write, giving full specifications.

110-Volt D.C. to 110-Volt A.C.

Output 117 watts, R. P. M. 3,600. Cat. No. 3287

Your Price **\$37.50**

Output 850 watts, R. P. M. 3,600. Cat. No. 3288

Your Price **\$75.00**

Output 157 watts, R. P. M. 3,600. Cat. No. 3289

Your Price **\$56.00**

(Add 35c extra for conduit fittings)

32-Volt D.C. to 110-Volt A.C.

Output 117 watts, R. P. M. 3,600. Cat. No. 3290

Your Price **\$37.50**

Output 157 watts, R. P. M. 3,600. Cat. No. 3291

Your Price **\$52.50**

Output 850 watts, R. P. M. 3,600. Cat. No. 3293

Your Price **\$79.00**

Output 90 watts, R. P. M. 1,800. Cat. No. 3294

Your Price **\$42.00**

Reliable Supply Field Unit for D. C. Speakers



This unit will supply pure, humless, perfectly filtered field current for any high resistance D.C. field speaker requiring anywhere from 100 to 170 volts for energization. Uses two 280 tubes and supplies 170 volts of pure hum-free current at 110 milliamperes. Self contained in a black metal crystalline finished box.

Cat. No. 3297 List Price \$12.00

Your Price **\$5.50** Tubes

WESTINGHOUSE REXTOX ONE-AMP. TRICKLE CHARGER



Nationally known charger famous for its long life, careful construction and reliability. Used for trickle charging batteries. Variable charging rate 1/2 to 1 amp. Can also be used to excite 6 volt D. C. dynamic

speakers. Manufacturers' type. Rating A. C. 115 volt, 60 cycle; D. C. output, 6 volts, 1 amp.

Cat. No. 3295 List Price, \$12.50

Your Price **\$3.95**

BRACH CONTROLIT



Connected with the trickle charger and B. eliminator, makes the set completely light socket operated. Set switch controls everything. The Brach Controlit automatically turns "B" eliminator and

trickle charger on and off.

Cat. No. 3298 List Price, \$2.75

Your Price **60c**

TELEVISION AMPLIFIER



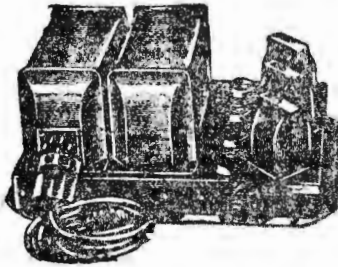
This is a four-stage resistance coupled amplifier specially designed for television. Comes complete with all coupling condensers and resistors but less tubes. Gives a clear, undistorted picture.

Cat. No. 3294 List Price, \$17.50

Your Price **\$10.25**

Reliable Custom-Built Amplifiers, Eliminators

SAMSON PUSH-PULL 210 AMPLIFIER



The famous Samson Pam Amplifier. Uses 210 push pull with a 226 first stage audio. A 281 is used as rectifier. Equipped with the Samson variable line voltage plug. Employs Samson Audio Transformers, famous for their quality. Supplies its own A.B.C. power. Input designed for use with tuner, phonograph or can be adapted to microphone pickup. Will operate two dynamic speakers or 8 magnetic speakers. Each amplifier comes complete with fuse, 6 ft. high, quality rubber covered cable, attachment plug and the exclusive Samson line voltage compensating plug. This plug

permits the operation of this amplifier on line voltages carrying from 100 volts to 130 volts. The amplifier is rigidly constructed, is designed to give long service, high quality of reproduction and a minimum of trouble. Never before have Samson "Pams" been offered at these prices.

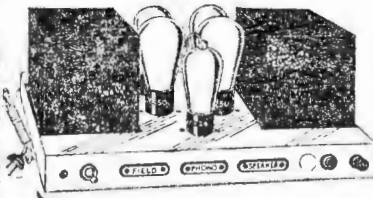
QUANTITY LIMITED

Cat. No. 3585 List \$187.50

Your Price **\$25.75**

RELIABLE DOUBLE PENTODE DUO SCREEN GRID AMPLIFIER

The very latest in direct coupled amplifiers. Uses two 224's in push pull for input stage and two 247's in push pull in the output. This amplifier can be used with any tuner, a phonograph pick-up, or microphone. Has the highest amplification of any amplifier yet designed. The gain is 86 D.B. at 1000 cycles. Has a very flat amplification curve. Equal amplification of both high and low notes. The output is 8.6 watts. Will drive up to 4 dynamics or 20 magnetic speakers.

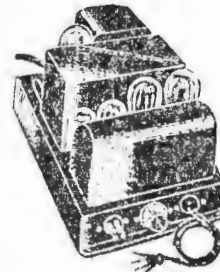


Cat. No. 3570. List \$65.00

Your Price **\$37.50**

Webster 3-Stage Push-Pull Power Amplifier

With Supply for Field of Speaker



Designed for use with any radio tuner or phonograph. Uses 2-226 tubes followed by push pull 210. A 281 is used for rectification. Furnishes up to 300 volts at 40 M.A. of pure unfiltered supply for the speaker. Input is designed for standard pickup or output of radio tuner. The output is sufficient to drive 3 dynamic speakers. Output is direct to voice coil of dynamic speakers. This amplifier supplies pure "B" supply to any D.C. dynamic speaker. The ideal unit to use in reconverting a battery set to all electric operation.

Cat. No. 3578 List \$75.00

Your Price **\$29.50**

Sterling 180-Volt B Eliminator Type R-81



Operates 3- to 8-tube sets including sets using 171A power tubes. Supplies B plus 45, 67, 90, 135, 180. All voltages are variable from zero to maximum value, giving perfect power regulation. For this reason it is the ideal power unit for television work. Uses a BI Raytheon rectifier. Operates from 110-120 volt, 60 cycle A.C. power.

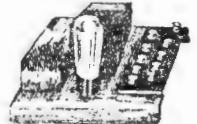
Cat. No. 3572 List \$28.50

Your Price **\$6.95** Less Tubes

B. H. Tube for Above Eliminator, \$1.10

Universal Power Packs

These packs will enable you to convert your battery sets at a minimum cost. This complete unit furnishes filament plate, and grid voltages for all tubes. All connections brought out to a convenient terminal strip. Requires 1-280 tube.



Model 71. Supplies power for 4 to 5-226 tubes, 1-227, and 1-171A. Cat. No. 3574.

YOUR PRICE **\$5.75**

Model 215. Supplies power for 4 to 5-227's or 224's, 2-245's.

YOUR PRICE **\$8.95**

Cat. No. 3576

Model PZ17. Supplies power for 4 to 5 227's or 224's, and for 2-247 pentode tubes.

YOUR PRICE **\$9.25**

Cat. No. 3575

Two leads are brought out to supply dynamic speaker field.

Puradyne Line Noise Filter



Suppresses disturbing noises caused by various motor and electrical devices. Installed in a moment. Use at source of interference or at receiver. For all electric sets.

Cat. No. 8577 List \$5.00

Your Price **\$2.70**

Reliable "A" Condenser

2000 mfd unit for use in any circuits not exceeding 12 volts D.C. Used in "A" eliminators or speakers to eliminate hum. Replacement for Elkon condensers.



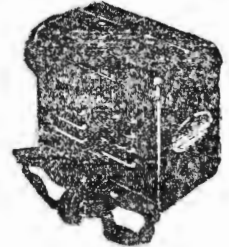
YOUR PRICE

Cat. No. 3578 **\$1.85**

Filtervolt Line Noise Filter

Heavy Duty Model

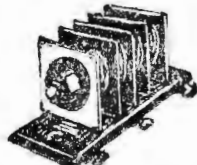
Heavy chokes, resistors and condensers are arranged in a special designed filter circuit to suppress and smooth out line surges and smooth out current so that noise free power is delivered to the receiver. For all electrical power operated sets.



Cat. No. 8579 List \$15.00

Your Price **\$7.95**

New Type XB-16 Elkon Dry Disc Rectifier REPLACEMENT FOR



This Elkon rectifier is standard on the following "A" eliminators: Majestic, Marolhan, Webster, Elkon, Bernard, Fada, Knapp, Sentinel, Metro, General Instrument.

Philco. (Elkon equipped) and on the Elkon 3 amp chargers and Briggs and Stratford chargers. New type Elkon with base.

Cat. No. 3580 List \$7.50
Your Price **\$4.25**

Replacement Jars for Philco and Balkite Eliminators

Guaranteed to give perfect service in units designed for their use.



TYPE B. For "B" Eliminators. Set of Four. Cat. No. 3581

YOUR PRICE **\$1.96**

TYPE A. Round Jar for 4-volt "A" Eliminators. Cat. No. 3582

YOUR PRICE **\$1.47**

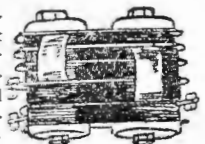
TYPE AA. Square Jar for 6-volt "A" Eliminators. Cat. No. 3583

YOUR PRICE **\$1.96**



Westinghouse Rectox Unit

Genuine Westinghouse Rectox unit Used for speakers, trickle chargers and eliminators. Input 8 to 15 volts A.C. Output 6 volts D.C. at 1 ampere. Two can be paralleled for greater output

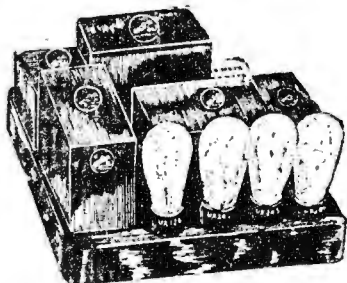


Cat. No. 8584 List \$5.50
Your Price **\$2.25**

Power Amplifiers—Loftin—White Type—Pentode Amplifiers

R. C. A. Victor 2 Stage Push Pull Amplifier

A product of R. C. A.-Victor, this amplifier is the same as used in Victor models R-32, R-42, RE-45, and RE-75. Uses a 226 in the first audio stage, with 245 in push-pull in the output. Provided with phonograph pickup transformer, hum adjuster and tone control. The amplifier in addition to supplying its own A, B, C, voltages, also supplies $1\frac{1}{2}$ and $2\frac{1}{2}$ volts for the filaments of the tuner and B voltages for the detector and R.F. tubes. Also supplies field supply for any D.C. dynamic. The output is designed to operate into the voice coil of the dynamic speaker. This is just the amplifier around which to



The R.C.A.-Victor Amplifier uses 1-226, 2-245, and 1-280 tubes.

build a new receiver or to use for phonograph or P. A. work. Shipping weight, 17 lbs.

Cat. No. 3521
YOUR PRICE

\$7.25

SPECIAL! Famous R.C.A.-Victor Speaker

Matched for use with above amplifier. Your Price.... **\$2.35**

Kolster 245 Push-Pull Amplifier and Matched Dynamic Speaker



Furnishes field supply for D. C. speaker.

Cat. No. 3533

Matched Dynamic Speaker

Matched speaker specially designed to operate with above amplifier. Has a free suspension type moving coil giving it great sensitivity. Can handle tremendous volume. Field is energized direct from Kolster Amplifier. Complete with output transformer. Shipping weight, 4 lbs.

Cat. No. 3522

When Sold With Above Amplifier
Speaker Separately, \$5.95

The ideal amplifier for radio, phonograph, public address systems, and small auditoriums. Reproduces with marvelous tone fidelity. Uses a 227 in the first stage, followed by push-pull 245. Undistorted output is 4.8 watts. Oversize power pack assures long continued service without power pack failure. Shipping weight, 12 lbs.

Your Price **\$15.00**

Your Price **\$4.95**

Acme Single Stage Power Amplifier A Power Amplifier for Any Set

No matter what set you have, its volume can be made greater and its quality better just by adding on Acme Power Amplifier with a power tube (171-A or 871-A). The amplifier consists of a stage of resistance coupled amplification with impedance leak, automatic "C" supply and a transformer to supply the power tube. All you have to do is connect the amplifier to the set, and your B supply, connect your speaker and you get radio as you have never yet heard it. Shipping weight, 5 lbs.

Cat. No. 8524. List \$12.50



Your Price **\$2.95**

PENTODE AMPLIFIER

Loftin-White Licensed



Utilizing the new Pentode tube, these amplifiers give greater volume and better tone than the 245 amplifier. Uses 1-224, 1-247 and a 280. Input is direct to grid and cathode of 224. Output is direct from plate of 247. Undistorted output is 6.5 watts. Shipping weight, 12 lbs.

Cat. No. 3260. List \$37.50

Your Price **\$17.95**

Loftin-White Amplifiers LICENSED

Direct coupled Amplifiers of the latest design, these embody all features that will be asked for. A phonograph pickup tuner or microphone can be connected directly into the input without loss of energy. Model 250 uses 1-224, 1-250, and a 281. Input direct to 224 control grid. Output direct from 250 plate. Output 7.9 watts. Shipping weight, 12 lbs.

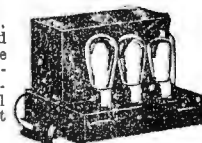
Cat. No. 8263

Your Price **\$22.00**

Model 245 uses 1-224, 1-245 and a 280. Input direct to 224 control grid. Output direct from 245 plate. Output 4.8 watts. Shipping weight, 12 lbs.

Cat. No. 8264

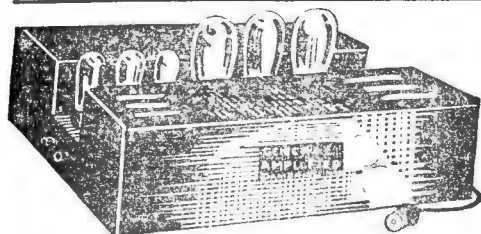
Your Price **\$13.95**



Three Stage Power Amplifier

250 Push-Pull

A Product of General Amplifier Corp.
of Cambridge, Mass.



The ideal amplifier for Public Address systems. Uses a 227 first stage operating into 226 push-pull. Output stage is 250 push-pull. Two 281's are used in a full wave rectifying circuit. A line switch and a low-high voltage control switch to compensate for variations in line voltage is built in. The input circuit is adaptable for microphone, phonograph, or radio. The output will feed from 2 to 5 dynamic speakers. All parts are enclosed in a black finished metal case, with ample provision for ventilation. The amplifier is complete, supplying its own A, B, C, power. Ample oversize transformer and condenser bank. All parts are heavy duty. Will give long, satisfactory service. A typical General Amplifier product and one of the finest amplifiers ever offered at any price. Shipping weight 30 lbs.

Cat. No. 3525. List \$145.00

YOUR PRICE

\$29.75

NEWEST TELEVISION APPARATUS

RELIABLE TELEVISOR

With Television making such vast strides, it will only be a short time before Television equipment and receivers will be sought after and much in demand. Likewise, those who know Television and its apparatus will be much in demand. With this in mind, our engineering staff, after long months of experimentation and trial, have constructed a Televisor of remarkable and praiseworthy efficiency. All parts and materials of which the Televisor is constructed have been carefully designed and are of the highest grade.

Special Newly Developed Motor

The Reliable Televisor is equipped with a Synchronous and Eddy Current Motor procuring steady and constant rotation of the 60-hole Scanning Disc, so essential in the reception of Television signals and pictures. A speed control enables the operator to compensate for the slight voltage variations in different localities.

Special Filter

To filter out injurious line disturbances a highly improved filter system is used. The supporting bracket is made of strong but light cast aluminum. A sturdy socket and shield with $1\frac{1}{2}$ " x $\frac{1}{2}$ " aperture for the Neon tube is provided. Also equipped with a shadow box and magnifying lens to greatly enlarge the image and permit reception by more than one person.

Accurate Square Hole Disc

The 60-hole scanning disc is made of aluminum and accurately punched with square holes .003" in size to permit the entrance of more light than the usual round hole. With the increasing use of the 60-hole disc by the leading Television broadcasting systems, this size was made standard with our equipment. Finished in beautiful oxidized bronze and complete with directions and prints.

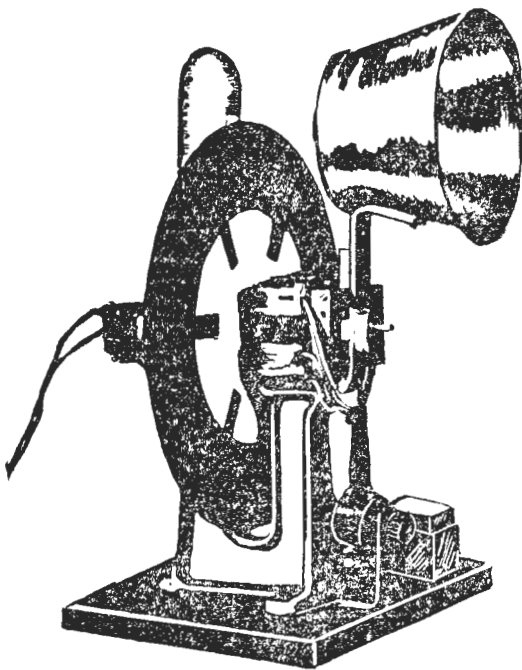
Cat. No. 1834

In Kit Form

List Price, \$35.00

Your Price \$17.15

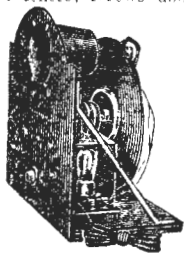
We recommend the use of the Pilot Television receiver in conjunction with our Televisor for best results. Receiver described elsewhere in our catalog.



I.C.A. Complete Essential Television Kit

Model 52

A television essential kit comprising: 1) bakelite scanning disc, 48 holes; Universal motor, speed control; motor chuck; telescope with 2 lenses; screws and lens bracket; bakelite sub-base for motor, receptacle cord and plug; sub-base with socket for television lamp; picture frame shield; bakelite pillars; four stage television amplifier tubes are not included.



No. 1890. List, \$52.50. **Your Price \$30.87**

No. 1891. Same as Model 52 but includes television tube. List \$65.00. **Your Price \$38.22**

Model B-1

No. 1892. Special television kit, but without amplifier or television tube. List \$45.00. **Your Price \$26.46**

Scanning Discs and Essentials

The I. C. A. bakelite scanning discs have been designed and constructed in accordance with Bell Laboratory specifications. The holes are laid out mathematically correct to avoid distortion. For $1\frac{1}{2}$ " x $1\frac{1}{4}$ " pictures.



No. 1893. 24 aperture disc. List \$10.00. **Your Price \$5.68**

No. 1894. 48 aperture disc. List \$10.00. **Your Price \$5.68**

No. 1895. Universal disc of aluminum. Combination 24, 36, and 48 lines. List \$15.00. **Your Price \$8.82**

No. 3635. 60 hole disc. **Your Price \$8.50**

Television Tube and Photo Electric Cells



A television tube with a UX four-pronged base. Striking voltage 100; minimum current 3 mls; maximum 80 mls; internal resistance, 100 ohms; plate area $1\frac{1}{2}$ " sq.

No. 1896. List \$10.00. **Your Price \$5.88**

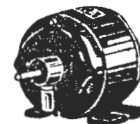
No. 1897. Photo-Electric cell, $1\frac{1}{4}$ " bulb diameter. List \$20.00. **Your Price \$11.76**

No. 1898. Photo-Electric cell, 3" bulb diameter. List \$37.50. **Your Price \$22.05**

I.C.A. Universal Television Motors

Universal motor (A.C. or D.C.). Easily controlled by rheostat. With $\frac{1}{4}$ " shaft.

No. 7161. List \$29.50. **Your Price \$17.34**



No. 1899. Special single Phase $1/15$ H.P., 110 volts, 60 cycle motor. Resistance controlled—1800 R.P.M. Will operate 12" to 24" scanning discs. $\frac{1}{4}$ " shaft. List \$35.00. **Your Price \$20.58**

No. 1900. Chuck to fit $\frac{1}{4}$ " motor shaft. List \$5.00. **Your Price \$2.94**

Speed Control

For synchronization of picture and signals.

No. 1921. List \$3.00. **Your Price \$1.89**

Television Amplifier

The I.C.A. four-stage amplifier, complete with all resistors and coupling condensers. Any power tube will serve, although two 245 or 250 in the output are recommended. Tubes not included.

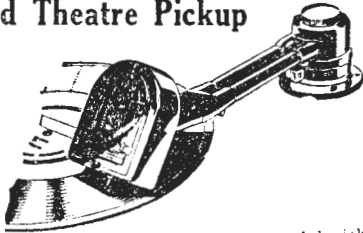
No. 1901. List, \$17.50. **Your Price \$10.29**

Television has this year taken its greatest forward stride since the inception of the art. Columbia and National Broadcast Corporations are daily transmitting television programs. Television today is even further advanced than radio was in 1921. Every experimenter and radio fan is delving into it. At the present stage it is possible for everyone to contribute improvements to the art. Be the first in your neighborhood to show television. We list television apparatus of nationally known, reputable manufacturers, and advocate its use for experimental purposes. Television material is all of experimental nature and not subject to refund or exchange. In the event of damage to shipment we advise purchaser to file claim with carrier.

GET INTO TELEVISION NOW!

Radio Surplus Corporation, 54-56 Vesey Street, New York

Best B.B.L. DeLuxe Home and Theatre Pickup



The largest, heaviest and most powerful pick-up on the market. Yet so delicately counter-balanced that it lies like a feather on the record. Double tone arm with unique hinge for raising and lowering head, makes needle changing more convenient than ever. Volume control is a built-in feature of the pick-up conveniently located on the base. Shpg. wt. 7 lbs.

Cat. No. 8134 List \$20.00
Your Price **\$11.76**

Webster Phonograph Pickup

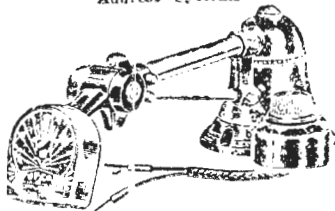


The Webster Electric Pick-up will faithfully reproduce all frequencies. Remarkable clearness and volume and freedom from any objectionable noises when playing any type record are features that prove scientifically correct design of this Webster Pick-up. A volume control is built into the base of the pick-up allowing a full range of volume control. Finished in antique bronze. Shpg. wt. 4 lbs. complete.

Cat. No. 8135
Your Price **\$5.95**

The New "Upco" Chromatic

Professional Pick-up with Built-in Volume Control As Used in Theatres and Public Address Systems



UPCO Engineers, backed by limitless skill and experience, have evolved this truly scientific, sensitive instrument capable of reproducing finest music with full justice to the consummate art of its creators. A good value at full list price of \$17.50.

Cat. No. 8136
Your Price **\$7.95**

Multiple Speaker Extension Cord or Speaker Output Adapter



Complete with Cord Connector

For sets using push-pull audio. This device enables one to connect additional speakers to any radio set, without rewiring or soldered connections. Simply place the adapter under the power tube or tubes and connect the additional speakers with the connector furnished.

Cat. No. 8142
Your Price, **69c** per set

Clarostat Tone Control



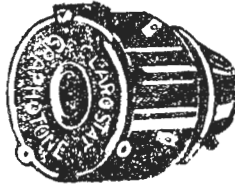
Cat. No. 8137 List Price \$2.35
Your Price **\$1.25**

Tone control is the keynote of 1931 radio. All the better types of sets are provided with tone control. A radio set is obsolete without tone control. Table model beautifully finished in black and gold; felted base; long connecting cord and handy disc connectors.

Panel Mounting Type

Cat. No. 8138 List Price \$1.80

Your Price **\$1.03**



Columbia Presto Pickup

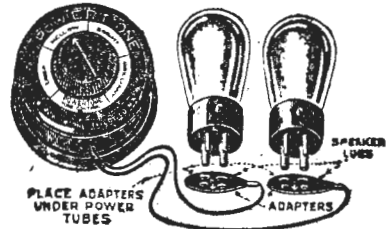
A Sure-Fire Combination



The deservedly popular "Columbia" Pick-up in combination with the "Presto" base—an ideal combination. Will take records of any marketed size. Take advantage of this unusual value.

Cat. No. 8130 List \$35.00
Without Volume Control
Your Price **\$5.95**
Volume Control \$1.45 Extra

Power Tone Regulator

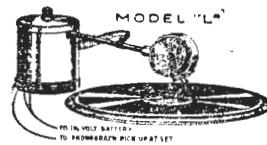


Not just another tone control but embodies features of design that make it a real control. Control is actuated on the grids of the power tubes instead of on the plates, giving a larger degree of tone regulation. Provision is made to allow the connection of extra speakers. This is a real convenience and a distinct Powerstone feature. Available in table and panel mounting styles, and for push-pull output and single power stage.

Cat. No. 8143. FOR TABLE TYPE.
Your Price **\$1.75**

Cat. No. 8144. FOR PANEL MOUNTED.
Your Price **\$1.35**

Bristophone Phono Pickup



A massive unit, capable of highest possible sensitivity. Produces enormous volume perfectly clear and free from distortion.

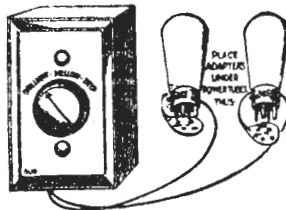
Handsomely finished in gold. Shpg. wt. 8 lbs.
Cat. No. 8145. List \$17.50.
Your Price **\$4.75**

Bristophone Phono Pickup

Model M
Employs carbon microphone principle.
Cat. No. 8154. List \$12.50.

Your Price **\$2.75**

Bud Tone Control



set. 4 1/2" by 2 1/4" by 2 1/2". Shpg. wt. 2 lbs.
Cat. No. 8140.

Your Price **\$2.25**

Brilliant, bright, mellow or deep tone is at your command. Very easily attached to the radio set. Place the adapters which are suspended from the bakelite box, under the two power tubes in your set. Should your set have only one power tube, place one adapter under the power tube and cut the adapter off of the other wire and attach the wire to the ground post of the radio

Grebe Tone Control



One of the first and finest of all tone controls. Permits 6 degrees of tone color from low Bass to high Treble. Complete with bakelite knob and escutchion plate.

Cat. No. 8173
Your Price **85c**

Kolster Electric Pickup

For Home and Theatre Use

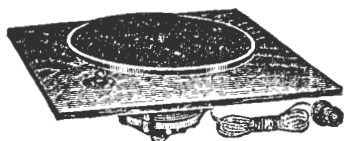


Automatic Type L

The Kolster Pick-up is hermetically sealed—thereby preventing attraction of foreign particles. In the Kolster Pick-up you will find nothing but the best Cobalt steel magnets, which assures the user of permanent satisfactory operation under any conditions. Nowhere and at no time has there ever been offered a more sensational value in radio electric pick-ups.

Cat. No. 8141.
Your Price **\$3.75**

Electric Phonograph Turntables



View with mounting board

Sonora
MADE IN U.S.A.

ELECTRIC MOTORS

With 12" Turntables

Manufactured by General Electric
NEW MODEL

Not to be confused with the older model. Available for A. C. or D. C. These new phonograph motors come to you fully assembled and mounted on $\frac{1}{2}$ " warp-proof veneer panels measuring 15"x15" ready to install into your own cabinet.

These motors are absolutely noiseless and humless. Built as only motor manufacturers of long experience could know how, they are an epitome of phonograph manufacture. The ideal motors to use for recording. They have ample power to operate any recorder head. Completely equipped with speed regulator, cord and attachment plug and a 12" turn-table to take any size records. Measures over all 16"x16"x10 $\frac{1}{2}$ ". Shpg. wt., 25 lbs.



view unmounted

Specify whether A. C. or D. C. model is wanted. A. C. motor will be shipped unless otherwise specified.

Cat. No. 3371 Your Price **\$8.55**
A. C. or D. C. Price

THE ALLEN A.C. MOTOR

For 110 Volt 50-60 Cycle A. C.



One of the most efficient and simplest phonograph motors ever designed. Silent synchronous type motor. It starts and stops at the flick of a finger. Regardless of voltage fluctuations, they revolve

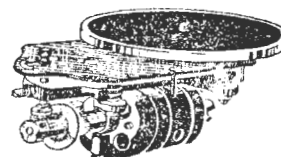
at exactly 80 revolutions per minute, eliminating the need of a speed control. Measures only 1 $\frac{1}{4}$ " in depth. It is a marvel of compact and efficient design. Easy to mount. Complete with all hardware and a beautiful felt covered turntable.

Cat. No. 3709
List \$35.00

Your Price **\$3.25**

THE PRIME GREEN GIANT MOTOR

For 110 Volts 50-60 Cycle A. C.



A sturdy powerful compact heavy duty motor of the self-starting induction type. Will not set up disturbing noises in any receiver. Equipped with large bearing surfaces to provide adequate support and to insure long life. Quick starting, full speed is attained instantly. Comes ready to mount with turntable, mounting plate, on-off switch and speed control.

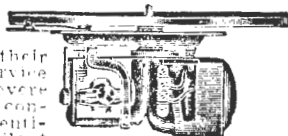
Cat. No. 3770

Your Price **\$7.50**

THE BLUE FLYER ELECTRIC PHONO MOTOR AND TURNTABLE

For 100 Volt 50-60 Cycle A. C.

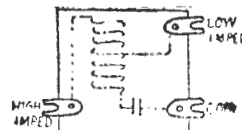
A self-starting induction motor of the better type. They have earned wide-spread praise and approval because of their perfect and uninterrupted service and uniform speed under severe voltage variations. Open type construction allowing complete ventilation. No heat or hum. Silent special-cut bakelite fabric gears. Long oversize sleeve bearings. Comes complete with mounting plate, turntable and speed regulator.



Cat. No. 3768

Your Price **\$9.75**

SCRATCH FILTER



A necessity for all phonograph pickups. The noise made by the needle as it rides in the record groove is amplified and appears in the speaker as a background scratch. This filter eliminates. Mounted in a metal case $\frac{3}{4}$ " square by 1 $\frac{1}{4}$ " high. Tapped to match the impedance of different pickups. Connects directly across pickup.

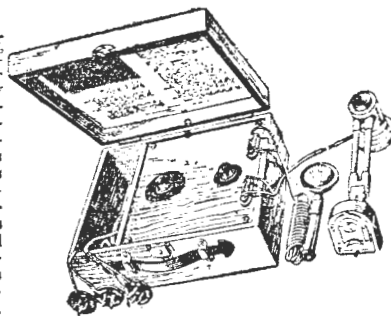
Cat. No. 3722

Your Price **35c**

THE RELIABLE HOME RECORDER

Senior Model

Enables you to record broadcasts over the radio, your own voice, that of your friends, etc. Uses the same pickup for recording and playback by means of an ingenious switching arrangement. No extra weights necessary. Also enables you to home broadcast using the same amplifier as is in your set. The home recorder is complete excepting for batteries, needles and records. The use of pre-grooved records such as the Victor, is recommended. The batteries required are a No. 6 Dry cell and a three terminal C battery. The entire unit is housed in a beautiful walnut wood carrying case equipped with a snap lock. Comes complete with the necessary pickup, recorder, microphone, selector switch and volume control. Batteries are housed in the carrying case. Full instructions enclosed. The Recorder can be used with any receiver or amplifier using 171, 245, 247, 210, or 250 output. Shpg. wt., 20 lbs.

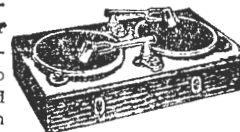


Cat. No. 3766. List \$57.00.

Your Price **\$33.85**

RELIABLE DUAL TURNTABLE

A dual electrical turntable intended for blending one record into another without lapse between. Uses two self-starting, speed regulating induction motors and two high grade pickups. A specially calibrated fader control permits blending from one turntable to the other without change of volume. Comes mounted on a tastefully finished panel standing 6" high. Will accommodate large size records. Each motor is equipped with its own line switch. Measures 28"x14"x6". Shpg. wt., 50 lbs.



Cat. No. 3707

Your Price **\$27.75**

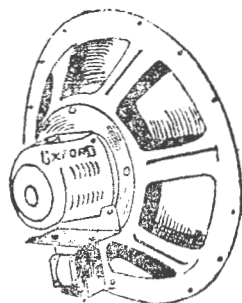
Radio Surplus Corporation, 54-56 Vesey Street, New York

THE FINEST
AND
GREATEST RADIO
SPEAKER

OXFORD SPEAKERS
THE MOST COMPLETE LINE
of
Electro-Dynamic Speakers in the World

There Is an Oxford
for Every Radio,
Public Address and
Theatre Purpose

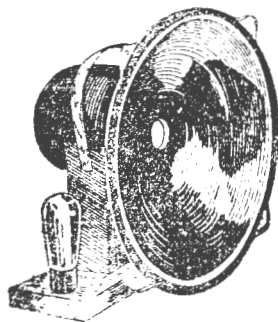
Midget Type Speakers



These are designed to be energized by the power pack of the radio set or amplifier to which they are connected. Ideal for midget sets. Available in 8 1/2", 10" or 10 1/2" size.

