

RADOLEK 1935

RADIO PROFIT GUIDE
for DEALERS-
RADIO SERVICEMEN

MODEL RADIO SERVICE

AUTO RADIOS INSTALLED

RAYTHEON
TUBES

REPLACE

YOUR WORN OUT TUBES
with RAYTHEON 4 PILLAR TUBES

TUBES
TESTED
FREE

We Repair
ALL MAKES
and MODELS of
RADIO SETS

EUROPEAN
RECEPTION

AUTO
RADIO
42.50 INSTALLED

WE RENT RADIOS

PUBLIC ADDRESS SYSTEMS
RENTED

YOUR
STORE

Prepare for Your
Biggest Radio
—Season—
PROFIT WITH
RADOLEK'S
LOWEST
WHOLESALE
PRICES!

RADOLEK CO.
601 W. RANDOLPH ST. CHICAGO.

World Radio History



ARKAY "TONE-CONDITIONED" RADIO

MODEL RKC-4 (AC-DC)

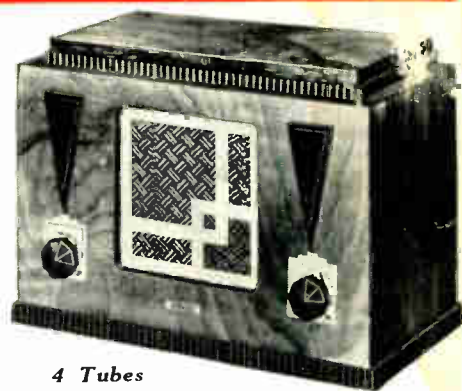
A superb 4-Tube R.F. series filament AC-DC Receiver in an unusually attractive cabinet size 5x7x10½ inches wide. Modernistic design, richly finished in two-tone walnut with gleaming chrome trimmings. Brings in police calls . . . Full-flux Quam Dynamic Speaker . . .

Ball bearing Tuning Condenser . . . Polymet Filter Condenser . . . Self-contained flexible Aerial which may be run under the rux for locals or out of the window for distance. Series heater line cord prevents overheating inside cabinet. Following Tungsol Tubes used and furnished: 1-25Z5, 1-43, 1-6C6, 1-6D6.

Just the Set for those who favor the striking new modernistic designs, and a marvelous bargain. Made to sell to the Trade at \$11.63; you get an extra discount of about 19% at our price. 110-120 volt A.C.-D.C.

14E10977—
List Price, \$22.95.
YOUR SPECIAL PRICE

\$11⁹⁵

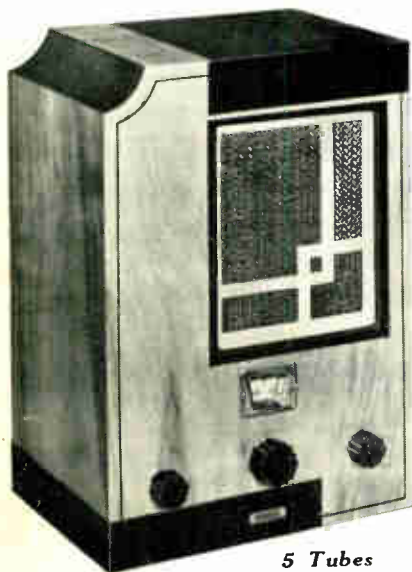


4 Tubes

Dealers—here is a line of Receivers that we especially recommend. They are far above the average in workmanship and performance; and their striking modernistic designs will quickly commend themselves to your customers.

For a limited time we are giving you an extra discount of almost 20% on the ARKAY Models, just to introduce them . . . By all means take advantage of these prices immediately. The sooner you introduce them to your customers, the greater your sales will be.

ARKAY MODEL RK50



5 Tubes

- 5-Tube Superheterodyne
- Broadcasts and Police Calls
- Illuminated Vernier Dial Kilocycle Calibration
- Delayed Automatic Volume Control
- Latest Type Tubes
- Dust-proof Chassis All Parts Concealed
- Surging Volume
- Beautiful Tone
- Good Sensitivity
- Keen Selectivity
- Beautiful Cabinet

When we say that the ARKAY Model RK50 is the best looking, best performing, most salable 5-Tube Table Model Superheterodyne we have ever listed, we express but part of our enthusiasm for this remarkable little Set. At the regular Dealer's price of \$21.13 it is a bargain. . . . At our present Low Price of only \$15.95 you save another 30% which allows you just that much more profit on every sale. Its 5-Tube Superheterodyne circuit, **Tone Control**, **Delayed Automatic Volume Control**, **Illuminated, vernier driven Dial graduated in kilocycles**, 6½ inch licensed Dynamic

Speaker and beautiful modernistic cabinet finished in maple and ebony with chrome grill and escutcheon distinguishes it among all other Sets of this type. Covers regular broadcast band and police calls, 550 to 1650 K.C. Following latest types tubes used and supplied: 1-55, 1-37, 1-58, 1-2A5, 1-80. Overall size 6x8x12 inches high. For 110-120 volt 50/60 cycle A.C.

14E10978—Arkay Model RK50 5-Tube A.C. Complete with tubes.
List Price, \$29.50.

YOUR SPECIAL PRICE

\$15⁹⁵

ARKAY MODEL RK60

- Superheterodyne Circuit
- Automatic Volume Control
- Illuminated Vernier Dial Kilocycle Calibration
- Licensed Dynamic Speaker
- Latest Type Bakelite Moulded Sockets

The Arkay Model RK60 is somewhat larger than the RK50 and provides the better tone quality and improvement in overall performance which is to be expected from its larger Speaker, increased baffle area, additional tube, and slightly greater cost. It employs a six-tube Superheterodyne circuit of the most advanced design and an 8 inch Utah Dynamic Speaker. Four tuned 175 K.C. IF stages and three-gang Tuning Condenser provide adequate selectivity for any locality. An extra heavy Power Transformer and over size Condensers insure years of trouble-free service. Push-pull 45s are used in the output stage to provide a richness of tone that is equalled in none except the finest

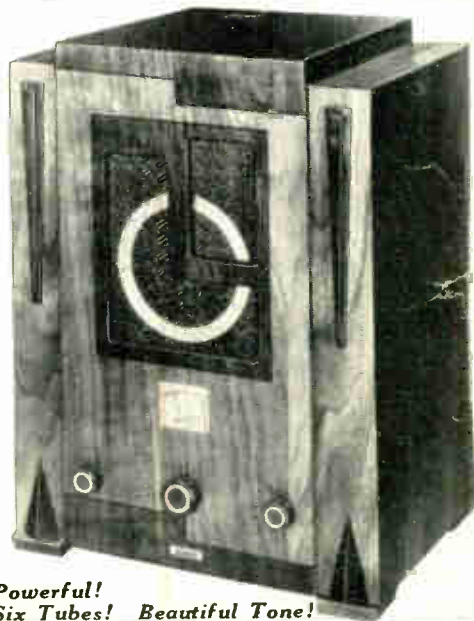
- Dust-proof and Safety Chassis
- Equipped with Latest Tubes
- Beautiful, hand-rubbed finished Cabinet
- Covers Broadcast Band and Police Calls
- Chrome Trimmings

console type Receivers. The illuminated Dial is vernier driven and is graduated in kilocycles. **Tone Control** and **delayed Automatic Volume Control** are incorporated. Housed in a beautiful finished modernistic, two-tone walnut finished cabinet with chrome ring in grill, chrome escutcheon and chrome trimmed knobs. Size 11¼x8½x15 inches high. Tubes used and supplied: 1-57, 1-58, 1-55, 2-458, and 1-80. (Tungsol). Covers regular broadcast band and police calls, 550 to 1650 K.C. For 110-120 volt 50/60 cycle K.C.

14E10979—Arkay Model RK60 6-Tube A.C. Complete with tubes.
List Price, \$39.50.

YOUR SPECIAL PRICE

\$19⁹⁵ Powerful!
Six Tubes! Beautiful Tone!



RADOLEK'S Determined Policy Is WHOLESALE ONLY

Service Facilities Radolek is organized to handle your orders speedily and yet with intelligent personal attention. Our facilities include the most modern equipment. Our personnel is trained to the business and has a keen understanding of your need for accurate and prompt shipment of your orders.

Largest Complete Stock
The most comprehensive stock of Radio parts in the country has again been amplified to include practically every conceivable item that you will require. Over 8000 separate items consisting of Repair Parts and Material, Test Equipment and Instruments, National Brands of Radio Tubes, Public Address Amplifiers and Systems, and a complete selection of Radio Receivers. Never before have such extensive listings of Replacement Transformers, Condensers, Resistors and Volume Controls been assembled under one cover and stocked complete by one organization dedicated to your service.

Lowest Net Prices In the very face of rising costs, Radolek's prices are consistently lower. Our buyers have been far-sighted—we have made large purchases and heavy commitments for merchandise and materials. In keeping with the intent of the National Recovery Act we shall protect you against increased prices for as long as is reasonably possible. We must reserve the right to change prices without notice. We pledge ourselves not to profiteer—we will not raise prices unnecessarily. But where prices are advanced and as our stocks become exhausted we will be obliged to make adjustments. We hope no increase in prices quoted in this book will be necessary but there may inevitably be some adjustments.

Restricted Catalog We exercise pains-taking vigilance to restrict the mailing of our catalog exclusively to those who are legitimately entitled to receive wholesale prices. We don't want your customers to have access to your net prices and we urge your co-operation that we may confine our customer list exclusively to the Trade. By these means and a constant check-up on the activity of our accounts we are able to eliminate from our mailings the names of those who are not properly entitled to wholesale prices.

We advertise only in Trade publications and accept applications for our catalog only after careful examination or investigation. It has been our experience that we are compelled to reject over 50% of such applications as they do not qualify under our rules.

Quality Merchandise New, Fresh, Clean Stocks. We steadfastly avoid offering our customers "job-lot" or questionable merchandise regardless of how attractive the price may seem. Our great buying power and excellent factory connections enable us to offer current production material of highest standard and unquestionable quality at prices which in many cases are as low as you might pay for "shoddy" goods from unreliable sources.

"Your Prices" quoted through this catalog is the net wholesale price with all Trade and Cash Discounts deducted. You will find no ambiguous "quantity Prices" featured in large type to mislead you. All large display prices represent your net single or unit cost. Wherever we are able to offer an additional savings on quantity purchases the Lot Price is plainly shown.

"List Prices" given are either Manufacturer's List Prices or are intended by us as a suggested Retail Price.

It is our affirmed purpose to solicit orders only from those commercially and actively engaged in the radio industry, and from a few other trade units which are recognized as entitled to receive wholesale prices. Radolek is primarily a Service Supply House catering to the Radio Merchant, Service Technician, Design and Research Engineer, Industrial and Institutional Laboratories, Public Utilities, Schools, Colleges, and those recognized as engaged in developing the Art of Radio. We also solicit and accept orders from the United States Government, Federal Institutions, State, County, Municipal and other governmental bodies and institutions.

How "Laboratory Control" at Radolek Protects You

Many reputable organizations in the Radio Industry maintain a laboratory for the purpose of testing the merits of new apparatus. This is a most commendable procedure—and we have practiced it consistently at Radolek.

—But we have quietly introduced a new plan about which we now feel free to tell you.

A new test procedure has been adopted, which provides for testing incoming merchandise and materials before it is placed in stock. Our experience has shown us that even the most careful manufacturers sometimes make mistakes. Our "Laboratory Control" on all new merchandise provides a definite check upon possible mis-marked merchandise, improper values or over-rated materials.

The Radolek Exchange Policy

We are most liberal in our Policy of rectifying any possible errors on your orders or in replacing defective merchandise. We observe a most fair and square unequivocal attitude on these points. You may depend on it, we will take care of any proper adjustments promptly and in a manner that will please you. However with the exception of errors on order filling, defective items or items sent in for repair we must insist that before returning any other goods to us that you first obtain our permission to do so. Simply write us, stating what you want to return, the reason for the return, the date of purchase, condition of goods etc. We will answer you promptly giving you any necessary instructions.

Visit Our New Display Room

Our Display Room has been remodeled to serve you more efficiently. A new sound insulated demonstration room for Public Address Amplifiers and Equipment will aid you to compare and choose the most appropriate system for your installations.

An enlarged Radio Set section will help you to make a selection of the models most suitable for your trade. Our City trade and our visiting Out-of-Town Customers will appreciate the prompt and courteous service that we are organized to extend in the City Sales Division.

We are located just 5 minutes from the center of the downtown "Loop" business district on the corner of Randolph and Jefferson Streets—no parking restrictions.

NEW ITEMS

Up-To-The-Minute Merchandise

You can rely upon Radolek to have all of the new important items—even those which are announced after our catalog goes to press. New items which are introduced after this book is published will be stocked or we will make every effort to obtain them for you on your order.

Radolek pioneers many new items of practical application in the service field. Dozens of items listed exclusively in this catalog are developed and manufactured by us to serve a definite need not adequately covered by other products.

THE RADOLEK GUARANTEE


We guarantee every piece of radio apparatus we supply to operate in the manner and for the purpose for which it was designed and intended. We guarantee all merchandise sold by us against defects in material and workmanship. Examine the goods we ship you. Any article which does not meet this guarantee, if returned at once, will be repaired or replaced. We are able to make this guarantee only because we handle the best grade of carefully tested merchandise.

RADOLEK IS DOING ITS PART

Member NRA

Operating Under the Radio Wholesalers Code





THE RADOLEK COMPANY
110 W. MADISON STREET
CHICAGO

TELEPHONE
WHOLESALE 1034

An Open Letter to Radolek Customers:

Have you planned to make the most of your sales opportunities during the coming year?

Radio Set sales are definitely on the up-grade. While 18,000,000 Sets are estimated in use, fully 60% of these (over 10,000,000 Receivers) are obsolete.


You men who are servicing and maintaining these obsolete Sets for their owners have at your finger-tips the hottest and liveliest prospective Radio Set Buyers in the world.

Your customers have a high regard for your technical skill and knowledge—they will listen to your recommendations with sincere respect. You can and should cash in on the biggest Radio Set year since 1929.

We are presenting in this catalog the most complete selection of Radio Receivers to fill this expanding demand for Sets. You will find models to fit every requirement of your customers and at prices which will net you substantial profits.

You occupy an enviable position in the Trade and I am confident that you will do a very large share of the Radio Set volume this year. Let us help you cash-in on this season's big Set market.

Yours very truly,
W. C. BRAUN, President.



Overnight Service for 20,000 RADIO DEALERS and SERVICEMEN of the Middle West



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Walter C. Braun



You Can Depend Upon RADOLEK Service

Your profits depend upon fast delivery of materials. You collect only when you complete and deliver a job. We appreciate your need for quick service and our entire organization is geared up to fill your orders accurately and to ship them rapidly.

Within a radius of 500 miles of Chicago Radolek is constantly rendering overnight service—but wherever you are located we are equipped to deliver your order with the fastest possible speed for our stocks are very complete and we aim to maintain our Same Day Shipping Schedule on all orders.

Fastest Delivery

We are constantly striving to "out-time" and to set new speed records on our excellent Shipping Schedule. Last year nearly 98% of all orders were shipped the same day they were received. You cannot afford unreasonable delays. Radolek service means delivery right to your door of the exact merchandise you want quickly and exactly as ordered.

Equipped For Service

The most modern stock and shipping equipment—a bustling organization and an experienced and capable management—all combine to give your orders the individual attention that you want.

Speed is just one part of Radolek Service. Our merchandise department is constantly securing the market to bring you better quality goods at lower prices. We maintain a modern fully equipped Laboratory for the examination and analysis of new equipment and to maintain a high standard of quality on all merchandise that we stock. For your information and assistance in the selection of special apparatus we place at your disposal the free advice of killed Technical Experts.

SEND NO MONEY
We Will Ship C.O.D.

You need not send a remittance with your order unless you wish to do so. We will ship C.O.D. any merchandise shown in our catalog, but we request that new customers on their first orders, or orders for heavy merchandise to be shipped to distant points be accompanied by a 25% deposit if to be shipped C.O.D. Most of our customers prefer to send cash with order, thereby eliminating delay and unnecessary expense of C.O.D. collection. You may remit by post office or express money-order, bank draft or personal check, as you prefer. If you send currency be sure to register the letter for we cannot be responsible for cash lost in the mails.

Prices Quoted are TAX PAID

All quotations in this book include Federal Excise Tax in accordance with Act of June, 1932 and based upon Treasury Department interpretations as of our press date. We reserve the right to add any taxes arising from new acts (Federal or State) or changed interpretations. On sales in the State of Illinois we reserve the right to increase our prices, to the extent of any increase in cost of doing business, that may be occasioned by the Illinois State Occupation (Sales) Tax Act.

Our quoted prices are subject to change without notice. We have large stocks on hand of practically every item quoted and have made contracts in such a manner that we expect to be able to supply all items available from manufacturers at the prices shown for the life of this catalog. In event of market changes it will be our object to meet or better all competitive prices.

FREIGHT ALLOWANCE
On Orders of \$25.00 or Over

We will allow freight charges up to a maximum of \$2.00 per hundred pounds on orders amounting to \$25.00 or more. This offer applies to all merchandise listed in our catalog with the exception of "A" and "H" Batteries, Wire and Aerial Insulators. This money-saving offer will usually cover freight charges to all states except the few distant ones: Utah, New Mexico, Colorado, Wyoming, Montana, Arizona, Idaho, Oregon, California, Texas, Washington and the New England states. Even in these states our freight allowance pays a substantial part of the transportation cost. Orders that fall within this Special Offer will be shipped charges collect—we will refund the freight charges up to the maximum allowance upon receipt of your paid freight bill. If you prefer your order shipped by Express or Parcel Post, we will allow the equivalent of what the freight charges would be.

We Ship Subject to Inspection

We will ship any merchandise ordered, subject to your inspection if shipment is to go forward by express. In this manner, you may see the merchandise at the express office before you accept shipment, if you so prefer. If you desire inspection privileges, be sure to state plainly on your order.

PHILCO Balanced Tone TUBES



Nationally Adver-
tised
By Philco
for
Replacement
in All
Radio Sets

Your
Discount
40-10%
Less
2¢ for
Cash

Extensive advertising has made PHILCO a popular name in Radio. People know that PHILCO stands for quality and BALANCED TONE in Tubes as well as Sets and Parts. Capitalize on this by having PHILCO TUBES in stock ready for those who prefer them.

MAJESTIC Types

S Indicates Spray Shield

Stock Number	Type Number	List Price	Your Price
3E598	2A7S	2.30	1.22
3E599	2B7S	2.10	1.11
3E600	28/48S	2.65	1.40
3E601	22Z/484	1.85	.98
3E602	6A7S	2.30	1.22
3E603	6B7S	2.10	1.11
3E604	6C7	1.90	1.00
3E605	6I7	1.75	.93
3E606	6J7	1.75	.93
3E607	6I7S	1.90	1.00
3E608	6V5	1.90	1.00
3E609	6Z5 (Same as Philco 84)	1.90	1.00
3E610	24S	1.30	.69
3E611	25/25S	3.70	1.96
3E612	27S	.80	.42
3E613	35S/51S	1.40	.74
3E614	46A1	1.10	.58
3E615	46B1	1.10	.58
3E616	55S	1.70	.90
3E617	59AS	1.30	.69
3E618	56S	1.30	.69
3E619	57S	1.75	.93
3E620	57AS	1.75	.93
3E621	58S	1.75	.93
3E622	58AS	1.75	.93
3E623	75S	1.70	.90
3E624	85AS	1.70	.90

SPARTON Types

3E696	182B	1.65	.87
3E697	183	1.65	.87
3E698	485	1.45	.77

Stock Number	Type Number	List Price	Your Price
3E626	01A	\$0.60	\$0.32
3E627	1A6	1.75	.93
3E628	1C6	2.20	1.16
3E629	1V	1.25	.66
3E630	2	1.10	.58
3E630	2A3	2.25	1.19
3E631	2A5	1.60	.85
3E632	2A6	1.60	.85
3E633	2A7	2.20	1.16
3E634	2B7	2.00	1.06
3E594	3	1.75	.93
3E595	4	1.60	.85
3E596	5	1.90	.98
3E635	5Z3	1.50	.79
3E636	6A4/LA	1.60	.85
3E637	6C6	1.25	.66
3E638	6D6	1.25	.66
3E639	6A7	2.20	1.16
3E640	6H7	2.00	1.06
3E641	6I7	1.80	.95
3E642	10	5.00	2.65
3E643	12A	1.30	.69
3E644	12A5	2.10	1.11
3E645	12Z3	1.20	.63
3E597	14	2.25	1.19
3E646	15	2.85	1.51
3E625	17	1.50	.79
3E647	18	2.75	1.45
3E648	19	1.50	.79
3E649	20	3.00	1.59
3E650	22	2.00	1.06
3E651	24A	1.20	.63
3E652	25Z5	2.00	1.06
3E653	26	.65	.34
3E654	27	.70	.37
3E655	30	1.30	.69
3E656	31	1.30	.69
3E657	32	1.90	1.00
3E658	33	2.10	1.11
3E659	34	2.15	1.14
3E660	35/51	1.30	.69
3E661	36	1.50	.79
3E662	37	1.20	.63
3E663	38	1.45	.77
3E664	39/44	1.50	.79
3E665	41	1.60	.85
3E666	42	1.60	.85
3E667	43	2.50	1.32
3E668	45	.75	.40
3E670	46	1.55	.82
3E671	47	1.30	.69
3E672	48	3.00	1.59
3E673	49	1.70	.90
3E674	50	4.00	2.12
3E675	53	1.80	.95
3E676	55	1.60	.85
3E677	56	1.20	.63
3E678	57	1.65	.87
3E679	58	1.65	.87
3E680	59	2.00	1.06
3E681	71A	.75	.40
3E682	75	1.60	.85
3E683	76	1.20	.63
3E684	77	1.80	.95
3E685	78	1.80	.95
3E686	79	2.60	1.37
3E687	80	.70	.37
3E688	81	3.50	1.85
3E689	82	1.20	.63
3E690	83	1.55	.82
3E691	84	1.75	.93
3E692	85	1.60	.85
3E693	89	1.80	.95
3E694	909	2.25	1.19
3E695	X99	1.50	.77
3E699	866	6.75	3.57

ARCTURUS

BLUE RADIO TUBES

Improved Performance

The exclusive Arcturus Unitary Structure is a decided advance and is a real improvement in tube manufacture, assuring uniform characteristics. This sturdy construction insures precise spacing and grips every element firmly in position making all elements inter-dependent. This entire assembly, exceptionally rigid, is safe against distortion of elements and minimizes microphonism. Rated as the most rugged tube construction on the market, this is another reason why Arcturus Tubes insure efficient and dependable performance and improved reception.

Precision In Manufacture

Guarded by 137 Tests and Checks

The average diameter of the filament used in Arcturus Tubes is .006 inches. Yet the precise construction of the elements in Arcturus Tubes is held less than one-tenth of this dimension. This precision in manufacture plus the rugged construction of Arcturus Tubes also insures uniformity of characteristics and performance in even the most critical circuits. Guarding Arcturus quality are 137 tests and checks which each tube receives before it is shipped. Such fine workmanship and care have gained for Arcturus Tubes a world-wide acceptance for Quality.



Extra 10% Discount in Lots of 25 Assorted

Stock Number	Type Number	List Price	Your Price	Stock Number	Type Number	List Price	Your Price
3E700	01A	\$0.60	\$0.32	3E736	46	1.55	.82
3E701	1A6	1.75	.93	3E737	50	4.00	2.12
3E702	2A3	2.25	1.19	3E738	51	1.30	.69
3E703	2A5	1.60	.85	3E739	53	1.80	.95
3E704	2A6	1.60	.85	3E740	55	1.60	.85
3E705	2A7	2.20	1.16	3E741	56	1.20	.63
3E706	2B6	2.50	1.32	3E742	57	1.65	.87
3E707	2B7	2.00	1.06	3E743	58	1.65	.87
3E708	5Z3	1.50	.79	3E744	59	2.00	1.06
3E709	6A7	2.20	1.16	3E745	71A	.75	.40
3E710	6B6	2.50	1.32	3E746	75	1.60	.85
3E711	6B7	2.00	1.06	3E747	77	1.80	.95
3E712	6C6	1.25	.66	3E748	78	1.80	.95
3E713	6D6	1.25	.66	3E749	79	2.60	1.37
3E714	6I7	1.80	.95	3E750	80	.70	.37
3E715	10	5.00	2.65	3E751	81	3.50	1.85
3E716	12A	1.30	.69	3E752	82	1.20	.63
3E717	12Z3	1.20	.63	3E753	83	1.55	.82
3E718	12Z5	1.50	.79	3E754	84	1.75	.93
3E719	24	1.20	.63	3E755	85	1.60	.85
3E720	25Z5	2.00	1.06	3E756	89	1.80	.95
3E721	26	.65	.34	3E757	99UN	1.50	.79
3E722	27	.70	.37	3E758	AF	1.80	.95
3E723	30	1.30	.69	3E759	AG	2.05	1.08
3E724	31	1.30	.69	3E760	2A	2.75	1.45
3E725	32	1.90	1.00	3E761	1Z(47)	1.30	.69
3E726	33	2.10	1.11				
3E727	34	2.15	1.14				
3E728	36A	1.50	.77				
3E729	37A	1.20	.63				
3E730	38A	1.45	.77				
3E731	39-44	1.50	.79				
3E732	41	1.60	.85				
3E733	42	1.60	.85				
3E734	43	2.50	1.32				
3E735	45	.75	.40				

ARCTURUS 2B6 Tube Power Amplifier

A super triode tube with higher power output, greater sensitivity, and lower power consumption. Six watts power may be obtained from a single tube or sixteen from a pair in push-pull. **3E706—List. \$2.50. YOUR PRICE \$1.32**

A. C.—D. C. SHORT WAVE SCOUT

Latest Style Circuit

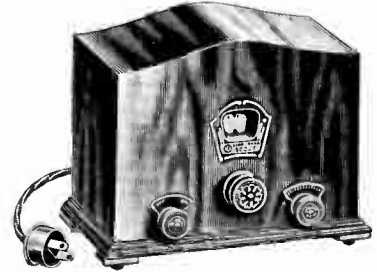
Tunes 20-200 Meters on Any Broadcast Receiver

USES THE NEW 6A7 ELECTRON COUPLED detector-modulator tube in a new highly efficient frequency converter superheterodyne circuit. Two rods are supplied to cover the important short wave transmission bands. This converter is designed to operate satisfactorily with any type of broadcast receiver and when so used employs the essential principles of the superheterodyne system to secure amazing distance and power—limited only by atmospheric conditions, the amplification of the receiver used and the skill of the operator. Close observation of the circuit shown below will explain the electrical action of this instrument. A 37 tube with grid and plate tied together supplies rectified direct plate current for the 6A7, thus placing no added strain on your receiver supply. A series filament supply eliminates the need of a power transformer.

The Short Wave Scout will modernize your present radio. Easy to install—only three simple connections and plug-in cord to 110 volt A.C. or D.C. supply line. Fascinating to operate. A quick selling item for servicemen and radio dealers. Tuning range covers American Police calls, Plane and Amateur waves between 60 and 200 meters, with the substitution of an extra coil provided with the receiver, the Short Wave Scout receives signals from 20 to 60 meters. This includes the transmission channels of most European, South American, and American Relay station.

You Can Step-Up Your Sales with This New Short Wave Adapter

Do your customers know how simple it is to adapt their broadcast radios for short wave reception—and how modern for cost? You can turn over a substantial profit each month on Short Wave Scout sales. You have the inside track—you have the confidence of your trade—they look to you for technical endorsement of any device of this nature. You can make money on this business and there's a lot of it. The field has been pioneered for you. National advertising has planted the seed of desire for short wave reception in the minds of every radio owner and most people get a big kick out of it. Cash in on this business—it can bring you a mighty good profit.