Cat No.	Your Price
3658... 8 1/2" ... 2500 ohm field	\$3.45
3659... 10" ... 2500 ohm field	\$3.95
3660... 10 1/2" ... 2500 ohm field	\$4.95
3661... 10 1/2" ... 2500 ohm field	\$4.95

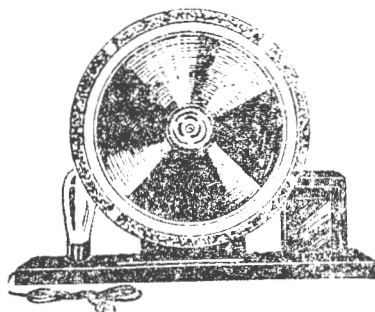
**Oxford A. C. Speakers
with 280 Tube**



These dynamics are of the three point suspension balanced spring. They use a 280 tube as a full wave rectifier to supply the field; gives more powerful field with less hum than the usual A.C. speaker. Complete with output transformers.

Cat No.	Your Price
3662... 10" cone	\$8.25
3663... 12" cone	\$8.95
3664... 14" cone	\$12.95

Auditorium Speaker
For 110-Volt A.C. with
280 Tube



The greatest speaker ever made by Oxford. 14" cone. Utilizes the patented Oxford suspension principle. Takes a baffle with a 12" opening. They have over-size frame with a large wire in the field coil. This gives a higher field strength and 100% greater energy than the rest of the 280 rectifier tube to supply the field, assures a powerful, long life supply.

Cat. No. 3665 Your Price **\$12.95**

OXFORD

Personifying the utmost in dynamic reproduction, they are energized by the entire radio path as the greatest musical instrument in radio. Oxford speakers are built to give the most perfect recreation of sound possible, the finest radio music and voice reproduction known. Cost was no consideration in the manufacture and construction of these instruments, but only "Perfection in Performance." The most advanced dynamic design is incorporated into these units.

- Three Point Suspension
- Balanced Spring
- Permanitized Controlled Diaphragm
- Moisture-Proof Coil Mountings
- Inertia Counteracted Construction
- A Speaker for Every Purpose

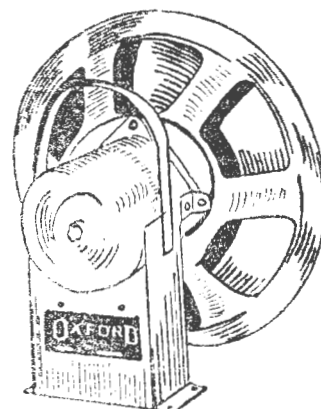
D. C. AUDITORIUM SPEAKER
4000 Ohm Field



The ideal speaker for use for public address systems where a 100% speaker field supply is available. Diameter 14" in overall height and takes a baffle opening of 12 1/2". These speakers will handle the output of any amplifier without audible distortion or blast. All coil mountings are moisture-proof, enabling the speaker to be used outdoors.

Cat. No. 3666 Your Price **\$9.95**

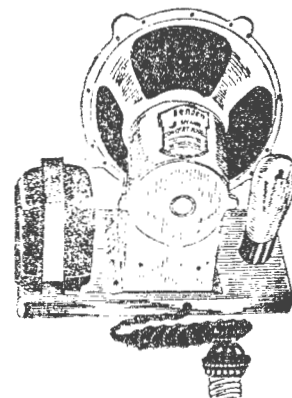
Oxford D. C. Speakers



These speakers are all designed for especially heavy duty work, and have powerful field coils. They cover the full range of low, intermediate and high notes with practically no attenuation at any end of the scale. They have over-size field housing and the fields are wound with extra large wire in the field coil. This gives higher field strength and permits greater field ampere energization.

Cat. No.	Your Price
3667... 10" ... 2500 ohm field	\$4.45
3668... 12" ... 4600 ohm field	\$4.95
3669... 14" ... 4000 ohm field	\$9.95

**Jensen Jr. Auditorium
Speaker**
Uses 280 Rectifier Tube



Improved model D7 A.C. Junior Auditorium Speaker. Uses a 280 rectifying tube. These speakers have push-pull transformers and reproduce with magnificent volume from any set or amplifier. An ideal speaker for all purposes.

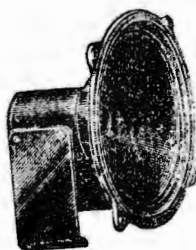
Cat. No. 3670 List \$56.50
10" Size
Your Price **\$12.25** Less Tubes

Electro Dynamic and Magnetic Speakers

JENSEN "CONCERT" D.C. Electro-Dynamic Speakers

Model D-7 DC 10" Diameter

2,500 ohm Field, 8 ohm voice coil. These units contain suitable push-pull output transformers and are absolutely hum-free. Connect directly to the set—no outside wires. As most standard manufactured AC sets are engineered for DC speakers of this ohmage, the possibilities for replacement with this really good speaker are practically unlimited. The wise merchant or repairman will take advantage of this real "buy." Never before offered at a cut price. The quantity available at this price is limited. Act quickly. Original factory packing of 2 in a carton. Shipping weight, 10 lbs.



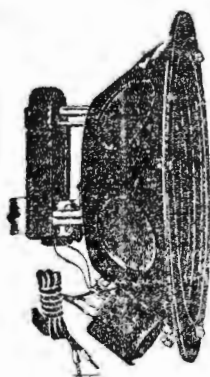
Cat. No. 8468

Your Price **\$9.50**



R.C.A. 100B-103-100A Magnetic Speaker Chassis

This chassis is the identical one used in the R.C.A. Model 100A and 100B Speakers, WHICH LIST FOR AS HIGH AS \$35.00. Note built-in OUTPUT TRANSFORMER—permits use of 450 volts, without distortion, rattling or blasting. GENEROUS OVER-SIZED MAGNETS. The thick armature is ACCURATELY CENTERED. The STURDY METAL FRAME IS LINED WITH A SPECIAL SELF-BAFFLING FABRIC, greatly improving acoustic properties of this sensational speaker! NOTE THE CORRUGATED SURFACE OF THE CONE, AN EXCLUSIVE FEATURE—ENHANCES PERFECT TONAL REPRODUCTION QUALITIES CONSIDERABLY; MOST COMPACTLY MADE; 9 INCHES OUTSIDE DIAMETER, 4½ INCHES DEEP OVER ALL. Shipping weight, 4 lbs.



Cat. No. 3461

List Price \$13.50

Your Price **\$3.25**

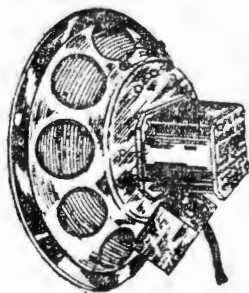
R.C.A. 106 D.C. CHASSIS

This is the same speaker chassis as used in the 106 Console model job. It can be used as a replacement speaker wherever DC field supply is available. Field resistance is high enough to enable it to be used in place of both chokes in the filter circuit. Free suspension cone insures perfect tonal quality. Complete with output transformer.

Shpg. wt. 12 lbs.

Cat. No. 3565

Your Price **\$6.50**



Type F—ROLA DYNAMICS—Type K

Equipped with output transformer. Standard field coil resistance 2,500 ohms. Excited by 40 to 80 milliamperes of direct current at 75 to 150 volts.

Voice coil impedance is one ohm.

Type K-9 Size 11" by 5½" Cat. No. 3467

Your Price **\$5.75**

Type K-7 Size 9¾" by 5½" Cat. No. 3468

Your Price **\$5.15**

Type K-6 Size 8½" by 5½" Cat. No. 3469

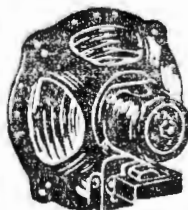
Your Price **\$4.75**

Type DC Field wound for 6 volt DC

Cat. No. 3470

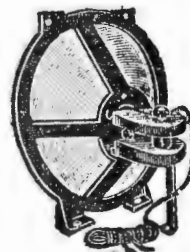
Your Price **\$5.75**

Type K for use with 245 Tubes
Type F for use with Pentode Tubes



The Farrand inductor dynamic speaker unit is one of the most recent types developed. The Unit uses two powerful U-shaped permanent magnets to supply the fixed magnetic field. The Inductor Dynamic is very sensitive and yet will handle over 12 watts without distortion or rattle. The armature moves over ¼" when reproducing low notes. The action of the speaker is similar to an AC induction motor where a motor revolves under the influence of a changing magnetic field. The best speaker developed for auto or boat radio. State type power tube used when ordering. Shpg. wt. 7 lbs.

Farrand INDUCTOR DYNAMIC



Cat. No. 8466 9" Diameter.

Your Price **\$6.95**

Cat. No. 8471 12" Diameter.

Your Price **\$7.95**

CROSLEY DYNAHONE TYPE F

Automobile Speaker Size

Will operate with any set, easily installed in any car. The most powerful unit for its size.

Cat. No. 3472

Your Price **\$2.95**

DYNAHONE ADAPTER

to enable use of the above speaker with any radio. Complete instructions enclosed.

Cat. No. 3473

Your Price **35c**



UTAH 12-IN. STADIUM DYNAMIC CHASSIS

Model 66-B

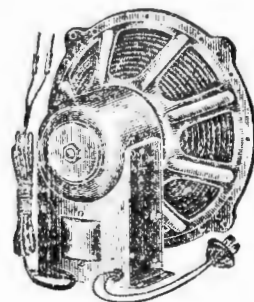
110 Volt 60 Cycle AC

A superior heavy duty unit for home, theatre, large hall or outdoor use.

Uses 110 volt 60 cycle AC current light socket supply for field excitation. Individually packed. Shpg. wt. 24 lbs.

Cat. No. 3474

Your Price **\$12.20**



R.C.A. PHOTOPHONE DYNAMIC SPEAKER

1,000 ohms, DC

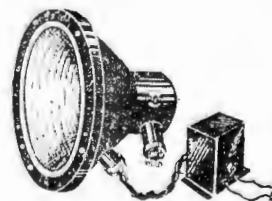
DIAMETER OF DIAPHRAGM, 13 in. Overall diameter, 15 in. Wt. 40 lbs. Here is the genuine R.C.A. Photophone Dynamic Speaker chassis with output transformer used with Western Electric Sound Systems in theatres. Suitable for public address installations in dance halls, auditoriums, churches, schools, etc. Rim of speaker has holes for easy mounting to baffleboard.

1,000 Ohm DC Field. Cat. No. 3475

Your Price **\$14.00**

110-120 V. 50-60 Cycle AC. Uses 2-280 tubes. Cat. No. 3476

Your Price **\$21.00**



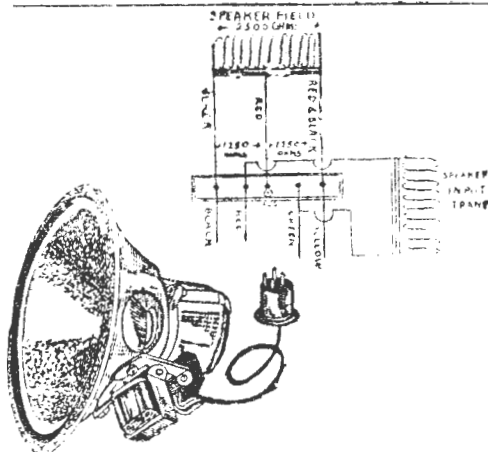
Speakers For Quality Reproduction

Utah Little Giant Speaker

The Utah Little Giant is an extremely sensitive general purpose model with 8" diaphragm and can be used for single and push-pull as well as pentode audio stages. The field can be connected for 2,500 ohms resistance, 1,250 ohm field or a 625 ohm field. It can be used as the filter chokes of any circuit. When so used it provides two chokes of 1,250 ohms each. All terminals are brought out to a terminal strip and from there, they are cabled into a standard UX 4-prong plug. Using a special type of cone suspension, it is able to handle great volume without rattle, blast or distortion. Easy mounting. Ideal for midget sets or for use as a general purpose speaker.

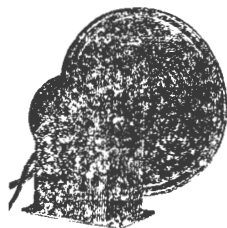
Cat. No. 3731

YOUR PRICE
\$5.50



UTAH 33A SPEAKER

For 110-Volt A C



A 9" dynamic speaker. Uses a Westinghouse Rectox rectifier. Special corrugated cone assures strength and reliability under all conditions. Makes an ideal speaker for any set or amplifier.

Cat. No. 3733 List \$20.00

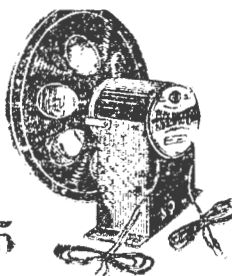
Your Price **\$6.75**

BALDWIN D.C. SPEAKER

Replacement for all Baldwin speakers. Famous for their famous quality and performance. Complete with output transformer.

Cat. No. 3822

Your Price **\$5.95**



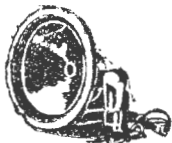
MUTER DYNAMIC SPEAKER

Volume without distortion or blasting. May be matched with any power amplifier. Hum-free operation. 280 tube rectification.

List \$25.50
Cat. No. 3729

Your Price **\$6.35**

Complete With Tube



SPEAKER GRILL CLOTH

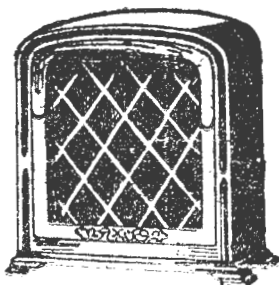
A beautiful silk cloth that can be used to enhance the appearance of any speaker box. Finished in a soft brown and harmonizes with every wood.

Cat. No. 3728

Your Price **\$1.00** Per Yard



Kolster Magnetic Speaker



No effort was spared to make this an exceptional speaker. No biasing or distortion. Excellent reproduction of the full musical register. 12" with 1 1/2" depth. Deep 50cc. wt. 10 lbs.

Cat. No. 3834

List \$20.00

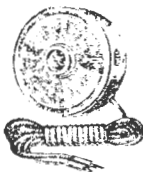
Your Price **\$4.65**

BALDWIN RIVAL UNIT

Ideal for portable sets. Very sensitive and capable of reproducing all frequencies in natural tone. This is the last lot of them. Send in your order at once.

Cat. No. 3727

Your Price **40c** Each

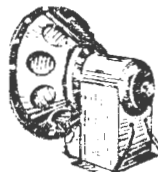


Transformer Corp. of America Dynamic Speaker

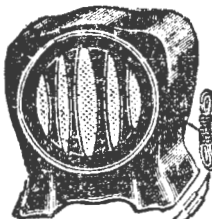
This speaker has a 2500 ohm field with built-in output transformer for single or push pull output.

Cat. No. 3734

Your Price **\$6.50**



FAIRFAX MAGNETIC SPEAKER



Housed in a beautiful clock model wooden cabinet, self-baffled. Handles great volume without distortion.

Cat. No. 3732

Your Price **\$3.25**

R.C.A. Speaker Model 103



A new fine quality MAGNETIC SPEAKER. Frame is hand-carved oak effect and is attractively offset by the tasteful medallion repeating cloth covering. 15" high 13 1/4" wide 6 1/2" deep. Shpg. wt. 8 lbs.

Cat. No. 3826

List \$27.50

Your Price **\$3.95**

NATHANIEL BALDWIN DYNAMIC SPEAKER

2500 Ohm Field Dynamic Speaker Chassis

Every audible frequency is perfectly reproduced at any volume with brilliance and definition.

2500 ohm D.C. field without output transformer.

Cat. No. 3720

List \$15.00

Special at **\$4.75**



REPLACEMENT CONES AND CONE PAPER

Replacement cone for any speaker chassis. Choice of 9" or 12" size. Complete with apex and hardware.

Cat. No. 3725

Your Price **85c** Each

Peerless and Symington Cone Papers

Cone papers for Peerless and Symington 8" and 10" dynamic speakers.

Cat. No. 3726

50c Per Doz.



Readrite and Flechtheim Accurate Meters

PANEL MOUNT METERS

Require 2-5/64" hole for mounting. Highly nickled with silver face dials. Shpg. wt., 1 lb.



D. C. AMMETERS

- No. 217-338 0-10
- No. 218-336 0-3
- No. 219-101 1-0.1
- No. 220-303 3-0.3
- No. 221-606 6-0.6
- No. 222-110 10-0-10
- No. 223-220 20-0-20

List \$1.00
Your Price **59c** each

A. C., D. C. Voltmeters

- No. 301-314 0-4
 - No. 302-353 0-6
 - No. 303-352 0-10
 - No. 304-351 0-15
- List 2.50. Your Price **\$1.47**
- No. 305-348; 0-150. List \$4.00. Your Price **\$2.36**
 - No. 306-247; 0-400. List \$6.00. Your Price **\$3.53**
 - No. 307-355; 0-10-140. List \$4.00. Your Price **\$2.36**



Readrite Pocket Meters AMMETER

No. 119-1. Tests 0-40 amps (400 coils) List 25c. Your Price **43c**

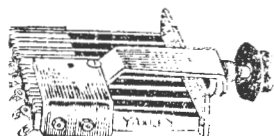
VOLTMETERS

- No. 121-50. 0-50 Volts. List \$1.00. Your Price **58c**
- No. 122-42. 0-150 volts. List \$1.50. Your Price **73c**
- No. 123-41. 0-5 0-150 volts. List \$2.00. Your Price **\$1.16**

VOLTA MMETERS

- No. 124-18. 0-5 volts, 0-10 amps. List \$1.25. Your Price **73c**
- No. 125-35. 0-50 volts, 0-10 amps. List \$1.50. Your Price **87c**
- No. 126-25. Test 6 volt 'A' storage battery. Determines when to charge and stop charge same. List \$1.00. Your Price **58c**

Yaxley 4 Pole D.P.D. Switch



Long springs with heavy substantial contacts. Four pole double throw. Single shaft. Single hole mounting. All metal parts. Gaskets heavily nickled while the body is of bakelite. Will find many uses in testers, etc.

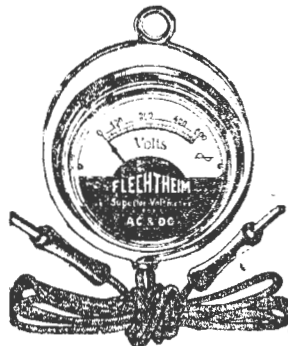
Your Price **79c**

Single Pole Double Throw Toggle



Toggle switch, will break 125 volts at 3 amperes. Heavy construction. For use in testers, phone switch, etc.

Cat. No. 3637 Your Price **22c**



Flechtheim High Resistance Voltmeters

Furnished in highly nickled finish meter cases, equipped with flexible cords having well-insulated metal tips, with which to make connections. Uses only 5 mils. current-resistance, 200 ohms per volt. 2 3/4" diameter. Shpg. wt., 3 lbs.

- No. 132 AV 300 0-300 Volts D.C. List \$6.00. Your Price **\$2.05**
- No. 143 BV 500 0-500 Volts D.C. List \$8.50. Your Price **\$3.15**
- No. 121 CV 600 0-600 Volts D.C. List \$12.50. Your Price **\$3.45**



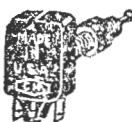
Yaxley Phono Radio Switch

A single pole double throw 450p switch for phono radio changover. Complete with plate.

Your Price **43c**

Toggle Switch

Approved toggle switch. Has 5 leads. Oxidized finish. Your Price **18c**



Long Shank Toggle

A Cutler Hammer switch. Long neck mounts on panels up to 7/8" thick. Approved type switch.

Cat. No. 3616 Your Price **24c**

D. C. Milliammeters



- No. 225-325 0-25.
 - No. 226-350 0-50.
 - No. 227-390 0-100.
 - No. 228-399 0-300.
 - No. 229-394 0-400.
- List \$1.00. Your Price, each **59c**
- No. 221-311; 0-10 MA. List \$1.75. Your Price **\$1.02**
 - No. 300-395; 0-20 MA. List \$1.75. Your Price **\$1.02**

D. C. Voltmeters

- No. 308-326 0-6
 - No. 309-335 0-8
 - No. 310-310 0-10
 - No. 311-316 0-16
 - No. 312-333 3-0-33
 - No. 313-337 0-50
- List \$1.00. Your Price, Each **59c**
- No. 315-339—0-100 volts List \$1.85. Your Price **74c**
 - No. 317-342—0-150 volts List \$1.50. Your Price **88c**
 - No. 319-340—0-8, 0-100 volts (Approximate 40 ohms per volt resistance). List \$1.75. Your Price **\$1.02**
 - No. 320-341—0-8, 0-150 volts (Approximate 40 ohms per volt resistance). List \$2.00. Your Price **\$1.18**
 - No. 321-340 F. 0-300 volts List \$3.00. Your Price **\$1.77**
 - No. 322-347 F. 0-500 volts List \$4.00. Your Price **\$2.36**
 - No. 323-346 F. 0-50-500 volts List \$4.00. Your Price **\$2.36**

CUTLER-HAMMER 3-POINT SWITCH

A double pole single throw switch with a neutral position. Positive action makes and break. Ideal for testers and general use. Positive type contacts to carry high currents.



Cat. No. 3643 List \$1.50
Your Price **35c**

H. & H. Two-Circuit Switch



Useful closing type switch. For Phone Radio and public address systems. Used in carbon circuit of radio for closing phono graph pickup circuit.

Cat. No. 3641 Your Price **32c**

C. H. Lock Switch



This switch is turned on and off by a key. Positive. It locks the receiver. For auto use, etc. Comes complete with 2 keys.

Cat. No. 3645 Your Price **35c**

Carter Switch



Long spring type. Neutral off position. Makes one contact and breaks one on the other side.

Cat. No. 3644 Your Price **19c**

G.E. Rotary Switch

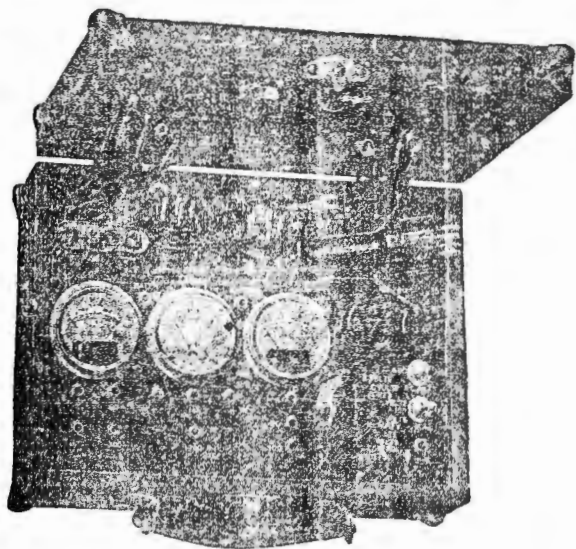


Rotary switch for 110 volt lines. Will break 3 amps. 1/2" shaft.

Your Price **20c**

Cat. No. 3612

Long Shaft Rotary Switch. Cat. No. 3612L. Your Price 35c



Reliable
INSTRUMENTS

Senior Set Analyzer

The Reliable Senior Set Analyzer will make every test necessary on any receiver. It is a three meter job, built by one of the largest electrical instrument manufacturers in the industry. Built to a design furnished by men who know every angle of servicing, it is sure to satisfy every one using it.

TESTS ALL TUBES INCLUDING 280

The Senior Analyzer tests all tubes including the new two-volt tubes. Tests both plates of 280 rectifiers. It also makes the following tests: Line Voltage, Filament Voltage, Plate Current and Voltage, Screen Current and Voltage, and Grid Bias. The usual continuity test is also provided for. Also tests the new Pentode tubes.

METERS CAN BE USED INDIVIDUALLY

An added feature usually found only in the higher priced testers is provision for using the meters independently of the tester. When so used it provides an A. C. voltmeter with ranges of 0-10-140-700 volts. The D. C. voltmeter range is 0-60-300-600. The full scale resistance on the 600 volt range is 180,000 ohms. The milliammeter ranges are 0-20-100 mills.

CAPACITY AND RESISTANCE MEASUREMENTS

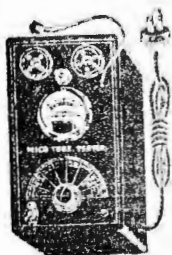
Charts and curves furnished with the tester make it possible to calibrate the analyzer to make the following measurements: Capacity measurements from .1 to 24 mfd.; resistance measurements of 0 to 600 ohms, 0 to 1,000 ohms and 1,000 to 100,000 ohms. The analyzer comes complete with cables, adapters, test leads and C battery.

No. 2700.
Shpg. wt. 7 lbs.
List. \$35.00.

Your Price **\$14.70**

RELIABLE TUBE TESTER

Tests Screen Grids—Pentodes—Rectifiers



for 110 volt 60 cycle A.C.
The Reliable Tube Tester provides a quick and accurate way to check all tubes. Engraved scale on face of the instrument shows what the correct value for each tube should be. Operates directly from 110 volt A.C. line. Wide swing on second reading to give mutual conductance value shows instantly whether tube is good or bad. At this low price, no service man or dealer can afford to be without one. Shpg. wt. 5 lbs.

Cat. No. 3001. List \$22.00.

Your Price **\$10.95**

The Reliable Tube Tester

Your Price **\$11.85**

In an attractive carrying case.

Readrite Adapters



No. 128-54. Contains 5 prong Socket on a 4 prong Plug. Has all connections complete to plug. List \$1.00

Your Price **58c**

No. 129-45. Contains 4 prong Socket on a 5 prong Plug. Has all connections complete to plug. List \$1.00

Your Price **58c**

Readrite Plug-in Line Voltmeter



By plugging into AC or DC socket with this instrument, the exact voltage at that socket is readily determined. Shpg. wt., 1 lb.

No. 127-148. 0-150 Volts AC.—DC. List \$3.00

YOUR PRICE **\$1.75**

OHMMETER MULTIPLIER



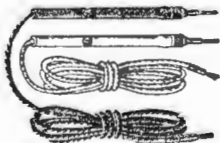
This resistor when used with a 22½ volt battery increases the range of the Readrite resistance meters to 50,000 ohms. A necessary adjunct for both resistance meters shown on this page.

Cat. No. 3002-503. List \$1.50.

Your Price **88c**

Test Leads

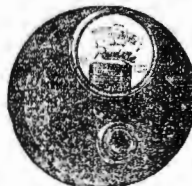
A pair of leads furnished with insulated polarity test prods. Five foot long. Indispensable for the service man.



No. 1970.

Your Price **35c**

Readrite Ohmmeter



Direct reading. Tests resistance up to 10,000 ohms, also D.C. volts 0-4.5. Contains small 3-cell flashlight battery; current drain is negligible. Adjusts to zero by shorting the two jacks and turning rheostat knob. Supplied with two wire leads five feet long for use in continuity and resistance testing. A high grade instrument. Case is steel, 4" dia. Indispensable for service work. Shpg. wt. 2 lbs. No. 324-500. List \$6.00.

Your Price **\$3.50**

Readrite Resistance Meter

This is the same meter as used in Readrite No. 500, shown above without 3 small flashlight cells and circular metal case. Shpg. wt. 1 lb.



No. 325-501
List \$2.50

YOUR PRICE **\$1.44**

Utility Test Cables



A 5-prong moulded bakelite plug with a 5-foot coded cable. For use in testers, or as speaker connectors, etc. Shpg. wt. ½ lb. No. 2178. List \$1.50.

Your Price **45c**

Socket for above plug.

Your Price **15c**

Readrite 3-Light Tube Short Tester



Used for testing "shorts" in tubes before the electrical tests are made. Plugs directly into socket on No. 400 tester or may be connected to any 4½ v. battery. Lights burn only when a short exists between two elements in tube. Speedy. Handy. Saves time and trouble. Complete with lamps and plug. Shpg. wt. 2 lbs.

No. 216-450. List \$3.50.

Your Price **\$2.06**

Readrite Socket Testing Voltmeters



For reading plate or filament voltages by plugging directly into tube socket. Shpg. wt. 1 lb.

No. 213-146. Plate Voltmeter—0-300 volts. Resistance 54,000 ohms. List \$3.00.

Your Price **\$1.77**

No. 214-150. Grid Voltmeter—0-50 volts. Resistance 8,800 ohms. List \$3.00.

Your Price **\$1.77**

No. 215-152. Filament Voltmeter A.C.-D.C. 0-10 volts. List \$2.50.

Your Price **\$1.47**

HANDY TEST EQUIPMENT FOR THE LAB!

New! RADIO PHYSICS COURSE (Second Edition)

672 Pages... Over 750
Illustrations

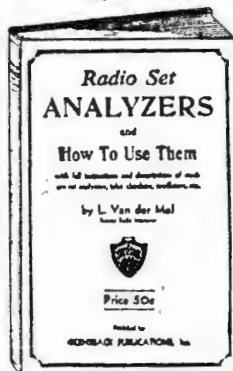


Finer and larger than ever, the new Radio Physics Course contains 672 pages and over 750 illustrations. Covers everything new... Pentode, Multi-Mu, Public Address, Television, Recording, Movietone. Includes a complete electrical theory course. This book should be on every serviceman's shelf. Written by Alfred A. Ghirardi, well known author, instructor and engineer. This is a standard text used throughout the country by hundreds of schools. Written in a clear, self-explanatory way.

Cat. No. 3653
Your Price **\$3.00**

Radio Set Analyzers and How To Use Them

By L. VAN DER MEL



A most important and timely new publication. It fills a long recognized want. The first book that explains completely the operation of analyzers, tube checkers, oscillators, etc. from a thoroughly practical standpoint. Complete in every sense. Easily understood.
Cat. No. 3946
Your Price **50c**

PRACTICAL RADIO REPAIRING HINTS

Another book that will complete the equipment of every Radio man is the new "Practical Radio Repairing Hints" by Rider. Full of practical repairing hints and kinks covering all types of receivers and radio parts. It includes countless emergency repairs, temporary measures, rapid means of locating trouble and hundreds of other aids. It is a practical book in every way, all theory being omitted.



128 pages, cloth bound.
Cat. No. 3655
Your Price **\$1.90**

JOHN F. RIDER'S TROUBLE-SHOOTER'S MANUAL



Over 1,000 Pages of
Service Information

Complete, comprehensive and up-to-date, this new manual covers the entire radio and public address field. It will supply you with the vital data concerning circuits, tube layouts, voltage charts, color codes, internal wiring diagrams. You will find the entire line of popular American and Canadian receiver manufacturers. Contains diagrams not available from any other source. Wiring diagrams of set analyzers, oscillators, public address and power amplifiers, short wave sets, etc. Loose-leaf, beautifully bound.

AN ABSOLUTE NECESSITY

Cat. No. 3657

Your Price **\$4.50**



FREE!

Your choice of either John F. Rider's Trouble Shooter's Manual or the New 1932. Official Service Manual with every order amounting to \$35.00 or more. This offer for a limited period only.

Get Your
Copy Now

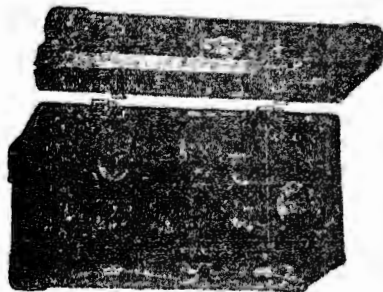


1932 Official Service Manual

The most complete and most valuable of all Service Manuals, containing 1,000 pages, crammed full of the most comprehensive information. All original and new material, many chapters never before appearing in print. Over 2,000 diagrams. Over 1,500 diagrams and hook-up of commercial receivers, including 1932 models. New data covering Pentode, Variable-Mu tubes, midjet receivers, superheterodyne, test equipment of every description, color codes of wiring and resistors, short wave sets and converters, public address systems, talking motion picture equipment, and hundreds of practical service hints on commercial receivers.



Cat. No. 3945
Your Price **\$4.00**



Reliable Service Oscillator

A modulated oscillator for adjusting R.F. and I.F. circuits. Fully shielded with separate battery compartment. Covers from 550-1500 K. C. and from 120 to 185 K. C.

Used to align R.F. gang condensers, locate defective R.F. transformers, adjust I.F. transformers, check oscillator stages, and determine sensitivity and gain of receiver. Complete in leatherette carrying case.

Reliable Service Oscillator, complete with batteries, tubes, and output meter.

Cat. No. 3938 Your Price **\$20.60**
LIST PRICE \$35.

Same as above but less output meter.
Cat. No. 3939 Your Price **\$17.64**
LIST PRICE \$30.

FREE With every Reliable Service Oscillator, a set of neutralizing tools

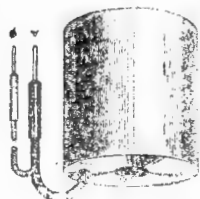
Reliable Output Meter

A copper oxide rectifier type meter with a range of 0-5 and 0-50 volts. A condenser is incorporated in the high range to prevent D. C. current from passing. Measures A. C. or D. C. Used to measure gain and lining up R. F. and I. F. stages. Needed by every serviceman. Complete with test leads. Mounted in a seamless metal case.

Cat. No. 3940
List Price \$6.00

Your Price **\$3.53**

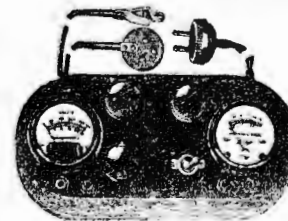
Reliable Exploring Coil



Designed for the serviceman to use in localizing R. F. trouble. The process of localizing tuner faults with exploring coil is simple, reducing time to a minimum. Both coil and connecting wire are completely shielded.

Cat. No. 3941
List Price \$3.50
Your Price **\$2.06**

Reliable Capacity Tester



The capacity tester tests all paper mica, and electrolytic condensers. It tests paper or mica condensers of .008 to 10 mfd., and electrolytics of all sizes. Meters read directly in microfarads. Switch for reading upper or lower

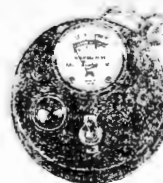
range. Operates off 110 A. C. line for reading paper or mica condensers and off the 280 tube in any set or power pack for testing electrolytics.

Cat. No. 3942 Your Price **\$8.82**
List Price \$15.00

Same as above but in steel case with cover and handle for outside service work.

Cat. No. 3943 Your Price **\$9.99**
List Price \$17.00

Reliable Capacity Meter



A double scale capacity meter. Double range lower range .008 to .25 mfd. Upper range .1 to 10 mfd. Connects to 100-130 volts. 60 cycle line supply. Contains rheostat to set full scale of 100 volts. In neat steel case. Baked enamel finish. Complete with test leads.

Cat. No. 3944
List Price \$8.00
Your Price **\$4.81**

Radio Surplus Corporation, 54-56 Vesey Street, New York

JEWELL PRECISION MEASURING METERS

D.C. Instruments Patterns 53, 135



These 2-in. flush type instruments are of matched size and appearance. The instruments are furnished in three styles of mountings: the front of board type with studs projecting through

the board, the rim type in which it is necessary to drill a 2 1/4-inch hole, mounting with a cup or clamp, and conventional flush or flange mounting with 3 holes for screws in the flange. They are suited for mounting in the panels of radio receivers or for use in experimental work where the small instrument gives adequate accuracy.

No.	Range	List	Net
Pattern 53 for D.C.			
1986	0-5, 8, 10, 15, 50 volts	\$7.50	\$5.51
1987	0-100 volts	9.00	6.62
1988	0-150 volts	9.50	6.98
1989	0-300 volts	12.00	8.82
1990	0-500 volts	15.50	11.39
1991	1-1000 volts	22.50	16.54
1992	0-3000 volts	49.50	36.38
1993	0-3, 5, 10, 15 amp.	7.50	5.51
1994	0-5, 10, 15, 25, 30, 50, 100 mill	7.50	5.51
1995	C-3 mill.	9.00	6.62
1996	0-1.5 mill.	9.00	6.62
Pattern 135 for D.C.			
1997	0-5, 8, 10 volts	7.00	5.15
1998	0-100 or 1-150 volts	7.50	5.51
Double Reading			
1999	0-8-200 v.	8.50	6.24
2000	0-3, 0-5 double scale	7.00	5.15
2001	0-10, 15, 25, 50, 80, 100, 300, 500 mill.	7.00	5.15

JEWELL PATTERN 574 VOLTOHMMETER



The meter has a double scale, the upper reading being 0-100,000 ohms, the lower scale is 0 to 300 volts. The voltage and resistance range can be reduced to one-tenth their full scale readings. The voltage range can be increased to 600 volts.

As a voltmeter, it has a resistance of 1,000 ohms per volt. Shpg. wt. 5 lbs., with battery and test leads. List Price \$35.00

Your Price **\$25.73**

Jewell Pattern 89 Voltmeter and Ohmmeter



Are mounted in cases of molded bakelite with suitable terminals as illustrated. A 1 1/2 volt dry cell is mounted inside the case of the Pattern 89 ohmmeter making it independent of outside sources of supply. A magnetic shunt provides convenient adjustment to compensate for variations in cell voltage. Shpg. wt. 3 lbs. Pattern 89 Ohmmeter with either 0-1,000, 0-3,000, 0-10,000, or 0-30,000 ohm ranges including battery and test leads. List Price \$16.50.

Your Price **\$12.12**

Voltmeter

The Voltmeter for radio service is a three range instrument with scales of 30, 300 and 600 volts; 1,000 ohms per volt. Pattern 89 Voltmeter with 0-30-300-600 scales and test leads.

Your Price **\$18.38**

Radio Surplus Corporation, 54-56 Vesey Street, New York

Pattern 209 Tube Checker



Was developed for dealers requiring an accurate and effective tube checker at a moderate price. Operates on 50-60 cycle 110-120 volt A.C. Tests all tubes including heater type. Correct value of readings are given on chart on the face of the tube checker. A vitrified porcelain resistor is supplied in the circuit to prevent damage in the event of a shorted tube. Shpg. wt., 7 lbs.

including heater type. Correct value of readings are given on chart on the face of the tube checker. A vitrified porcelain resistor is supplied in the circuit to prevent damage in the event of a shorted tube. Shpg. wt., 7 lbs.

List \$30.00.

Your Price **\$22.05**

Patterns 190 A.C. Instruments



The pattern 190 are similar in size and appearance to the pattern 53, and 135. Pattern 190 are regularly furnished in new mounting type but can also be supplied in flange type with three mounting holes.

Range	List	Your Price
0-1.5, 3, 5, 8, 10, 15, 20 volts	\$7.50	\$5.51
0-150 volts	9.50	6.98
0-1, 3, 5, 10, 15 amperes	7.50	5.51
0-20, 30, 50, 100, 300, 500 Milliamp.	7.50	5.51

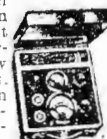
High Frequency Thermo Couple Type, Pattern 165

Similar in shape and size to Pattern 190 but for use on H. F. circuits.

Range	List	Your Price
0-1	\$12.00	\$8.82
0-1.5	12.00	8.82
0-2	12.00	8.82
0-3	12.00	8.82
0-5	12.00	8.82
0-10	12.00	8.82
0-15	12.00	8.82



Pattern 210 Tube Checker



Gives direct readings on all tubes from UX199 to UX250. In operation the net change in plate current is read directly from the instrument. The 210 contains an A.C. voltmeter, a direct current instrument and a transformer for supplying filament voltages required. A rheostat compensates for all line variations. Shpg. wt. 13 lbs. List \$65.00.

Your Price **\$47.73**

Pattern 135 Ohmmeter

Pat. 135 D.C. instrument, double scale calibrated for voltage measurements and direct reading of resistances. Furnished with flange for mounting in box or panel. Shpg. wt. 3 lbs. Available in three following ranges:

No.	List	Your Price
1933	0-3 volts, 0-10, 000 ohms	\$7.00 \$1.46
1934	0-4.5 volts, 0-15,000 ohms	7.00 4.46
1935	0-15 volts, 0-100,000 ohms	10.00 6.37

MICROFARAD METERS

Pattern 78 and 75 microfarad meters are a great asset to any laboratory, shop or service man. They measure capacity directly. Double range afford easy and accurate reading. Ranges are 0-1.5 microfarads and 1.5 to 15 microfarads. Operate from 115 volt 60 cycle supply. Pattern 78 is a 2 1/4" size meter. Pattern 75 is a 4" size meter. Shpg. wt. 5 lbs.

Pattern 78. Microfarad Meter List \$22.50.

Your Price... **\$16.53**

Pattern 75. Microfarad Meter. List \$40.00.

Your Price... **\$29.40**

Popular Test Trio Pat. 88, 68, 78

The Jewell Trio of Radio instruments is popular for building special test panels and service instruments; for use on experimental laboratory apparatus, and amateur transmitting. They come in flush type bakelite cases. Flange diameter is 3 1/4". Approximate shpg. wt. 5 lbs.



No.	Range	List	Net
Pattern 88 D.C. Instruments			
2002	0-8-10-15-30 50 volts	\$7.50	\$5.51
2003	0-150 volts	9.50	6.98
2004	0-300 volts	12.00	8.82
2005	0-500 volts	15.50	11.40
2006	0-750 volts	19.00	13.97
2007	0-1000 volts	22.50	16.54
2008	0-1500 volts	28.50	20.94
2009	0-2000 volts	34.50	25.36
2010	0-2500 volts	42.50	31.24
2011	0-3000 volts	49.50	36.38

No.	Range	List	Net
Milliammeters			
2012	0-5-10-15-25-50 100-150-200 250-300-500	\$7.50	\$5.51
2013	0-1 mill.	9.00	6.62
2014	0-1.5 mill.	9.00	6.62
2015	0-2 mill.	9.00	6.62
2016	0-3 mill.	9.00	6.62
2017	0-200, 300 microampere	17.50	12.86
2019	0-1, 1.5, 2, 3, 5, 10, 15 amp.	7.50	5.51
2020	50-0-50 galvanometer	9.00	6.62

Pattern 78 A.C. Instruments

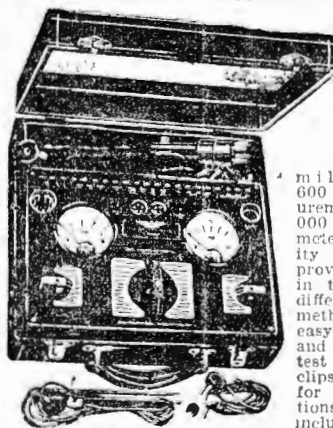
No.	Range	List	Net
These have movements of the moving iron type.			
2021	0-3, 5, 10, 15, 20, 30 volts	\$7.50	\$5.51
2022	0-150 volts	9.50	6.98
2023	0-300 volts	12.00	8.82
2024	0-3-15-150 tri-ple range	13.50	9.92
2025	0-25, 50, 100, 200, 300, 500 milliamperes	7.50	5.51
2026	0-1, 2, 3, 5, 10, 15 amperes	7.50	5.51

Pattern 68 Radio Frequency Instruments

These are of the thermo-couple type, are very accurate and have a guaranteed overload capacity of 50%.

No.	Range	List	Net
2027	0-10 mill.	\$40.00	\$29.40
2028	0-25 mill	37.50	27.56
2029	0-50 mill.	35.00	25.73
2030	0-100 mill.	32.50	23.88
2031	0-5, 1, 1.5, 2, 2.5, 3, 5, 10, 15 amperes	13.35	9.81
2032	0-100 galvanometer	15.00	11.03

Jewell Pattern 444 Set Analyzer



Establishes an entirely new standard of usefulness and value in portable Radio Servicing equipment. Tests every circuit in any receiver, full-wave rectifiers, high-mu, Pentodes. Equipped with 2 shatter-proof glass precision meters, having 24 measuring ranges. A.C. meter provides 0-4-8 amperes, 0-20-100 milliampere, 0-6-12-30-60-120-300-600 volt ranges, 3 resistance measurement ranges of 1,000-10,000, 100,000 and low, medium, high output meter ranges for measuring sensitivity and balancing receivers. An improved switching system is presented in the Pattern 444 analyzer entirely different than any previously existing method. Incorporating pin-jacks for easy connections, detachable plugs and cable. Complete with pair of test prods, pair of test leads with clips, line plug and cord and adapter for output measurements. Instructions, data book and pad of charts included.

Cat. No. 3673

Your Price **\$82.32**

List \$112.00

Miscellaneous ITEMS of INTEREST

Kellogg 227 Tubes

An absolutely first tube. Not seconds. Quick heating, high meter reading. Manufactured by Kellogg Switchboard & Supply Co., for use in their own sets.
Cat. No. 3614



SPECIAL
Your Price **45c**

Carter Outlet Plates



Designed to be used for installation of extra speakers at remote points. Beautifully bronzed finished esutcheon plug. Comes complete with mounting hardware and volume control.

List \$2.50
Cat. No. 3615
Your Price **49c**

R.C.A. 1 Mfd. By-Pass Condensers

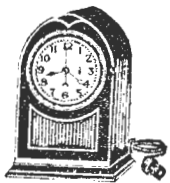
Shielded condenser in metal case. Used for R.F. by-pass and filter. Working voltage 450 D.C. Small, compact, with flexible leads.



Cat. No. 3616
Your Price **12c**

Lincoln Electric Clock Churchill Model

Exquisite design. Enthralling beauty in its walnut finish bakelite case, with dull pebbled panels. Dependable and accurate. Has 3 1/2" dial. Full sweep second hand. Shpg. wt., 5 lbs.



Cat. No. 3617 List \$6.50
Your Price **\$3.50**

Centralab 3 Ohm Power Rheostat

A real heavy duty unit made to carry heavy current. Metal jacket with broad flat resistance wire. Will carry in excess of two amps.
Cat. No. 3619



Your Price **15c**

Arcturus Sonora RA 1 Tubes (ARCTURUS TYPE 28)



Genuine Arcturus tube made especially for Sonora Radio sets. Has a 15 volt indirectly heated cathode. For all R.F. and A.F. amplification.

Cat. No. 3620

Your Price **45c** Each
In Lots of 10, 33c each

John E. Fast 2 Mfd Filter Condenser

Mounted in a metal case with provision for lead connecting leads. Rated at 150 Volt D.C. 1 rate. 1/2" dial, with common terminal.



Cat. No. 3621
Your Price **29c**

Lincoln Gothic Clock



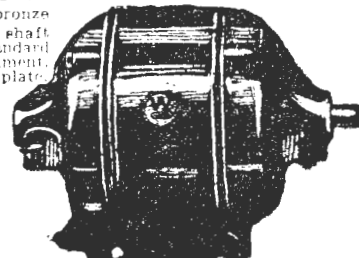
A dainty Gothic model electric clock. Finished in pebbled case of walnut bakelite, silver dial. Full sweep second hand. For the desk, mantle, table or boudoir.

Cat. No. 3622 List \$8.25
Your Price **\$3.75**

WESTINGHOUSE A. C. MOTORS

1/4 Horsepower motors for single phase, 60 cycle 220 volt supply. Rotates at speed of 1800 R.P.M. Self-starting. Attains full speed instantly. Long life bronze bearings. Has 3/8" shaft to take any standard pulley or attachment. Enclosed terminal plate. Does not require special starting apparatus. Enclosed in black steel frame. Will not set up interfering noises of any kind to interfere with radio reception. Shpg. wt., 35 lbs.
Cat. No. 3624

Genuine Westinghouse



List \$37.50

YOUR PRICE

\$5.95

LIMITED QUANTITY

SIEMENS ACCURATE RESISTORS



These resistors are accurate to within 1% and rated at two watts. Can be used for meter multipliers, shunts or wherever a very accurate resistor is needed. Available in sizes ranging from 100 ohms to 10 megohms.

Cat. No. 3625

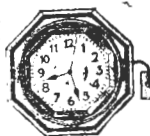
List \$2.50

Your Price **50c** Each

In Lots of 10 or More, 45c each

Lincoln Kitchen Clock

Will dress up any kitchen. Positive necessity in the home. Decorated with porcelain with square dial. Full sweep second hand. Colors: Blue, Green, Ivory.

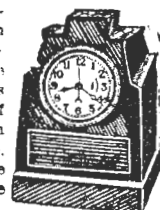


Cat. No. 3626 List \$5.50

Your Price **\$2.95**

New Lincoln Electric Alarm Clock

An ideal bedroom clock in a futuristic design bakelite case. Alarm is set and shut off by a switch in side of case. Very effective pleasing tone alarm.



Cat. No. 3627 List \$3.50

Your Price **\$4.95**

PENTODE POWER TRANSFORMER

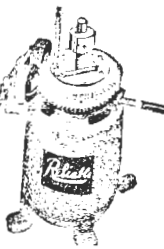
An unshielded transformer for pentode, 245 and Loftin White circuits. Has a 2 1/2 volt winding at 3 amps, 2 1/2 volts at 9 1/2 amps, 800 volt center tapped secondary and 5 volt 2 amp winding for 280. The primary is tapped for operation on 100, 110, 120 and 130 volt line. Makes an ideal replacement transformer. All leads are brought out to a terminal strip, marked for connection.



Cat. No. 3618 Your Price **\$1.65**

RELIABLE PHONIC TELEVISION MOTOR

The latest television drive. Used to drive the disc or drum in exact step with the transmitter. This phonic wheel has two lead pins fixed from the transmitter motor housing. The motor running at exact constant speed at all times. Insures rotation at exact speed of 900 R.P.M. regardless of voltage fluctuation. For Baird or Jenkins systems. State type desired. For 110 volt 60 cycle A.C.



Cat. No. 3623

Your Price **\$12.75**

PILOT LITES



Standard Pilot Lite replacements, 6 volts, 3 1/2 volts, and 2 1/2 volt sizes.

Cat. No. 3628

Your Price **55c** Per box
Price **of 10**
\$5.25 Per 100

FUSES

Standard Edison Screw fuses. Packed 5 to a box. 10, 20, 25, 30 ampere.



Cat. No. 3629
Your Price **\$1.10** Per
Price **50**

110-Volt Pilot Light Candelabra Base

Clear and Amber colors.
Cat. No. 3630



YOUR PRICE **\$1.97**
box of 25
Singly 9c each

Flashlight Lamps

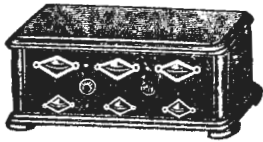
Miniature Base. In clear and opal glass. 2 1/4 and 3 1/2 volt sizes.



Cat. No. 3631
Your Price **29c** box
Price **of 10**
\$2.45 carton of 100

Remarkable Values In Battery Operated Sets

GREBE SYNCHRO-PHASE RECEIVER

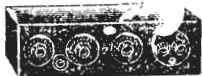


This receiver is one of the finest battery sets on the market today. Superior design and craftsmanship throughout. Uses famous Litz-wound binocular coils producing utmost sensitivity and selectivity. Single dial control with optional vernier dial control for each R.F. stage. Five point tone control switch. Few battery sets have this important feature. Tremendous volume and fidelity of tone because of large size audio transformers. Protective fuse lamp safeguards circuit. Shpg. wt. 49 lbs.

Cat. No. 3193

Your Price
\$12.75

ATWATER KENT MODEL 20



Five 201A tubes are used in this sensitive and selective tuned R.F. receiver. The panel is ornate, finished in flat brown. Switch permits local or long distance reception. Patents for its reception of long distance stations due to its separately tuned R.F. stages. One of the most popular sets made by Atwater Kent. Shpg. wt. 29 lbs.

Cat. No. 3190

Your Price
\$9.65

SPECIAL ANNOUNCEMENT!

We Have Made Arrangements with the

Radio Technical Service Bureau

to furnish our customers with radio information of any kind. This includes answers to questions, circuit diagrams of commercial receivers, diagrams of special receivers you may want to build from parts shown in this catalog, etc. Special attention will be given to our customers.

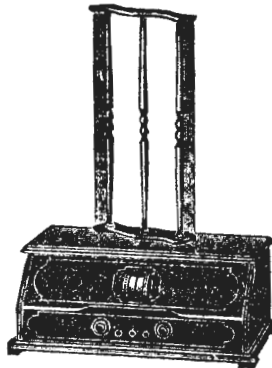
The Radio Technical Service Bureau is headed by Mr. Alfred A. Ghirardi, E.E., formerly Technical Consultant for the Pilot Radio & Tube Corp., and Associate Editor of Radio Design Magazine. Mr. Ghirardi is well known as consulting engineer, writer and teacher. He is the author of the famous Radio Physics Course textbook on radio. Rates for information, diagrams, etc., will be furnished free of charge upon application to the

RADIO TECHNICAL SERVICE BUREAU

36 R. Stuyvesant St.
New York, N. Y.

The rates for this service are very reasonable and you will find it profitable to make use of it. The correct answer to some puzzling problem may save you many dollars and loss of time. Write now!

RADIOLA 25 SUPERHETERODYNE



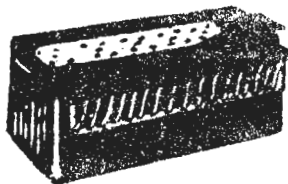
The most sensitive and selective receiver of its kind today. A second harmonic super with 10 K.C. separation. Distant stations come in like locals. No outside aerial is necessary. The set is tuned by means of the two drum dials which can be operated as a single control. Stations can be located directly on the scale of the dial. Small black center knob controls a novel multiple switch which brings into play either one or two stages of audio frequency. Headphones may be used by plugging into the panel jacks. Cabinet of two-tone mahogany veneer completely houses the chassis and all dry batteries. Loop operated with five UX199 and one UX120 power tube. Set supplied with loop aerial. Overall dimensions are 28x19x12 inches high. Shpg. wt. 55 lbs.

Cat. No. 3402

Your Price

\$7.85

SUPERHETERODYNE CATACOMB REPLACEMENTS



Have you a Radiola, Brunswick or Victor Super lying in some corner because of a defective "cat"? No need at all for this. Bring it out and dust it off, for here is a chance to get genuine replacement catacombs for your defective sets. Both 6 and 8 tube panels. Also ideal for use in an intermediate frequency amplifier in long and short wave superhet receivers. Shpg. wt. 3 lbs.

AR 810, AR 812, 24, 26

Cat. No. 3486

Your Price
\$4.45

8-Tube Catacomb for use in Radiola 25

Cat. No. 3487

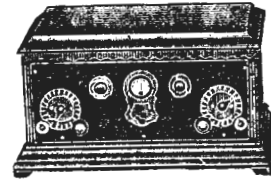
Your Price
\$4.45

8-Tube Catacomb for use in Radiola 28

Cat. No. 3488

Your Price
\$4.75

STROMBERG-CARLSON TREASURE CHEST



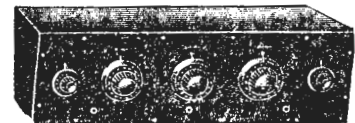
MODEL
601

The world-famous neutrodyne receiver offered at a fraction of the manufacturing cost. No expense was spared when these sets were built. Has three tuned R.F. stages and a tuned detector. Every stage is individually shielded. Develops tremendous gain due to the carefully designed R.F. stages. Real Stromberg tone. Weston filament meter on front panel protects against excessive battery voltage. Antenna switch permits use of any length aerial without changing tuning. Straight-line tuning spreads stations over entire dial. So powerfully and substantially constructed that a loop aerial can be used in place of the usual aerial system. S.C. output filter protects the speaker against burnout and blasting. Uses five 201A tubes and a power tube, either 112A or 171A. Shpg. wt. 75 lbs.

Cat. No. 3491

Your Price
\$24.85

FREED-EISEMANN N. R. 5 NEUTRODYNE



The most famous of all Freed-Eisemann neutrodyne. Ideal for long distance reception. Each R.F. stage is under perfect control. Jacks on panel used to plug in phones for "DX" reception. Large audio transformers give fine reproduction. Uses five 201A's or four 201A's and a 112A or 171A power tube. A perfectly balanced receiver. Shpg. wt. 30 lbs.

Cat. No. 3480

Your Price
\$5.25

FREE!

With every purchase of two or more radio sets featured on this page

A Complete Set of Matched Tubes

will be given absolutely free of charge. This offer is made to carry out a policy of giving the most for every dollar spent for our merchandise. Take advantage of this generous offer now.

WARE MODEL T

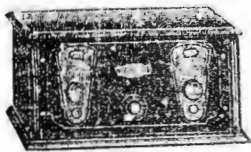


Your Price **\$4.25**

The famous reflexed neutrodyne receiver. Operates a loud speaker on three UV199 tubes. Space for batteries in cabinet. Two-dial control. Original list price was \$65.00. Measures 14" long by 13" deep. The ideal set where space is an important factor. Shpg. wt. 16 lbs.

Cat. No. 3082

FREED-EISEMAN Model 30

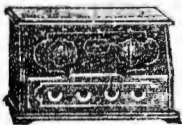


Your Price **\$8.75**

This Model 30 Freed Eiseman receiver is licensed under Latour patents. Uses 6 tubes, 5 201A tubes and a 171A or 112A power tube. Two-dial control with antenna trimmer. Totally shielded with non-microphonic clips for detector tube. Extremely selective and sensitive. Shpg. wt. 25 lbs.

Cat. No. 3084

RADIOLA 20 *

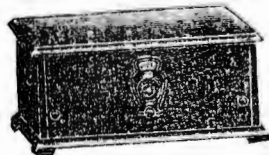


Your Price **\$12.50**

One of the finest battery receivers ever made. A General Electric product. Neutralized T.R.F. receiver with a regenerative detector. Uses 4 UX199's and a 120 power tube. Exceptionally fine for distance reception. Provision for long and short antenna connection. Verniers on both tuning and regeneration controls. Shpg. wt. 35 lbs.

Cat. No. 3083

Freshman Masterpiece* Type E

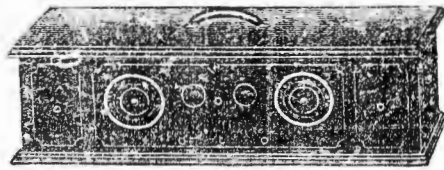


Your Price **\$11.75**

One-dial control receiver. Has a control for distance reception and a combined on-off switch and volume control. Oversize audio frequency transformers insure faithful reproduction. The tube sub-panel is sponge rubber mounted to absorb vibrations from reaching the tubes. Has three R.F. tuned stages. Uses 5 201A's and a 112A or 171A power tube. Measures 20" by 10" by 10". Housed in a walnut cabinet, with metal front panel. Window type dial. Shpg. wt. 30 lbs.

Cat. No. 3087

SEMI-PORTABLE SUPER-HETERODYNE AR-812



Your Price **\$8.75**

This semi-portable super uses 6 UV199 tubes. No antenna is needed as it has a built-in loop. End compartments provide space for the batteries. The catacomb assembly makes a fine intermediate frequency amplifier for a short wave super-heterodyne receiver. Just the receiver to use for the car, camp or boat. Shpg. wt. 30 lbs.

Cat. No. 3086

Atwater Kent Model 35* In Metal Cabinet



Your Price **\$11.75**

Perhaps the most popular A. K. receiver ever built. This is an ideal receiver for use in automobile installation. Small sized metal cabinet measuring only 17 1/2" by 8" by 5 1/2" allows it to be placed almost anywhere. Full visioned single-dial control. Uses a very sensitive high gain tuned R.F. circuit. The input stage is untuned allowing for perfect results over the entire dial scale. Receiver uses 5 201A's and 1 112A or 171A power tube. A distinct buy. Shpg. wt. 16 lbs.

Cat. No. 3085

SUPER-HETERODYNE RADIOLA 28



Cat. No. 3088

Your Price **\$17.50**

The Radiola 28 is a second harmonic "Super" using a tuned R.F. stage ahead of the first detector. A double drum dial control assures ease of operation. Revolving loop gives maximum selectivity possible. The eight-tube catacomb assembly may be used as an intermediate amplifier for short wave superhets. All batteries are placed in compartment below the receiver specially built for them. Access to this is obtained by raising the receiver on its hinges. Uses 7 UX199's and 1 UX120 power tube. One of the most sensitive receivers ever built by R.C.A. Shpg. wt. 75 lbs.

BARGAINS IN BATTERY SETS

The sets described on these pages are battery sets which were used as floor and demonstration models in the large radio and department stores in New York City and the vicinity. Most of these sets can be easily electrified by any of the A and B combinations described in this catalog, while others can be easily adapted for the use of the new two-volt battery tubes. These sets offer great possibilities to the progressive dealers, as there is a large demand for battery receivers for use at bungalows, camps, automobiles, motor boats, etc.

We do not sell these sets as brand new, but every receiver is tested and put in perfect electrical condition before it leaves our plant. The prices quoted do not include tubes or accessories. On this special sale we cannot exchange or accept returned sets for credit.

THE NEW SIX-VOLT TUBES

The latest type tubes announced are the types '36, '37, and '38. These tubes are designed to operate from a six volt storage battery. The 236 is a screen grid, the 237 is a general purpose and the 238, a power Pentode output tube. These tubes can be adapted to many of these battery sets by a small wiring job. Besides being more efficient, they will give increased volume and power. These tubes can be operated in series for operation from the 110 D.C. line. Below are the characteristics of the tubes.

The bases are of the UY type. They resemble the 224 and 227 excepting that the glass envelopes are smaller.

Type	'36 Screen Grid	'37 General Purpose	'38 Pentode
Heater Volts	6.3 volts	6.3	6.3
Heater Current .....	.3 amp	.3 amp	.3 amp
Plate Volts	135	135	135
Screen Volts	75	—	135
Grid Bias	—1.5	—9	—13.5
Plate Current	3.5 ma	4.5 ma	8ma
Plate Resistance	250,000 ohms	10,000 ohms	110,000 ohms
Amp Factor	275	9	100
Mutual Cond	1.100	900	900
Undistorted Output	—	74 mw	875 mw
Screen Current	Not over 1-3 of plate current	—	2.5 ma

*Note all sets marked * can use the latest 2-volt tube without any wiring changes whatsoever.

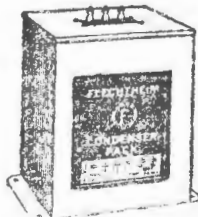
Superior Midget Condensers



These condensers are widely used as grid condensers, plate bypassing, for impedance and resistance coupling. Small in size, measuring 1 1/4" x 1". Will withstand voltages to 500 D.C. Power factor and radio frequency loss very low.

Cat. No.	Capacity	Working Vol.	List Price	Your Price
3105	.0001, .0002, .00025, .0005	40c		23c
3106	.001, .002, .004	45c		26c
3107	.005 mfd.	50c		29c
3108	.006 mfd.	55c		32c
3109	.01 mfd.	60c		35c
3110	.02 mfd.	65c		38c
3111	.05 mfd.	75c		43c

Superior Condenser Blocks



These blocks are unconditionally guaranteed, and will give satisfactory service in power packs over exceptionally long periods of time.

Cat. No.	Used For	Capacity	Working Vol.	Your Price
3112	171	0.2-2-8-1-1	650 D.C.	\$5.82
3113	245	0.2-2-2-0-1-1-1-4	800 D.C.	\$9.26
3114	210	0.2-2-2-1-1-1	650 D.C.	\$8.73
3115	250	0.2-1-4	1000 D.C.	\$13.23

R.C.A. Faradon Condenser Sections

These unmounted condenser units were made by the Faradon Condenser Corp. for R.C.A.-Victor Co. All are rated at 650 volts D.C., working voltage. Flash tested at 2700 volts.

Cat. No.	Capacity	Working Vol.	List Price	Your Price
3190	.1 mfd.			18c
3191	.25 mfd.			20c
3192	.5 mfd.			22c
3193	1. mfd.			30c
3194	2. mfd.			45c
3195	4. mfd.			75c

10% Discount in Lots of 20 or More

FLECHTHEIM SUPERIOR CONDENSERS

1,000-volt Type HSM Filter Condenser

The very latest in high voltage condensers. Rated at 1,000 volts D. C. 660 volts rms R.A.C. Special construction makes them light in weight and small in size. Mounted in metal container with fork type terminals for easy connection. Non-inductive type winding.



Cat. No.	Type HSM	Mfd.	List	Your Price
3196	5	.05	1.10	.79
3197	10	.1	1.20	.82
3198	25	.25	1.30	.85
3199	50	.5	1.40	.89
3201	200	2.	3.00	.95
3200	100	1.	2.00	1.65
3202	400	4.	4.00	3.25

Non-Inductive By-Pass and Filter Condensers—Metal Cased

These condensers are mounted in neat metal cases with tuned lugs for easy soldering. The filter condensers are rated for continuous use on 400 volt D. C. and 220 rms A. C. Ideal for midgets.