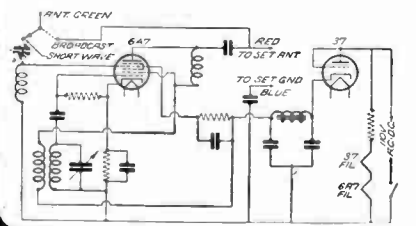


Attractive Small Cabinet

Genuine Walnut Veneer Cabinet, 8 1/4" x 6 1/2" x 4 1/2". Tuning dial, power switch, and change over switch for choice of broadcast or short wave reception. Highest quality workmanship and parts used throughout. This attractive little converter will make any good power broadcast receiver into a world-wide multi-wave radio equal to some of the highest priced "All-Wave" radios on the market.

Short Wave Scout 20-200 meters when used with any broadcast receiver. Self Powered. Operates from 110 volts A.C. or D.C. on any aerial suitable for short wave reception.

4D10945—Complete with RCA-Cunningham Tubes. List Price \$17.50. **YOUR PRICE \$10.29**



RAYTHEON



ONE HUNDRED MILLION Radio Tubes will be replaced this year. Your share of this business will probably account for 50% of your sales. The question of wholesale Tube prices is, therefore, a very important one to YOU. Any difference in your cost of each Tube will make a **BIG** difference in your year's profit.

Many brands of Tubes are now available on consignment only—a system of distribution which, because it is expensive to maintain, compels the manufacturer to charge you more for his Tubes than you would pay were you to buy Tubes of equal quality for **CASH**.

Raytheon tubes are the best on the market. Each one is fully guaranteed for six months, subject to the usual exceptions of burnouts and breakage.

Raytheon 4-pillar Tubes ARE sold for cash. As a Raytheon Dealer you get **FULL** profit. You actually make from 10 to 15 percent more on every Tube you sell because nothing is added to your cost by the manufacturer to offset his bad-account losses, elaborate check-up expense, etc., that are unavoidable wherever Tubes are consigned.

Perhaps you, like thousands of other prudent Radiomen, prefer to buy your tubes outright and pocket this extra 10 to 15 percent profit. . . . Do you?

Then Raytheon 4-pillar Tubes are the answer. They have every feature that a fast-selling, profit-producing Tube must have, including: Quality, Selection, Distinction, National Advertising and **BIG TRADE DISCOUNT**.

Build confidence in your firm by selling these outstanding high quality tubes.

The High Quality Line with

- | | | | |
|--|---|---|--|
| 1A6 Pentagrid Converter
3E765—
List. \$1.75. YOUR PRICE .. 93¢ | 10 Triode Power Amp. or Osc.
3E784—
List. \$5.00. YOUR PRICE \$2.65 | 39 Variable Mu Pentode Amp.
3E803—
List. \$1.50. YOUR PRICE .. 79¢ | 59 Universal Power Amp.
3E822—
List. \$2.00. YOUR PRICE \$1.06 |
| 2A3 Triode Power Amplifier
3E766—
List. \$2.25. YOUR PRICE \$1.19 | WD11 Triode Detector
3E785—
List. \$3.00. YOUR PRICE \$1.59 | 40 Triode Det. or Amplifier
3E804—
List. \$2.00. Your Price .. \$1.06 | 71A Triode Power Amplifier
3E823—
List. 75c. YOUR PRICE.... 40¢ |
| 2A5 Pentode Power Amplifier
3E767—
List. \$1.60. YOUR PRICE .. 85¢ | WX12 Triode Detector
3E786—
List. \$3.00. YOUR PRICE \$1.59 | 41 Pentode Power Amplifier
3E805—
List. \$1.60. YOUR PRICE .. 84¢ | 75 Diode Det. & Triode Amp.
3E824—
List. \$1.60. YOUR PRICE .. 84¢ |
| 2A6 Diode Det. Triode Amp.
3E768—
List. \$1.60. YOUR PRICE .. 84¢ | 12A Triode Det. or Amp.
3E787—
List. \$1.30. YOUR PRICE .. 69¢ | 42 Pentode Power Amplifier
3E806—
List. \$1.60. YOUR PRICE .. 84¢ | 76 Triode Det. or Amplifier
3E825—
List. \$1.20. YOUR PRICE .. 63¢ |
| 2A7 Detector-Oscillator
3E769—
List. \$2.20. YOUR PRICE \$1.16 | 19 Twin Class B Triode Amp.
3E788—
List. \$1.50. YOUR PRICE .. 79¢ | 43 Pentode Power Amplifier
3E807—
List. \$2.50. YOUR PRICE \$1.32 | 77 Pentode Det. or Amp.
3E826—
List. \$1.80. YOUR PRICE .. 95¢ |
| 2B7 Diode Det. Pentode Amp.
3E770—
List. \$2.00. YOUR PRICE \$1.06 | 20 Triode Power Amplifier
3E789—
List. \$3.00. YOUR PRICE \$1.59 | 44 Variable Mu Pent. Amp.
3E808—
List. \$1.50. YOUR PRICE .. 79¢ | 78 Var. Mu Pent. Det. or Amp.
3E827—
List. \$1.80. YOUR PRICE .. 95¢ |
| 5Z3 Full Wave Rectifier
3E771—
List. \$1.50. YOUR PRICE .. 79¢ | 22 Screen Grid Det. or Amp.
3E790—
List. \$2.00. YOUR PRICE \$1.06 | 45 Triode Power Amplifier
3E809—
List. 75c. YOUR PRICE.... 40¢ | 79 Twin B Triode Power Amp.
3E828—
List. \$2.60. YOUR PRICE \$1.37 |
| 6A4 Pentode Power Amplifier
3E772—
List. \$1.60. YOUR PRICE .. 85¢ | 24A Screen Grid Det. or Amp.
3E791—
List. \$1.20. YOUR PRICE .. 63¢ | 46 Dual Purpose Power Amp.
3E810—
List. \$1.55. YOUR PRICE .. 82¢ | 80 Full Wave Rectifier
3E829—
List. 70c. YOUR PRICE.... 37¢ |
| 6A7 Detector and Oscillator
3E773—
List. \$2.20. YOUR PRICE \$1.16 | 26 Triode Amplifier
3E792—
List. 65c. YOUR PRICE .. 34¢ | 47 Pentode Power Amplifier
3E811—
List. \$1.30. YOUR PRICE .. 69¢ | 81 Half Wave Rectifier
3E830—
List. \$3.50. YOUR PRICE \$1.85 |
| 6B7 Diode Det., Pentode Amp.
3E774—
List. \$2.00. YOUR PRICE \$1.06 | 27 Triode Det. or Amplifier
3E793—
List. 70c. YOUR PRICE .. 37¢ | 48 Power Amplifier
3E812—
List. \$3.00. YOUR PRICE \$1.59 | 82 Full Wave Mercury Rect.
3E831—
List. \$1.20. YOUR PRICE .. 63¢ |
| 6C6 Pentode Det. or Amp.
3E775—
List. \$1.25. YOUR PRICE .. 66¢ | 30 Triode Det. or Amplifier
3E794—
List. \$1.30. YOUR PRICE .. 69¢ | 49 Dual Purpose Power Amp.
3E813—
List. \$1.70. YOUR PRICE .. 90¢ | 83V Full Wave Rectifier
3E832—
List. \$1.55. YOUR PRICE .. 82¢ |
| 6D6 Pentode Det. or Amp.
3E776—
List. \$1.25. YOUR PRICE .. 66¢ | 31 Triode Power Amplifier
3E795—
List. \$1.30. YOUR PRICE .. 69¢ | 50 Triode Power Amplifier
3E814—
List. \$4.00. YOUR PRICE \$2.12 | 84 Full Wave Rectifier
3E833—
List. \$1.75. YOUR PRICE .. 93¢ |
| 6F7 Triode Pent. Det. & Osc.
3E777—
List. \$1.80. YOUR PRICE .. 95¢ | 32 Screen Grid Det. or Amp.
3E796—
List. \$1.90. YOUR PRICE \$1.00 | 51 Variable Mu Amplifier
3E799—
List. \$1.30. YOUR PRICE .. 69¢ | 85 Diode Det. & Triode Amp.
3E834—
List. \$1.60. YOUR PRICE .. 84¢ |
| 12A5 Pentode Power Amplifier
3E778—
List. \$2.10. YOUR PRICE \$1.11 | 33 Pentode Power Amplifier
3E797—
List. \$2.10. YOUR PRICE \$1.11 | 52 Dual Purpose Power Amp.
3E816—
List. \$1.60. YOUR PRICE .. 84¢ | 89 Universal Power Amp.
3E835—
List. \$1.80. YOUR PRICE .. 95¢ |
| 12Z3 Half Wave Rectifier
3E779—
List. \$1.20. YOUR PRICE.. 63¢ | 34 Variable Mu Pentode Amp.
3E798—
List. \$2.15. YOUR PRICE \$1.14 | 53 Twin Class B Triode Amp.
3E817—
List. \$1.30. YOUR PRICE .. 95¢ | V99 Triode Det. or Amplifier
3E836—
List. \$2.25. YOUR PRICE \$1.19 |
| 25Z5 Voltage Doubling Rect.
3E780—
List. \$2.00. YOUR PRICE \$1.06 | 35 Variable Mu Amplifier
3E799—
List. \$1.30. YOUR PRICE .. 69¢ | 55 Diode Det. & Triode Amp.
3E818—
List. \$1.60. YOUR PRICE .. 84¢ | X99 Triode Det. or Amplifier
3E837—
List. \$1.50. YOUR PRICE .. 79¢ |
| 00A Triode Det. or Amplifier
3E781—
List. \$4.00. YOUR PRICE \$2.12 | 36 Screen Grid Det. or Amp.
3E800—
List. \$1.50. YOUR PRICE .. 79¢ | 56 Triode Det. or Amplifier
3E819—
List. \$1.20. YOUR PRICE .. 63¢ | BA Full Wave Gaseous Rect.
3E838—
List. \$7.50. YOUR PRICE \$3.97 |
| 01A Triode Detector or Amplifier
3E782—
List. 60c. YOUR PRICE 32¢ | 37 Triode Det. or Amplifier.
3E801—
List. \$1.20. YOUR PRICE .. 63¢ | 57 Pentode Det. or Amplifier
3E820—
List. \$1.65. YOUR PRICE .. 87¢ | BH Full Wave Gaseous Rect.
3E839—
List. \$4.65. YOUR PRICE \$2.46 |
| 1-V Half Wave Rectifier
3E783—
List. \$1.25. YOUR PRICE.. 66¢ | 38 Pentode Power Amplifier.
3E802—
List. \$1.45. YOUR PRICE 77¢ | 58 Variable Mu Pentode Amp.
3E821—
List. \$1.65. YOUR PRICE .. 87¢ | BR Half Wave Gaseous Rect.
3E840—
List. \$2.75. YOUR PRICE \$1.45 |

4-PILLAR TUBES

Nationally Advertised

It will never be necessary for you to "sell" a customer Raytheon 4-pillar Tubes—The millions of advertising dollars that have, and are, being spent to impress the public with this exclusive patented feature, have firmly established Raytheons in the minds of Set owners as the standard of quality by which other Tubes are judged. With such tremendous nation-wide publicity and universal public acceptance behind them, Raytheon 4-pillar Tubes will sell themselves.

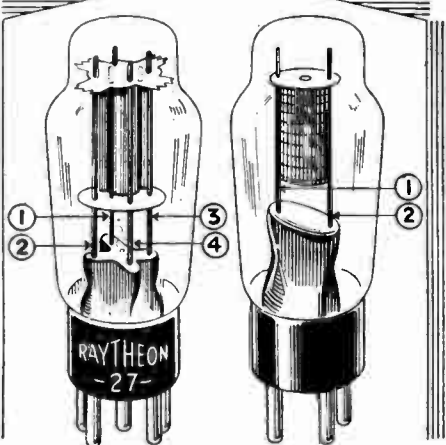
Complete Selection

Raytheon 4-pillar Tubes are made in all types—including spray-shield—to fit any Set. With this line you have a Tube for every customer—no lost sales.

Make 10% to 15% Bigger Profits

There are at least five good reasons why it will pay you to handle Raytheon Tubes exclusively. Here they are:

- 1 You can buy them outright—and save: 10% to 15% by paying cash.
- 2 Their quality is of the best—perfect performance with long life.
- 3 Nationally Advertised—easiest sold because best known.
- 4 Complete Selection—Tube for every Set.
- 5 4-pillar Construction—the only Tube having this patented exclusive Raytheon feature.