Cat. No.	Type	Mfd.	List Price	Your Price
3203	GF 10	.1 mfd.	List Price 50c	26c
3204	GF 25	.25 mfd.	List Price 55c	28c
3205	GF 50	.5 mfd.	List Price 65c	35c
3206	GF 100	1. mfd.	List Price 95c	49c
3207	GF 200	2. mfd.	List Price \$1.45	78c
3208	GF 400	4. mfd.	List Price \$2.70	\$1.45

The bypass condensers are rated for continuous use at 200 volts D.C. or 120 rms. A.C.

Cat. No.	Type	Mfd.	List Price	Your Price
3209	GB 10	.1 mfd.	List Price 40c	19c
3210	GB 25	.25 mfd.	List Price 45c	25c
3211	GB 50	.5 mfd.	List Price 50c	27c
3212	GB 100	1. mfd.	List Price 70c	33c
3213	GB 200	2. mfd.	List Price \$1.20	63c
3214	GB 400	4. mfd.	List Price \$2.10	\$1.05

Non-Inductive Filter Condensers Uncased

This condenser is recommended for use in all circuits employing type 45 tubes. Rated at 800 volts D. C. (440 rms A. C.). Designed to withstand extreme temperature changes and heavy duty service.



Cat. No.	Type NU	Mfd.	List	Your Price
3215	10	.1	.50	.27
3216	25	.25	.55	.30
3217	50	.5	.65	.33
3218	100	1.	.95	.51
3219	200	2.	1.40	.75
3220	400	4.	2.50	1.35

A Filter Condensers

High capacity, low voltage filter condensers. Electrolytic of the dry type, can be used in all "A" eliminators or speaker filters.



Cat. No.	Mfd.	V.D.C.	List	Your Price
3221	1,000	12	5.75	3.38
3222	2,000	18	6.25	3.67
3223	4,000	12	8.75	5.14

High Tension Transmitting Condensers



More Flechtheim condensers are used in transmitters throughout the world than any other type. TYPE TC for use on 1,000 volts D. C. (750 rms. R. A. C.).

Cat. No.	Mfd.	List	Your Price	
3224	TC100	1.	2.75	2.21
3225	TC200	2.	6.50	3.83
3226	TC400	4.	11.00	6.47

TYPE T for use on 1,500 volts D. C. (1,000 rms. R. A. C.).

Cat. No.	Mfd.	List	Your Price	
3227	T100	1.	4.50	2.64
3228	T200	2.	8.50	5.00
3229	T400	4.	14.50	8.52

Write for prices on 2,000, 3,000, 5,000 and 7,000-volt condensers.

Faradon Condenser Blocks



These blocks were made by Faradon. Equipped with mounting brackets. The 12 mfd. size is for use with 245 packs. Rated at 600 volts D. C.; 300 volts A. C. Flash test 1,200 volts D. C. Measures 5"x5"x3 1/4". Has taps at B, B, and 2 mfd.

Cat. No.	Capacity	Working Vol.	Your Price
3230	12 mfd.	600 V. D.C.	\$1.95

The 7 mfd. unit is similar in appearance to the 12 mfd. Measures 5"x3 1/4"x1". Equipped with mounting brackets. Rated at 300 volt D. C., 150 volts A. C. Flash test 600 V. For 171 packs. Tapped 3, 3, 1 mfd. sections.

Cat. No.	Your Price
3231	7

AEROVOX

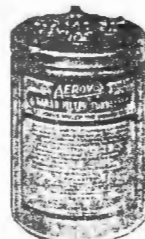
BUILT BETTER
CONDENSERS AND RESISTORS

AEROVOX DRY ELECTROLYTICS SELF HEALING ABSOLUTELY DRY

500 VOLTS D.C. PEAK



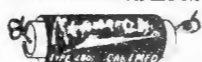
The AeroVox Hi-Farad electrolytic condensers are the latest development in Radio. They can be used wherever any high-grade paper condenser or block is used. Can be mounted in any position without any likelihood of spilling or leakage, with the resultant saving of much space due to their high capacity. They are constructed for all practical purposes and can be handled in the same manner and with more safety than paper filter condensers, due to the self-healing and high D.C. operating voltage characteristics. The 500 VOLTS D.C. PEAK permits their use in most of the standard high power supply units, receivers, transmitters, power amplifiers and replacements in "B" eliminators. The ideal high-capacity, high-voltage, self-healing condenser that is absolutely dry. Equipped with mounting brackets and available in any type or combination.



Cat. No.	Type	Total Mfda.	Your Price
8707	E5-1	1	59c
8708	E5-2	3	70c
8709	E5-4	4	88c
8710	E5-8	8	\$1.18

Cat. No.	Type	Total Mfda.	Your Price
8111	E5-33	16	\$2.23
8713	E5-333	24	\$3.15
8713	E5-3333	32	\$3.68
8714	E5-243	14	\$2.65

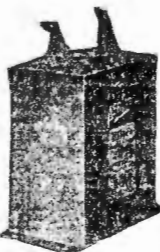
COMPACT TYPE CONDENSERS



These condensers are non-inductively wound and are thoroughly impregnated. They are provided with tinned soldering leads. They are ideal for use in all radio and audio frequency bypassing circuits, as coupling condensers, isolating condensers or for any purpose where a compact high insulation resistance condenser is required. Type 480 are rated at 400 volts D.C.

Cat. No.	Cap.	Type	Your Price
2179	.006 mfd.	480-400 v.	15c
2180	.01 mfd.	480-400 v.	15c
2181	.02 mfd.	480-400 v.	15c
2182	.05 mfd.	480-400 v.	17c
2183	.1 mfd.	480-400 v.	19c
2184	.25 mfd.	280-200 v.	20c

AEROVOX HIGH VOLTAGE SOCKET POWER FILTER CONDENSERS



All condensers are non-inductively wound, thoroughly impregnated, sealed in metal cans and provided with convenient terminals for wiring. They are very conservatively rated and have a high factor of safety for safe operation at much more than their rated voltages (with terminal leads).

Type	Mfd.	D.C. Volt.	List Price	Your Price
602	1	600	\$2.75	\$1.62
602	2	600	4.60	2.36
602	4	600	7.25	4.27
802	1	800	3.50	2.04
802	2	800	5.25	3.09
802	4	800	9.75	5.75
1002	1	1000	4.25	2.50
1002	2	1000	7.25	4.41
1002	4	1000	14.00	8.24

High Voltage Transmitting Condensers with (Porcelain Terminals)

Type	Mfd.	D.C. Volt.	List Price	Your Price
1003	1	1000	\$4.50	\$2.65
1003	2	1000	8.00	4.70
1503	1	1500	7.50	4.41
2003	1	2000	12.50	7.33
3503	1	2500	15.00	8.82
303	1	3000	19.00	11.17
3503	1	3500	22.00	12.93

LAVITE RESISTORS



High current carrying resistors. Will fit any standard grid leak mounting.

Resistance: 1,000 to 500,000
Cat. No. 8728

Your Price **58c**

EDISON BASE RESISTORS

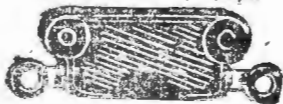


50 Watt
From 2 ohms to 1,000 ohms.
Cat. No. 8724 List \$1.50

Your Price **88c**

MOULDED BAKELITE CONDENSERS

Manufacturer's Type



Cap.	Your Price	Your Price
.0004	22c	
.0005		27c
.0007		30c
.00075		45c
.001		72c
.0015		\$1.20
.002	18c	
.0025		
.003		
.0035		
.004		
.005		
.006		
.01		
.015		
.02		

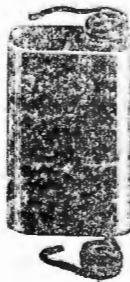


IGRAD MIDGET CONDENSERS

Small Tight-Impregnated-Tinned Iuga. Factory tested at 1500 volts—Can be used for continuous operation at 1000 volts. All brand new and perfect.

Cat. No.	Cap.	List Price	Your Price
8715	.00025	.85	8c
8716	.005	.40	9c
8717	.002	.35	10c
8718	.006	.45	10c
8719	.01	.55	12c
8720	.025	.75	15c
8721	.05	.85	15c
8722	.1	1.00	20c

RELIABLE HIGH VOLTAGE UNCASSED SURGE PROOF CONDENSERS



An excellent surge-proof high voltage condenser for all repair or construction. Dipped and coated with impregnating compound of high quality making for good insulating and moisture-proof qualities. Long leads, 600 VOLTS D.C. WORKING VOLTAGE. Keep several in your kit for handy use.

Cat. No.	Type	Your Price
8697	¼ mfd.	15c
8698	½ mfd.	20c
8699	1 mfd.	27c
8700	2 mfd.	35c
8701	4 mfd.	65c

In lots of 12 or more deduct 10%

HIGH VOLTAGE CASSED CONDENSERS

Here is a very high grade filter condenser for all general or special purposes. A 650 VOLT CONDENSER, carefully wound, fully impregnated in a neat cardboard case. Will stand up under the most extreme conditions and give perfect satisfaction. Once installed you can forget about these wonderful condensers.

Cat. No.	Type	Your Price
8702	¼ mfd.	30c
8703	½ mfd.	39c
8704	1 mfd.	52c
8705	2 mfd.	69c
8706	4 mfd.	\$1.25

In Lots of 12 or More—10% Discount Off Above Prices



All Replacements For All Receivers

We can supply replacements for almost every receiver made, whether it be power transformer, audio transformer, condenser, and blocks, resistors or volume controls. All we need know is the type set, serial number, model number, part needed, whether it is shielded or fits into a can. Just give us sufficient information and you will receive the replacement part identical to the one that is to be replaced as to size, capacity, voltage, and resistance. Once installed, our replacement parts do not have to be replaced. They are built to last and give entire perfect satisfaction. If you are in need of



any part for some special purpose, send us detailed information of electric and mechanical characteristics. We are equipped to furnish you with that part, without delay. All our replacement parts are sold far below the manufacturer's net price, enabling you to obtain a good price and good profit. Our parts are guaranteed. Just tell us what you need and for what purpose, we will do the rest. Our staff of radio engineers stand ready to aid and assist you in any difficulties that may confront you in your daily endeavors. Call upon them for help when necessary.

Name of Set and Model	Price Condenser	Price Transformer	Name of Set and Model	Price Condenser	Price Transformer	Name of Set and Model	Price Condenser	Price Transformer	Name of Set and Model	Price Condenser	Price Transformer
A.C. Dayton Co. A. C. 63	\$7.00	5.25	Columbia-Kolster	4.00		G 60S, 25 cycle	6.25		Sentinel B & C	6.75	
Acme Elec. Co. AC7		4.50	C1-C3	3.50	4.50	K & K60S	5.00	4.50	Elm	4.50	
All-American Mohawk A-10	5.00	3.75	C2-C4	3.25	4.50	Equaphase-			Silver-Marshall	6.25	
F Type	5.00	2.00	930		4.50	Arcturus	5.50	6.75	A B C 850	6.00	
1 A-B Eliminator	4.50		C-5	6.00	7.00	Garod EA	5.50	6.75		8.00	
96 Transformer			C-6	4.50		EA	5.00	6.75		5.00	
D (Lyric)	6.75		901	7.50		General Motor				6.00	
Amrad AC7	4.50		950	7.00		85077 5090	4.50	6.75		9.75	
81	6.75		S G R	5.50		Model A				8.00	
Apex				5.50		Gould-Uni PWR	7.50			8.00	
36, 25 cycle	4.75			5.50		ABC 185	7.50		83A-84A-85A	4.00	6.75
36, 60 cycle	4.50	6.75		6.25		Grebe A C 6	7.50	4.50	Sonora B30-81	2.15	6.75
37, 60 cycle	4.50			5.50		Green-Brown A	3.75		Sparton A C 5	5.00	
41, 60 cycle	5.00	6.75		6.25		High Power B	4.00		AC 7-62-63	4.75	4.50
46, 60 cycle	4.50	6.75		5.50		B Super	4.25		930	4.00	7.00
Arbophone 45	5.00	4.50	Crosley	2.50		109			109	8.00	9.00
55	4.50			1.25		391			391	6.00	6.25
Argus Elec. 101-210, contains choke	6.25		80S-33S-	2.75	6.75	931			69-79A	2.75	6.25
Atwater Kent 36	6.00	4.50	84S-82S	2.75	6.75	69-79A			60 cycle	4.75	5.25
37-38 Inc			81S-40S-	2.75	6.75	60-79A			25 cycle	5.50	
chokes	4.00	3.00	41S-42S	2.75	6.75	Splitdorf-Abbey	6.40		171-7 tube	4.50	4.50
40-42-52 Pack	10.00		Buddy & Chum	2.10	5.00	761	2.00		Steinite 50	7.50	9.00
40-42-43-44-52	4.50	6.75	610-600-704A-	2.10	4.50	Steinite 50	5.00	7.00	40A-45-60	5.00	5.00
55-65C	6.75		41-42A	2.75	4.50	70A	5.00	7.00	70A	4.75	6.25
46	5.00		706-708	2.75	4.50	991-902-903	6.75	7.00	281	3.00	4.50
37 Cond only	2.00		704B	2.75	4.50	40C	6.75	7.00	40C	5.50	7.00
40 Cond only	2.00		AC7-AC7C	2.75		12	6.75		88	6.00	6.75
By Pass	.85		Day-Fan	6.00		88	6.75		Sterling A Cond	4.00	
By Pass	.75		Earl 21-22	4.75	4.50	Stewart A Cond	4.50		Stewart-Warner	4.50	
41 DC	6.00		31-32	4.75	6.75	Mal. Pack	4.25		530 Sterilug	5.00	6.75
Comp Pack	5.50		41-42	5.00	6.75	950-900	6.75		Stromberg-Carlson	6.75	
Audiola	5.50		78	5.00	6.75	641-652-654	6.50	5.00	641-652-654	5.00	6.75
Balkitt			21-22, 25 cycle	5.00		Temple	3.25	5.00	860-880-890	6.00	6.75
Eliminators			Edison	6.00	7.50	761	2.00	3.50	761	4.50	7.00
D	5.00		R4-R5-C4	6.00	7.50	Tube A	2.00	3.50	Victor 32-45-75	5.50	7.00
W	4.50		Elkon A Cond.	1.75		32-45-75	3.50	8.50	Willard B Elm	6.50	
C	4.00	6.75	Eveready 50	5.50	6.75	25 cy.	4.00	7.00	25 cy.	4.00	
F	6.00	6.75	Exide Willard	5.25		60 cy.	6.00	7.00	60 cy.	6.00	
Bosch	7.50		Elm., 60 cycle	5.25		Zenith ZEP-			11E-14E	3.50	6.75
Little 6	5.00	4.50	25 cycle	6.75		50-51-52-60	1.75		By Pass	2.75	7.00
28 Cond-Choke	4.50	7.50	Fada ABC	1.50		50-51-52-60	2.75		ZE 10-13	4.00	5.00
29-825 Pack	5.00	10.00	A Cond	5.00	7.50	ZE 3	3.75	5.25	ZE 3	6.00	5.00
501-502-503	4.25	3.75	ABC B Cond	5.00	7.00	ZE 6	10.00		ZE 6	6.00	6.50
48	4.50		10-11-16-17-	0.00	7.00	ZE 18	6.00	6.50	ZE 18	6.00	6.50
Braeh A			20-31-32	4.25		ZE 11-12-14-			ZE 11-12-14-		
Eliminator	3.50		K	4.25		15-16	7.00		15-16	7.00	12.00
Brandes B-10	4.00		25	4.00	6.75	ZE 17	7.00		ZE 17	7.00	12.00
B-15, 16	3.50		35	5.00	7.00	ZE 8	6.00		ZE 8	6.00	12.00
Bremer-Tully	5.00		E420-50-70-	5.50	7.00	ZE 8	4.25		ZE 8	4.25	7.00
8-20A, 8-21A	5.50		71-75-77	5.50	5.00	Z 70 (uses 2)	1.75	7.00	Z 70 (uses 2)	1.75	7.00
6-40	5.50	6.00	E180	5.50	5.00	Z 70 (uses 1)	2.10	7.00	Z 70 (uses 1)	2.10	7.00
7-70, 7-71	4.50		Farrand B	4.00	3.75						
Browning-			Eliminator	4.00	3.75						
Drake MB30	6.75		D-E-F-G	2.50	4.50						
69-70-71	6.75		H	2.50	4.50						
Brunswick			K	2.00	5.00						
5 K R O	4.50		Buffer-2	1.50							
3-KR0, R1,			Freed-Eiseman	4.00	4.50						
5KR6, 5-KR	4.50		NR 60	4.00	4.50						
81-82 (Pann-			NR 57-457	4.00	4.50						
trophe) S31	6.75		NR 67	5.00	4.50						
5, 14, 821,			NR 70-470	6.00	7.50						
B.T.S., 81S, 82	6.75		NR 80 DC	2.50							
15-22	6.75		NR 60-								
Huckingham	5.00		FE4-DC	2.50							
Electrolytic	2.10		NR 80 AC	4.00	4.50						
Bush & Lane			00 SAC	6.75	6.75						
12 SG	6.75		NR 95 AC	4.75							
Colonial	10.00		Freed 55-58	5.00							
31	2.25	4.50	78	5.00							
32	2.25	6.75	41	5.00							
33-34-35	2.15	6.75	Freshman								
			Polydyne								
			QD15-16-16	5.00	7.00						
			N11-2N12-								
			Poly. 250	6.00	7.00						
			M12-M60S-171	4.50	7.00						
			G 60S, 60 cycle	5.50	4.50						

Our Parts Are Guaranteed

Reliable PRODUCTS

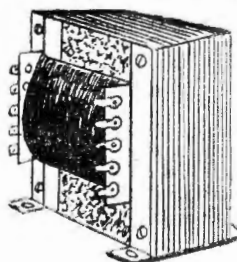
RELIABLE POWER TRANSFORMER FOR UNIVERSAL REPLACEMENT PURPOSES

FULLY GUARANTEED

The transformers listed below will replace the transformers in 99% of the receivers in use today. They are absolutely brand new—made of the finest quality merchandise and guaranteed to give uninterrupted service for one year from date of sale. Conservatively rated. Universal mounting brackets allow them to be mounted with little trouble. Long thinned soldering lugs permit easy installation. Electrostatic shields which are grounded makes it possible to mount them close to the other parts in the receiver. A wiring diagram is furnished with each transformer. Dealers and Service Men should stock a stock so as to be prepared for future service calls, and to avoid delay on repair and service jobs.

We Will Allow a 5% Extra Discount on Orders for Six or More Assorted Transformers

Type 245 Power Transformers



For replacement in sets or power packs using up to 6 or 7 227's, 231's, 251's or 224's, 1 or 2 245's, or 247's and a 280. Rating 350-CT-350 volt 125 mls. 5 volts 2 amps, 2½ volt 13 amps C.T. Can be used for replacement in the following or in any radio using the above tube combinations. Measures 4½"x3¼"x3".

Cat. No. 3077. List \$9.50

Your Price **\$3.95**

All American Mohawk Model 96, D. Lytle	
American Bosch..... Model 48, 58, 60	
Amrad..... Model 81	
Atwater Kent..... Model 55, 55C	
Balkite..... Model CF	
Browning Drake..... Model MB30, 69, 70, 71	
Brunswick..... Model 81, 82, 8-31, 81-S, 82, 15, 22	
Bush and Lane..... Model 128G	
Colonial..... Model 32AC	
Columbia Phono. Co..... Model SG-8	
Crosley..... Model 308, 318, 338, 348, 408, 418, 425, 82	
Fada..... Model 25, 25Z, 35, 35Z, 40	
Freal Elsemann..... Model 908AC, NR95, AC	
Freshman..... Model 41, 318, 328, 338AC, 31AC, 32AC, 41AC	
General Motors..... Model "A"	
Gillilian..... Model 100	
Grebe..... Model SK1	
Grigsby Grunow..... Model 100, 90B, 100B, 130A, 230A	
Howard..... Model 86A	
Kellogg..... Model 623, 526	
Kennedy..... Model 20	
King..... Monarch Model	
Kolster..... Model 930, K43	
Montgomery Ward	
2822, 2927, 2805, 2897, 3035, 3037, 3065, 3067, 2955, 2957	
National Carbon..... Model 40	
Pilot..... Model K113, Twin 548	
RCA Radiola..... Model 15, 47, 66	
Silver Marshall..... Model 33A, 34A, 35A	
Sonora..... Model B31	
Stewart Warner..... Model 950AC, 900	
Stromberg Carlson..... Model 611, 642	
Temple..... Model 8-60, 8-80, 8-90, 8-61, 8-81, 8-91	
Transformer Corp of America..... Model AC51, 53, 55	
United Air Cleaner Corp..... Sentinel Model 660, 6660, 444	
U. S. Radio & Television	
Model Apex 48, 41, 43, 42, 44, 46, 47 (25 or 60 cy)	
Zenith	
Model 60, 61, 62, 602, 612, 622, 64, 67, 642, 572, 54, 52, 53, 70	

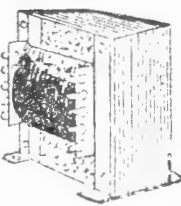
Type 171 Power Transformers

For use with receivers using 4 to 5 226's, 1-227, 2-171A's and 1-280. Voltages 300 CT, 300 at 85 mls, 5 volts 2 amps, 1½ volts 5.25 amps, 2½ volts 1.75 amps CT, 5 volts 2 amps CT. Universal mounting brackets. Measures 4"x3"x3". Can be used for replacement in the following sets or in any receiver using this combination of tubes.

Cat. No. 3078. List \$7.00

Your Price **\$3.45**

AC Dayton..... Model AC-68	
Ame Electric Co..... Model AC-7	
Amrad Corp..... Model AC-7	
Arbophone..... Model 45 and 55	
Atwater Kent..... Model 36, 37, 38, 40, 42, 43, 44, 52	
Bremner Tully..... Model B.T. 6-10, 7-10, 7-11	
Brunswick..... Model 5KR, 5KRO, 3KRO, GM, R-1	
Columbia Phono Co..... Model C1, C2, C3, C4, 930	
Crosley..... Model 608, 704B, 706, 610, 609AC, 41A, 41AC	
Charles Freshman Co..... Model G	
General Motors..... Model 5077, 5080	
Grebe..... Model 100	
Howard..... Model 8 Green Diamond	
King..... Model J, H	
Kolster..... Model 6K-AC, 7-AC	
Kolster..... Model K-20, 22, 25, 27, 37, 42	
Pilot..... Model K-108	
RCA Victor..... Model 17, 18, 24	
Radiola..... Model 17, 18, 22, 50, 51	
Spltdorf..... Model Abber 171	
Standard Radio..... Model 29	
Steinlite..... Model 291, 262	
U. S. Radio & Television..... Model 80	
Zenith..... Model 11E, 14E	

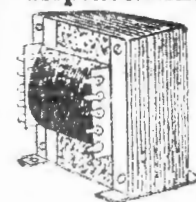


Midget Set Power Transformer Replacement

This is one of the most popular of replacement transformers as it is the replacement job for all midget and portable receivers on the market. Measures 4" x 3" x 3". Universal mounting bracket. Voltages 335 CT-335, at 65 mls, 2½ volts at 3 amperes, 2½ volts at 1½ amps, 5 volts at 2 amps. Can be used for replacement in the following receivers or any using same tube combinations.

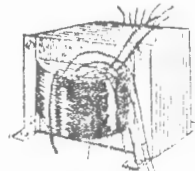
Cat. No. 3079. List \$7.00

Your Price **\$3.25**



Advance Electric Co.....	Falk Model 77-78
Atchison Radio Co.....	Tom Thumb Model
Nathaniel Baldwin, Inc.....	Baldwinette Model
Brown and Manhart.....	Ranger Model 44
Cardinal Radio Co.....	Model 70, 80
Carteret Radio Lab.....	Model AC-7, AC-8, DC-8W
Champion Radio.....	Model 82
Crosley Radio Co.....	Buddy Model
Echophone Radio Mfg. Co.....	Echophone Model
Elmore Lumber Co.....	Singer Model
Federated Purchaser.....	Melovar Cathedral-Tone Model
Film Radio Co.....	Midget
Ford Radio Co.....	Model A
J. French & Sons Piano Co.....	Junior Model
Gilbert, R. W.....	Model 69
Gray Danielson.....	Remler Cameo Model
Griffin-Smith Mfg. Co.....	Royale Model
Hyatt Electric Corp.....	Model AC-7
Jackson Bell Co.....	Model 62
Jewell Mfg. Co.....	Model M
Keller-Fuller.....	Radiette Model 14-F
Kemper Radio Co.....	Kompak Model 80
Master Radio Co.....	Master Model 424
McCormick.....	Midget Model
Mission Bell Radio.....	Mantle Model
National Transformer Co.....	Bulkett Model
Patterson Radio Corp.....	Model 5-69, 7-69
Pierce Airo, Inc.....	Dewald Model 524
Plymouth Radio Corp.....	Model 8
Powell Mfg. Co.....	Cathedral Model
Premier Electric Co.....	Home-Pal Model
Premier Radio Co.....	Midget Model
Remler Division-Gray and Danelson.....	Cameo Model 14
Republic Radio Co.....	Model 31-M, 31-J
Seeley Electric Co.....	Model 5, 6
Simplex Radio Co.....	Model H
Fred Stein.....	Model 130-C
Steinlite Mfg. Co.....	Model 410
Sterling Mfg. Co.....	Model F-1-60
Transformer Corp of America.....	Clarion Jr. Model
Traveler Mfg. Co.....	Model B
U. S. Radio & Television.....	Apex Model 27
Waltham Radio Corp.....	Model 31
Wholesale Radio Service Co.....	Lafayette Midget Model

Type 250 Power Transformers



The 250 power transformers will supply receivers using up to 8 or 9 227's or 224's, 2-250's and 2-281's. Voltages 1300 volts center tapped at 160 mls, 7½ volts 2½ amps C.T., 7½ volts 2½ amps C.T. and 2½ volts at 14 amps C.T. Universal mounting. Measures 5"x5"x4". Can be used for replacement in the following or similar receivers.

F. A. D. Andrea, Inc.....	Model 75 and 77
Atwater Kent Mfg. Co.....	Model 68
Brunswick-Balke-Gullender Co.....	Model 3 NWS
Continental Radio Corp.....	Starle 29, 29B, 29C, 29D, 250L and 350 Power Unit
Continental Radio Corp.....	Star Raider R20, R30, R40
Grigsby Grunow.....	Majestic 180, 8-PG, 8-P3
Kolster Radio Corp.....	Kolster A-45
C. R. Lentz, Inc.....	7 Seas Console
Sparks Worthington Co.....	Spartan 29A, 301 AC & ensemble
Steinlite Radio Co.....	Steinlite 50-A, 102-A
Zenith Radio Co.....	Zenith 35-P and 35-FX

Cat. No. 3081. List Price \$15.00

Your Price **\$5.50**

250-226 Model has characteristics as the above but has a 1½ volt winding at 7.5 amps in addition for 7-226 tubes.

Cat. No. 3080. List \$17.50

Your Price **\$5.95**

Radio Surplus Corporation, 54-56 Vesey Street, New York

ATWATER KENT REPLACEMENTS

A.K. 37 CONDENSER-CHOKE BLOCK (With 2 Chokes)



For replacement in Atwater Kent 37 and 38 receivers. Contains combination of 2 FILTER CHOSES, SPEAKER OUTPUT CHOKE AND 4 FILTER CONDENSERS. An exact duplicate of the original

as to size, capacities and colored leads, making for speedy replacement. Fits right into place. This compact, efficient block can be utilized to advantage in any filtering system designed for 171-A tubes. Case is of heavy gauge metal, not tin.

Cat. No. 3408
Your Price **\$2.40**

A.K. 37-38 FILTER ASSEMBLY

Composed of 4 high voltage filter condensers, pitch-dipped, forming a compact single unit. To replace defective condenser in A. K. choke block after "shot" condensers have been melted out. Makes an ideal filter assembly for any A.C. set. Contains 1-1 mfd.-450 V., 1-1 mfd.-300 V., 2-1 mfd.-300 V.



Cat. No. 3409
Your Price **\$1.45**

A.K. REPLACEMENT AUDIO TRANSFORMERS



For universal replacement in all A. K. receivers as well as any other set, especially midsets and portables. Provides tremendous distortion-free amplification. All stage ratio.

Cat. No. 3410
Your Price **60c**

PHOSPHOR-BRONZE FOR A.K. DIAL BELTS

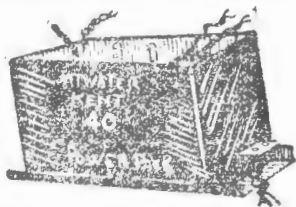
Strong flexible phosphor bronze belting for all A. K. sets. Comes 1/4 inch wide. Have several feet on hand and "Roll Your Own."

Cat. No. 3411
Your Price **7c** per ft.



ATWATER KENT POWER PACK

For 40-41, 42, 44, 52 Models

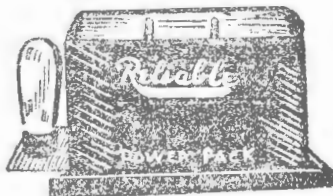


A complete replacement power-pack for use in the above models of A. K. Safe, reliable and highly efficient construction. The proper POWER TRANSFORMER AND FILTER CHOKE BLOCK impregnated in a heavy, pressed steel case. Soldering the flexible leads to the resistance and terminal strip, and to the 280 rectifier is the only work to be done in replacement. A guaranteed unit supplying all filament plate and bias voltages.

Cat. No. 3407

Your Price **\$5.45**

POWER PACK FOR A. C. CONVERSIONS



A complete power-pack which supplies filament and plate current for 4-226, 1-227, 1-171A, 1-280 type tubes and will change any Atwater Kent battery receiver into a modern electric set. Pack contains power transformer, filter chokes, filter condensers, and all necessary resistances for bias, etc. All high grade parts. Although designed for A. K. sets, can very handily be used for any other battery set. Makes a battery set modern and up-to-date at a very low price.

Cat. No. 3414

Your Price **\$7.50**

REPLACEMENT BY-PASS CONDENSERS

For A.K. Sets



For R. F. filament and plate circuit by-pass. Slightly different in construction than the original, but nevertheless a perfect replacement. Available in .1, .25, .5, 1 and 2 mfd. units.

Cat. No. 3413

Your Price **25c** each

A.K. 37 POWER TRANSFORMER

A well-constructed power transformer for Atwater Kent 37-38 model receivers. An exact duplicate of the original as to size, voltages and colored leads. Fits right into place without any changes whatever. A replacement block that can be universally used in any receiver using 4 or 5-226, 1-227, 1-171A and 1-280 type tubes. High voltage secondary 500 volts A.C. center-tapped. In a compact pressed steel attractive shield can.



Cat. No. 3408

Your Price **\$2.25**

A.K. 37 3-SECTION BY-PASS

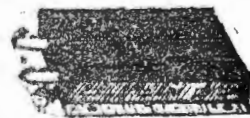


A high grade replacement condenser for by-passing the R. F. filament and plate circuit of the following Atwater Kent models: 37, 38, 40, 42, 44, and 46.

Cat. No. 3415

Your Price **95c**

A.K. SPEAKER FILTER BY-PASS



Constructed and designed to take the place of the odd-mounted output filter condenser as used in models 37, 38, 40, 44, 46. Especially well made.

Cat. No. 3410

Your Price **75c**

FLEXIBLE GRID SUPPRESSORS

These excellent guaranteed flexible resistors are the perfect replacement for all A. K. grid suppressors. Rounded, they are easily handled and installed. All sizes.

Cat. No. 3413

Your Price **\$1.00** Per Doz.

CROSLLEY REPLACEMENTS FOR ALL MODELS

Crosley Model 706 Transformer

Part No. W-5115



Genuine Crosley power transformer for replacement in model 706 receiver or any set using 4-226, 1-227, 2-171-A and 1-280 type tubes. Especially well constructed. Large, tight heavy cores for hum-free, noiseless operation. Supplies 1½ volts at 6 amps, 2½ volts at 3 amps, 5 volts at ½ amp, 5 volts at 2 amps for 280, and 500 volts high voltage center-tapped secondary. Primary tapped for high and low A.C. input voltage. An excellent transformer at this very low price. Shpg. wt., 7 lbs.