The Big Dealer Discount

Special Spray Shield Types for MAJESTICS

(SS Indicates Spray Shield)

24S Screen Grid Det.-Amp. (SS)
3E841— **69¢**
List. \$1.30. YOUR PRICE

27S Triode Det.-Amp. (SS)
3E842— **42¢**
List. \$0.80. YOUR PRICE

35S Vari Mu S-G Amp. (SS)
3E843— **74¢**
List. \$1.40. YOUR PRICE

55S Diode Det.-Triode Amp. (SS)
3E844— **90¢**
List. \$1.70. YOUR PRICE

56S Triode Det.-Amplifier (SS)
3E845— **69¢**
List. \$1.30. YOUR PRICE

57S Pentode Det.-Amplifier (SS)
3E846— **93¢**
List. \$1.75. YOUR PRICE

57AS Detector-Amplifier
3E847— **93¢**
List. \$1.75. YOUR PRICE

58S Vari Mu Pentode Amp. (SS)
3E848— **93¢**
List. \$1.75. YOUR PRICE

85AS Super Con. R.F. Amp.
3E849— **93¢**
List. \$1.75. YOUR PRICE

85S Diode Det.-Triode Amp. (SS)
3E850— **90¢**
List. \$1.70. YOUR PRICE

2A7S Detector-Oscillator (SS)
3E851— **\$1.22**
List. \$2.30. YOUR PRICE

6A7S Detector Oscillator (SS)
3E852— **\$1.22**
List. \$2.30. YOUR PRICE

6B7S Diode Det.-Pentode Amp.
3E853— **\$1.11**
List. \$2.10. YOUR PRICE

6F7S Triode Pent. Det.-Osc. (SS)
3E854— **\$1.00**
List. \$1.90. YOUR PRICE

6C7 Duo-Diode-Triode
3E855— **\$1.00**
List. \$1.90. YOUR PRICE

6L7 R. F. Amplifier
3E856— **93¢**
List. \$1.75. YOUR PRICE

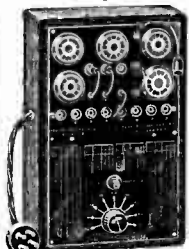
6E7 Super Cont. R.F. Amp.
3E857— **93¢**
List. \$1.75. YOUR PRICE

6Y5 Full-Wave M-V Rectifier
3E858— **\$1.00**
List. \$1.90. YOUR PRICE

Raytheon Multi-Adapter

Special Offer with Order for 25 Assorted Raytheon Tubes

\$6.25



Brings your Tube Tester up-to-date. No individual adapters needed. Supplies all filament voltages not available on your old Tube Tester and allows for testing any number of new tubes that may be brought out in the future. It is so flexible that every possible connection of interelement arrangement of plate, grids, screen, cathode can be quickly made. Etched panel makes additional charts unnecessary. In leather case, size 7.59 1/2 x 3 1/4 inches.

Raytheon Tool Kit \$2.17

This is the ideal tool kit for Radio Set Servicemen. Made by one of the country's leading tool makers. Consists of a Universal Chuck Handle, 3 Screw-driver Blades, 5 Socket Wrenches and 3-in-1 Bakelite Balancing Wrench. Fitted with neat leatherette roll type case. Fits conveniently into Raytheon carrying case.

3E860—YOUR PRICE \$2.59
(With an order for 10 Raytheon Tubes...\$2.17)



Raytheon Carrying Case \$1.06

A very substantially made leatherette covered case measuring 19 inches long, 9 inches wide and 7 1/2 inches deep. Large enough to hold a full set of tubes and tools. A very handy item for Service calls. Finished in black with brass fittings.

3E861—Each \$1.35
(With Order for 5 Raytheon Tubes...\$1.06)

Raytheon Rider's Manuals

Here's your chance to get these famous service data books at big savings. See page 100 for complete description.

3E862—VOLUME I \$4.99
YOUR PRICE

(With order for 15 Raytheons)
3E863—VOLUME II \$4.32
YOUR PRICE

(With order for 15 Raytheons)
3E864—VOLUME III \$4.99
YOUR PRICE

(With order for 15 Raytheons)
NOTE: You may secure all three Volumes for \$14.30 with an order for 35 Raytheon Tubes.



Why Raytheon 4-Pillar Construction is Best

There are more than thirty elements in every Radio Tube, no matter what the make—tiny pieces of wire and delicate bits of metal. When the Tube is made, these fragile elements are properly adjusted at the plant, placed in just the right position to provide the clear, sweet-tone reception that the Radio Set was made to give. Any change in the spacing of these elements changes the characteristics of the Tube. Unless the original adjustment of these elements is maintained to the thousandths of an inch the Set cannot perform the way it should.

Jolts, jars and vibrations affect ordinary two-support Tubes and you can never be sure that their original factory adjustment will be retained through the bumps of shipment and handling, to say nothing of vibrations while the set is being used.

Raytheon 4-pillar Tubes on the other hand come to you exactly as they leave the laboratory. Four strong pillars keep the elements in place, maintaining the hair-line accuracy with which they were assembled. And because of their unique construction, they will stay that way throughout their long life. Heavy vibrations caused by the Dynamic Speaker, knocks and bumps incident to store-handling—the slight mishaps that impair and even ruin ordinary Tubes leave Raytheons unaffected.

Who Uses Raytheons

In huge planes of the great continental transport companies, alert police cars on watch throughout the country, in automobile Radios and for all other purposes where the hardest usage must be withstood with unfailing dependability, Raytheon 4-pillar Tubes are extensively used.

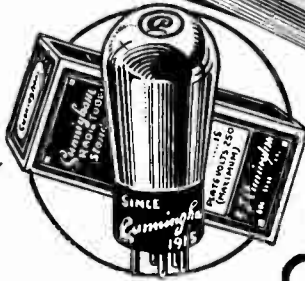
It is the one Tube that defies abuse... the one Tube that outlasts all others.

Therefore when a Set owner comes to you for new Tubes you can recommend with confidence Raytheons, making not only a satisfied customer, but also a 10% to 15% greater profit for yourself!

Things to Help You Sell Raytheons

Many arresting window displays, window streamers, display stands, consumer leaflets, data charts, etc., are being issued from time to time to tie up with the Raytheon advertising campaigns being carried on in the country's leading Radio periodicals. If you can use this material please advise us when placing your order for Raytheons and we will place your name on the list to receive all advertising assistance available.

The Standard of Comparison



Genuine-Cunningham RADIO

Cunningham Radiotron

Merchandising Aids and Service Helps Successful Servicemen Advertise—

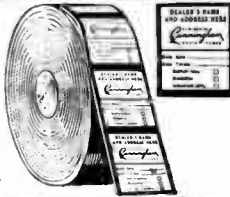
More profit, greater volume, satisfied customers. Advertising builds confidence, as well as more business. Tie your firm name in with Cunningham and profit by the millions of dollars Cunningham spends on national advertising. You increase your customer's confidence in you when you handle reliable well known merchandise. The advertising pieces on this page have been selected because of successful results obtained on tests by leading servicemen. This is the most economical profit-producing publicity you can buy.

Other Advertising Material Free

To our customers who are prepared to carry a reasonable stock of Cunningham Tubes and display advertising helps, we will, upon your request, advise E. T. Cunningham Advertising Department of your tube sales, and recommend that you should be supplied free with the material they have available for larger dealers.

Tube Stickers

Every time you test a tube, put on a Cunningham Tube Test Sticker. Sew up the renewal sale. Makes every tube a selling agent for you. The cost is negligible, the value great. Has space for date sold, date tested, satisfactory, doubtful and unsatisfactory indications. Imprinted with 3-lines (Your name, address and city). Print name plainly.

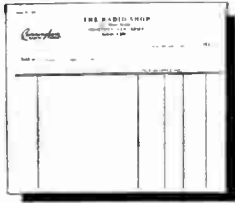


D996—Roll of 2000 Tube Stickers. **\$1.00**
YOUR PRICE

Service Billheads

It pays to look the part of a profitable efficient, up-to-date service organization. If the Serviceman's billhead is a sloppy make-shift affair it is liable to counteract an otherwise impressive service layout. This neat form costs no more than many inferior billheads. Imprinted with your name, address, city, and telephone number.

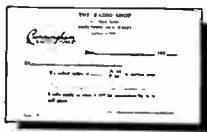
D997. Imprinted, 500 for **\$1.00**



Not-At-Home Cards

The "Not-at-Home" card protects the Serviceman and takes indelicateness out of future calls when the customer is found to be away from home. Reads: "Mr. Our Serviceman called to service your..... Please phone or drop by our store for another appointment." Imprinted with your name, address, city and telephone number.

D998. Per 100 Imprinted **25¢**



00A
CE925—Cunningham 00A
RE925—Radiotron 00A
LIST PRICE **\$4.00**

01A
CE926—Cunningham 01A
RE926—Radiotron 01A
LIST PRICE **60¢**

1A6
CE904—Cunningham 1A6
RE904—Radiotron 1A6
LIST PRICE **\$1.75**

1
CE927—Cunningham 1
RE927—Radiotron 1
LIST PRICE **\$1.50**

1-V
CE931—Cunningham 1-V
RE931—Radiotron 1-V
LIST PRICE **\$1.25**

2A3
CE900—Cunningham 2A3
RE900—Radiotron 2A3
LIST PRICE **\$2.25**

2A5
CE901—Cunningham 2A5
RE901—Radiotron 2A5
LIST PRICE **\$1.60**

2A6
CE902—Cunningham 2A6
RE902—Radiotron 2A6
LIST PRICE **\$1.60**

2A7
CE903—Cunningham 2A7
RE903—Radiotron 2A7
LIST PRICE **\$2.20**

2B7
CE915—Cunningham 2B7
RE915—Radiotron 2B7
LIST PRICE **\$2.00**

5Z3
CE920—Cunningham 5Z3
RE920—Radiotron 5Z3
LIST PRICE **\$1.50**

6A4
CE907—Cunningham 6A4
RE907—Radiotron 6A4
LIST PRICE **\$1.60**

6A7
CE911—Cunningham 6A7
RE911—Radiotron 6A7
LIST PRICE **\$2.20**

6B7
CE918—Cunningham 6B7
RE918—Radiotron 6B7
LIST PRICE **\$2.00**

RCA Cunningham Radiotron

RCA Cunningham Radiotron Tubes are now available to servicemen and dealers on consignment only. No distributor is permitted to sell these tubes for cash except at full list prices. You pay for the merchandise only after you sell it. Discounts range from 37-5% to 41-5%. If you are interested we will send you full details upon request. In the event the RCA Radiotron Company, Inc., approves your contract we will establish you as an RCA Cunningham Radiotron dealer and you will be able to obtain an adequate stock of these tubes from us.

Consignment Exceptions

The Radolek Company is authorized to sell for cash or on any other basis it elects to Theaters, Schools, Broadcasters, Engineering Laboratories, Research and Manufacturing companies, United States Government, State Governments, County and Municipal Governments, and all governmental and public institutions, at a 40% discount from current list prices. It must, however, be agreed to in a contract provided by us that tubes so purchased will be used only for installation or use in radio apparatus, equipment or devices either owned, controlled or used by the purchaser; or in radio apparatus, equipment or devices (except receiving apparatus) manufactured by the purchaser for resale. If you can classify under any of the exceptions write us for a contract and other details.

6C6
CE905—Cunningham 6C6
RE905—Radiotron 6C6
LIST PRICE **\$1.25**

6D6
CE906—Cunningham 6D6
RE906—Radiotron 6D6
LIST PRICE **\$1.25**

6F7
CE908—Cunningham 6F7
RE908—Radiotron 6F7
LIST PRICE **\$1.80**

10
CE928—Cunningham 10
RE928—Radiotron 10
LIST PRICE **\$5.00**

11
CE929—Cunningham 11
RE929—Radiotron 11
LIST PRICE **\$3.00**

12
CE930—Cunningham 12
RE930—Radiotron 12
LIST PRICE **\$3.00**

12Z3
CE922—Cunningham 12Z3
RE922—Radiotron 12Z3
LIST PRICE **\$1.20**

19
CE909—Cunningham 19
RE909—Radiotron 19
LIST PRICE **\$1.50**

20
CE933—Cunningham 20
RE933—Radiotron 20
LIST PRICE **\$3.00**

22
CE934—Cunningham 22
RE934—Radiotron 22
LIST PRICE **\$2.00**

24A
CE935—Cunningham 24A
RE935—Radiotron 24A
LIST PRICE **\$1.20**

25Z5
CE921—Cunningham 25Z5
RE921—Radiotron 25Z5
LIST PRICE **\$2.00**

26
CE936—Cunningham 26
RE936—Radiotron 26
LIST PRICE **65¢**

27
CE937—Cunningham 27
RE937—Radiotron 27
LIST PRICE **70¢**

30
CE938—Cunningham 30
RE938—Radiotron 30
LIST PRICE **\$1.30**

31
CE939—Cunningham 31
RE939—Radiotron 31
LIST PRICE **\$1.30**

32
CE940—Cunningham 32
RE940—Radiotron 32
LIST PRICE **\$1.90**

33
CE941—Cunningham 33
RE941—Radiotron 33
LIST PRICE **\$2.10**

34
CE942—Cunningham 34
RE942—Radiotron 34
LIST PRICE **\$2.15**

35
CE943—Cunningham 35
RE943—Radiotron 35
LIST PRICE **\$1.30**

36
CE944—Cunningham 36
RE944—Radiotron 36
LIST PRICE **\$1.50**

37
CE945—Cunningham 37
RE945—Radiotron 37
LIST PRICE **\$1.20**

33
CE946—Cunningham 38
RE946—Radiotron 38
LIST PRICE **\$1.45**

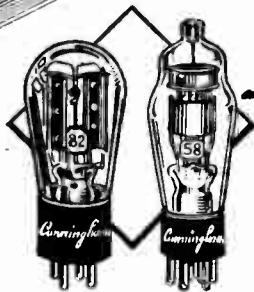
39-44
CE947—Cunningham 39-44
RE947—Radiotron 39-44
LIST PRICE **\$1.50**

40
CE948—Cunningham 40
RE948—Radiotron 40
LIST PRICE **\$2.00**

41
CE949—Cunningham 41
RE949—Radiotron 41
LIST PRICE **\$1.60**

Fresh Stock and RCA Radiotrons TUBES

Dependable
and
Long Lived



Tube Agency Consignment Plan

The Radolek Company will be glad to co-operate with all Radio Servicemen or Radio Service Organizations so as to enable them to qualify for the RCA Tube Agency. If you have an established RCA Cunningham Radiotron clientele we want you to write us for your contract.

Only List Prices Specified

We have specified the current list prices on RCA Cunningham and Radiotron tubes. The discount varies according to the quantity of tubes you are able to use over a period of one year.

Schedule of Discounts

Qualification Basis Annual Sales in Units	Basic Rate	For Prompt Payment	Equivalent % Discount
Under 1,000	37%	5%	40.15
1,000-2,500	38%	5%	41.1
2,500-5,000	39%	5%	42.05
5,000-10,000	40%	5%	43.
Over 10,000	41%	5%	43.95

Your contract must be approved before any of these discounts are applicable. All contracts start on the 37% Basic Rate and are adjusted to high Basic Rate when sales so justify.