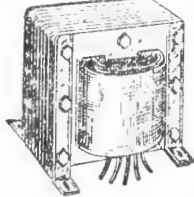
Cat. No. 3383

Your Price **\$1.35**

Power Transformers

Crosley Model 608 Transformer

Part No. W-5145



Here is another Crosley product for replacement in the 608 model receiver. This set makes use of half-wave rectification with a 280 type tube. Used in conjunction with an Electrolytic condenser and good choke, this transformer will deliver up to 220 volts at ½ amp. Also 5 volts at 2 amps for the 280. High voltage secondary delivers 250 volts A.C. For 3 or 4-226 tubes, 1 or 2 227, 1 or 2 171-A tubes. Shpg. wt., 7 lbs.

Cat. No. 3384

Your Price **\$1.10**
Half-Wave 280 Circuit Furnished On Request

Crosley Model 609-610 Transformer

Part No. W-5898



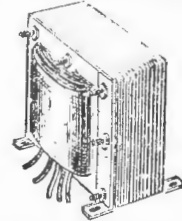
For 110 Volt, 60 Cycle A.C. Similar in construction to all Crosley power transformers. Rugged, well built, noiseless and humless. Five secondary windings supplying 1½ volts at 6 amps, 2½ volts at 3 amps, 5 volts at ½ amp, 5 volts at 2 amps and high voltage winding delivering 500 volts A.C. For 4 or 5-226 type tubes, 1 or 2 227's, 1 or 2 171-A's and 1-280 tube. Primary for 110 volts A.C. operation. Shpg. Wt., 7 lbs.

Cat. No. 3386

Your Price **\$1.15**

Crosley Model 609-610 Transformer

Part No. W-5926



For 220 Volt 60 Cycle A.C.

For replacement in Crosley models 609 and 610 "Gemchest" and "Gembox" Over-size transformer. Silicon steel core laminations, strongly bolted together for noiseless operation. For use also with any set using 4-226, 1-227, 1-171A, and 1-280 type tubes. Delivers 1½ volts at 6 amps, 2½ volts at 3 amps, 5 volts at ½ amp, for 171-A, 5 volts at 2 amp for 280, and high voltage secondary of 500 volts, center-tapped. Primary wound for 220 volt 60 cycle A.C. operation. Shpg. wt., 7 lbs.

Cat. No. 3385

Your Price **95c**

CROSLLEY POWER PACK CHOKE



Original Crosley chokes, 30 henry, 85 mils. For replacement purposes or use in any power pack or receiver. Fully shielded. Comes in neat black shield can with long flexible leads. Shpg. wt., 3 lbs.

Cat. No. 3387

Your Price **65c**

CROSLLEY DOUBLE CHOKES



A series wound double choke totalling 60 henries. Will pass 85 mils. Ideal for use in a brute force filter, and all Crosley receivers. Fully shielded in a brown metal case, with long connecting leads. Shpg. wt., 3 lbs.

Cat. No. 3388

Your Price **75c**

CROSLLEY CHOKE



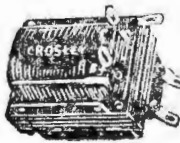
An 85 mil, 30 henry choke for Crosley receivers or any power pack. In an attractive rounded brown case. Fully shielded. Long leads. Mounting screws already fastened to base. Shpg. wt., 3 lbs.

Cat. No. 3389

Your Price **60c**

Crosley Audio Transformers

Small, compact units in black shielded cases. Ideal for replacements and use in portable and midget receivers. Excellent tone. Two Ratios — 4:1, 9:1. Shpg. wt., 1 lb.



Cat. No. 3390

Your Price **33c**

Crosley By-Pass Condensers

Excellent metal cased, long lasting condensers for by-passing plate circuits, bias resistance, etc. Accurate capacities. Handy lugs for easy soldering. Mounting tabs.

Cat. No. Capacity Your Price

3397..... 2 mfd..... 45c

3392..... 1 mfd..... 25c

3393..... ¼ mfd..... 22c

3394..... ¼ mfd..... 22c

3395..... .1 mfd..... 18c

3396..... .1 .1..... 25c

3397..... .1 .1 .5 mfd..... 45c

Less 10% In Lots of 12

MICA TYPE

Cat. No. Capacity Your Price

3399..... .002..... 85c

3400..... .006.....

3401..... .004 Per Doz.



CROSLLEY RESISTORS

Great current carrying capacity. Especially suitable for D.C. receivers. Wire wound and baked enamel, 47.7 ohms tapped at 15 ohms.

Cat. No. 3404

Your Price **35c**

140 ohms for power pack replacement.

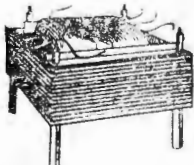
Cat. No. 3403

Your Price **25c**



CROSLLEY TRANSFORMER

For Model A.C. 7 Receiver Power Pack



For use in model A.C. 7 pack. Two secondary windings. High voltage center-tapped winding and 5 volt winding. Primary tapped for 100 to 120 volt operation. Can be used for D.C. dynamic speakers to convert to A.C. with 280 tube. Shpg. wt., 8 lbs.

Cat. No. 3391

Your Price **\$1.50**

CROSLLEY DYNAHONE ADAPTER

Adapts any set to use the famous Dynaclone speaker. Remove power tube, place adapter on tube and insert both into socket. Instructions attached to adapter.

Cat. No. 3402

Your Price **50c**



CROSLLEY DYNAHONE

Designed to operate with any receiver but is particularly adapted for receivers using 171-A or 245 in push pull. The Dynaclone requires a magnetizing current of only 40 milliamperes. This patented unit is so efficient that the current thru the field coils gives a magnetic strength several times as great as that obtained from ordinary loud speaker permanent magnets, resulting in a reproducer that is the most powerful on the market for its size. Reproduces the entire musical sound range. Shpg. wt., 6 lbs.

Cat. No. 3405

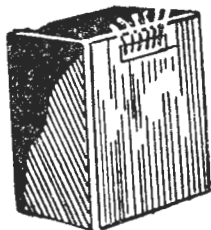
Your Price **\$1.95**



IDEAL FOR AUTO RECEIVERS

Freshman-Freed-Earl-Freed-Eiseman Condensers

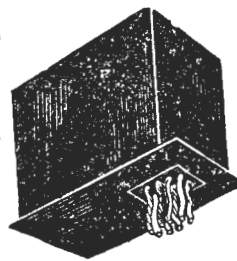
Freed-Eisemann Filter Block For NR80 Model



Original and genuine replacement block for NR-80 A.C. model receiver. Highly efficient. In sealed metal can. Total capacity 9.6 mfd. Consists of 1-4 mfd., 400 V., 2-1 mfd., 400 V., 1-2 mfd., 200 V., 1-1 mfd., 250 V., 1-1 mfd., 400 V.

Cat. No. 3357
Your Price **\$1.50**

Freed-Eisemann Filter Block For NR85 Model



Genuine F. E. replacement unit, factory No. 2441. Total capacity 10.1 mfd. Composed of long-lasting, high-working voltage condensers. An original block for all NR-85 F. E. receivers.

Cat. No. 3358
Your Price **\$3.10**

Freshman G-60-S Condenser



Original blocks. Factory No. 3078. Correct size and capacity. Only difference is in higher working voltages, resulting in longer life and greater satisfaction.

Cat. No. 3359
Your Price **\$2.40**

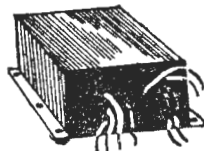
Freshman Q Condenser Block Factory No. 4453



Manufactured by Freshman for replacement in all "Q" model receivers. Best quality and highest grade materials used in their manufacture. Total capacity 8 1/2 mfd.

Cat. No. 3360
Your Price **95c**

Freshman Q D Condenser Block



Factory No. 4909. A later designed, genuine condenser block made by Freshman for all QD receivers. Utmost satisfaction. Total capacity 7 1/2 mfd.

Cat. No. 3362
Your Price **\$2.75**

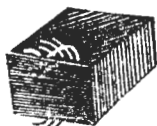
Freshman N-60-S Condenser Blocks



Original manufacturer's filter unit. Factory No. 4528. Composed of the correct capacities totalling 11 1/2 mfd. Later design and more satisfaction.

Cat. No. 3361
Your Price **\$3.75**

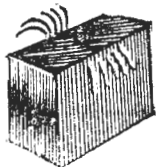
Earl Model 31-31S-32-32S-33-33s Condenser Blocks



For use in all above models. Original and genuine factory units. Blocks for 60 cycle models total 7.1 mfd. 1, 4, 1, 1, 1/10 mfd. sections.

Cat. No. 3363. 60 Cycle
Your Price **\$5.40**
Cat. No. 3364. 25 Cycle
Your Price **\$5.75**

Earl Model 21, 22 Condenser

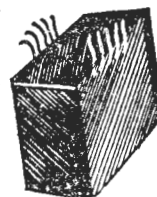


Genuine replacement blocks for Earl 21-22 models. 60 cycle unit. Factory No. 36443-E. Totals 8.6 mfd.

25 Cycle unit, factory No. 36479-E. Totals 9 1/4 mfd.

Cat. No. 3365. 60 Cycle
Your Price **\$4.75**
Cat. No. 3366. 25 Cycle
Your Price **\$5.15**

Earl Model 41 Condenser Block



Manufacturer's blocks for both 60 cycle and 25 cycle model 41 receivers. 60 cycle totals 8.1 mfd. with 1-4-1-1-1-1/10 mfd. sections, factory No. 36387-E.

25 cycles totals 9.1 mfd. Factory No. 36394-E.

Cat. No. 3367. 60 Cycle
Your Price **\$2.75**
Cat. No. 3368. 25 Cycle
Your Price **\$3.15**

Freed Model 55-56 Condenser

Genuine replacement blocks for Freed 55-56 models.

60 cycle unit, factory No. 86379-F totals 8.6 mfd.

25 cycle unit, factory No. 86379-F totals 9 1/4 mfd.



Cat. No. 3369. 60 Cycle
Your Price **\$2.75**
Cat. No. 3370. 25 Cycle
Your Price **\$3.15**

Freed Model 78-78S-79-79S 90-90S-65-36-39S-396 Condenser Blocks

For use in all above models. Original and genuine factory units.

Blocks for 60 cycle models total 7.1 mfd. 1-4-1-1-1-1/10 mfd sections. Blocks for 25 cycle models total 8.1 mfd. 1-4-1-1-1/10 mfd. sections.

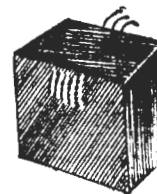


Cat. No. 3371. 60 Cycle
Your Price **\$2.75**
Cat. No. 3372. 25 Cycle
Your Price **\$3.15**

Freed Model 95 Block

Manufacturer's block for both 60 cycle and 25 cycle model 95 receivers. 60 cycle totals 8.1 mfd. with 1-4-1-1-1-1/10 mfd. sections, factory No. 86387-F.

25 cycle totals 9.1 mfd. with 1-4-1-1-1-1/10 sections, factory No. 86394-F.



Cat. No. 3373. 60 Cycle
Your Price **\$2.75**
Cat. No. 3374. 25 Cycle
Your Price **\$3.15**

Phosphor Bronze Belts For Earl, Freed, Freshman, Freed-Eisemann

Replacement belts for all above receivers using belt drives for tuning. Strong, flexible, already made to fit without any trouble. For Models 60, 33, 30N, 40, 40N, 1N, 48N, NR-80, NR-85, NR-80 and NR 66.



Cat. No. 3375
Your Price **15c**

Freed and Earl Knobs



Beautiful wooden knobs. Brown in color, with gold engraved center. 1 1/2" outside diameter. For 3/16" shaft.

Cat. No. 3376
Your Price **8c**

Freshman Q and QD Volume Controls

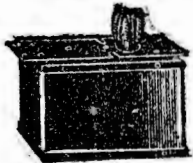
Original 8000 ohm tapered rheostats for all Q and QD Freshman receivers.



Cat. No. 3377
Your Price **25c**

FREED, EARL, FRESHMAN, Power Transformers

Freshman Q Transformers



Standard replacement for Freshman and Polydyne receivers. Supplies 222, 226, 227, 171A and 280 tubes.

Cat. No. 3316

Your Price **\$3.85**
25-Cycle Model. \$4.25

Earl and Kolster Transformer With Brackets

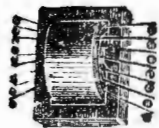


Replacement for Earl and Kolster receivers, but can be used for any set using 5-226's, 2-227's, 2-171A's and a 280. Comes complete with brackets ready to mount.

Cat. No. 8317

Your Price **\$1.75**

Earl A B C Replacement Transformers



Same transformer as above but less brackets. Wiring No.: 1 and 11-2 1/2 volts for 227 tube, No. 4 center tap for 227, No. 2 and 5, 110 volt line; No. 3 and 15 1 1/2 volts for 226 tubes;

No. 6 and 9, 5 volts for 171A; No. 7 and 8 center tap of 171A; No. 10 and 16, 5 volts for 280, and No. 12, 13, 14, are high voltage.

Cat. No. 3318

Your Price **\$1.35**

Freed Eisemann NR 85 Power Transformer



Replacement for F.E. NR85 receiver supplies 5-226, 1-227, and 1-250 with a 281 rectifier. The first audio 226, is on a separate filament winding.

Cat. No. 3315

Your Price **\$4.50**

F. E. NR-11 Replacement Transformer

Supplies 5-201's and 171A in conjunction with B. A. Raytheon rectifier. For all 201A series filament receivers.

Cat. No. 3319

Your Price **\$5.35**

Freed and Earl Transformer Coil and Terminal Strip



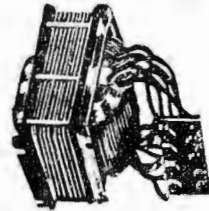
Assemble with the laminations of the old core. For Earl Models 31, 32, 32S and 41, Freed Models 78, 79, 79S, 65, 90, 95.

Cat. No. 3320

Your Price **\$2.25**

We carry the largest stock of Freshman, Freed, Eisemann, and Earl Replacement Parts. We can supply replacements for any part of any of these sets. Send in the part to be replaced.

Freed 78, 79, 95 Power Transformers



Replacement for Freed Models 78, 79, 79S, 65, 90, 95. Supplies 5 or 6-227's or 224's, 245's and 1-280. Complete with brackets and terminal strip.

Cat. No. 3321

Your Price **\$4.50**

Earl 31-32 Power Transformer

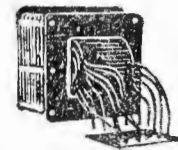
Replacement for Earl Models 31, 31S, 32, 32S, 33, 33S, 24, 41. Complete ready to mount.

Cat. No. 3322

Your Price **\$4.50**



Freed 55, 56 Power Transformer



Replacement for Freed Models 55 and 56. Supplies 226's, 227's, 171A and 280.

Cat. No. 3323

Your Price **\$3.10**

Earl Power Transformers

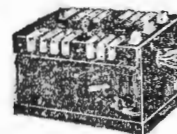
Models 21, 22, 55, 56. Supplies 226's, 227's, 171A and 280.

Cat. No. 3324

Your Price **\$1.95**



Freshman M60S Transformer



Replacement for M series receivers. Supplies 4-226's, 1-227 and 1-171 with a 280 rectifier. The filter chokes are built into the same casing as the transformer. This unit has two 1 1/2 volt windings, the first audio being on a separate winding.

Cat. No. 3325

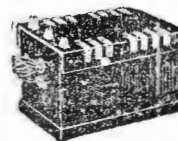
Your Price **\$4.50**

Freshman N Power Transformer

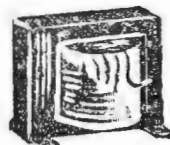
Replacement for N series receivers. Supplies 4-226, 1-227, and 1-250 and 281 rectifier. Filter chokes are in the same case with the transformer. Has two 1 1/2-volt windings, the first audio being on a separate filament winding.

Cat. No. 3326

Your Price **\$4.50**



Freshman Audio Transformer



Replacement for models, Q, QD, N and M.

Cat. No. 3327

Your Price **40c**

Freed Eisemann Audio Transformer

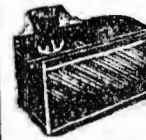
Replacement for all Freed receivers, 3 1/2 to 1 ratio. Excellent tone and quality.

Cat. No. 3328

Your Price **45c**



Freshman Q D Transformer



Replacement for QD receivers. Supplies 222, 226, 227, 171, and 280. Self contained filter choke and supplies power for dynamic speaker field.

Cat. No. 3329

Your Price **\$4.50**

Freshman G-60-S Plate Transformer

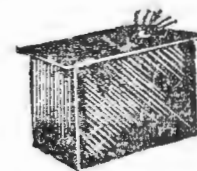


Supplies 1 1/2 V for 226's, 2 1/2 V for 220 or 224's or 5 volts for 171A. 5 volt and 2 1/2 volt windings center tapped. Replacement for Fresh-

Cat. No. 3330

Your Price **\$1.65**

Freed Eisemann NR80 Power Transformer



Replacement for F. E. NR80 receivers. Supplies 5-226's, 1-227, and 1-171 and 1-280. Has 2 1/2 volt windings; the first audio stage being on a separate winding.

Cat. No. 3331

Your Price **\$4.75**

Freshman G-60-S Filament Transformers

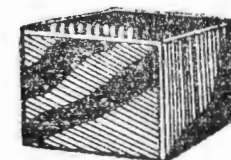
Supplies high voltage and filament for 281 for Freshman G-60-S receivers.

Cat. No. 3332

Your Price **\$2.25**



Freshman Plate Transformer for Power Amplifier



Supplies high voltage and 7 1/2 volt winding for the rectifier. Supplies 210 or 250.

Cat. No. 3333

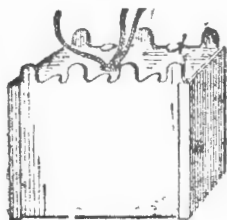
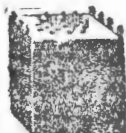
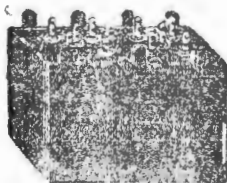
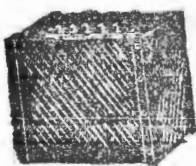
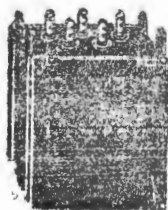
Your Price **\$1.95**



Replacement Parts

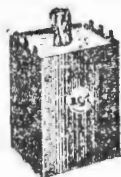


We carry the most complete stock of R.C.A. replacement parts in the country. Every item is guaranteed. We can supply in addition to the units listed here, any R.C.A. or Victor part. On units not listed, to avoid delay, send us the part to be replaced. Our net quotation will go to you in the return mail. The service man will find that many of these Radiola replacements can also be used for other receivers. Complete technical data on any unit will be furnished on request.



Replacement No.	Part Description	Used in Radiola	List	Your Price
8476	Filter Condenser Block	44, 46	\$12.00	\$3.95
8382	Filter Condenser Block	62	12.00	5.25
8483	Power Transformer	66	12.90	3.95
8484	Power Transformer	66-25 cycle	18.75	5.25
8301	Power Transformer	17-25 cycle	18.75	5.25
8340	Power Transformer	18-33-51-25 cycle	18.75	6.25
6021	Condenser Block and Audio Trans.	66	18.75	6.95
8373	Power Transformer	64-220 V-50-60 cycle	40.00	8.75
8287	Power Transformer	17-50-60 cycle	12.90	3.20
8350	Power Transformer	60-25 cycle	18.75	5.25
5667	Two Stage Audio Pack	16, 17, 18, 33, 41, 50, 51	6.75	1.45
8335	Power Transformer	17, 18, 33, 51	12.90	2.95
5807	Neutralizing Condenser	33, 60, 62, 64	1.20	.19
8336	Double Filter Choke	18, 33, 51	10.05	.65
2242	Voltage Divider	18, 33, 51	.80	.15
8333	Condenser Block and Choke	18, 33, 51	7.40	1.35
5901	Volume Control	33 A.C. & D.C.	1.95	.25
6037	Audio Transformer	33 D.C.	6.00	.60
8344	Power Transformer	60, 62	12.90	4.75
8472	Power Transformer	44, 46	12.90	3.25
5996	By-Pass Condenser	18, 33	3.00	.19
8554	Push Pull Audio Pack	80	14.00	1.09
8555	Filter Choke	80	4.00	.75
7058	By-Pass Condenser Block	80	4.00	.19
7059	By-Pass Condenser (1 mfd.)	80	1.70	.19
8487	Filter Condenser Block	66	14.25	2.50
8346	Filter Condenser	60	16.50	3.95
7108	By-Pass Cond. (.1-1-1)	48	1.20	.19
7107	By-Pass Cond. (.1-1)	48	1.20	.19
7106	By-Pass Cond. (.75-.25)	48	1.80	.19
8404	Filter Condenser	41	12.00	3.25
8463	R.F. Coil Assembly	33	5.40	1.10
2518	Power Switch	33	1.15	.15
8289	Filter Condenser	17	19.20	2.95
5899	Output Trans. and Cond.	106 A.C. Speaker	10.20	1.45
	R.C.A. Power Transformer	64, 67	25.00	7.95
	R.C.A. Power Transformer	80, 82, 86	17.50	4.95

R.C.A. Double Choke for Models 18, 33, 51



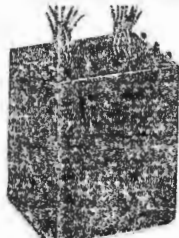
Consists of two 30 henry 80 milliamperes chokes. When connected in parallel they are rated at 15 henry at 160 milliamperes. Series connection will give an inductance of 60 henry at 80 milliamperes. D.C. resistance 475 ohms. Shpg. wt. 5 lbs.

Cat. No. 8336 List \$10.05

Your Price **65c**

R.C.A. Power Transformer for

Models 80, 82, 84

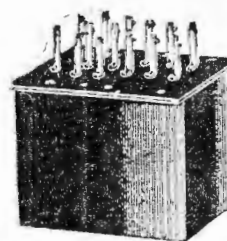


This unit supplies 4-224's, 2-227's, 2-245's and 1-280. This is the transformer used in the superheterodyne series. This receiver was made up in similar models under General Electric, Westinghouse and Graybar trade marks. Shpg. wt. 7 lbs.

Cat. No. 8284 List \$17.50

Your Price **\$4.95**

R.C.A. 64-67 Power Transformer



For replacement use in the R. C. A. Models 64 and 67. The 64 uses 8-227, 6-250 and 2-281. The 67 uses 7-227, 1-250 and 2-281. This is also an ideal transformer to use in building up a 250 push pull amplifier. Shpg. wt. 12 lbs.

Cat. No. 6407

Your Price **\$7.95**

List \$25.00

R.C.A. Filter Condenser

Used In Model 17



Total capacity 14 mfd. Has two 3.5 mfd. sections, one 3 mfd., one 2 mfd. and two 1 mfd. sections. Working voltage, 450 D.C. Shpg. wt. 4 lbs.

Cat. No. 8289 List \$19.20

Your Price **\$2.95**

R.C.A. Bypass Condensers

Used In Models 18, 33, 51

Part No. 5996



Four section unit with three .1 mfd. and a .5 mfd. section. Rated at 450 volts D.C. Ideal for all R.F. and A.F. by-passing.

Cat. No. 5996

List \$3.00

Your Price **19c**

Majestic Parts and Replacements

We can supply Majestic Replacement Parts for all types and model receivers. To save time and facilitate replacement send in the defective part which you want replaced. All our replacement parts are fully guaranteed.

Majestic Power Transformer

For 90, 91, 92, 100



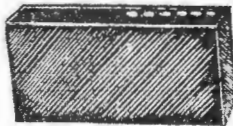
Efficiently designed and built to give perfect satisfaction. Incomparable for replacement in above model receivers. Supplies filament for 5-227, 2-213, and 1-280 type tubes, all separate secondaries and high voltage for plates of rectifier; 245 and high voltage for center tapped. In strong metal shield can. 110 volt primary.

Cat. No. 3681

Your Price **\$5.25**

Majestic Condenser Blocks

Designed to fit the needs of the individual replacement. Each block composed of highest quality condensers. High working voltages and proper capacities. In strong metal can; pitch impregnated.

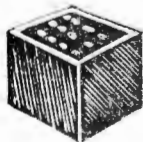


3683 171A Power tubes | Your Price **\$2.65**
3684 245 Power tubes |
3685 250 Power tubes |

Filament Transformer

For Model 180

TYPE 8PG



A very valuable replacement transformer not only for the 180 model, but for any power amplifier, using push pull 250 power tubes. Three secondary windings: 2½ volts for up to 6 tubes and two 7½ volt center tapped windings, one for each 250.

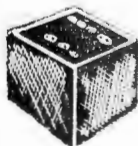
Cat. No. 3690

Your Price **\$3.20**

Plate Transformer

for Model 180

TYPE 8PG



A high voltage power transformer supplying the plates and filaments of two 281 rectifying tubes. Unusually well constructed to withstand heavy loads placed upon it. This transformer was designed for model 180 Majestic receivers, but in combination with the filament transformer, a perfect pair of blocks are obtained for a powerful power amplifier.

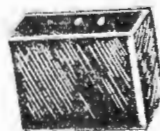
Cat. No. 3691

Your Price **\$4.80**

Power Pack Chokes

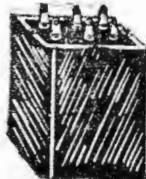
For Majestic Receivers

All in shielded cases, impregnated. Excellent for filtering purposes.
8PG for model 180
7PB for models 70, 71, 72
7PB6 for models 70, 71, 72



Cat. No.	Type	Your Price
3692	8PG	\$2.20
3693	7PB	\$1.95
3694	7PB6	\$1.95

Majestic "B" Eliminator Transformer



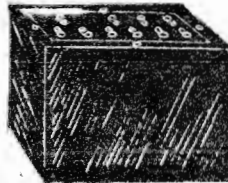
For all Majestic Eliminators. An exact duplicate of the original but better; correct size and voltages. Primary has extra tap for "hi-lo" adjustment. Secondary is center tapped. The very transformer for any Raytheon Eliminator.

Cat. No. 3682

Your Price **\$2.10**

"B" Eliminator Condenser Blocks

A replacement block that has long been awaited. The condensers that comprise the unit were selected with extreme care, so that the trouble, common with the original, will not occur here. An excellent value.



FOR SUPER "B" AND MASTER "B"
Cat. No. 3688 Your Price **\$2.00**
FOR SPECIAL MASTER "B"
Cat. No. 3689 Your Price **\$2.05**

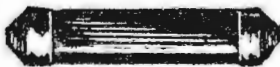
Majestic "A" Condenser



A rugged replacement "A" condenser for the Majestic "A" power unit.
Cat. No. 3685

Your Price **\$2.10**

Resistors for All Majestic Sets and Packs



Cat. No.	Ohms	Size	Your Price
3680	800	3"	25c
3681	1000	1"	30c
3682	2170	1½"	25c
3683	2170	1½"	30c
3684	20	center tap	10c

Majestic Push-Pull Input



For Models 70, 72, 71, 90, 91, 92, 100, 180

Capable of tremendous volume, free from distortion. In shielded metal case... Impervious to moisture.

Cat. No. 3690

Your Price **\$1.50**

Majestic Power Transformer Plate and Filament

For Models 70, 71, 72



TYPE 7PG
Supplies all filaments and A.C. high voltages. Sealed in durable black metal can. 110 V primary.

Cat. No. 3686

Your Price **\$5.25**

TYPE 7BP6

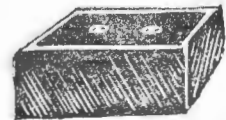
Same in size and appearance as 7PG unit but supplies slightly higher plate voltage. Fully shielded and sealed.

Your Price **\$5.35**

Cat. No. 3687

By-Pass Condenser Units for Majestic Sets

No. 714—For model 90 series contains ½ mfd. condenser. Used to by-pass cathode and plate circuits.



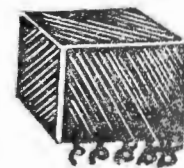
No. 715—Same for models 70, 71, 73 used throughout for by-passing filament and plate circuits.

No. 717—For model 90 series 130A chassis .4 mfd condenser for detector cathode by-pass.

No. 714—Cat. No. 3686 } Your Price **\$1.35**
No. 715—Cat. No. 3687 }
No. 716—Cat. No. 3688 }

Push-Pull Output Transformers

As Used in Models 70, 71, 72, 90, 91, 92, 100, 180



An ideal replacement output transformer for the above models. Primary matches the impedance of the power tubes used. Secondary right to voice coil of dynamic speaker. Thoroughly impregnated. Fully shielded.

Cat. No. 3689

Your Price **\$1.75**

Majestic Set Dial Cables

A Boon to the Serviceman

Cables already made up to size with erelata soldered to the ends for easy replacement. Especially strong and very flexible. Several of these cables should be carried in your service kits for ready replacement.



Cat. No. 3695		18c
Your Price, each		
In lots of 6.		15c
Your Price, each		

Filter Chokes for All Power Units

COLONIAL "B" CHOKE



Genuine Colonial filter choke as used in model 32 A.C. receiver. Can be used in any set because of high current carrying capacity. Will pass 125 milliamperes at 20 henries D.C. resistance. 75 ohms. Shpg. wt., 2 lbs. Cat. No. 3735

Your Price **69c**

Freshman, Freed and Earl Chokes

These chokes are original factory-made units and will give complete satisfaction because brand new.

Cat. No.	Model	Your Price
3736	C. A. EARL, 22, 24, 31, 32, 42 Double...	40c
3737	FREED EISEMANN, NR 57.....	45c
3738	FREED EISEMANN, NR 70 Single ...	27c
3739	FREED EISEMANN, NR 80 Double.....	27c
3740	FREED EISEMANN, NR 85 Single.....	27c
3741	FREED 55, 56, 78, 79, 95 Double.....	45c

EARL DOUBLE CHOKES

A carefully wound and constructed double choke coil. Will serve admirably in any power pack. Has separate leads, so can be used in any hookup. Each 30 henries, will pass 85 mils.

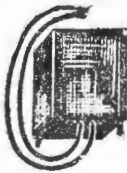


Cat. No. 3742

Your Price **\$1.02**

Crosley Power Pack Choke

Original Crosley chokes. 30 Henry, 85 mils. For replacement purposes or use in any power pack or receiver. Fully shielded. Comes in neat black shield can with long flexible leads.

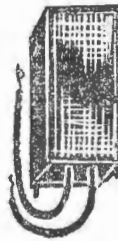


Cat. No. 3387

Your Price **65c**

CROSLEY DOUBLE CHOKES

A series connected double choke totalling 60 henries. Will pass 85 mils. Ideal for use in a brute force filter, and all Crosley receivers. Fully shielded in a brown metal case, with long connecting leads.



Cat. No. 3388

Your Price **75c**

CROSLEY CHOKE

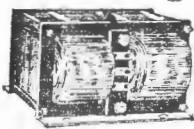
An 85 mil, 30 Henry choke for Crosley receivers or any power pack. In an attractive rounded brown case. Fully shielded. Long leads. Mounting screws already fastened to base.



Cat. No. 3389

Your Price **60c**

General Electric Chokes

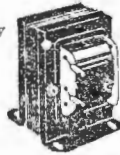


Constructed with G.E. accuracy and precision. A double choke that will pass 80 mils. at 50 henries. D.C. resistance, 500 ohms.

Cat. No.	Shielded	Your Price
3255	Unshielded	\$1.95
3256	Shielded	\$2.25

Thordarson Choke

A sturdy 30 henry choke, 120 mils.



Cat. No. 3743

Your Price **\$1.15**

Reliable Double Choke

In attractive shielded case. For use in any receiver, power pack, or amplifier where high quality is essential. Two 30 henry chokes that will pass 120 mils.



Cat. No. 3744

Your Price **\$1.75**

Victor Tapped Chokes



A 400 ohm choke, tapped at 15 ohms. For use in tuned-filter circuits to eliminate hum. Will pass up to 125 mils.

Cat. No. 3745 Your Price **95c**

R.C.A. Filter Chokes



These chokes are rated at 15 henry at 40 milliamperes. Two connected in series will make a 30 henry, 40 milliamperere choke. Ideal for use as plate impedances as well.

Cat. No. 3746 Your Price **35c**

Westinghouse Filter Choke



Mounted in containers and impregnated in rosin-beeswax compound. They are rated at 15 henry at 35 milliamperes. Two can be used in series and you will have a 30 henry choke at 35 milliamperes. They are splendid for use in "B" eliminators or as plate impedances. D.C. resistance 500 ohm.

Cat. No. 3747 Your Price **40c**

T.C.A. Filter Choke



This choke is made by Transformer Corporation of America, specialists in power equipment. Rated at 30 henry at 120 milliamperes D.C. resistance, 425 ohms. Ideal for 245 power packs. Equipped with flexible leads and mounting legs. Can also be used as an output choke. Shpg. wt., 5 lbs.