Radio Tube Manual

The Manual contains more than 80 pages of data, including 20 pages of general descriptive matter on radio tubes. Each tube type is illustrated and is followed by a description of characteristics and a discussion of installation and application. Also contains a characteristics chart, a socket connection chart and from one to four curves for most tube types. **D991—One copy Free to Cunningham Tube Purchasers on payment of shipping expense of..... 10¢**

Additional copies, Each..... 25¢

Socket Layout Guide

This booklet shows the types of tubes and the number of each used in practically every standard make and model of Radio Receiver now in use. Contains data on all important Sets made since 1920. An indispensable reference book for every Radio Tube Counter.

D992—One copy FREE to Cunningham Tube Purchasers on payment of shipping costs of..... 10¢

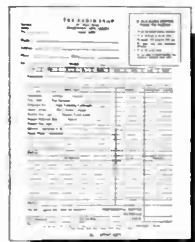
Additional copies, Each..... 50¢



Service Order Form

This form comes in triplicate, 50 sets to a pad, with two sheets of carbon paper. Has space for information to be filled out when the call for service comes in. The original and duplicate are turned over to the Serviceman making the call. The triplicate is filed as a record. The Serviceman fills out the remainder of the form after he has finished the job, and secures the customer's signature. Second copy is given to customer and original is returned to office for making up bills and entering information on permanent service record.

D993—Three pads imprinted with your name and address..... \$1.25



Prospect Sales and Service Record Form

Two ply cardboard cards 4x6 in., printed two sides. On the "prospect" side has space for recording such prospect and sales information pertaining to Tubes, Radio Sets and Electrical Appliances. Cards of customers who possess radio sets are turned around in the file so that the complete record faces forward.

D994—Per 100 cards..... 40¢

PRICE REFERENCE CARDS showing latest list prices on all types of tubes; size 13x6 in., will be sent FREE on request to Cunningham Tube Purchasers.

42 CE951—Cunningham 42 RE951—Radiotron 42 LIST PRICE	\$1.60	58 CE966—Cunningham 58 RE966—Radiotron 58 LIST PRICE	\$1.65
43 CE953—Cunningham 43 RE953—Radiotron 43 LIST PRICE	\$2.50	59 CE967—Cunningham 59 RE967—Radiotron 59 LIST PRICE	\$2.00
44-39 CE954—Cunningham 44-39 RE954—Radiotron 44-39 LIST PRICE	\$1.50	71A CE972—Cunningham 71A RE972—Radiotron 71A LIST PRICE	75¢
45 CE955—Cunningham 45 RE955—Radiotron 45 LIST PRICE	75¢	75 CE974—Cunningham 75 RE974—Radiotron 75 LIST PRICE	\$1.60
46 CE956—Cunningham 46 RE956—Radiotron 46 LIST PRICE	\$1.55	76 CE975—Cunningham 76 RE975—Radiotron 76 LIST PRICE	\$1.20
47 CE957—Cunningham 47 RE957—Radiotron 47 LIST PRICE	\$1.30	77 CE976—Cunningham 77 RE976—Radiotron 77 LIST PRICE	\$1.80
48 CE958—Cunningham 48 RE958—Radiotron 48 LIST PRICE	\$3.00	78 CE977—Cunningham 78 RE977—Radiotron 78 LIST PRICE	\$1.80
49 CE959—Cunningham 49 RE959—Radiotron 49 LIST PRICE	\$1.70	79 CE978—Cunningham 79 RE978—Radiotron 79 LIST PRICE	\$2.60
50 CE960—Cunningham 50 RE960—Radiotron 50 LIST PRICE	\$4.00	80 CE979—Cunningham 80 RE979—Radiotron 80 LIST PRICE	70¢
53 CE962—Cunningham 53 RE962—Radiotron 53 LIST PRICE	\$1.80	81 CE980—Cunningham 81 RE980—Radiotron 81 LIST PRICE	\$3.50
55 CE963—Cunningham 55 RE963—Radiotron 55 LIST PRICE	\$1.60	82 CE981—Cunningham 82 RE981—Radiotron 82 LIST PRICE	\$1.20
56 CE964—Cunningham 56 RE964—Radiotron 56 LIST PRICE	\$1.20	83 CE982—Cunningham 83 RE982—Radiotron 83 LIST PRICE	\$1.55
57 CE965—Cunningham 57 RE965—Radiotron 57 LIST PRICE	\$1.65	84 CE983—Cunningham 84 RE983—Radiotron 84 LIST PRICE	\$1.75

85 CE984—Cunningham 85 RE984—Radiotron 85 LIST PRICE	\$1.60	112A CE932—Cunningham 112A RE932—Radiotron 112A LIST PRICE	\$1.30
89 CE986—Cunningham 89 RE986—Radiotron 89 LIST PRICE	\$1.80	874 RE973—Cunningham 874 RE973—Radiotron 874 LIST PRICE	\$4.90
99V CE987—Cunningham 99V RE987—Radiotron 99V LIST PRICE	\$2.25	876 CE989—Cunningham 876 RE989—Radiotron 876 LIST PRICE	\$6.70
99X CE988—Cunningham 99X RE988—Radiotron 99X LIST PRICE	\$1.50	886 CE985—Cunningham 886 RE985—Radiotron 886 LIST PRICE	\$6.75

OTHERS ASK

as much as

20% MORE

for this Quality



GOLD SEAL TUBES

New, Fresh from the Factory

GUARANTEED TO EQUAL CHARACTERISTIC STANDARDS SET BY LEADING MANUFACTURERS

Not a low price Tube; but a guaranteed First Quality Tube at a LOW PRICE

SIX MONTHS GUARANTEE
burnouts and breakage alone are excepted.

Your DISCOUNT Over

50 and 10%

Many of the Net Prices Quoted Figure as Low as

60 and 10% Discount!

GOLD SEAL

Majestic Type Tubes

These tubes are equipped with special shields, and assure a satisfactory replacement in all Majestic receivers using the types listed below.

24S	3E500—List, \$1.30. YOUR PRICE	59¢
27S	3E501—List, 80¢. YOUR PRICE	36¢
35/51S	3E502—List, \$1.40. YOUR PRICE	63¢
55S	3E503—List, \$1.70. YOUR PRICE	76¢
56S	3E504—List, \$1.30. YOUR PRICE	59¢
57S	3E505—List, \$1.75. YOUR PRICE	79¢
57AS	3E506—List, \$1.75. YOUR PRICE	79¢
58S	3E507—List, \$1.75. YOUR PRICE	79¢
58AS	3E508—List, \$1.75. YOUR PRICE	79¢
85AS	3E509—List, \$1.70. YOUR PRICE	76¢
2A7S	3E510—List, \$2.30. YOUR PRICE	\$1.03
6A7S	3E511—List, \$2.30. YOUR PRICE	\$1.03
6B7S	3E512—List, \$2.10. YOUR PRICE	94¢
6D7	3E513—List, \$1.75. YOUR PRICE	79¢
6E7	3E514—List, \$1.75. YOUR PRICE	79¢
6F7S	3E515—List, \$1.90. YOUR PRICE	85¢

00A	3E520—List, \$4.00. YOUR PRICE	\$1.14	6C6	3E535—List, \$1.25. YOUR PRICE	56¢
01A	3E521—List, \$0.60. YOUR PRICE	27¢	6D6	3E536—List, \$1.25. YOUR PRICE	56¢
1V	3E522—List, \$1.50. YOUR PRICE	54¢	6F7	3E537—List, \$1.80. YOUR PRICE	81¢
1A6	3E523—List, \$1.75. YOUR PRICE	68¢	10	3E538—List, \$5.00. YOUR PRICE	\$1.79
1C6	3E524—List, \$2.20. YOUR PRICE	89¢	WD11	3E539—List, \$3.00. YOUR PRICE	93¢
2A3	3E525—List, \$2.25. YOUR PRICE	\$1.01	12A	3E540—List, \$1.30. YOUR PRICE	49¢
2A5	3E526—List, \$1.60. YOUR PRICE	64¢	12Z3	3E541—List, \$1.20. YOUR PRICE	51¢
2A6	3E527—List, \$1.60. YOUR PRICE	69¢	19	3E542—List, \$1.50. YOUR PRICE	68¢
2A7	3E528—List, \$2.20. YOUR PRICE	89¢	20	3E543—List, \$3.00. YOUR PRICE	\$1.35
2B6	3E529—List, \$2.50. YOUR PRICE	\$1.13	22	3E544—List, \$2.00. YOUR PRICE	85¢
2B7	3E530—List, \$2.00. YOUR PRICE	79¢	24A	3E545—List, \$1.20. YOUR PRICE	51¢
5Z3	3E531—List, \$1.50. YOUR PRICE	64¢	25Z5	3E546—List, \$2.00. YOUR PRICE	79¢
6A4/LA	3E532—List, \$1.60. YOUR PRICE	69¢	26	3E547—List, \$0.65. YOUR PRICE	29¢
6A7	3E533—List, \$2.20. YOUR PRICE	88¢	27	3E548—List, \$0.70. YOUR PRICE	32¢
6B7	3E534—List, \$2.00. YOUR PRICE	79¢	30	3E549—List, \$1.30. YOUR PRICE	49¢

World Radio History

THE RAYBEE COMPANY

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GOLD SEAL



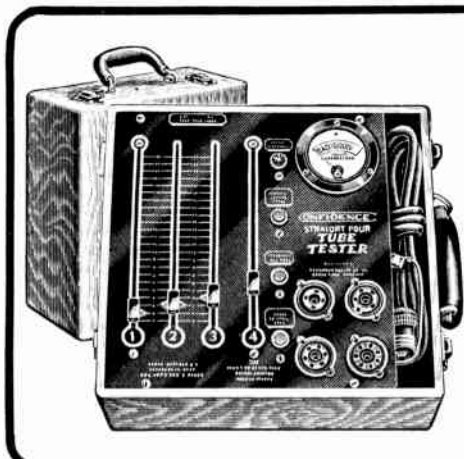
The Perfect

TUBES

31	3E550—List, \$1.30. YOUR PRICE	49¢	46	3E564—List, \$1.55. YOUR PRICE	67¢	77	3E578—List, \$1.80. YOUR PRICE	76¢
32	3E551—List, \$1.90. YOUR PRICE	71¢	47	3E565—List, \$1.30. YOUR PRICE	52¢	78	3E579—List, \$1.80. YOUR PRICE	75¢
33	3E552—List, \$2.10. YOUR PRICE	79¢	48	3E566—List, \$3.00. YOUR PRICE	\$1.30	79	3E580—List, \$2.60. YOUR PRICE	97¢
34	3E553—List, \$2.15. YOUR PRICE	85¢	49	3E567—List, \$1.70. YOUR PRICE	69¢	80	3E581—List, \$0.70. YOUR PRICE	32¢
35/51	3E554—List, \$1.30. YOUR PRICE	54¢	50	3E568—List, \$4.00. YOUR PRICE	\$1.32	81	3E582—List, \$3.50. YOUR PRICE	\$1.19
36	3E555—List, \$1.50. YOUR PRICE	61¢	53	3E569—List, \$1.80. YOUR PRICE	69¢	82	3E583—List, \$1.20. YOUR PRICE	42¢
37	3E556—List, \$1.20. YOUR PRICE	44¢	55	3E570—List, \$1.60. YOUR PRICE	64¢	83	3E584—List, \$1.55. YOUR PRICE	66¢
38	3E557—List, \$1.45. YOUR PRICE	59¢	56	3E571—List, \$1.20. YOUR PRICE	42¢	84	3E585—List, \$1.75. YOUR PRICE	74¢
39/44	3E558—List, \$1.50. YOUR PRICE	64¢	57	3E572—List, \$1.65. YOUR PRICE	59¢	85	3E585—List, \$1.60. YOUR PRICE	62¢
40	3E559—List, \$2.00. YOUR PRICE	76¢	58	3E573—List, \$1.65. YOUR PRICE	69¢	89	3E587—List, \$1.80. YOUR PRICE	71¢
41	3E560—List, \$1.60. YOUR PRICE	63¢	59	3E574—List, \$2.00. YOUR PRICE	78¢	V99	3E588—List, \$2.25. YOUR PRICE	\$1.02
42	3E561—List, \$1.60. YOUR PRICE	65¢	71A	3E575—List, \$0.75. YOUR PRICE	33¢	X99	3E589—List, \$1.50. YOUR PRICE	68¢
43	3E562—List, \$2.50. YOUR PRICE	79¢	75	3E576—List, \$1.60. YOUR PRICE	69¢	SPARTON TYPES		
45	3E563—List, \$0.75. YOUR PRICE	34¢	76	3E577—List, \$1.20. YOUR PRICE	47¢	182B	3E590—List, \$1.65. YOUR PRICE	74¢
						183	3E591—List, \$1.65. YOUR PRICE	74¢
						485	3E592—List, \$1.45. YOUR PRICE	65¢

See Explanatory Note, Bottom of Page VI

Bottom View of Sockets	Tube Circuit Diagram	Type	List	Purpose	Filament Volts	Filament Amps.	Plate Volts	Plate Milliamps	Screen Volts Max.	Screen Milliamps	Neg. Grid Bias V.	Recommended Ohms Bias Resistor	Amplification Factor	Recommended Ohms Plate Load	Power Output Milliwatts	Total Power Consumption In Watts
		00A	\$4.00	Detector Only	5 D. C.	0.25	45	1.5			- .5		20			1.3
		01A	.60	General Purpose Triode	5 D. C.	0.25	135	3			- 9	3000 1/2 Watt	8			1.4
		10	5.00	Power Amplifier Oscillator	7.5 A. C.	1.25	425	18			-39	2170 2 Watt	8	10000	1600	11
		12A	1.30	Amplifier Detector	5 D. C.	.25	180	7.7			-13.5	760 1/2 Watt	8.5	10000	260	1.5
		14	2.25	Philco Special Det.-Amp.	14 D. C.	0.3	180	4	90	1.7	- 3	525 1/2 Watt	400			4.4
		15	2.85	Mixer-Osc. Sub. 1A6	2 D. C.	.205	135	1.85	67.5	0.6	- 1.5	610 1/2 Watt	530			0.6
		17	1.50	Philco Special Det.-Amp.	14 D. C.	0.3	135	4.5			- 9	2000 1/2 Watt	9			4.7
		18	2.75	Philco Power Pentode	14 D. C.	0.3	250	34	250	7.5	-16.5	400 4 Watt	220	9000	3000	7.2
		19	1.50	Class "B" Output	2 D. C.	0.26	135	25			0			10000	2100	2.6
		20	3.00	Early Batt. Triode	3.3 D. C.	0.132	135	6.5			-22.5	"C" Batt.	8.3	6500	110	.55
		22	2.00	Early Batt. Tetrode	3.3 D. C.	0.132	135	3.7	67.5	1.3	- 1.5	"C" Batt.	160			.45
		24A	1.20	Screen-Grid Det.-Amp.	2.5 D. C.	1.75	250	4	90	1.7	- 3	525 1/2 Watt	630			5
		26	.65	R. F. or A. F. Amplifier	1.5 A. C.	1.05	180	6.2			-14.5	2320 1 Watt				2.6
		27	.70	General Purpose Triode	2.5 A. C.	1.75	250	5.2			-21	4100 1.5 Watt	9			5.8
		29		High Mu Detector	2.5 A. C. D. C.	1	180	4.5			- 3	6675 1/2 Watt	30			2.7
		30	1.30	General Purpose Triode	2 D. C.	0.06	135	3			- 9	3000 1/2 Watt	9.3			1.7
		30S		Spec. Triad S-W Tube	2 D. C.	0.06	135	3			- 9	3000 1/2 Watt	9.3			1.7
		31	1.30	Pwr. Amp. Triode	2 D. C.	0.13	135	8			-22.5	2800 or "C" Batt.	3.8	7000	185	.35
		32	1.90	R. F. Amp. Tetrode	2 D. C.	0.06	135	1.7	67.5	0.4	- 3	1425 or "C" Batt.	610			1.5
		33	2.10	Pwr. Output Pentode	2 D. C.	0.26	135	14.5	135	3	-13.5	770 or "C" Batt.	70	7000	700	1.2
		34	2.15	Var. Mu. R. F. Amp.	2 D. C.	0.06	135	2.8	67.5	1	- 3	800 or "C" Batt.	360			.2



CONFIDENCE Tube Tester

Four Simple Operations—Four Straight Sockets

We guarantee that the operation of this tester is so simple, the instructions so clear that your customer can accurately test his own tubes after you guide him in testing the first tube.

Let your wife or clerk sell tubes for you. With the Confidence Straight Four Tube Tester, they can serve your customers just as well on tube testing as you can. How many sales can be made while you are out on calls?—How many tube sales were lost because the tester in your store was too complicated for anyone besides yourself to operate? Every tube in the Radolek Tube Chart may be tested without adapters in this instrument. After adjusting the line voltage with slider 4, observe the three numbers opposite the tube type on the table in the lid of the tester. Adjust the three sliders to their correct positions and insert the tube in the socket it fits. The meter indicates GOOD or BAD. A cathode heater leakage test is made while the tube is hot. Other shorts indicate on the ruby jewel adjacent to the meter.

Adapters are not necessary with the Confidence Straight Four Tube Tester. Every tube employed in standard radio receivers for the past six years can be tested quickly and accurately on this modern up to date tube tester. A feature of Confidence Tube Testers incorporated in this model is the 01A tube used as a half-wave rectifier for the meter when measuring A. C. line voltage on the D. C. 1 mil, 3/4 in D'Arsonval meter. The tube is in service only when the line voltage button is pressed. Two sockets are provided for testing 2 1/2 and 6 volt pilot lights. A six volt bulb may be left in the 2 1/2 volt socket as a pilot for the tester. Provision is made under the panel for wiring for about 30 different circuits which might someday be necessary if new tubes are announced. Size of case 10"x15"x6 1/2" with slip hinge cover.

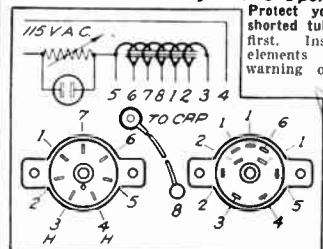
1E2540—Confidence Straight Four Tube Tester. \$43⁶¹
YOUR PRICE

See Explanatory Note, Bottom of Page VI

Bottom View of Sockets	Tube Circuit Diagram	Type	List	Purpose	Filament Volts	Filament Amps.	Plate Volts	Plate Milliamps	Screen Volts Max.	Screen Milliamps	Neg. Grid Bias V.	Recommended Ohms Bias Resistor	Amplification Factor	Recommended Ohm Plate Load	Power Output Milliwatts	Total Power Consumption In Watts		
		35	\$1.30	Var. Mu. Same as 51	2.5 A. C.	1.75	250	6.5	90	2.5	- 3	333 Min. 1/4 Watt	420			4.8		
		36	1.50	Gen. Pur. Tetrode Same as 64A.	6.3 A. C. D. C.	0.3	180	3.1	90	1	- 3	750 3/8 Watt	525			2.9		
		37	1.20	Triode Same as 67A	6.3 A. C. D. C.	0.3	180	4.3			-13.5	3150 1 Watt	9.2			2.8		
		38	1.45	Pentode Same as 68A	6.3 A. C. D. C.	0.3	180	14	180	2.4	-18	1100 2 Watt	120	11600	1000	3		
		39	1.50	Var-Mu Pentode Same as 44 and 65A	6.3 A. C. D. C.	0.3	250	5.8	90	1.4	- 3 Min.	417 1/2 Watt	1050			2.1		
		40	2.00	Early Hi-Mu Triode	5 D. C.	.25	135	0.2			- 1.5		30			1.3		
		40 SO1	6.00	Arcturus-Dia. T. Sonora Spec.	15 A. C.	0.35	180	21			-40.5	"C" Batt.	3	4000		6		
		41	1.60	Pwr. Output Pentode	6.3 A. C. D. C.	0.4	180	18.5	180	3	-13.5	627 2 Watt	150	9000	1500	4		
		42	1.60	Pwr. Output Pentode	6.3 A. C. D. C.	0.7	250	34	250	6.5	-16.5	407 4 Watt	220	7000	3000	7.5		
		43	2.50	AC-DC Pwr. Output Pentode	25 A. C. D. C.	0.3	100 135	20 34	100 135	4 7	-15 -20	625 498 3 Watt	90 80	4500 4000	900 2000	9.5		
		44 (39-44)	1.50	Var-Mu or R. F. Det.	6.3 A. C. D. C.	0.3	90	5.6	90	1.6	- 3	417 1/2 Watt	360			2		
		45	.75	Pwr. Output Triode	2.5 A. C.	1.5	250	34			-50	1470 3 Watt	3.5	3900	1600	3.7		
		46	1.55	Dual Grid Class "B"	2.5 A. C.	1.75	250	22			-33		5.6	6400	1250	22		
														Class "B"				
																5800	20000	
		47	1.30	Pentode Output Same as PZ	2.5 A. C.	1.75	250	31	250	6	-16.5	446 4 Watt	150	7000	2700	5		
		48	3.00	AC-DC Pentode Output	30 A. C. D. C.	0.4	95	47	95	9	-20	357 4 Watt	28	2000	1600	14		
		48 RAI	4.50	Arcturus-Dia. T. Sonora Spec.	15 A. C.	0.35	90	4.5			- 4.5	"C" Batt.	10.9	18000		6		
		49	1.70	Dual-Grid Pwr. Output	2 D. C.	0.12	135	5.7			-20	3500	4.5	11000	170	3.75		
														Class "E"				
																12000	3500	
		50	4.00	Extra Heavy Pwr. Output	7.5 A. C.	1.25	400	55			-70	1275 10 Watt	3.8	3670	3400	12.7		
		51	1.30	Var. Mu R. F. (Substitute Type 35)	2.5 A. C.	1.75	180	6.3	90	2.5	- 3	410 Min. 1/2 Watt	305			4.8		
		52	1.60	Tetrode Class "B" (Substitute Type 89)	6.3 A. C. D. C.	0.3	100	42										
														Class "B" only as a Double Grid.				
		53	1.80	Twin Triode Class "B"	2.5 A. C.	2	300							10000	10000	15		
														Class "B"				

A. C. Tube Short Checker Kit—"Build-it Yourself"

Neon Bulb Instantly Shows Open Filament or Inter-element Short



Protect your regular tube tester or analyzer from shorted tubes! Test every tube in this short checker first. Instant indication of leakage between any elements or open filament. Gives you adequate warning of defective tubes which might ruin an expensive test meter. You can't afford to omit this splendid Short Checker from the next tube tester you build! Radolek's Essential Parts Kit includes only the items you need when "building your own tester."

Build the complete Short Checker as a separate piece of test equipment for your service bench. Each numbered wire in the diagram connects to the corresponding numbers on the tube sockets. For 110-120 Volts 25-60 cycles A.C.

Essential Parts Kit

- Parts supplied: 1-Tapped Choke, 1-Special Variable Resistor, 1-Neon Bulb, 1-4, 5, 6 Hole Tube Socket, 1-Dual 7 Hole Socket, 1-Neon Bulb Socket, and Plans for building. No Panel or Cabinet included.

\$3.95

Principle of Operation

Filament or heater completes circuit through 3 and 4 in the diagram when tube is inserted in one of the sockets. With 115 volt A.C. 60 cycle supply, this momentarily flashes the neon bulb. Any trace of leakage in the tube elements places a "load" across the sections of the tapped choke changing its impedance from approximately 0.1 megohm to a negligible quantity. Practically the full A.C. line voltage is then applied to the neon bulb. An open filament does not cause the initial flash. Complete instructions included.



Complete Parts with Case

This Kit consists of Essential Parts Kit and a neatly finished walnut case, size 7"x4 3/4"x3 3/4" high, bakelite panel (cut to size but not drilled) hook-up wire, 40" heavy rubber covered connecting cord and plug.

\$5.95

See Explanatory Note, Bottom of Page VI

Bottom View of Sockets	Tube Circuit Diagram	Type	List	Purpose	Filament Volts	Filament Amps.	Plate Volts	Plate Milliamperes	Screen Volts Max.	Screen Milliamperes	Neg. Grid Bias V.	Recommended Ohms Bias Resistor	Amplification Factor	Recommended Ohms Plate Load	Power Output Milliwatts	Total Power Consumption In Watts
		55	\$1.60	Diode Lo-Mu Triode	2.5 A. C.	1	250	8			-20	2500 1/2 Watt	8.3	20000	350	2.9
		56	1.20	Improved Triode	2.5 A. C.	1	250	5			-13.5	2700 1 Watt	13.8			3.5
		57	1.65	Hi-Mu. Det. R. F. and Osc.	2.5 A. C.	1	250	2	100	0.5	-3	1200 1 Watt	1500			3.5
		58	1.65	Var.-Mu R. F. Amp.	2.5 A. C.	1	250	8.2	100	2	-3	294 1/2 Watt	1280			2.75
		59	2.00	3 Grid Pentode	2.5 A. C.	2	250	35	250	9	-18	408	100	6000	3000	2.5
							250	26			-28	1150	6	5000	1250	2.5
							400							6000	20000	
									Class "B"							
		64	1.70	Nat. Un. Tetrode Substitute type 36 in Parallel	6.3 A. C.	0.4	135	3	67.5	3	-1.5	250 1/2 Watt	370			2.8
		65	1.60	A. F. Amp. Substitute type 36 in Parallel	6.3 A. C. D. C.	0.4	135	3.5			-9	2570 1/2 Watt	9			3
		67	1.30	Det.-Amp. Substitute type 37 in Parallel	6.3 A. C. D. C.	0.4	135	5	67.5	3	-15	1870 1/2 Watt	320			2.7
		68	1.55	Output Pentode Substitute type 38 in Parallel	6.3 A. C. D. C.	0.4	135	14	135	3	-13.5	795 1 Watt	90	7500	650	3.14
		69		Spec. Hi-Mu. Detector	6.3 A. C. D. C.	0.3	180	4.5			-3	666 1/2 Watt	30			2.1
		71A	.75	Pwr.-Amp. Triode	5 A. C. D. C.	.25	180	20			-43	2150 2 Watt	3	4800	790	2.3
		75	1.60	Double Diode Hi-Mu Triode	6.3 A. C. D. C.	0.3	250	0.8			-2.	2500 1/2 Watt	100			2.1
		77	1.80	Hi-Mu R. F. Pentode	6.3 A. C. D. C.	0.3	250	2.3	100	0.6	-3	1035 1/2 Watt	1500			2.1
		78	1.80	Var. Mu. R. F. Pentode	6.3 A. C. D. C.	0.3	250	7	100	2	-3	334 1/2 Watt	1160			2.4
		79	2.60	Class "B" Twin Triode	6.3 A. C. D. C.	0.6	180	7.5						7000	5500	9.3
									Class "B"							
		85	1.60	AVC Diode Triode	6.3 A. C. D. C.	0.3	250	8			-20	2500 1 Watt	8.3	20000	350	2.1
		87	1.65	R. F. Pentode Same as 57A	6.3 A. C. D. C.	0.4	250	2	100	1	-3	1000 1/2 Watt	1250			2.8
		88	1.65	Var. Mu. R. F. Pentode Same as 58A	6.3 A. C. D. C.	0.4	250	8.2	100	3	-3	270 1/2 Watt	1280			3
		89	1.80	-As a Triode or Pentode	6.3 A. C. D. C.	0.4	250	32	250	5.5	-31 -25	970 666 1 Watt	4.7 125	5500 6750	350 340	3 3
		89	1.80	-As a Class "B" Amplifier	6.3 A. C. D. C.	0.4	180				0			9400	3500	6
		UV99 UX99	2.25 1.50	Gen. Purpose Same as 293	3.3 D. C.	0.06	90	2.5			-4.5	"C" Batt.	6.6			5.3

DAYRAD

TUBE PERFORMANCE METER

Performs Six Basic Functions with One Instrument

Universal Tube Performance Meter, Signal Generator and Output Meter. Neutralizing and Balancing Unit—Comparative Set Efficiency Tester.