Cat. No. 3748 Inst \$2.50

Your Price **70c**

R.C.A.-Brunswick Choke

Used in R.P.A. 3-3A-6-7-7A. Genuine R.C.A. replacement part No. Y1098, Brunswick No. P-269, 30 henrys, 50 mils. Mounted.

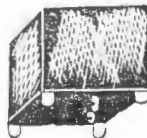


Cat. No. 3749

Your Price **65c**

VICTOR FILTER CHOKE

A fully shielded, impregnated improved design choke. An original replacement part for Victor models 32, 45, 52, 75 and all packs where a high grade choke is necessary. 30 henrys, 125 mils.



Cat. No. 3751

Your Price **95c**

Reliable Shielded Power Choke

A heavy duty choke incorporating finest workmanship and materials. Laminations securely bolted and shielded. Terminal lug connections. For all power packs employing high voltage, this choke will stand the gaff. Capacity 125 mils at 30 henrys.



Cat. No. 3752

Your Price **\$1.35**

Reliable Pentode 245 Choke

A thoroughly impregnated filter choke designed especially for power packs supplying 245. Pentode amplifying tubes. 30 henry at 125 mils.



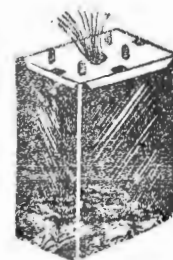
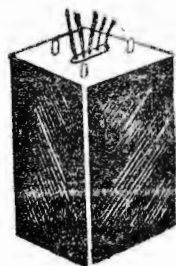
Cat. No. 3750

Your Price **\$1.50**

REPLACEMENT CONDENSER BLOCKS

Reliable Condenser Blocks for Pentode, Multi-Mu, and 245 Receivers

A scientifically designed product guaranteed to give perfect satisfaction in every respect. The highest quality foil and paper were used in their manufacture, fully impregnated to include moisture and assure long life. All new, fresh and perfect to the last detail. Neat and compact, attractively housed in a sturdy black metal can with long leads. Screws for mounting. Excellent for midget receiver manufacture. Safely rated and tested at three times the working voltage.



1 mfd—500 V	} Capacity 6½ mfd.	1 mfd—500 V	} Capacity 6 mfd.
1.5 mfd—400 V		3 mfd—400 V	
1 mfd—200 V		1 mfd—200 V	
2 mfd—200 V		1 mfd—200 V	
1 mfd—200 V			

Cat. No. 3432

Your Price **65c**

Cat. No. 3433

Your Price **70c**

Can be used in U. S. Radio and Television receivers, Apex, Ahrline, Radiotrops, Beverly & Case, and every similar receiver.

Brunswick-Bremer-Tully Condenser Blocks



Recommended for their easy application to any radio receiver on the market today. The condenser capacities were purposely made low so that any capacity combination can be obtained by connecting condensers in parallel. An excellently constructed bank, the appearance of which will greatly enhance any receiver in which it is used. High working voltages safely rated. Contains:

2—1.75 mfd—600 V	1—1.5 mfd—300 V	1—.25 mfd—300 V
1—1 mfd—600 V	1—1 mfd—300 V	1—1 mfd—200 V

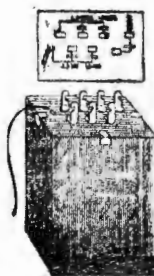
Used in all Brunswick 14, 21, 81 SPU and equivalent Bremer Tully receivers.

Cat. No. 3431

Your Price **\$1.15**



Acme Parvolt 8.7 mfd. Block



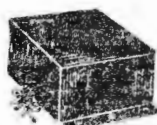
Highly suitable for replacement in all 245 power packs, B eliminators and all type receivers. Tapped at

2.3 mfd.	600 V.
1.8 mfd.	600 V.
1.3 mfd.	800 V.
1.8 mfd.	800 V.
.8 mfd.	300 V.

Cat. No. 3440

Your Price **\$1.15**

Bosch 48 Condenser Block



An excellent replacement for Bosch models 48, 16, 17. 4 leads.

Red	2 mfd.	600 V.
Black	4 mfd.	600 V.
Yellow	.05 mfd.	600 V.
Blue	.....	common

Cat. No. 3441

Your Price **\$3.25**

Kolster 6J—6K Condenser

A standard replacement with wiring diagram Tapped at

3 mfd.	400 V.
2 mfd.	400 V.
3 mfd.	400 V.
1 mfd.	400 V.
2 mfd.	180 V.

Capacity 9 mfd

Cat. No. 3434

Your Price **\$3.50**

Victor 10½ mfd. Block



Genuine Victor replacement for Models R-32, R-42, RE-45, RE-76, all 245 sets. 600 volts D.C. working voltage. Taps: 5 mfd., 8 mfd., 25 mfd and 125 mfd.

Cat. No. 3437

Your Price **\$1.65**

Peerless 7 mfd. Block

A high grade replacement block for all Peerless and Kylelectron receivers, or any similar set. 9 leads.



Red	2 mfd.	600 V.
Blue	1 mfd.	400 V.
White	.....	common for above
Green	1 mfd.	300 V.
Green	1 mfd.	300 V.
Brown	1 mfd.	300 V.
Orange	½ mfd.	300 V.
Yellow	½ mfd.	200 V.
Black	.....	common for above

Cat. No. 3438

Your Price **\$1.15**

Kolster—Dubilier



Original as used in Kolster sets. Total capacity 7.1 mfd. Conservatively rated at 400 volts.

Cat. No. 3439

Your Price **95c**

Potter 10¼ mfd. for Zenith

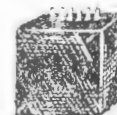


For Zenith models ZE-11, 12, 14, 18. Makes an ideal replacement block for any make 245, 210 or Pentode set 600 D.C. volts. Contains 2-4 mfd., 1-3 mfd., 1-¼ mfd. condensers. Leads 12 inches long.

Cat. No. 3435

Your Price **\$1.15**

Potter 9¾ mfd. Block



Used in Metrodyne Receivers and as replacement for any 171-A receivers. Safely rated at 300 volts. Sections 2-4 mfd., 1 mfd., 4-¼ mfd. In metal case with convenient mounting screws.

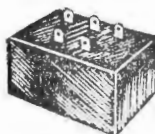
Cat. No. 3436

Your Price **\$1.50**

CONDENSER REPLACEMENTS

R.C.A. Brunswick 4.5 Mfd. Block

4.5 Mfd. Block



A 400 Volt working voltage condenser block for replacement in R.C.A. and Bruns w i c k sets. Contains 2-2 mfd. sections and 1-1/2 mfd. section.

Cat. No. 3350

Your Price **\$5c**

Bremer-Tully-Dubilier Block

7 mfd.

A standard replacement block for model 8-17; 7 mfd., 5 leads, strong metal case.



Cat. No. 3351
Your Price **\$1.75**

Dubilier-Brunswick 6 Mfd. Filter



Used in 6-tube receivers, 6 mfd. at 600 volts D.C. working voltage.

Cat. No. 3352

Your Price **\$1.40**

Faradon 5.1 Mfd. Block

For Kolster and Brandes Sets

Contains 1-3 mfd., 2-1 mfd. and 1-1 mfd. condensers. 450 volts D.C. working voltage and 2-5 mfd. condensers, 200 volts D.C. working voltage.



Cat. No. 3353

Your Price **75c**

Philco-Dubilier 16 Mfd. Block



For replacement in all radio 25 cycle sets, and any set requiring large capacities at high working voltage.

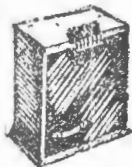
Cat. No. 3354

Your Price **\$1.50**

Fada Condenser Block

For Fada Model 25

Red	..... 2 mfd.	..... 600 V.
Green	..... 1 mfd.	..... 400 V.
Yellow	..... 1 mfd.	..... 400 V.
Blue	..... 1/2 mfd.	..... 400 V.
Slate	..... 2 mfd.	..... 200 V.
Brown to Brown	..... 28 mfd.	..... 600 V.



For Fada Models 35, 352, 40

Red	..... 2 mfd.	..... 600 V.
Yellow	..... 2 mfd.	..... 600 V.
Brown	..... 2 mfd.	..... 600 V.
Green	..... 1 mfd.	..... 400 V.
Blue	..... 1/2 mfd.	..... 400 V.
Slate	..... 1 mfd.	..... 200 V.

Cat. No. 3356
Fada 35 etc.
Your Price **\$1.50**

Cat. No. 3355
Fada 25
Your Price **\$1.50**

Dubilier Condensers

Type P. L. 1073



5% mfd.	Total Capacity
2 mfd.	400 D.C. Volts
1 mfd.	400 D.C. Volts
.5 mfd.	400 D.C. Volts
.5 mfd.	200 D.C. Volts
.25 mfd.	200 D.C. Volts

Cat. No. 3348

Your Price **95c**

Thomas 8.5 Mfd. Block 450-V. D.C.



High working voltage condenser block. Contains 2-3 mfd., 2-1 mfd., 1-1/2 mfd. condensers. Ideal for replacement purposes.

Cat. No. 3349

Your Price **\$1.05**

Faradon 6 Mfd. Block

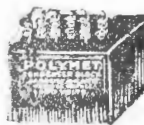


Composed of three condensers 1 3 and 3 mfd. D.C. working volt are 450 volts.

Cat. No. 3345

Your Price **65c**

Polymet 4 1/2 Mfd. Blocks 400 Volts D.C.

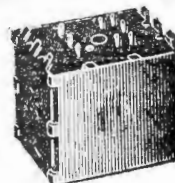


1-3 mfd., 2 1 mfd., 2-1/4 mfd.

Cat. No. 3346

Your Price **55c**

R.C.A. 41 Condenser



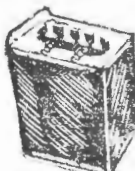
A highly improved block identical in size and capacity with the original. Containing 2-2 mfd., 4-2 mfd. condensers.

Cat. No. 3347

Your Price **\$4.25**

Eveready-Bosch Condenser Block

For all 1928-1929 model receivers. 600 V. D.C. working voltage.



Cat. No. 3344

Your Price **\$3.25**

Radiola Condenser Blocks

Designed and built especially for Radiola sets. Contains high voltage-surge-proof condensers in neat shielded case.

Cat. No. Model

3335....R.C.A. 17

Your Price **\$3.75**

3336....R.C.A. 18, 33, 51

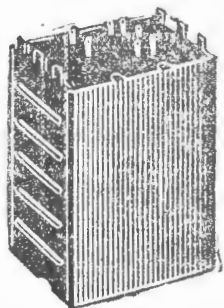
Your Price **90c**

3337....R.C.A. 60, 62

Your Price **\$3.75**

3338....R.C.A. 66

Your Price **\$1.85**



Sparton Blocks

For Models AC-7, 62, 63, 930, 93, 79



A thoroughly reliable product built to last. Designed for simple replacement in Sparton sets.

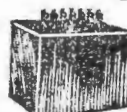
Cat. No. Model Your Price

3339.....A.C. 7, 62, 63... **\$4.35**

3340.....930 **\$4.35**

3341.....69, 79, 89..... **\$4.35**

Temple Condensers



For models 8-60, 8-80, 8-90, 12 1/4 mfd., 500 V.

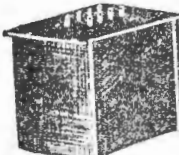
For models 7-50, 7-80, 19 mfd., 600 V.

Cat. No. 3342

Your Price **\$1.19**

Either Model

Stromberg-Carlson 23 mfd.



For models 635, 636, or any set requiring maximum filter capacities. Contains 4-3 mfd., 1-9 mfd., 1-2 mfd. condensers.

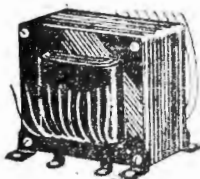
Cat. No. 3334

Your Price **\$2.45**

POWER TRANSFORMERS

Genuine Kolster Power Transformer

Replacement for model K-24 sets using 210 or 250 tubes



This transformer has a 1100 volt secondary, center tapped, 1½, 2½, 7½ and 15 volt filament windings. Shpg. wt. 7 lbs.

Cat. No. 3269

Your Price **\$5.75**

Stromberg-Carlson Power Transformer

Replacement for models 635, 638



For 5-227, 1-171A and 1-980. A high grade conservatively rated transformer. Shpg. wt. 10 lbs.

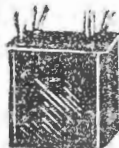
Cat. No. 3270

Your Price **\$4.50**

Stromberg-Carlson Power Transformer

Replacement for 641 and 642 Series Receivers

For 245, 227 and 280 type tubes. Conservatively rated. Color code furnished with each transformer.



Cat. No. 3271

Your Price **\$4.75**

Victor ABC Power Transformer



This power block is a replacement for Victor receivers. Conservatively rated, they will supply a 245 push pull amplifier and also 227's, 244's, 280's and 226's.

For 56-60 CYCLE No. 1923

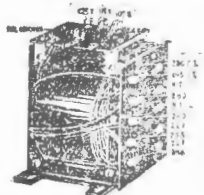
Your Price **\$2.50**

For 25-35 CYCLE No. 1923

Your Price **\$3.25**

UNIVERSAL REPLACEMENT TRANSFORMER

For 227, 245, 247, 224, 551, and 280 Tubes



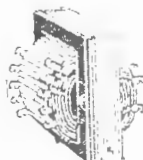
Can be used as replacement for most receivers in use today. Supplies filament voltages for 227, 224, 245, and 280 tubes. All taps are mounted on a bakelite panel. Variable primary voltage. Measures 4½"x3½"x

5¾" high. Will take care of 6 to 7-227's or 224's, 2-245's, and a 280. Shipping weight, 5 lbs.

Cat. No. 3272
YOUR PRICE

\$3.15

GENERAL REPLACEMENT TRANSFORMER



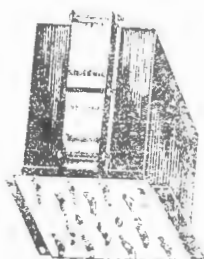
Unmounted transformer for replacement purposes in receivers using 224's, 227's and 245's and a 280. All connections made to soldering lugs on side. Shipping weight, 4 lbs.

Cat. No. 3273

YOUR PRICE **\$2.25**

COLONIAL POWER TRANSFORMER

For Model 32 A.C.



Mounted in electrostatically shielded can. Special open type construction allows vertical ventilation preventing any over-heating. Can be used with any 245 power unit, amplifier or receiver. Will supply 2 245's, 5 to 297's or 224's, 1-280 high voltage winding delivers 750 volts.

Primary tapped to allow operation on any line voltage between 95 and 130 volts.

Cat. No. 3274
YOUR PRICE

\$2.95

Freshman Filament Supply Transformer

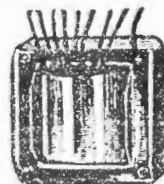


Supplies filament current to 226, 224, 227 and 171-A tubes. The 2½ and 5 volt windings are center tapped.

Cat. No. 3275
Your Price **90c**

Amrad Power Transformer

Replacement in Bel Canto series for the Beranata, Aria, Symphony and Duet. Supplies 4-224's, 2-245's and a 280. Shipping weight, 5 lbs.



Cat. No. 3276
Your Price **\$3.45**

Earl Transformer Coil and Terminal Strip

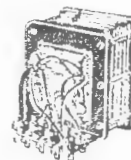


Replaces the power transformer coil in Earl Models 31, 32, 32-S, 41, Freed models 78, 79, 70-S, 65, 90, 95. Reassemble with the laminations of the old transformer. Shpg. wt. 8 lbs.

Cat. No. 3277

Your Price **\$2.25**

Earl and Freed Power Transformer



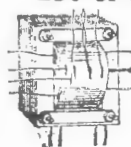
This transformer supplies 5-227 or 224, 2-245 and a 280. It is a replacement for 15 Freed and Earl receivers. Replacement for the following Freed sets: Models 78, 78-S, 79, 79-S, 65, 78-S, 95, 90, 90-S; and Earl Models 31, 32, 31-S, 32-S, and 41, 24, 33, 33-S.

Cat. No. 3292
Your Price **\$4.50**

For Models No. 21, 22, 55, 56

Cat. No. 3301
Your Price **\$3.00**

250 or 210 Transformer



Delivers 750 volts output high voltage secondary. Half wave rectifier. Has 1½ volt winding for 5-226's, 1 or 2-227's, 1-250 or 210 and 1-281.

Cat. No. 3302

Your Price **\$3.25**

POWER TRANSFORMERS for all SETS and PACKS

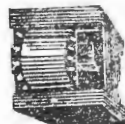
Radiart Step-Down Transformer



Input 220-250 volt, 50-60 cycle A.C. Output 110-120 volt, rated at 150-160 watt. For use in localities where 220 volt, 60 cycle A.C. current is supplied. These transformers adapt current of that voltage to any A.C. radio or other electrical appliance which consumes up to 160 watts. In an attractive case and easily mounted. Size 4x3 1/2 x 5 1/2". Shpg. wt. 7 lbs.

(Cat. No. 3443)
Your Price **\$3.15**

Peerless Power Transformers

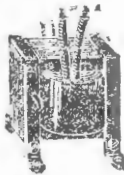


A genuine replacement transformer for all purposes, amply proportioned with large over size laminations and heavier windings. For models 661, 652, 653, using 21, 22, 653. Supplies 8-224, 2-227, 4-245 and 1-280 tubes. Primary is tapped for 105 and 120 volt operation. An excellent transformer for any set using these tubes.

(Cat. No. 8456)
Your Price **\$3.10**

12-Volt Step-Down Transformer

For replacement in all A.C. dynamic speakers and 8 volt "A" eliminators. 2 1/2 ampere capacity. Can even be used as a Toy or Bell ringing transformer. For 110 volt 50-60 cycle A.C. Shpg. wt. 4 lbs.



(Cat. No. 8458)
Your Price **65c**

Reliable Filament Transformer



A fully shielded, 2 1/2 volt filament transformer, containing two 2 1/2 volt secondaries. One will supply 14 amps, enough for eight 224, 227 or 235 and 651 tubes and the other carries 6 amps for two 245's or two Pentode tubes. Both windings center tapped. Mounts easily. 4 1/2" long by 2 1/2" x 3 1/2". Shpg. wt. 6 lbs.

(Cat. No. 3449)
Your Price **\$2.15**

General Use Filament Transformer



A rugged transformer that can be employed in a number of different circuits. Heavy laminations and over-size wire prevent break down and over-heating. Easily supplies 2.5 volts at 4 amps; 1.5 volts at 3.25 amps, and 7.5 volts at 1.25 amps. By connecting a 2.5 ohm resistance in series with each leg of the 7.5 volt winding, it will supply 5 volts at .5 amps for 171's or 3.5 volts at 1.75 amps for a 245. Shpg. wt. 5 lbs.

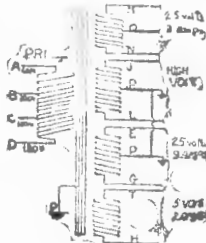
(Cat. No. 3448)
Your Price **\$1.75**

UNIVERSAL POWER TRANSFORMER

For Pentode Multi-Mu



Here is an opportunity for every live radio man to obtain a power transformer that will fill his every requirement. Designed to withstand the severest overloads without breaking down or over-heating. Not just another transformer but **THE TRANSFORMER**. High voltage center tapped secondary supplies 800 volts A.C. at 125 mils. sufficient current for two Pentode or 245 type tubes and the field of a D.C. dynamic speaker. 5 volt, 2 amp. secondary for a 280 rectifier. Two 2 1/2 volt secondary windings to supply up to 7 screen grid or 227 type tubes and two Pentode or 245 type tubes. All windings center tapped. Primary tapped for 100, 110 and 120 volts. Extra heavy laminations insure burn-free operation. In an attractive black metal housing with neat, lettered terminal strip for easy connection. For 50-60 cycle 100-130 volts operation. Shpg. wt. 8 lbs.



(Cat. No. 3442, List \$12.50.)
Your Price **\$2.95**

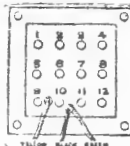
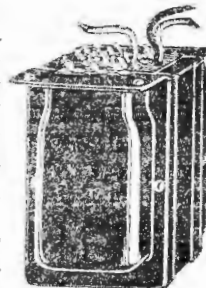
PHILCO POWER TRANSFORMER

This is a universal power transformer for replacement on Philco Model 87 receivers and all sets using 226, 227, 245 and 280 tubes. Completely shielded in a sturdy black enameled casing. Terminal lugs on high grade insulating material on base. Terminal markings as follows:

- Black and Green leads—Primary 110-120 volts.
- No. 6 and No. 9—High voltage secondary.
- No. 1 High voltage center tap.
- No. 6 and No. 10—5 volts at 2 amps for 280.
- No. 3 and No. 4—2 1/2 volts at 3 amps for 227.
- Yellow lead—Center tap for No. 2 and No. 4.
- No. 11 and No. 12—1 1/2 volts at 3 amps for 226.
- No. 7 and No. 8—3 1/2 volts at 3 amps for 245.
- No. 3—Center tap for 245. No. 7 and No. 8.

A Thordarson Product—Safely rated.

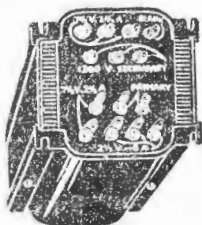
(Cat. No. 3445)
Your Price **\$2.95**



RELIABLE POWER TRANSFORMERS

Not Surplus Stock. But the Best Obtainable

Ideal for new power units or for replacement purposes. Fully guaranteed against burnouts and break downs.



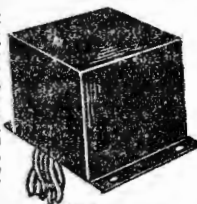
250 Push Pull A.C. Power Transformer

For any power plant and amplifier using push pull 250 tubes. Has 4 center tapped secondary windings: 2 1/2 volt at 14 amps; 7 1/2 volts at 2 1/2 amps; 1200 volt high voltage winding and 110 volt A.C. primary. Rated low for safety. For 2-250; 2-281 and 8-224 or 2-227 tubes or combination. Rating—200 watts; 5 1/2" x 4 1/2" x 4 1/2". Fully shielded. Shpg. wt. 20 lbs.

(Cat. No. 3451)
Your Price **\$5.25**

Stromberg-Carlson 846 Power Transformer

A well designed and carefully constructed power transformer for replacement in Stromberg-Carlson Models 846, 12, 14 and other sets. Has three 2 1/2 volt windings, one 4 amp winding for two 245 tubes, one 4 amp winding for one or two type 227 tubes and one 12 amp center tapped winding for five or six screen grid and 227 type tubes. A 5 volt 2 amp winding is provided for the 280 rectifier. The high voltage secondary delivers about 375 volts A.C. each side of the center tap at about 100 mils. Primary has electrostatic shield to prevent line noises from reaching filament secondaries. Also Hi-Lo primary taps for 105-125 volt operation. A great deal of satisfaction and usefulness is built into these transformers.



(Cat. No. 3494)
Your Price **\$4.75**

Raytheon Transformer

An ideal universal replacement transformer for all Raytheon of the type rectifier "B" type eliminators. Delivers 275 A.C. volts each side of the center tapped high voltage secondary. Shpg. wt. 3 lbs.



(Cat. No. 3450)
Your Price **\$1.25**

Kolster Power Transformer



For replacement in models K20, K22, K25, K27 receivers. Supplies filament for up to 6-226 or 2-227, 1 or 2 171A, and 1-280, also center tapped high voltage winding. Compactly designed.

(Cat. No. 3447)
Your Price **\$4.25**

Steinite Power Transformers

Sturdy replacement unit for models using 4-226, 1-227, 1-171, 1-280 type tubes. May also be used for any set employing same tubes.



(Cat. No. 3446)
Your Price **\$4.60**

245 A.C. Power Transformer

For 5-224, 3-227, 2-245, 1-280 tubes or any combinations of 2 1/2 volt tubes. Four center tapped secondary A.C. windings: 800 volts; 2 1/2 volt 14 amps; 2 1/2 volts, 3 amps; 5 volt, 2 amps, and 110 volt primary 175 watt capacity. Conservatively rated. 5 1/2" x 4 1/2" x 3 1/2". Shpg. wt. 14 lbs. Fully guaranteed.

(Cat. No. 3452)
Your Price **\$4.65**

171 A.C. Power Transformer

For sets using up to 6-226, 2-227, 1 or 2 171A and 1-280 tubes. Five A.C. secondary windings: 600 volts center tapped—1 1/2 volts, 8 amps; 2 1/2 volts, 3 1/2 amps; 5 volts 1/2 amp; 5 volts and 110 volt A.C. primary. Fully shielded. 5 1/2" x 4 1/2" x 3 1/2". Shpg. wt. 13 lbs.

(Cat. No. 3454)
Your Price **\$3.95**

Volume Controls, Potentiometers, Rheostats

Frost Double Volume Control

A double volume control with the moving arms electrically insulated but mechanically coupled. The front section has a value of 3,000 ohms and the rear section is 3,800 ohms. Standard for Victor replacement. Can be used in numerous circuits as a dual volume control. Shpg. wt. 1 lb. No. 1981. List Price \$2.00.



Your Price **45c**

CENTRALAB



Air-Cooled Volume Control. 2,000 Ohm.

Cat. No. 3168

Your Price **30c**

Carter Volume Controls

With A.C. Switch

These volume controls are wire wound and will not become noisy after long periods of use. Equipped with A.C. toggle switch, which is automatically operated when volume is at zero. Available in 2,000, 3,000 and 10,000 ohm sizes.



Cat. No. 3266. List \$1.75.

Your Price **60c**

Frost Volume Controls

Frost volume controls are noted for noiseless operation. Employ "Famous Frost Roller Contact" Bakelite case. Long shaft. Available in 10,000, 25,000, 50,000 and 100,000 ohm sizes.



Cat. No. 3268. List \$1.25.

Your Price **35c**

Frost 200,000 Ohm Volume Control

With Switch



Wire Wound.

Cat. No. 3168

Your Price **20c**

Freshman, Freed-Eisemann and Earl Volume Controls

Set	Description	Cat. No.	Your Price
Freshman	Q, 2Q, 3Q.....	3170.....	35c
Freshman	3, QD.....	3171.....	35c
Freshman	G, 60 S.....	3172.....	45c
Freshman	N, 60, S.....	3173.....	\$1.35
Freshman	M, 60, S.....	3174.....	\$1.35
Freed Eisemann	NR80.....	3175.....	27c
Freed Eisemann	NR85.....	3176.....	27c
C. A. Earl	22, 24 (10,000-25,000)	3177.....	40c
C. A. Earl	31, 32, 41 (50,000)...	3178.....	35c
C. A. Earl	32S (100,00-50,000)...	3179.....	56c

Eddiestat O-1 Meg. Control



Heavy duty, variable voltage reducer—for "B" eliminators. Dissipates 4 watts. One hole mounting. Shpg. wt. 1 lb. Cat. No. 3568

Your Price **35c**

R.C.A. Brunswick 60 Ohm Power Amplifier Potentiometer

Cat. No. 3181
Your Price **25c**



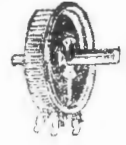
Freed and Earl 20 Ohm Hum Potentiometer

Cat. No. 3182
Your Price **15c**



Pacent 20 Ohm Potentiometer

Cat. No. 3183
Your Price **20c**



E-5 Bradleyohm

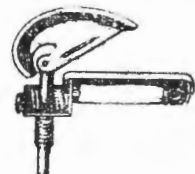


Heavy duty, variable voltage reducer—for "B" eliminators. Dissipates 4 watts. One hole mounting. Shpg. wt. 1 lb.

No. 682-E5. List \$2.25.

Your Price **30c**

Freshman Models "M" and "N" Volume Control



Cat. No. 3180

Your Price **\$1.35**

Carter 3,000 or 10,000 Ohm Volume Control

Cat. No. 3184
Your Price **25c**
\$2.75 DOZEN

Carter 200,000 Ohm Potentiometer

Wire wound. Air cooled.
Cat. No. 3185
Your Price **25c**
\$2.40 PER DOZEN



General Electric 200-Ohm Potentiometer Complete with Knob



Heavy duty wire wound unit on porcelain base. Contact arm is of wide wiping type giving a perfect contact at all times. Comes complete with brown bakelite knob.
Cat. No. 3287.. List \$5c.

Your Price **25c**

Bradleyometer



A 400 ohm potentiometer rated at 35 watts. The resistance unit is composed of carbon disks placed alternately between metal disks. The moving arm makes contact with the metal disks. Smooth even resistance variation. Noiseless operation. Made by the Allen-Bradley Co.

Cat. No. 3265. List \$3.25.

Your Price **69c**
5000 Ohm Size, 79c

Centralab Twin Potentiometer 10,000 and 250,000 ohms



An ideal volume control for all sets. Will not burn out. Operates quietly and uniformly always.
Cat. No. 3186.

Your Price **35c**
\$3.60 DOZEN

Carter Midget Air-Cooled Potentiometer 6 OHMS

Can be used to adjust filament voltages on all tubes.



Cat. No. 3187

Your Price **20c**

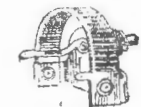
Pacent 20 Ohm Hum Control



Cat. No. 3186

Your Price **20c**
\$2.00 DOZEN

Hum Potentiometer



Used in all Brunswick and Bremer-Tully sets.
Cat. No. 3189.


Your Price **25c**

RESISTANCES

The question of choosing the correct resistor has become more and more confusing to the average Service Man, since the advent of new circuits and new electric tubes. To calculate the value of a resistor needed, to provide a grid bias, we find value in volts of bias needed, the current drawn at the plate voltage used and this will give the biasing resistor.

To find the biasing resistor needed the plate current (in amperes) of the tube or tubes to be biased is divided into the value of the bias in volts. For example, to find the biasing resistor for two 245 tubes, the plate current is 62 milli at 250 volts plate. The biasing voltage is 50 volts. Then, the plate current .062 amps. divided into 50 will give 745 ohms. However, any value from 700 to 800 ohms will give good results.

Wire-Wound Resistances



No.	Ohms	No.	Ohms
1862	10	2161	200
1863	10 C.T.	2102	400
1864	20	2103	550
1865	20 C.T.	2104	750
1866	40	2105	1,000
1867	10 C.T.	2106	1,500
1868	150 C.T.	2107	2,500

Net Prices for Resistances
Per dozen, **\$1.50**
assorted.....


Flexible Wire-Wound Grid Suppressors



No.	Ohms	No.	Ohms
1809	33	1875	500
1870	100	1876	600
1871	300	1877	700
1872	350	1878	900
1873	800	1879	1,000
1874	400	1880	1,200

10c each **\$1.00** dozen

C. T. Resistance



No. 685. 20 ohms.....	10c
No. 686. 40 ohms.....	15c

Your Price **10c**

Variable Grid Leak




Micrometer adjustment. Fits any grid leak mount. Range: 1 meg to 10 megohms. Shpg. wt. 4 ozs.

No. 3871

Your Price **48c**

Wire-Wound Grid Suppressors

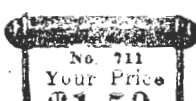


2300 Ohm Kolster Grid Suppressor No. 1889	\$1.50
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1000 Ohm Auster Grid Suppressor No. 1883

\$1.50 dozen

Carbon Resistors



No. 711

Your Price **\$1.50**

Per dozen

Choice of: 150-250-350-375-400-500-750-1000-1200-1500-2000-3000-4000-5000-10,000-15,000-20,000-25,000-30,000-40,000-50,000-75,000-150,000-500,000-2 meg-3 meg

RELIABLE VITREOUS ENAMELED RESISTANCE UNITS

These highest standard resistors are not to be confused with the surplus stocks of resistors now flooding the market—Reliable Vitreous as sold by us. ARE GUARANTEED ONE YEAR!



35 Watt Rating—2 in. Long			OUR PRICE
No.	Ohms	Mills	
1739	250	315	55c
1740	500	220	
1741	750	180	80c
1742	800	177	
1743	1,000	155	95c
1744	1,500	125	
1745	2,000	110	1.25
1746	2,500	100	
1747	3,000	90	
1748	3,500	84	

60 Watt Rating—4 in. Long			OUR PRICE
No.	Ohms	Mills	
1768	250	438	\$0.55
1769	500	310	
1770	750	253	1.15
1771	800	237	
1772	1,000	210	1.15
1773	1,500	170	
1774	2,000	150	1.30
1775	2,500	133	
1776	3,000	120	1.65
1777	4,000	105	
1778	5,000	95	1.90
1779	7,500	77	
1780	8,000	75	1.90
1781	10,000	67	

Brand-New, Fully Guaranteed Enameled Wire Resistors

2-Inch Size
Rated at 30 Watts

The resistors listed below are absolutely brand new and in perfect condition. Each resistor is individually and correctly labeled. They are wire wound and insulated with a heavy enamel. For use in all service work where drain does not exceed 40 watts. Our prices represent exceptional value for resistances of this quality. Order an assortment today.

Cat. No. 3147. Shpg. Wt., 8 oz.

Ohms	Your Price	Ohms	Your Price	Ohms	Your Price
5	\$0.24	750	\$0.28	8000	\$0.35
10	.24	800	.27	3250	.35
25	.24	1000	.26	8500	.35
50	.24	1100	.30	8750	.35
75	.24	1200	.30	4000	.33
100	.24	1250	.30	4500	.35
150	.24	1500	.30	5000	.35
200	.24	1750	.30	6000	.40
250	.25	1850	.30	7000	.40
300	.25	2000	.30	7500	.45
350	.25	2250	.30	8000	.45
400	.25	2400	.30	10000	.45
500	.25	2500	.35	12500	.45
650	.25	2750	.35	15000	.50

REPLACEMENT RESISTORS FOR ALL R.C.A.-VICTOR RECEIVERS


For R32, R32, R43

Replacement Resistors for 1929-30 Victor Receivers. This resistor is manufactured by Aerovox and is standard replacement for 1929-30 receivers. Total resistance is 2525 ohms tapped sections of 2000, 1800, 200 and 725 ohms. Resistor size is 8 1/2" by 1/2". Equipped with tinned soldering lugs.

Your Price **95c**

We can furnish replacement resistors for all type Radiolas and Victors. Give type receiver and resistor, or better yet, send in the old resistor.

Colonial Dividers



For Models 32-33-34

Voltage Divider for above models. 121,000 ohms tapped at 50,000, 10,000, 11,000 ohms.

Cat. No. 3148

Your Price **65c**

Bias Divider


For Models 32-33-34

4,200 ohms tapped at 1800 ohms.

Cat. No. 3148A

Your Price **50c**

R.C.A. Voltage Divider



For Radiolas 18, 33 and 51

Total 3040 ohms, tapped at 440 and 1600 with a separate 1000 ohm section. R.C.A. part No. 2242.

Cat. No. 3149

4 1/2" Long—100 Watts

Your Price, each..... **30c**

Freshman Fixed Resistances




Wire Wound—Baked on Lava Tubes 13,000 ohms total used in Freshman N Models. Tapped 1500, 4500, 3300, 6500 and 2200 ohms.

Cat. No. 3150

Your Price, each..... **75c**

Divider for Model M. Your Price 75c

Temple Resistances and Voltage Dividers (OHMITE)



6,850 ohms

Tapped at 1,000, 5,000, 850

21,800 ohms

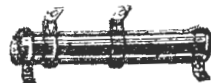
Tapped at 8,000, 1,600, 8,000

Can be used as voltage divider in any set.

Cat. No. 3151

25c each **\$2.00** dozen

Earl-Freed Resistance




4,750 ohms

Tapped at 4,000 and 750 Ohms

Cat. No. 3152

35c each **\$3.00** dozen

Bremer Tully 510 Resistor



4,500 Ohms

Cat. No. 3153

Special **60c**

RESISTORS ♦ PIGTAILS ♦ RHEOSTATS ♦ WIREWOUND

Metalized Pigtail or Carbon Resistors

A necessity for the Dealer and Service Man. All sizes carried in stock.

These resistors are accurate to plus or minus 5% if current rating of 1 watt is not exceeded.



Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
25	200	850	2,500	25,000	200,000
35	250	875	3,000	30,000	250,000
40	300	900	3,500	35,000	500,000
50	400	1,000	4,000	40,000	1 meg
65	500	1,100	4,500	50,000	1 1/2 meg
75	600	1,125	5,000	60,000	2 meg
100	700	1,200	10,000	75,000	3, 4, 5, 6, 7,
125	750	1,500	15,000	100,000	8, 9, 10
150	800	2,000	20,000	180,000	megs

Your Price **8 1/2c** each

Lots of 50 **8c** each

Lots of 100 **7c** each

Cat. No. 3369



Amsco Resistors



A standard grid leak mount resistor for use in power packs, "B" eliminators, etc. Has large power handling capacity. Non-inductive type resistor. Available in following popular sizes: 25,000 ohms, 15,000 ohms, 100,000 ohms, 250,000 ohms, 500,000 ohms, 1 megohm, 2.5 watt rating.

Your Price **20c**
\$2.00 Per Dozen

Cat. No. 3429

"20" Resistor Kit



This kit consists of 20 of the most commonly used sizes in present day receivers. They are rated at 1 watt and are accurate to about 5% on the small sizes and 10% on the larger sizes. Their small size and long tinned leads permit easy replacement and soldering. Odd-size values can be obtained by connecting two or more resistors in series or parallel. A compact kit and easy to carry. The Service Man cannot be without them. Color code furnished with each kit. Shpr. wt. 1 lb. (Cat. No. 3430. List \$0.00.)

Your Price **\$1.85**

Carter Wire Wound 3 Watt Resistors

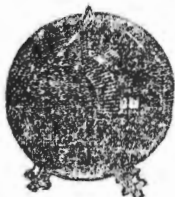


An accurate wire wound resistor capable of dissipating 3 watts. Grid leak mounting type. Supplied in the following sizes: 800 ohms, 1,000 ohms, 1,500 ohms, 1,700 ohms, 2,000 ohms, 5,000 ohms, 10,000 ohms.

Your Price **45c**

Cat. No. 3427

Rheostats



Perfect contact arm rheostats. Frames made of moulded bakelite. Very sturdy and will not heat up unduly. Complete with bakelite moulded knobs. Will serve many uses. Shpr. wt. 8 oz.

Type	List Price	Your Price
8 ohm.....	50c	\$1.00 Per Dozen
8 ohm with vernier.....	75c	
10 ohm.....	55c	
20 ohm.....	65c	
30 ohm.....	75c	
50 ohm.....	75c	

Cat. No. 3428

Variable Voltage Divider Variable Slides



This variable wire wound resistor was designed for heavy duty use in "B" eliminators, power packs, amplifiers, etc. where a strong variable resistance is required. The special high grade resistance wire is wound on a thoroughly baked, moisture-proof form. The sliders are set for the desired voltage and fastened into place. Resistance will not vary due to impure chemical properties in the wire. A low priced resistance and perfect in performance. Will take the place of 2 to 7 resistances. Furnished with mounting brackets. Especially adapted for replacement in Freshman and Earl receivers. All rated from 75 to 100 watts.

Cat. No. 3424.
10,000 ohm. 3 sliders.

Cat. No. 3425.
25,000 ohm. 4 sliders.

Cat. No. 3426.
50,000 ohm. 6 sliders.

Your Price **65c**

Your Price **85c**

Your Price **95c**

R.C.A. Voltage Control

MAINTAINS CONSTANT VOLTAGE



Originally made for voltage control in Brunswick B. P. A. 1A and K. P. A. 4, with Panatone receivers, but can be used with any power pack to maintain voltage by connecting from B minus to 90 volts plus. Connect B plus of base to B minus and Grid to 90 volts. Takes place of Radiotron 874.

Your Price **65c**

Cat. No. 3417

Carter Resistors

900 ohms 1,000 ohms



A special wire wound resistance coated with baked enamel to exclude moisture. 1 1/2" long, 1 1/2" diameter. Two sizes, 900 ohms, 1,000 ohms.

Cat. No. 3418
Your Price **25c**

Carter Voltage Divider

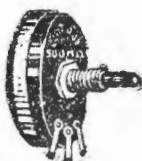


Wire wound baked enamel divider. Total resistance, 19,500; tapped at 2,000, 3,000, 4,000, 1,500 ohms.

Your Price **29c**

Cat. No. 3419

C.R.L. Volume Controls

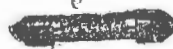


Non-inductive, carbon type for different set replacements. Long wearing, noiseless operation. 3,000 ohm, 5,000 ohm, 20,000 ohm, 50,000 ohm and 75,000 ohm sizes.

Your Price **25c**

Cat. No. 3420

Durham Metalized Resistors



Mechanically perfect metalized resistor. Accurate, will not vary because of very low temperature coefficient. Extremely quiet in operation even after years of service. A tested and proven product for manufacture service and repair. Pigtail and grid lead styles.

375 ohms	4,700 ohms
1,000 ohms	50,000 ohms
2,000 ohms	100,000 ohms
	1 megohms

Your Price **\$1.00**

Per Dozen

Cat. No. 3421

Splitdorf 12,500 ohm Resistor



Baked enamel wire wound resistance. Will stand heaviest loads without breaking down. 1/2 inches long 100 watt.

Your Price **25c**

Cat. No. 3422

Electrad 100,000 ohm Resistor

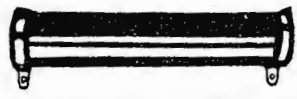


An "Electrad" product, wire-wound, impervious to moisture. Handles considerable current. Baked enamel 8" long.

Your Price **49c**

Cat. No. 3423

Wire-Wound Insulated Resistors 60-WATT RATING



These are Wire Wound Resistors. Never have they been offered at our low prices. They are all new and perfect, and each one is marked as to resistance value. These resistances are 4 in. long and are rated at 60 watts. Soldering lugs are furnished with each resistor.

Cat. No. 2008. Shipping weight: 12 ea. each.

Ohms	Your Price	Ohms	Your Price
10	32c	5,000	40c
20		6,000	
30		7,000	50c
50		7,500	
100		8,000	
250	34c	9,000	55c
500		10,000	
700		12,000	52c
750	40c	15,000	60c
1,000		25,000	
1,100		50,000	65c
1,150		70,000	
1,250		100,000	
1,500			
2,250			
2,500			
3,000			
4,000			

K-2673067 Resistor



407 Ohms Tapped at 270 and 310. Used in RPA5. Part No. R87. Cat. No. 3008 List, \$1.50. Your Price **60c**

K-2673090 Resistor



2,450 Ohms. Used in RPA 4 and 4A. Part No. R90. Cat. No. 3009 List, \$1.50. Your Price **60c**

K-2673091 Resistor



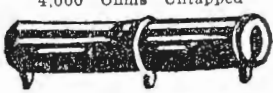
3,400 Ohms Tapped at 1,400 Ohms. Used in RPA 4 and 4A. Part No. R91. Cat. No. 3010 List, \$1.50. Your Price **60c**

K-2673047 Resistor



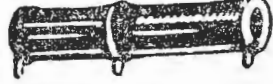
6,000 Ohms. Used in 7 and 7A. Part No. R47. Cat. No. 3011 List, \$1.50. Your Price **60c**

K-2670325 Resistor



4,000 Ohms Untapped. Used in RPA 1A and 4. Part No. R25. Cat. No. 3004 List \$1.50. Your Price **60c**

K-2673092 Resistor



810 Ohms Tapped at 300. Part No. R92. Used in RPA 4A. Cat. No. 3005 List \$1.50. Your Price **60c**

K-2673031 Resistor



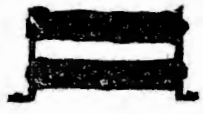
Part No. R31. 1,100 ohms tapped at 300 and 400. **K-633822 Resistor** 30 ohms tapped at 10, 10, 10. Part No. 2043. Used in RPA 3, 3A and 3B. Cat. No. 3006 List, \$1.50. Your Price **60c**

K-2673044 Resistor



1,100 ohms tapped at 200. Used in RPA 7 and 7A. Part No. R44. Cat. No. 3007 List, \$1.50. Your Price **60c**

REPLACEMENT RESISTORS



We can supply replacement resistors for all receivers. Write for prices.

Model	Resistance	Cat. No.	Your Price
EARL, All	1,000 ohm grid bias	3016	20c
EARL, Model 31, 32, 32S, 41	4,000-750 ohms	3017	35c
FRED, Model 65, 78, 79, 95	4,000-750 ohms	3018	35c
FRED EISEMANN, Model 78, 79, 95	5,000 ohm voltage divider	3019	35c
FRED EISEMANN, Model 16	1,000 ohms. Per doz.	3020	\$1.50
FRED EISEMANN, Model 16	510 ohms. Per doz.	3021	\$1.50
FRED EISEMANN, Model 411	1,750 ohms	3022	20c
FRED EISEMANN, Model 411	4,000 ohms	3023	20c
FRED EISEMANN, Model 411	550 ohms	3024	25c
FRED EISEMANN, Model 411	10 ohms	3025	20c
FRED EISEMANN, Model 411	350 ohms	3026	20c
FRED EISEMANN, Model 411	1,000 ohms	3027	20c
FRED EISEMANN, Model NR57	1,750 ohms	3028	20c
FRED EISEMANN, Model 57	4,000 ohms	3029	20c
FRED EISEMANN, Model 57	350-2,000 ohms	3030	22c
FRED EISEMANN, Model NR60	1,750 ohms	3031	20c
FRED EISEMANN, Model NR60	4,000 ohms	3032	20c
FRED EISEMANN, Model NR60	350-2,000 ohms	3033	22c
FRED EISEMANN, Model NR70	10,000 ohms	3034	25c
FRED EISEMANN, Model NR70	2,000-1,000-350 ohms	3035	25c
FRED EISEMANN, Model NR80	1,750-2,000 ohms	3036	35c
FRED EISEMANN, Model NR80	4,000-350 ohms	3037	35c
FRED EISEMANN, Model NR85	1,000-350-2,000 ohms	3038	40c
FRESHMAN, Model N60S	Voltage Divider	3039	60c
FRESHMAN, Model G60S	Voltage Divider	3040	60c
FRESHMAN, Model N12	1500 ohm Bias Resistance	3041	15c
FRESHMAN, All Models	1800 ohm Voltage Divider	3042	75c
FRESHMAN, G60S-10,950	ohm voltage divider	3043	75c
FRESHMAN, K60S-6560	ohm tapped at 1100, 1500, 1460, 1500, 1000	3044	75c
GENERAL MOTORS, No. 16005-9372	ohms tapped at 800, 50, 1863, 2000, 4500	3045	80c
SPLITDORF	12500 ohms	3046	35c
STROMBERG-CARLSON, 10 and 11		3047	80c
TEMPLE 8-60, 8-80, 8-90	6850 ohm voltage divider	3048	30c
TEMPLE D.C.	33 ohm voltage divider	3049	40c
TEMPLE 7-60 and 7-80	21-600 ohm voltage divider	3050	60c
TEMPLE, All 6850	ohm voltage dividers	3051	30c
TEMPLE, All 1500	bias	3052	30c

Wire-Wound Voltage Dividers on Baked Lava Tubes



Cat. No.	Ohms	Tapped At	Watts	Your Price
3053	2350	2000, 350	25	25c
3054	510	360, 90, 90	5	10c
3055	30	10, 10, 10	75	25c
3056	3350	2000, 1000, 350	25	25c
3057	5135	4185, 950	25	25c
3058	6850	5200, 900, 7500	50	30c
3059	6850	5000, 1000, 850	50	30c
3060	7090	90, 695, 6205	50	25c
3061	7835	3400, 3800, 55, 80, 40, 300	50	75c
3062	9450	5500, 3200, 750	50	25c
3063	1100	300	75	25c
3064	10000	5000	50	25c
3065	10000	3 sliders (variable)	100	75c
3066	12300	8000, 4300	50	25c
3067	12900	9000, 3200, 800	25	25c
3068	23600	2100, 10000, 10000, 1500	75	45c
3069	25000	4 sliders (variable)	100	90c
3070	21600	8000, 1800, 8000, 4000	100	60c
3071	60000	6 sliders (variable)	100	\$1.10

Kolster Wire Wound Resistance



Kolster No. 3983. 7,835 ohms tapped at 3,400, 3,800, 55, 80, 40, 360. Cat. No. 3012. Your Price **30c**. Kolster No. 4019. 5,700 ohms. Cat. No. 3013. Your Price **30c**

Stromberg-Carlson



3,100 ohm tapped at 1,100 ohm. Cat. No. 3014. Your Price **75c**. 6,000 ohm tapped at 3,000 ohm. Cat. No. 3015. Your Price **75c**

Audio Frequency Transformers and Impedances

Automobile and Portable Set Audio Transformers



Cat. No. 3764

For an audio transformer as small and compact as these, the amount of volume and pure tone derived has agreeably surprised the many manufacturers and set builders who have made their acquaintance. Totally shielded, black in color, these transformers make a very neat and attractive appearance. Four threaded holes in base allow for easy mounting. Supplied in two ratios, 4:1 and 9:1. When the 4:1 is used in a 1st stage audio and 9:1 used in 2d stage, an audio amplifier is obtained that will both delight and please you.

Your Price **35c**

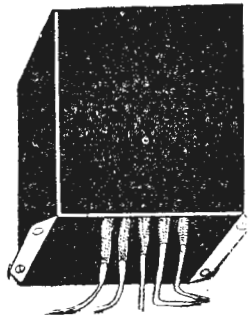
Mathew Kallio

General Motors Push-Pull Input Split-Secondary

A high grade transformer originally made for General Motors sets. Capable of handling tremendous volume with the best tonal reproduction.

Split-Secondary makes possible the location of the exact electrical center for minimum hum.

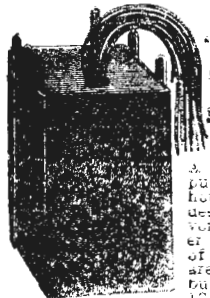
Only the most expensive and best transformers have this feature. Totally shielded, sealed in a strong can. An unusual value offered at an unusually low price.



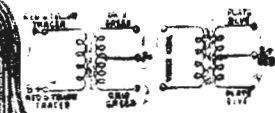
Cat. No. 3766

Your Price **\$1.45**

R.C.A. PUSH-PULL TRANSFORMER



PART NO 6116
For use in Radiola 50



A push pull audio unit with the output and input transformer in one housing. The output transformer is designed to connect directly to the voice coil of any dynamic loud speaker whose voice coil has an impedance of 10 to 35 ohms. The transformers are designed for use with 245 tubes but will give equally fine results with 171's, 345's, 310's and 850's. The primary of the input transformer is of sufficiently high impedance to operate out of screen grid or Power detector.

Your Price **\$1.09**

GENERAL RADIO AUDIO TRANSFORMER



No 485-H
List \$6.00

Your Price **\$1.45**

The essential feature of these transformers is in the input impedance being several times higher than the tube impedance at the lowest frequency is getting in the most faithful reproduction over the entire range. Type 485-D has a 3:1 ratio type 485-H has a 6:1 ratio. Shpg. wt. 1/2 lbs.

No 485-D
List \$6.00

Your Price **\$1.45**

Dynamic Speaker Output Transformer

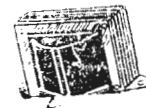
As used on all Fairland Brunswick Brnoel Fully Speakers Genuine 300 or coded leads. Pro tests speakers voice coil from burning out.



Cat No 3180

Your Price **85c**

Sangamo Type BX Push-Pull Input Transformer



With mounting bracket

Cat No 310

Your Price **75c**

Colonial Push-Pull Input



For Models 31-33-34

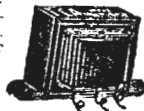
Genuine Colonial made transformers. Open frame type. Cat. No. 3761

Your Price **95c**

T.C.A. Push-Pull Output

With 15 ohm Output. Core of permalloy steel laminations. Entire register reproduced, convenient leads. A splendid replacement or unit for any set. Cat. No. 3762

Your Price **85c**



REPLACEMENT TRANSFORMER COILS



Cat. No. 3753

Your Price **20c**

OUTPUT CHOKE

Push pull for replacement in Peerless or Symington speakers.

Cat. No. 3754

Your Price **15c**

GREBE AUDIO TRANSFORMER

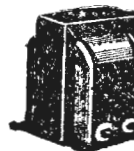
A mighty audio transformer for replacement in high-priced sets and for use in power amplifiers and Public Address Systems. Contains 4% Silicon-steel laminations. Straight line frequency response.

Cat. No. 3757

Your Price **95c**



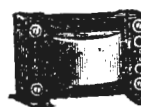
Thordarson Plate Impedance



Fully shielded in compact black metal case. Efficient and efficient. For all high grade power amplifiers. Use in series with plate, for parallel plate load circuits.

Your Price **79c**

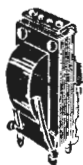
Federal Shielded 65A Audio Transformer



An old standby still in popular demand. Unusually well made. Fully shielded. All stage ratio. Shpg. wt., 3 lbs. Cat. No. 3756

Your Price **\$1.00**

FADA AUDIO TRANSFORMER



A high grade transformer for replacement in all Fada receivers. Can also be used in any receiver where a compact unit is needed. Ratio 3 1/2:1.

Cat. No. 3755

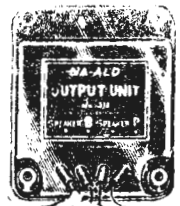
Your Price **45c**

NA-ALD OUTPUT UNIT

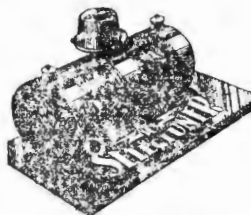
Essential for the protection of the windings of Magnetic or the Output Transformer of A.C. Dynamic Speakers against excessive voltage.

Cat. No. 3763

Your Price **45c**



SELECTUNER STATION SELECTOR AND STATIC REDUCER



Separates stations over the entire wave band on any type of receiver and effectively cuts through the locals and enhances the quality of reception. Insert between the aerial lead-in and the set. Shpg. wt. 1 lb.
No. 638. List \$1.50.

Your Price **75c**

FILTERVOLT



For most types of common interference about the home, arising from vacuum cleaners, sewing machines, electric fans, toasters, etc. Installed by plugging the unit into the wall socket between current and receiver. Shpg. wt. 1 lb.
No. 730. List \$3.00.

Your Price **\$1.71**

POWERTENNA



COMBINATION SOCKET ANTENNA AND CURRENT OUTLET
Shpg. wt. 1 lb.
No. 637. List \$1.00.

Your Price **59c**

BELDEN FUSED CABLE



A seven wire battery cable having the A and B circuits fused to protect the tubes. For all battery sets.
No. 1972.

Your Price **39c**

HAMILTON VOLTAGE REGULATOR



An air cooled voltage regulator. Prevents line voltage rising above 115 volts as is required for best operation and longest tube life. Ballasting type of resistor. Necessity for every A.C. receiver.
No. 1983. List \$1.50.

Your Price **55c**

FRESHMAN MIDGET CONDENSER



A seven-plate midget originally used on Freshman receivers as tuning verniers. Can be used in short wave receivers as neutralizers, regeneration controls, etc.

Cat. No. 3648

Your Price **45c**

FREED-EISEMANN NR80 VOLUME CONTROL STRIP



Used to replace the volume control strip in the model 80 receivers. Tapered type, resistance value 1,000 ohms.

Cat. No. 3647

Your Price **23c**

I.C.A. ACCURATUNER

Utilizing the Band Pass principle the Accuratuner by a simple adjustment allows you to cut out interfering stations. Eliminates cross talk and allows reception of distant stations through the locals.

Cat. No. 3648

List \$2.50



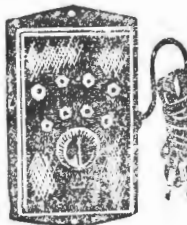
Your Price **\$1.47**

MULTI-SPEAKER RELAY

Allows the comparison of up to four speakers or the operation of two simultaneously. A turn of the knob switches from one speaker to another. Sturdily built; does not affect the operation of the set.

Cat. No. 3649

List \$2.75



Your Price **\$1.61**

ILLUMINATED DRUM DIAL



This is an artistically designed drum dial. An automatic spring take up insures positive drive at all times. The drum carrying the condensers is driven by a specially treated cord which is wound around the drum and connects with a small pulley on the shaft turned by the conrol knob. Turns smoothly and easily without back lash and will drive any multiple gang condenser. Mounts on sub-panel, baseboard or to the front panel. The scale is of black material with clear white letters illuminated. Engraved 0-100. Shpg. wt. 3 lbs.

No. 1971. List \$3.25.

Your Price **\$1.56**

Dial Light



Standard midget mazda socket. Innumerable uses.

Cat. No. 3072

Your Price **75c**
per doz.

Bronze Escutcheon Plate



Beautifies the radio.

Cat. No. 3073

Your Price **\$1**
per doz.

AMRAD VARIOMETER



Use as an antenna trimmer, regeneration control, inductance trimmer, in short wave sets. Quantity limited. No order now.

Cat. No. 3074

Your Price **39c**

SUB PANEL SOCKETS



Particularly adapted for use on metal sub-panels. Tinned lugs project through bottom for easy connection. Socket terminals are marked on the base to facilitate wiring. Heavy nickled phosphor bronze springs insure perfect contact. Shell of socket is one piece moulded bakelite. Supplied in 4 prong for UX type tubes and in 5 prong for UY type tubes. Shpg. wt. 1/2 lb.

No. 1982. List Price 35c.

Your Price **15c**

EBY BINDING POSTS



Non-removable top. Have hole through shanks. Bakelite. Shpg. wt., 4 ozs.

No. 365

Your Price **49c**
per doz.

NA-ALD BAKELITE SOCKETS

4 and 5 Prong

Cat. No. 361



Your Price **10c**
ea.

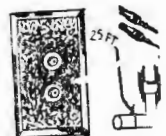
I.C.A. INSULTENNA

COMPLETE AERIAL AND GROUND
INSTALLATION
BUILT IN AND CONCEALED

Complete; mounted on brown bakelite plate which fits all standard boxes. Jiffy ground clamp and 25 ft. of connecting wire provides for connection to steam or water pipe. Shpg. wt. 4 lbs.

Cat. No. 3075. List \$3.75.

Your Price **\$1.95**



I.C.A. SUPER VOLTAGE CONTROL



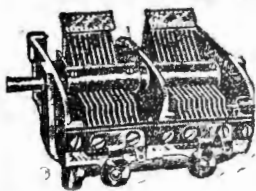
Universal, operates on A.C. or D.C. radios, including 32-volt farm systems. Constructed of brass and bakelite; approved by Board of Fire Underwriters. Capacity, 350 watts. Shpg. wt. 2 lbs.

Cat. No. 3076. List \$3.50.

Your Price **\$1.75**

Radio Frequency Tuning Coils and Condensers

DE-JUR TWO GANG VARIABLE CONDENSER

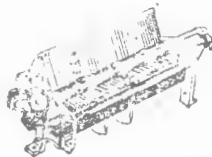


A sturdy, die-cast condenser, bath tub type. Two gang with each section .0005 mfd. capacity. Shaft is removable. Provided with heavy spring contacts on rotors and compensators for each section. Condenser sections shielded from one another.

Cat. No. 3774

Your Price **75c**

ZENITH 4 GANG DIE CAST CONDENSER



A heavily built variable condenser that will always keep its adjustment, due to superior design in construction. Condenser plates are 1/16" thick as against .034 in most condensers. Die cast for rigidity and strength. Capacity of each section is .00035 mfd., permitting its use in any receiver and for any purpose. Large spacing between plates and electrostatic shield between each condenser section. Equipped with pilot lamp bracket. Three hole base mounting. Shpg. wt., 8 lbs.

Cat. No. 3775 Your Price **\$1.25**

Above condenser equipped with toggle switch, automatically operated when condenser at minimum capacity. 25c extra.

Bruno .0005 R.F. Coil

One of the finest low loss coils available today. Wound on open frame form. Quartzite insulation. Requires a .0005 mfd tuning condenser to cover range of 200-575 meters. Shpg. wt., 1 lb.



Cat. No. 3791
Your Price **65c**

Super Het I.F. Transformers

Splendid units, complete with coils, sfil and tuning condensers. Designed for simple peaking at 175 K.D. Scientifically engineered for high gain and easy adaptability. Attractive aluminum shield cans. In matched sets of three.



Cat. No. 3777
Your Price **\$3.25**
Per set of three

R.C.A. I.F. Tuning Condensers

Double tuning condensers, mounted on Isolomite base. Capacity from 140 MMF to 220 MMF. For use with superhet I.F. transformer.



Cat. No. 3779 Your Price **75c**

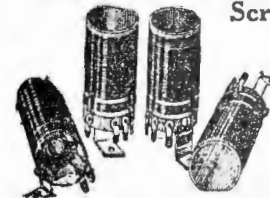
Bank Pass and Oscillator Coils

A complete set of tuning coils for the well designed super het. Enamel wire wound on bakelite tubing. These coils in conjunction with a 4 gang .000375 mfd condenser make a tuner of remarkable selectivity and sensitivity. For use with I.F. units described.



Cat. No. 3780
Your Price **65c** per set

Matched R.F. Multi-Mu Screen Grid Coils



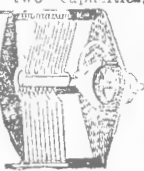
Cat. No. 3784

Accurately designed for use with .000375 mfd condensers. Consists of 4 coils, 1 antenna coil and 3 R.F. multi-mu coils matched for efficiency. Your Price **95c** per set of 4

Crosley Single Condensers

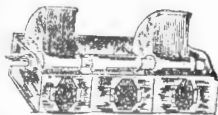
With Vernier Adjuster Genuine Crosley Condensers. Sturdy and well made units with aluminum plates. Can be had in two capacities, either .005 mfd or .001 mfd.

Cat. No.	Mfd	Your Price
3788	.0005	45c
3780	.0005 (with vernier adjustment)	45c
3700	.001 (with vernier adjustment)	50c



Special 2 Gang Condenser

Built into a 3 gang frame to prevent inter-reaction of sections. Plates of spring brass, each section of .0005 mfd. capacity. Ideal for use in receivers where isolation of R.F. circuits is necessary.



Cat. No. 3782

Your Price **\$1.35**

Colonial Condenser

As used in Colonial model 32. Brass plates, low loss porcelain insulation .0005 mfd capacity. Straight line frequency.



Cat. No. 3783
Your Price **45c**

General Motors Single .00035 Mfd Condenser

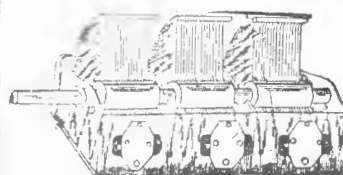
Low loss construction, sturdy, compensator for alignment. Equipped with drum, enabling use of several together for single dial control with copper coupling belts.



Cat. No. 3778

Your Price **45c**

3 GANG CONDENSER

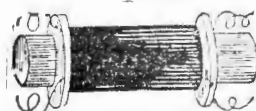


Strong bath tub type condenser. Plates of spring brass. Sections accurately matched; .0005 mfd capacity. Can be used in the highest grade tuners and receivers with maximum efficiency at low cost.

Cat. No. 3785

Your Price **\$1.95**

Day Fan-General Motors Untuned R.F. Transformer



The ideal untuned unit for use in all untuned input and R.F. stages. Carefully constructed. Primary and secondary wound on the same form. An excellent coupling device.

Cat. No. 3786

Your Price **35c**

Colonial R.F. Coils

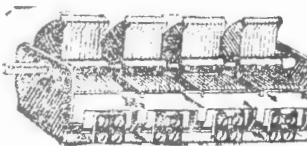
As used in Colonial model 32 receivers but wound only with secondary. Primary may be high impedance choke inserted within the 2"x1" coil form. With long mounting lug. Make fine screen grid coils.



Cat. No. 3787

Your Price **15c**

Day Fan G.M. 4 Gang Condenser



A 4 gang .000375 mfd bathtub condenser, die cast for durability. Each section accurately matched by means of signal generator, at the factory.

Cat. No. 3781

Your Price **95c**

R.C.A. Super Het I.F. Trans. Coils



Intermediate Frequency transformers peaked at 175 KC. Designed for use with 220 MMF capacity tuning condensers.

Cat. No. 3776 Your Price **19c**

Shield-Base-Cap

For 224-222-227 Tubes Astounding value! Base fits around any socket. Cap fits around grid terminal. Shpg. wt., 1 lb.

No. 166 SET OF 3 PIECES

Your Price **10c**



Equalizing Condenser

Compensates condenser sections, also used in neutralizing circuits.

No. 168

Your Price **15c**



Aluminum Shields



For all purposes. Heavy polished aluminum. 2 1/2"x2 1/2", or 2 1/4"x 8 1/16". State size desired in your order.