Easy to Use—Many Uses

Shielded transmission cable couples output of modulated oscillator to set under test. Output meter connects to power tube plate prong. No change in connections for all following uses: As a Balancing oscillator; permits matching of R.F. and I.F. trimmer condensers. As Comparison Efficiency Tester; similar sets can actually be compared to detect difference in gain. As Neutralizer; the well modulated signal permits excellent neutralization. Makes location of loose connections easy by observing output as each wire is wiggled. Checks efficiency of A.V.C. circuits. Also compares new and old tubes in actual service by difference in total gain.

Universal Tube Performance Meter

Has ability to test any tube employed in a radio set. The Performance Meter generates a modulated signal at radio-frequency, thus testing a receiver under actual operating conditions. By substituting one new tube at a time in the radio under test, the increased reading on the output meter is proof of the need for new tubes. No special scales—No mathematical computations—No difficulty in explaining action to your customer. No complicated tube socket adapters required. When used with a volt-ohmmeter, radio troubles can be located. The rectifier type capacity

coupled output meter with a variable shunt control may be employed separately.

SPECIFICATIONS: 100% shielded cast aluminum case finished in durable crackle-lacquer, contains batteries, tube, output meter, coils, and control potentiometers. Lithographed panel. Non-removable binding posts. Instructions for operation and location of plate prongs on all types of power tubes included. Accessories required for operation, 1 Type RCA-Cunningham 30 tube, 1 Burgess No. 5126, 22 1/2 volt battery, 2 No. 222 Burgess two cell flashlight batteries. Back plate may be removed for installation of batteries.



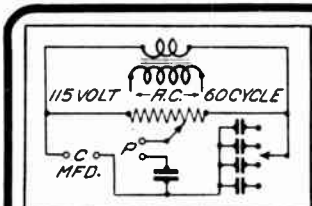
Bargain Price!

IE2545—List, less tube and batteries, \$40.00. **\$15.95**

YOUR PRICE

See Explanatory Note, Bottom of Page VI

Bottom View of Sockets	Tube Circuit Diagram	Type	List	Purpose	Filament Volts	Filament Amps.	Plate Volts	Plate Milliamps	Screen Volts Max.	Screen Milliamps	Neg. Grid Bias V.	Recommended Ohms Bias Resistor	Amplification Factor	Recommended Ohms Plate Load	Power Output Milliwatts	Total Power Consumption in Watts
		181	\$1.90	Spartan Power Tube Top Heater	3 A. C.	1.75	180	20			-32	1600 2 Watt	5	7000	1500	7
		1A6	1.25	Mixer-Osc. Same as 15	2 D. C.	0.06	180	1.3	67.5 Anode Grid #2 135	2.4 2.3	-3	1037 1/2 Watt				1.5
		2A3	2.25	Multi. Filament Class "A"	2.5 A. C.	2.5	250 300	60 40			-45 -62	750 10 Watt 4.2	4.2	2500 5000 3000	3500 10000 15000	10
		1C6	2.20	Heptode Converter	2 D. C.	.13	180	2.8	67.5	0.1	-3					
		2A5	1.60	Pentode Output Same as 95 and PZH	2.5 A. C.	1.75	250	34	250	6.5	-16.5	407 4 Watt	220	7000	3000	5
		2A6	1.60	Double Diode Hi-Mu Triode	2.5 A. C. D. C.	0.8	250	0.8			-2	2500 1/2 Watt	50			4.5
		2A7	2.20	Mixer. Osc. Converter	2.5 A. C. D. C.	0.8	250	3.5	100 Anode Grid #2 200	2.2 4	-3	300 1/2 Watt				3
		2B6	2.50	Double A-F Amp. Values for Output Sec.	2.5 A. C.	2.25	250	40			-24 +2.5	8000 540 1/2 & 5 W.	18	5000	4000	10
		2B7	2.00	AVC Duo-diode Pentode	2.5 A. C. D. C.	0.8	250	9	126	2.3	-3	266 1/2 Watt	730			2.5
		2S	2.65	Majestic Duo-Diode	2.5 A. C.	1.75	20	11								4.4
		4S	2.65	Majestic Duodiode	2.5 A. C.	1	20	11								
		6A4	1.60	Pentode Pwr. Output Same as LA	6.3 A. C. D. C.	0.3	180	22	180	3.9	-12	463 2 Watt	100	8000	1400	3.3
		6A7	2.20	Mixer Oscillator	6.3 A. C. D. C.	0.3	250	3.5	100 Anode Grid #2 200	2.2 4	-3	525 1/2 Watt				3
		6B7	2.00	Diode Pentode	6.3 A. C. D. C.	0.3	250	9	125	2.3	-3	265 1/2 Watt	730			2.5
		6C6	1.25	Var-Mu R. F. Pentode	6.3 A. C. D. C.	0.3	250	2.3	100	1	-3	910 1/2 Watt	1500			2.5
		6C7	1.90	AVC Diode Triode	6.3 A. C. D. C.	0.3	250	5.5			-9	1635 1/2 Watt	20			2.7
		6O6	1.25	Var. Mu R. F. Pentode	6.3 A. C. D. C.	0.3	250	7.5	100	1.75	-3	324 1/2 Watt	1160			2.7
		6D7	1.75	R. F. Pentode	6.3 A. C. D. C.	0.3	250	2.3	100	1	-3	910 1/2 Watt	1500			2.2
		6E7	1.75	R. F. Pentode	6.3 A. C. D. C.	0.3	250	7.5	100	1.75	-3	324 1/2 Watt	1160			2.4
		6F7	1.90	Mixer, Osc. Triode Pentode	6.3 A. C. D. C.	0.3	250	6.5	100	1.5	-3	375 1/2 Watt	900			2.4
		12A5	2.10	Double Heater Pentode	12.6 A. C. D. C.	0.3	180	40	180	9	-27	551 5 Watt		4500	2800	8.7



"P" Means A Baldwin Phone



Only with a sensitive balanced armature Genuine Nathaniel Baldwin Phone can you determine the exact zero hum position of the Potter Condenser Test bridge. The Baldwin does not deteriorate on A. C. testing where ordinary headphones would lose their magnetism and sensitivity.

3E2359— YOUR PRICE \$1.90

Universal Condenser Tester

Measures All Type Condensers
Electrolytic—Paper—Mica
From .0001 to 30 Mfd.

A Capacity Bridge For Quickly and Accurately measuring the capacity of all types of condensers. Mica, paper, or electrolytic type condensers—all capacities without excessive leakage may be balanced against a resistance-capacity net work in the Potter-Condenser Tester. Uses any frequency—any voltage, up to 120, available from commercial A. C. lines. A sensitive headphone or high resistance A. C. voltmeter should be used in the customary position of a galvanometer in the bridge circuit. ("P" in the diagram.) When measuring a condenser, the range and potentiometer knobs are adjusted until no hum is heard in the headphone. The Capacity is then read directly on the scale indicated by the 4 point multiplier switch. Its Easy. Its Fast.

This Condenser Tester is the most accurate low priced capacity measuring device on the market. You will find it as useful as your ohmmeter. For point-to-point capacity tests in filter and bypass circuits. It will speed up your work, locate causes of hum and intermittent reception; you can do better work and make more money with this valuable addition to your testing equipment. Those hard to check capacities between .0001 and .01 appear on the large outer range scale where they are easy to read. 100% shielded! Lacquered steel case with celluloid range scale and bakelite knobs give this instrument a professional touch. Size 5 1/4" x 5 1/2" x 3 1/4" deep. 20 inch test leads and 30" line cord. Shpg. wt. 2 1/2 lbs.



3E5298— List. \$17.00.
YOUR PRICE \$9.75
With Baldwin Phone and cord.
3E5299—List \$22.00
YOUR PRICE \$11.65

See Explanatory Note, Bottom of Page VI

Bottom View of Sockets	Tube Circuit Diagram	Type	1.1st	Purpose	Filament Volts	Filament Amps.	Plate Volts	Plate Milliamps	Screen Volts Max.	Screen Milliamps	Neg. Grid Bias V.	Recommended Minus Bias Resistor	Amplification Factor	Recommended Ohms Plate Load	Power Output Milliwatts	Total Power Consumption In Watts
		401 and 373	\$4.00	Kellog O'v'rhead Heater Triode	3 A. C.	1	180	6			-13.5	2250 1/2 Watt	8.7	14000		4
		482B	1.65	Sparton P-P A. F. Triode	5 A. C.	1.25	250	18			-32.5	1805 4 Watt	5	4500	1400	9.5
		483	1.65	Sparton P-P A. F. Triode	5 A. C.	1.35	250	25.3			-40.5	1590 2 Watt	3.3	3900	1600	10
		485	1.45	Sparton Triode Quick Heater Replacing 484	3 A. C.	1.25	90	5			- 3	600 1/2 Watt	12.5			4
		486	4.10	Sparton Special Triode	3 D. C.	.25	90	3			- 3	1000 1/2 Watt	12.5			1.5
		586	4.00	Sparton Pwr. Output Same as 50	7.5 A. C.	1.25	450	55			-80	1450 10 Watt	3.8	4350	4600	14
		864	2.10	For Portable Oscillator and Preamplifiers	1.1 D. C.	.25	135	3.5			- 9	2575 or "C" Batt.	8.2			.3
		AE		Tetrode Hi-Mu Output	12.6 A. C. D. C.	0.3	100	8.5	100	1.75	-13.5	1330 1 Watt	20	13500	400	4.5
		GA	2.75	Arcturus Special Pentode	5 A. C. D. C.	.25	180	25	180	7.5	-10	307 1 Watt	60	7000	800	5.5
		KR5		Kenrad Pwr. Output Pentode	6.3 A. C. D. C.	0.3	165	17	165	3.5	-11	537 2 Watt	100	8000	1200	2.4
		KR20	3.00	AVC Detector	2.5 A. C.	1	250	3.5					14	.1 Meg		3
		KR22	2.00	AVC Detector	6.3 A. C. D. C.	0.4	250	3.5					14	.1 Meg		3
		KR25		Pentode Output	2.5 A. C.	1.75	250	34	250	6.5	-16.5	407 4 Watt	220	9000	3000	7.8
		LA	2.75	Pwr. Pentode Substitute 6A4	6.3 A. C. D. C.	0.3	165	17	165	3.5	-11	470 2 Watt	100	8000	1200	3
		PZ	1.30	Arcturus Number for Type 47	2.5 A. C.	1.5	250	32.5	250	7.2	-16.5	410 4 Watt	95	7000	3000	7
		PZH	1.60	Arcturus Number for Type 2A5	2.5 A. C. D. C.	2	250	33.5	250	8	-16.5	400 5 Watt	100	7000	3500	8.5
		WD11	3.00	Early Batt. Sets	1.1 D. C.	.25	135	3			- 9	"C" Batt.	6.5			.3
		WX12	3.00	Gen. Purpose Triode Sub. 864	1.1 D. C.	.25	135	3			- 9	"C" Batt.	6.6			.3
		WUN	3.00	Twin Grid AVC. Det.	2.5 A. C. D. C.	1	250	7			-16.5	236 1/2 Watt	9.25			3
		WUNA	3.00	For Auto Sets	6.3 A. C. D. C.	0.4	250	7			-16.5	236 1/2 Watt	9.25			2.5

RADIO SERVICE

A Genuine NEON Sign
"Radio Service"

14E10734—
YOUR PRICE, ONLY **\$15.00**

In Brilliant Red Neon! Words perfectly formed in glass tubing which is protected by an artistic steel case 20" wide, 8" high, and 5 1/2" deep. Neon transformer housed within the case. DOES NOT INTERFERE WITH RADIO RECEPTION! Operates on A.C. 110 to 120 volts, 60 cycle only. Low power factor of Neon tubing makes the cost of operation of this sign very slight. Costs no more to operate than a 60 watt bulb.

An Unprecedented Offer

Fully guaranteed for one year. This guarantee does not cover breakage of the tubing which can only be injured by actual physical violence. Tubing is floated on rubber and inconspicuously braced at 10 points. Shipments are made only by Express. We guarantee delivery of sign in perfect condition, ready to plug-in.

Auxiliary Tube Tester

Used with Any Style Tube Tester
1E8075—
YOUR SPECIAL PRICE

\$14.70



Contains 30 sockets, including pre-heaters for new tubes, special A. C. transformer for 2, 2.5, 5, 6.3, 12.6, 14, 25, 30 and 10 volts. Permits testing of the following tubes in old A.C. testers that have a circuit for "2A4" tube—1, 1-V, 15, 18, 19, 29, 33, 36, 37, 38, 39, 41, 42, 43, 44, 46, 47, 48, 49, 52, 55, 57, 58, 59, 64, 65, 67, 68, 69, 75, 77, 78, 79, 80, 82, 83, 84, 85, 87-F, 88-F, 89, 90, 92, 95, 484, 485, 2A5, 2A6, 2A7, 6A4, 6A7, 2B5, 2B7, 6B7, 6C8, 6D8, 21Y, 6D7, 6E7, 6F7, 2F7, 2Y3, 6Y5, 5Z3, 12Z3, 6Z4, 2Z5, AD, AF, AG, AH, G-2, G-4, KR-1, KR98-31, KR98-23, LA, PZ, PZH, RE-1, Wund 21P, Wund 6PR. Test both plates of rectifiers. Tester plugs into the 2A4 socket of your regular tester, and to 115v. A. C. Panel size 10"x12". Depth of walnut cabinet 3 3/4" **World Radio History**

1000 Hour Guarantee
Electric Soldering Iron



At an amazingly low price. Well made. For occasional light soldering. 4' cord; 3/8" tin. For 105-125 volt.

29c

3E4776—
YOUR PRICE

Easy Starting Screw Driver



Positive Gripping Action

Will start any size screw in the most inaccessible places. Self releasing. High grade bakelite construction.