Cat. No. 3798

Your Price **73c** per doz. SINGLY, 10c EACH

MATCHED R. F. COIL SETS

FREED COILS



As used in Freed 95 and Earl 42 receivers. Impregnated form with mounting brackets. Long soldering lugs. For .0005 mfd. condenser.

Cat. No. 8793

Your Price **39c** ea.

Screen Grid Multi-Mu Coils

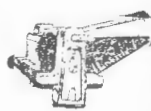


A high gain screen grid coil designed for multi-mu tubes, with high impedance primary. Used with .00035 condensers. Mounting brackets.

Cat. No. 3794

Your Price **35c** each

Hammerlund .0005 Condenser

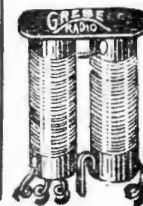


The well-known Hammerlund quality. Low loss, straight line frequency .0005 mfd. condenser with soldered plates.

Cat. No. 8705

Your Price **95c**

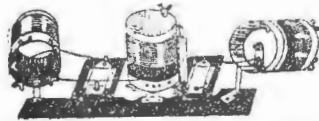
Grebe Binocular Coils



The famous Grebe Litz-wound bi-mu coils as used in A.C. 8 and A.C. 7. For use with .00025 condenser. Tremendous gain possible with this coil.

Cat. No. 3796

Your Price **35c**



THREE-COIL ASSEMBLY

R.F. and Detector coil assembly used in R.C.A. 38. Mounted on metal strip with 3 balancing condensers.

Cat. No. 3797

Your Price **\$1.10**

R.F. and OSCILLATOR COILS

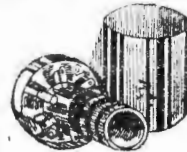


For Brunswick P138 and P148 and R.C.A. 28. Well wound and carefully designed coils.

Cat. No. 3798

Your Price **\$1.25**

MATCHED MULTI-MU COILS



Comes in sets of three or four matched coils, complete with aluminum shield cans with removable covers for use with .00035 condensers. Excellent for construction and conversion of variable-mu screen grid receivers.

Cat. No. 3799 Matched Set of Three

Your Price **\$1.25**

Cat. No. 3800 Matched Set of Four

Your Price **\$1.50**

GREBE CONDENSERS



A .00025 condenser complete with bakelite tuning knob and 8:1 ratio vernier. Compensating condenser. Ideal for use in oscillators. Covers entire broadcast range with proper coil.

Cat. No. 3801

Your Price **45c**

KELLOGG R.F. COILS



Four matched coils to the set. One antenna and three R.F. screen grid coils. Used in Kellogg receivers. For use with .0005 condensers.

Cat. No. 3802

Your Price **75c**

R.C.A. Neutralizing Condensers



Bakelite condenser with mounting holes. Used as R.F. compensator detector trimmer and plate coupling condenser.

Cat. No. 3803

Your Price **12c**

R.F. CHOKE



Bakelite case. 80 millihenry choke. Stagger wound to minimize distributed capacity.

Cat. No. 3804

Your Price **35c**

NUMBERED KNOBS



Beautiful bakelite knobs numbered 1 to 10. For multi gang meters, etc. Set screw shaft fastening.

Cat. No. 3806

Your Price **4c** each



FULL VISION DIAL



An attractive universal Full Vision vernier dial; will accommodate both 1/2" and 3/4" tuning gang shafts. Removable illuminated dial light bracket. Never slip friction drive. Shaft takes 1/8" knob. Beautifully colored celluloid scale.

Cat. No. 3808

Your Price **95c**

Freshman Basket Weave Coils



Set of 3 For .00035 mfd. condenser.

Cat. No. 3805

Your Price **30c** Per Set of 3

FREED DIAL SCALE



A translucent dial scale for Freed & Earl receivers. Numbered 0-100 and 550-1500KC.

Cat. No. 3807

Your Price **15c**
\$1.65 per doz.

Microphone Button



With this microphone button, a great many experiments can be made. A well designed and sensitive device that can be used as a dictaphone to listen in secretly on conversations amplify phone graph music, speech, etc. Directions furnished to make some twenty-five experiments.

Cat. No. 3809

Your Price **65c**



Microphone Button Transformer

A perfect microphone transformer for use with any microphone button. Accurately matched to give splendid reproduction and ease in connecting to the proper circuits in your amplifier.

Cat. No. 3810

Your Price **75c**



Amplex Lavite Resistors (3 Watts)

A very accurate resistor with plus or minus 3% accuracy. Comes complete with heavy snap mounting clips. 48,000 ohm size. Used wherever a very accurate resistor capable of carrying heavy current without change of resistance value is needed. Lavite resistors are non-inductive, compact and easily mounted. The special mounting clips provide good contact at all times.

Cat. No. 3823

Your Price **25c** ea.

HONEYCOMB COILS



Duo-lateral wound, varnished and unmounted coils.

Cat. No.	Turns	Your Price
3811	25	\$0.35
3812	50	.46
3813	75	.50
3814	100	.59
3815	150	.69
3816	200	.79
3817	250	.85
3818	300	.95
3819	450	1.10

Cat. No. Turns

Cat. No.	Turns	Your Price
3820	500	\$1.30
3821	600	1.50
3822	1000	1.75
3823	1500	2.50
3824	2000	3.95



Made by General Electric, these lamps are indispensable in the home. Can be used as indicators, circuit test "on" indicators, or as "night lights" consuming less than one hour. Available in two sizes with mushroom type electrodes.

Cat. No. 3586. Large Neon Lamp. Your Price

Cat. No. 3585. Small Neon Lamp. Your Price **65c**

Microphone Adapter



This handy little device enables you to use a microphone with any radio set. Ideal for testing. Cat. No. 3553. List \$1.00.

Your Price **59c**.

Jones Multi



The cable of many purposes. Used by years. For making instantaneous connections, both for and larger of tangled wires. Eliminates the need for a separate plug. Fits into socket only one way. Complete. Price ridiculously low.

Cat. No. 3538 Your Price **\$1.25 Co.**

Trouble Finder and Adapter



A valuable addition to every service man's testing equipment. Instantly adaptable in trouble shooting and making connections to a 4- or 5-prong socket where no wires are exposed. Grid, plate, cathode and heater circuits can be opened for ready insertion of meters or test equipment by only removing proper circuit link. May be used for connecting phonograph pickups or meters to radio sets or amplifiers. Shpg. wt. 4 ozs. Indicate type wanted—4- or 5-prong.

Cat. No. 3540 Your Price **95c**

Solderless Tips and Jacks



THE "EVER-SURE" GRIP TIP JACK. Single hole mounting. Nickerled. Cat. No. 3545

The perfect solderless tip plugs. Will fit any tip jack. Nickerled. Cat. No. 3544

42c
Per Dozen

45c
Per Dozen

Battery Clips

Finest battery clips ever made. Lead coated to prevent corrosion. Special springs will last lifetime. Convenient screw-terminal connection. Small size ideal for test lead clips and for hasty hook-ups.



Cat. No. 3531 15 amps Your Price **20 for 70c**

Cat. No. 3532 50 amps Your Price **10 for 90c**

Connector Plugs 4 and 5 PRONG



These plugs readily suggest themselves for many uses. Perfect for making external connection of dynamic speaker to receiver. For use in set analyzers to supply voltages to an external tuner from an amplifier. A strong, durable plug furnished either in 4 or 5 prongs.

Cat. No. 3539 Your Price **25c**

Socket for either above plugs. Your Price 15c.

Servicemen's Impregnating Compound



The long-awaited addition to shop equipment. It is now possible to use original transformer and condenser cans by melting out the defective units and replace a good, new part with this excellent impregnating compound. Simple to use: just heat the handy pail containing the compound and pour off the required quantity. A real buy. 9 lbs to the pail.

Cat. No. 3533 Your Price **75c**

Pentode Tube Adapter



Enjoy the great volume and clarity of the new Pentode power tubes without rewiring your present set. No external connections necessary with this handy little adapter. Insert Pentode into the adapter and then both into your present 245 power stage. The added results will more than pay for the cost of this well constructed unit.

Cat. No. 3285 Your Price **\$1.20**

Pickup A



Simple to use. Easy to connect. Phono pickups hooked up in fifty. Several styles. Grid filament or cathode; or breaking into plate circuit. Has other uses, like tone control adapter, etc.

Cat. No. 3541. List 75c. Your Price **29c**

Pocket Pen-lite



The perfect flashlight for radio service men, because of its size. Small and compact, it clips into the pocket as a fountain pen. Safety switch, an added feature, permits steady or intermittent lighting. Complete with battery and bulb. Shpg. wt. 1 lb.

Cat. No. 3534. List \$1.00. Your Price **29c**

17-Wire Cable

A splendid silk-covered cable for many purposes. Made up of 17 stranded rubber and silk covered wires, all differently colored. Can be used for remote control devices, multi-speaker installations, etc. At this price you should keep a supply on hand.

Cat. No. 3530 Your Price **12c per foot**

Bus Bar

Round hard-drawn No. 14 copper busbar. Well tinned for easy soldering. 18" lengths.

Cat. No. 3527 2 lengths Your Price **5c**
60 lengths Your Price **\$1.00**

Cat. No. 3543 Your Price **15c**

Detecto-lite



Tests any current from 110 to 560 volts and will indicate voltage and polarity, whether A.C. or D.C. It will show how many cycles and indicate line and ground wires. Sturdily constructed from bakelite. Slips into the pocket. An absolute necessity for radio service men, electricians, building superintendents, etc. Fool-proof. Shpg. wt. 1 lb.

Cat. No. 3529 Your Price **99c**

Rubber Sleeving

Strong, flexible, rubber tubing which can be made to serve different purposes. Ideal in automobile radio installations for covering cables and wiring to make them waterproof. Also as added insulation precaution. Comes 3/8" inside diameter.

Cat. No. 3528 Your Price **5c per foot**

Junior Test Leads

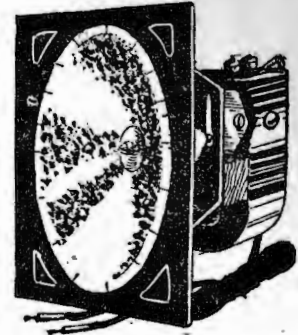


A pair of genuine R.C.A. leads colored for polarity. Equipped with phone tips at one end and the other solder-dipped. Hundreds of uses will suggest themselves when you see these leads. Get several dozen pair at this special price. 5 feet long.

Cat. No. 3525 Your Price **23c per pair**

SPEAKER

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...ut-
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... Measures
...nting lugs
...he unit are
...rge tungsten
...sis. Complete



YOUR PRICE **\$4.50**

on YOUR PRICE **\$3.90**

Carlson YOUR PRICE **\$1.90**

ELECTROLYTIC CONDENSERS

... electrolytic condensers.
... Will mount in very little
... a, because of higher capacity.

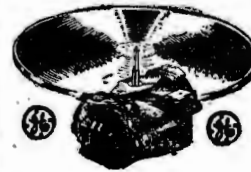


Cat. No.	Cap. Mfd.	Peak Volts	Anodes	Your Price
3915	18	500	2	\$1.65
3916	24	500	3	1.95
3917	32	500	4	2.35
3918	36	500	3	2.65
3919	52	500	4	3.35
3920	54	500	4	3.35

For By-Pass and Bias Resistors in Pentode Amplifiers

Cat. No.	Cap. Mfd.	Peak Volts	Anodes	Your Price
3921	5 mfd.	25	1	.30
3922	10 mfd.	25	1	.30

General Electric Phonograph Motor



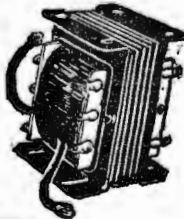
A quick starting heavy duty phonograph motor. Product of General Electric. Equipped with a 12-inch turnable and automatic speed control. Powerful torque. Measures 4 1/4 x 7 1/4 inches. For 110 volt, 50 to 60 cycle A.C. operation only.

Cat. No. 3908

Your Price **\$9.50**

Zenith A. C. Power Transformer

Replacement for Zenith 33, 33-X, 34, 35, 35-Z. Delivers 300 volts each side of center tap. Also supplies 5 volts at 1/2 ampere for two 171-A's, 5 volts at 3 amperes for 280, and 2 1/2 volts winding for seven 224's or 227 tubes.



Cat. No. 3923

Your Price **\$1.95**

Peerless Courier No. 22 Voltage Divider

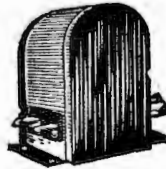


Contains two separate sections of 100,000 and 2,500 ohms. Also following sections in series 2,000, 150,000, 100,000 and 500,000 ohms.

Cat. No. 3924

Your Price **65c**

Peerless Audio Transformers

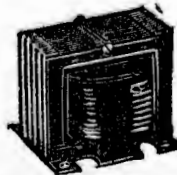


A high-grade moisture proof transformer. Special iron core. Tinned lugs for easy soldering. Flat amplification curve. All stage ratio.

Cat. No. 3925

Your Price **65c**

2,500-Ohm Filter Choke



This choke is designed to be used in place of the dynamic speaker field. By inserting this choke you can use any speaker with your receiver without impairing the efficiency of the power supply unit.

Cat. No. 3926

Your Price **\$1.85**

Flechthelm Superior Electrolytic Condensers



Wet Type—Inverted

An 8 mfd. unit having the finest electrical characteristics to be used in standard filter circuits where peak voltage is not over 500 volts D.C. For use in 45 and Pentode circuits which employ a plate transformer delivering up to 375 volts RMS A.C.

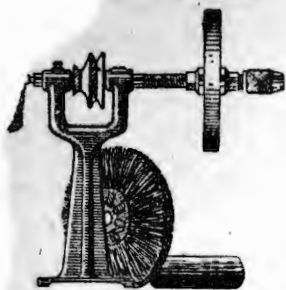
Cat. No. 3927

Your Price **95c**

Important Notice

Future issues of our catalog will only be mailed to those who are interested in receiving future bulletins of this type. New catalogs and flyers and notes of special interest will be mailed regularly to you if your name is on our 1932 mailing list. Write and ask to be placed on it now. Address Department 32.

ING HEAD

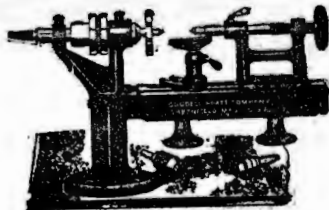


chine will find many a use in the laboratory. Precision built through-rings and all steel parts are highly

A two step pulley is provided for ng. It is provided with a carefully taper screw on one end. The other s an arbor having a 3/4" capacity uck. The polishing head comes with wheel, a Carborundum grinding stone, wire cleaning wheel and a piece of rouge. This polishing head can be a grinder or as a polisher, to clean f small metal parts. It can also be a horizontal drill press. The polish- d is finished in red enamel and polished Comes complete with buffer wheel, grindstone, wire brush wheel and buf- age. Shpg. wt. 6 lbs.

919. Complete with all Attachments
Your Price **\$2.25**

**GOODSELL PRATT
UTILITY BENCH LATHE**



No. 1919. Complete with all Attachments. The Lathe is perhaps the most versatile tool to be found in the experimenters "shop." This size, we have selected as the most convenient for radio work. The Lathe is a product of Goodsell-Pratt Co., an assurance of good workmanship. It is substantially constructed throughout. The bed is 12" long and is milled its entire length. The head stock has a spindle with a taper hole in both ends, in which the regular equipment, consisting of a taper thread spindle, saw arbor, 0 to 5/32" capacity check and slotted face plate, fit. The tail stock is adjustable for position and is equipped with screw feed and clamp lock. The rest is adjustable for position and height. Extreme distance between centers is 3 1/4". Swing 5". The pulley steps are 1" and 1 1/4" in diameter with 3/4" face. Large step is grooved, so round belt can be used if desired. Frame, tail stock and tee rest finished in red and black enamel. Steel parts are polished. Shpg. wt. 18 lbs. No. 1918.

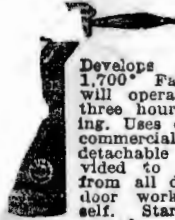
Your Price **\$9.85**

**AUTOMATI
BENCH**

This is a fine bench drill for general use in the radio shop. It takes all round shank drills up to 1/2". All the working parts of this machine are clamped to a 10" steel rod of 3/4" diameter, which sets into a black enameled base that takes a bench space of only 4" by 3". The automatic feed is operated by the hand wheel and thumb screw at the top of the steel feed screw. The automatic feed will lower the drill and raise it at a rate determined by the cutting speed. The drive shaft is constructed with 3/4" thrust ball bearing. Gears and pinions are machine cut from solid blanks. The table proper is 2 1/2" square. All iron parts are finished in red and black en... all steel parts are polished. A clamp is vided to hold the drill to the table wh drilling. Shpg. wt. 6 lbs. No. 1920.

Your Price **\$2.45**

**Lenk Automatic
Blow Torches**



Develops a blast of 1,700° Fahrenheit, and will operate for about three hours on one filling. Uses denatured and commercial alcohol. A detachable shield is provided to protect blast from all drafts on outdoor work. Blows itself. Starts in twenty seconds. 7" long by 3 1/4". Highly nickel plated. Shpg. wt. 3 lbs. No. 605-30. List \$3.00.

Your Price **\$2.06**



**Blow
Torch**

6 1/4" x 2 1/4". Flame heat 1400°. Leak-proof. Uses denatured alcohol. Nozzle cap. Blows itself. Shpg. wt. 1 lb. No. 606-66. List \$1.74

Your Price **\$1.20**

Radio Tool Chest



The most necessary and ever needed radio tools are in this kit—should be in every custom set builder's or service man's tool box. And just as useful in your laboratory or workshop. Here are the contents: 3 and 6 in. screw driver, scriber, reamer, countersink, pliers, center-punch, socket wrench set for hexagon and knurled nuts; and 3 wrenches for hexagon nuts, ranging from 3/4" to 1 1/2". Attractive cardboard case. Shpg. wt. 3 lbs. No. 609. Your Price **\$1.95**

Aluminum Solder



No. 609. Per 2 oz. strip (17"x3/16") **21c**

**Diagonal Cutting
Pliers**



Snips wires off in pleasing manner. Shpg. wt. 8 ozs. No. 587-486. Your Price **43c**
6" long. Your Price **49c**
No. 588-496. Your Price **49c**
6" long.

Klein Pattern Pliers



Shpg. wt. 1 to 2 lbs. No. 589-493. Your Price **55c**
6" long. Your Price **70c**
No. 590-493. Your Price **70c**
8" long.

Combination Pliers



INSULATED HANDLES! TESTED TO 5,000 VOLTS! Combines side cutter, wire cutter, flat nose, and gas piler, screw driver and reamer. Correctly hardened and tempered jaws and cutters. First quality. Shpg. wt. 1 to 3 lbs. No. 584-493. Your Price **55c**
6" long. Your Price **65c**
No. 585-493. Your Price **65c**
7" long. Your Price **75c**
No. 586-493. Your Price **75c**
8" long.

Telephone Pliers



Long nose, with side cutter. 5 1/2" long. First quality hardened and tempered steel. Shpg. wt. 8 ozs. Your Price **39c**
No. 583-484. Price

Wrench Set



Adjusts nuts impossible to reach with other larger tools. Fits 1/4", 1/2", 3/4", 1", 1 1/4" and 1 1/2". An alligator jaw tool included fits odd sizes. Shpg. wt 8 ozs. Note case. Your Price **23c**
No. 602-2034. Price

Reamer



ENLARGES drilled holes in bakelite and wood. Shpg. wt. 8 ozs. No. 578. Your Price **21c**

Socket Wrench Set



The 5 sockets (1/4", 1/2", 3/4", 1", 1 1/2") snap on to metal shank—grip hex. nuts firmly. An old favorite. Shpg. wt. 1 lb. No. 579. Your Price **55c**

Scriber

Cat. No. 604. Your Price **23c**

**Electric Soldering
Iron**



Maximum performance at a minimum cost! Long life nichrome wire heating element. Best materials throughout. Shpg. wt. 1 lb. No. 610. List \$2.50. Your Price **87c**
Extra Tip, 15c each

Rosin-Core Solder

Simplifies soldering — assures perfect electrical and mechanical joint. No. 607. 4 oz. can. Your Price **17c**
No. 608. One Pound Spool. Your Price **63c**

Perfect Grinders

Cat. No. 3378. 4" Wheel. Your Price **99c**
Cat. No. 3379. 5" Wheel. Your Price **\$1.47**
Cat. No. 3380. 7" Wheel. Your Price **\$2.98**

Bench Vises

Carefully machined and polished jaws. Unusually sturdy. Opens wide, and clamps on any place. Steel screw, two steel guiding rods.



Cat. No. 3382. 2 1/2" wide jaw. Your Price **\$1.35**
Cat. No. 3381. 3 1/2" wide jaw. Your Price **\$2.25**

Sawset



Panel blade—10" keyhole blade, rectly hardened, med. Shpg. wt.

Cat. No. 3554
Your Price **9c**

on Square



1/2" rule, try-square or re 45°. Divided into 1/4ths, on both sides, machined. Shpg. wt.

Cat. No. 3946
Your Price **78c**

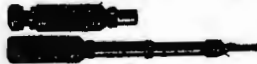
Every-Use Electric Motor Attachment



Holds grindstone, buffs, saws, drills, wire scratch brushes, etc., for grinding tools and cutlery, polishing and buffing of all kinds, drilling holes, preparing metals for welding. Simply fastens with set screws directly to shaft of your small motor in a jiffy. Made of highest grade cold rolled steel, with machined flanges, and fitted with three jaw 0 to 9/32" drill chuck. Comes in five sizes to fit 1/4", 1/2", 3/4", 1" and 1 1/2" motor shafts. Be sure to state size of your motor shaft when ordering. Shpg. wt. 2 lbs.

Cat. No. 3558
Your Price **98c**

Automatic Push-Drill



Nickel plated, fully hardened steel. Extra heavy spring, released by knob at top of handle by simple turn. Handle contains 8 drill points from 1/16" to 11/64", each in separate compartment. Shpg. wt. 3 lbs.

Cat. No. 3559
Your Price **\$1.56**

Carbon Steel Twist Drill Sets



Consists of one of each drill: 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16".

Cat. No. 3561
Your Price **35c**

Consists of one drill each size from No. 1 to No. 60. Wire gauge. 60 drills in all. Shpg. wt. 1 lb.

Cat. No. 3562
Your Price **\$1.95**

Both of the above drill sets are put up in conveniently folded paper containers.

Friday 1001 Kit



Just the kit for those installation jobs. Contains 7 pieces. Natural finish. Drop forged tools. Contains: 5" Screw Driver, 6" Comb Plier, 9" Wrench, 10 oz. B.F. Hammer, 3/8" Cold Chisel, 25 D.E. Wrench, 3/8" Punch. Shpg. Wt. 7 lbs. List \$5.00

Cat. No. 3555
Your Price **\$1.50**
In Lots of Six, \$9.35

Handrill



Solid disc wheel, 3 jaw chuck opens to 1/4". Very carefully machined. 11 1/4" long. Shpg. wt. 3 lbs.

Your Price **89c**

Angle Wrenches



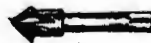
Drop forged steel, correctly hardened and tempered. Note bolt adjusting jaw mechanism. Shpg. wt. 2 to 5 lbs.

6" long.
Cat. No. 3563
Your Price **41c**

8" long.
Cat. No. 3564
Your Price **59c**

10" long.
Cat. No. 3565
Your Price **79c**

Countersink



Fits all hand and breast drills. Size 3/8". Shpg. wt. 4 ozs.

Cat. No. 3560
Your Price **19c**

Heavy Duty Electric Soldering Iron



Uses famous long life nichrome heating element. Perfectly balanced. Cool handle. Long copper tip.

Cat. No. 3566
List \$2.50
Your Price **\$1.15**
Extra Tips, 15c each

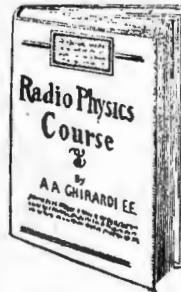
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SERV
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TECH
STUDE
EXPERIM

Can Afford to Be Without th
"RADIO PHYSICS COURSE"

BY

ALFRED A. GHIRARDI, B.S.E.E.



Associate Editor "Radio Magazine. In charge of ment of Radio Comm and Applied Electricity in York Technical Prep School. Formerly Associ tor "Radio Engineering," Mechanics." Former Te Consultant, Pilot Radio and Corp.

FREE!

This \$2.50 book, one of the best ever writt one of the finest texts on radio. Used as book in the R.C.A. Institutes, and many throughout the country. We are giving this away free to our customers with every order merchandise amounting to \$15.00 or more. is your opportunity to get this \$2.50 book lutely free, the first time an offer like this has been made.

Rauland Ultra Violet Lamp



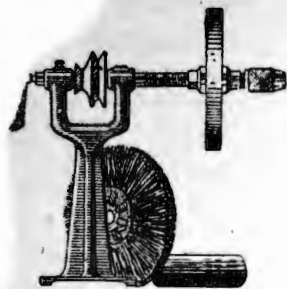
This lamp is designed for home use. The perfected Arc control consists of a single exposed lever. It will operate on A.C. or D.C. Special safety construction prevents any chance of burning. Costs no more to operate than average electrical appliance. Neat, trim, well-proportioned. Finished in hard baked enamel of crackle design—silver and grey in color. The Rauland health lamp will relieve colds and respiratory disorders; kills

infections and every known bacteria; enriches the blood with calcium, iron and phosphorus, prevents rickets, and is a good tonic for nervous disorders. The Health lamp comes complete with special protective goggles, six type A (sunshine) carbons, handy tongs for removing carbons, wire screen for reflector, instruction book and treatment book. Shpg. wt., 30 lbs. Cat. No. 3567.

Table Model. Shpg. wt. 15 lbs.
List Price \$29.50. Your Price..... **\$11.75**

Extra Sun Ray Carbons, per doz.
Your Price..... **\$1.25**

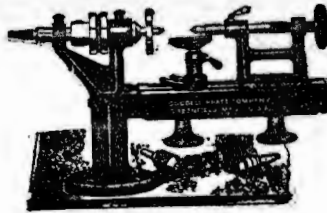
ING HEAD



ships will find many a use in the laboratory. Precision built through-rings and all steel parts are highly durable. A two step pulley is provided for use. It is provided with a carefully tapered screw on one end. The other is an arbor having a 1/8" capacity chuck. The polishing head comes with a wheel, a Carborundum grinding stone, wire cleaning wheel and a piece of rouge. This polishing head can be used as a grinder or as a polisher, to clean all small metal parts. It can also be used as a horizontal drill press. The polishing is finished in red enamel and polished. Comes complete with buffer wheel, grindstone, wire brush wheel and burr. Shpg. wt. 6 lbs.

No. 1919. Complete with all Attachments. Your Price **\$2.25**

GOODSELL PRATT UTILITY BENCH LATHE



No. 1919. Complete with all Attachments. The Lathe is perhaps the most versatile tool to be found in the experimenters "shop." This size, we have selected as the most convenient for radio work. The Lathe is a product of Goodsell-Pratt Co., an assurance of good workmanship. It is substantially constructed throughout. The bed is 12" long and is milled its entire length. The head stock has a spindle with a taper hole in both ends, in which the regular equipment, consisting of a taper thread spindle, saw arbor, 0 to 5/32" capacity check and slotted face plate, fit. The tail stock is adjustable for position and is equipped with screw feed and clamp lock. The rest is adjustable for position and height. Extreme distance between centers is 3 1/2" Swing 5". The pulley steps are 1" and 1 1/2" in diameter with 1/2" face. Large step is grooved, so round belt can be used if desired. Frame, tail stock and tee rest finished in red and black enamel. Steel parts are polished. Shpg. wt. 15 lbs. No. 1918.

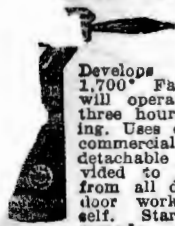
Your Price **\$9.85**

AUTOMATIC BENCH

This is a fine bench drill for general use in the radio shop. It takes all round shank drills up to 1/2". All the working parts of this machine are clamped to a 10" steel rod of 1/2" diameter, which sets into a black enameled base that takes a bench space of only 4" by 3". The automatic feed is operated by the hand wheel and thumb screw at the top of the steel feed screw. The automatic feed will lower the drill and raise it at a rate determined by the cutting speed. The drive shaft is constructed with 3/4" thrust ball bearing. Gears and pinions are machine cut from solid blanks. The table proper is 2 1/4" square. All iron parts are finished in red and black enamel. All steel parts are polished. A clamp is provided to hold the drill to the table while drilling. Shpg. wt. 6 lbs. No. 1920.

Your Price **\$2.45**

Penk Automatic Blow Torches



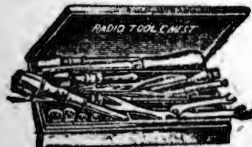
Develops a blast of 1,700° Fahrenheit, and will operate for about three hours on one filling. Uses denatured and commercial alcohol. A detachable shield is provided to protect blast from all drafts on outdoor work. Blows itself. Starts in twenty seconds. 7" long by 3 1/4". Highly nickel plated. Shpg. wt. 3 lbs. No. 805-30. List \$3.00. Your Price **\$2.06**

Blow Torch



9 1/4" x 2 1/4". Flame heat 1400°. Leak-proof. Uses denatured alcohol. Nozzle cap. Blows itself. Shpg. wt. 1 lb. No. 606-66. List \$1.74. Your Price **\$1.20**

Radio Tool Chest



The most necessary and ever needed radio tools are in this kit—should be in every custom set builder's or service man's tool box. And just as useful in your laboratory or workshop. Here are the contents: 3 and 5 in. screw driver, scriber, reamer, countersink, pliers, center-punch, socket wrench set for hexagon and knurled nuts; and 3 wrenches for hexagon nuts, ranging from 1/4" to 3/8". Attractive cardboard case. Shpg. wt. 3 lbs. No. 609. Your Price **\$1.95**

Aluminum Solder



No. 609. Per 2 oz. strip (17" x 3/16") **21c**

Diagonal Cutting Pliers



Snips wires off in pleasing manner. Shpg. wt. 8 ozs. No. 587-486. Your Price **43c** 6" long. No. 588-486. Your Price **49c** 6" long.

Klein Pattern Pliers



Shpg. wt. 1 to 2 lbs. No. 589-493. Your Price **55c** 6" long. No. 590-493. Your Price **70c** 8" long.

Combination Pliers



INSULATED HANDLES! TESTED TO 5,000 VOLTS! Combines side cutter, wire cutter, flat nose, and gas piler, screw driver and reamer. Correctly hardened and tempered jaws and cutters. First quality. Shpg. wt. 1 to 3 lbs. No. 584-493. Your Price **55c** 6" long. No. 585-493. Your Price **65c** 7" long. No. 586-493. Your Price **75c** 8" long.

Telephone Pliers



Long nose, with side cutter. 5 1/2" long. First quality hardened and tempered steel. Shpg. wt. 8 ozs. Your Price **39c** No. 583-484.

Wrench Set



Adjusts nuts impossible to reach with other larger tools. Fits 1/4", 1/2", 3/4", 1" and 1 1/2". An alligator jaw tool included fits odd sizes. Shpg. wt 8 ozs. Note case. Your Price **23c** No. 602-2034.

Reamer



ENLARGES drilled holes in bakelite and wood. Shpg. wt. 8 ozs. No. 578. Your Price **21c**

Socket Wrench Set



The 5 sockets (1/4", 1/2", 3/4", 1", 1 1/2") snap on to metal shank—grip hex nuts firmly. An old favorite. Shpg. wt. 1 lb. No. 579. Your Price **55c**

Scriber



No. 604. Your Price **23c**

Electric Soldering Iron



Maximum performance at a minimum cost! Long life nichrome wire heating element. Best materials throughout. Shpg. wt. 1 lb. No. 610. List \$2.50. Your Price **87c** Extra Tip, 15c each

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Perfect Grinders

Cat. No. 3376. 4" Wheel. Your Price **99c** Cat. No. 3379. 5" Wheel. Your Price **\$1.47** Cat. No. 3380. 7" Wheel. Your Price **\$2.98**

Bench Vises



Carefully machined and polished jaws. Unusually sturdy. Opens wide, and clamps on any place. Steel screw, two steel guiding rods. Cat. No. 3382. 2 1/2" wide jaw. Your Price **\$1.35** Cat. No. 3381. 3 1/2" wide jaw. Your Price **\$2.25**