Stock Number	Size Dia. Length	Screw Size	Your Price
3E4637	3/8" x 4 1/2"	2 to 6	9c
3E4638	3/8" x 6"	6 to 12	12c
3E4639	3/8" x 8 1/2"	2 to 8	15c

For TOOLS, You need in Radio Servicing,
See Pages 100 to 105.

Bottom View of Sockets	Tube Circuit Diagram	Type	List	Purpose	Filament Volts	Filament Amperes	A. C. Plate Volts	Max. D.C. Output in Milliamperes	Total Power Consumption in Watts	
		I	\$1.25	Half Wave M-V Rect.	6.3	0.3	350	50	1.89	
		I-V	1.50	Half Wave HI-Vac Rectifier	6.3	0.3	350	50	1.89	
		80	.70	Full Wave Rectifier	5	2	350	125	11	
		80M	1.55	Kenrad F. W. M. V. Rect. Sub. 83	5	2	425	125	10	
		81	3.50	Half Wave Rectifier	7.5	1.25	700	85	10	
		81M		Kenrad M.V. Half Wave Rectifier	7.5	1.25	750	85	9.4	
		82	1.20	Full-Wave M-V Rect.	2.5	3	500	125	7.5	
		83	1.55	Full-Wave M-V Rect.	5	3	500	250	15	
		84	1.75	Full-Wave M-V Rect.	6.3	.5	225	50	3.2	
		5Z3	1.50	Full-Wave Rectifier	5	3	500	250	15	
		6Z3	1.25	Full-Wave Rectifier	6.3	0.3	350	50	1.89	
		6Z5	1.90	Double Fil. Full-Wave Rectifier	6.3	0.8	230	60	5.04	
		12Z3	1.20	Half Wave Rectifier	12.6	0.3	230	60	3.78	
		12Z5	1.90	Full-Wave Rectifier	12.6	0.3	225	60		
		25Z5	2.00	Full-Wave Rectifier	2.5	0.3	125	100		
		866	9.00	Half-Wave Rectifier	2.5	5	7500	600	12.5	
		986	1.65	Full-Wave M.V. Rectifier	5	0.5	500	200	2.5	
		AD	1.50	Rectifier For Auto Sets	6.3	0.3	350	50	1.89	
		AF	1.80	Spec. Arcturus Rectifier Substitute 82	2.5	3	500	125	7.5	
		AG	2.05	Arcturus Type 83	2.5	3	500	250	7.5	
		874	4.90	Voltage Regulator	Operating Voltage.....90 Volts. Starting Voltage.....125 Volts. Operating Current.....10-50 M.A.					
		BA	7.50	Full Wave Rectifier	Has no Fil'mnt	Max. A.C. Volts (RMS) 350 Volts per plate. Max. D.C. Output 350 M.A. Max. D.C. Output 300 Volts.				
		BH	4.65	Full Wave Rectifier	Has no Fil'mnt	Max. A.C. Volts (RMS) 350 Volts per plate. Max. D.C. Output 125 M.A. Max. D.C. Output 300 Volts.				

Elkon 5,000 Hour "B" Rectifier



Replaces rectifier tube in "B" Eliminator. Dry, solid, rugged self healing. Just replace the fragile 1,000 hour tube with this sturdy 5,000 hour Elkon EBH and the change is made. Not affected by accidental surges or overloads. No adjustments required. Shpg. wt. 1/2 lb.

3E85—For "B" Eliminators using Raytheon BH Tube.
List, \$6.00.
YOUR SPECIAL PRICE .. 79c

Genuine Raytheon Rectifier Tubes

Long Life. No Filament.

Greater economy and reserve power; enough to run a 10-tube set. Uninterrupted service. No liquids. Utilizes both halves of the alternating current for rectification, except in BH half wave model.



Stock Num.	Type	Mills.	List	Net
3E840	BR	50	\$2.75	\$1.45
3E839	BH	125	4.65	2.46
3E838	BA	350	7.50	3.97

Genuine KELLOGG A. C. Tubes

The original top connection radio tube designed to operate on alternating current. Operates directly from house lighting current with step down transformer. Quiet operation. No hum nor microphonics. Has excellent tone quality. Extremely rugged construction insures long life and satisfactory service. Shpg. wt., each about 1 lb.



3E875—Type 401.
List, \$4.00.
YOUR PRICE \$2.33
3E876—Type 403.
List, \$5.00.
YOUR PRICE \$2.94

Kellogg McCoullough Type Tubes

Same type as used in many Sharton, Kellogg and other sets. Excellent quality and a real value.

3E877—Type 401 Tubes.
List Price, \$4.00.
YOUR PRICE \$1.56



BARGAIN Power Tubes

Excellent quality guaranteed tubes. Wonderful values at our prices. You will find them very satisfactory for all work.

3E880—Type 210.
3E881—Type 250.
3E882—Type 281.
\$1.10
PRICE, EACH
IN LOTS OF
TEN, EACH \$1.05



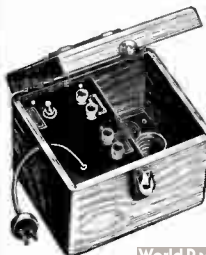
EXPLANATORY NOTE for Radolek Tube Charts

Watt rating recommended for bias resistor values is high enough to carry the A.C. component of the plate circuit. All bias resistors should be bypassed by sufficient capacity to handle 75% of the A.C. component.

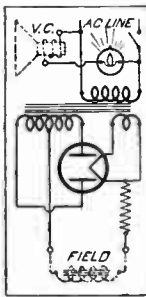
Approximate total power consumption of tubes is given to aid Servicemen in selecting the proper replacement power transformer according to the load the transformer must handle. Usually 15% extra is allowed for power consumed by voltage divider bleeder circuits. Radolek Transformers are rated in safe load capacities.

Universal Speaker Tester

For Aligning Dynamic and Magnetic Speaker Cones



Permits exact centering of any dynamic speaker voice coil or any magnetic speaker armature, while in motion! Actuates voice coil or armature at 60 cycle pulsation which permits use of spacing shims to secure proper alignment of cone. Operates on 60 cycle 105-120 volt, A. C. Supplies rectified D. C. to any dynamic speaker field coil having more than 250 ohms resistance. A ten watt pilot bulb in series with the A. C. line supply indicates open voice coil circuits or intermittent shorting of a voice coil. Tester is supplied in a genuine walnut portable carrying case with metal handle and clasp.
3E7975—Tester with 10 Watt Lamp
Without type 80 tube. **\$6.47**
YOUR PRICE



Sub-Panel Tube Sockets

With Tube Locating Ring



Used as standard equipment by many of the largest set manufacturers. Strong, sturdy, durable laminated construction. Top entirely insulated with positive locating ring. Tubes easily and quickly inserted. New floating contacts eliminate all strain on the bakelite, preventing warping and loss of tension. Contacts self-aligning, assuring a firm positive contact on each tube prong, at all times.

Midget Size

With mounting holes 1 1/2 inch centers. Overall length 1 3/8". Width 1 3/8".

Standard Size

With mounting holes 1 3/8 inch centers. Overall length 2 1/8". Width 1 3/8".

Stock Num.	P'gs	Markings	Stock Num.	P'gs	Markings	Stock Num.	P'gs	Markings	Stock Num.	P'gs	Markings
3C6210	4	None	3C6229	5	239	3D6245	4	None	3D6268	5	238
3C6221	5	None	3C6230	6	41	3D6261	5	None	3D6269	5	239
3C6238	6	None			3D6279	6	None	3D6270	6	'41	
3D8100	7	None	3C6231	6	42	3D6282	7	None	3D6271	6	'42
(Small-circle)	.750	pin	3C6232	5	44	(Large-circle)	.850	'pin	3D6272	5	'44
3D8101	4	2A3	3C6233	5	43	3D6275	7	None	3D6254	4	245
3D8102	6	2A5	3C6234	5	46	(Small-circle)	.750	'pin	3D6273	5	'46
									3D6274	5	247
									3D6275	6	'48
3D8103	6	2A6	3C6235	5	247	3D8126	4	2A3	3D8135	5	'49
3D8104	7	2A7	3C6236	6	48	3D8127	6	2A5	3D8136	7	'53
3D8105	6	6A4	3D8113	5	49	3D8128	6	2A8	3D6255	4	250
3D8106	7	6A7	3D8114	7	53	3D8129	7	2A7	3D6276	5	551
3D8107	7	2B7	3D6236	7	53	3D8130	7	2B7	3D6277	6	'55
3D8108	7	6B7									
			3C6237	5	56	3D8111	4	5Z3	3D6278	5	'56
3D8109	4	C1	3C6239	6	57	3D8127	6	25Z5	3D6280	6	'57
3D8110	4	5Z3	3C6240	6	58	3D6246	4	201A	3D6281	6	'58
3D8111	6	25Z5	3C6242	7	59	3D6247	4	210	3D6283	7	'59
3C6211	4	112A	3C6217	4	171A	3D6248	4	112A	3D6256	4	171A
3C6222	5	224									
3C6223	5	227									
3C6212	4	230	3D8115	6	75	3D6262	5	224	3D8137	6	'75
3C6213	4	231	3D8116	6	77	3D6249	4	226	3D8138	6	'77
3C6214	4	232	3D8117	6	78	3D6263	5	227	3D8139	6	'78
3C6215	4	233	3C6218	4	280	3D6245	4	230	3D8140	6	'79
3C6224	5	233				3D6251	4	231	3D6257	4	280
3C6215	4	234	3C6219	4	82	3D6252	4	232	3D6258	4	281
3C6225	5	235	3C6220	4	83	3D6264	5	233	3D6259	4	'82
			3D8119	5	84	3D6253	4	234	3D6260	4	'83
3C6226	5	236	3D8120	6	85	3D6265	5	235	3D6261	5	'84
3C6227	5	237	3D8121	6	89	3D6266	5	236	3D8142	6	'85
3C6228	5	238				3D6267	5	237	3D8143	6	'89

Multiposition Bakelite Sockets

Made of molded Bakelite with tube locating groove. Mounts without screws or rivets; held to chassis with ring of spring steel. Requires less space than the tube base. Mounts in 1 1/2" hole (large size 7 prong in 1 3/8" hole). Very easy to mount. For use in material not over 1/8" thick.



Stock Number	Number of Prongs	Your Price Each	Ten For
3E6719	4	5c	45c
3E6720	5	5c	55c
3E6721	6	6c	55c
3E6722	7 small	6c	55c
3E6723	7 large	6c	57c

Universal Adapter Plate



For Replacing Any Size Wafer Socket. Steel plate with correct size hole for the tube. Multi-position socket. Slotted mounting hole centers from 1 1/2" to 2". Socket can be rotated in adapter base for wiring.

3E6725—Adapter plate only. YOUR PRICE, EACH 2c

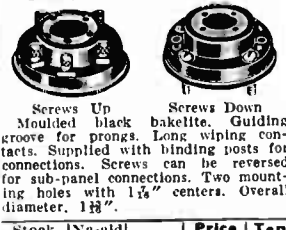
Tube Shield Base



The flange of the top of the socket securely binds the shield base to the chassis without the use of any rivets or screws. Turning is prevented by a small lug projection on the shield base which fits into a slot in the side of the socket. Made of a cadmium plated rust proof metal. Fits all standard size shields.

3E6724—Shield base only. YOUR PRICE, EACH 2c

General Use Sockets



Screws Up. Screws Down. Moulded black bakelite. Guiding groove for prongs. Long wiping contacts. Supplied with binding posts for connections. Screws can be reversed for sub-panel connections. Two mounting holes with 1 1/2" centers. Overall diameter, 1 1/2".

Stock Number	Na-ald Code	Prongs	Price Each	Ten For
3D6710	481X	4	12c	\$1.15
3D6711	486Y	5	12c	
3D6712	486Y	6	12c	
3D6713	487Z	7	12c	
3D6714	487A	7	12c	

(*) Medium base, .85" pin circle. (†) Small base, .75" pin circle.

Bakelite Sockets

Moulded black bakelite. Have guide for tube prongs. Tubes quickly and easily inserted. Perfect contact. Easy to mount above panel or below panel of any material and not over 3/8" inch thick. Mounting holes have 1 1/2" centers.

Stock Number	Prongs	Price Each	Ten For
3C6120	4	16c	\$1.50
3C6121	5	17c	1.60
3C6122	6	19c	1.80
3D6123*	5-6	22c	2.10
3D6124†	7-8	22c	2.10

*These are combination sockets.

Compact Sockets

Moulded bakelite socket for sub-panel mounting. Base consists of separate laminated bakelite plate which rests beneath sub-panel. 1 1/2" mtg. centers.

Stock Number	Prongs	Price Each	Ten For
3E6750	4	12c	\$1.15
3E6751	5	13c	1.25
3E6752	6	14c	1.32
3E6753	7 small	17c	1.62
3E6754	7 large	17c	1.64

Small Space Panel Mount Sockets

Moulded black bakelite. Holy fits 1 1/2" hole. Projects 3/8" above mounting surface and 3/8" below top of mounting surface. Solder lugs project through bottom fiber washer.

Stock Number	Na-ald Code	Contacts	Price Each	Ten For
3D6700	424	4		
3D6701	425	5		
3D6702	436	6	15c	\$1.40
3D6703*	437	7		
3D6704†	437A	7		

(*) Large base, .85" pin circle (†) Small base, .75" pin circle.

Tube Bases

Moulded, polished black bakelite. Standard size. Hollow brass prongs, polished nickel finish. Easy to solder leads on inside of prongs. Overall diam. 1 1/2". Cavity size—1 1/2" diam; 1 1/2" deep.

Stock Number	Prongs	Your Price
3E6088—4 prong		YOUR PRICE
3E6089—5 prong		YOUR PRICE
3E6090—6 prong		5c
3E8148—7 prong small		5c
3E8148—7 prong large		EACH

Analyzer Multiple Tube Sockets

With Moulded Ears



Excellent quality moulded sockets used in many factory built analyzers and tube checkers. Widely used to replace obsolete sockets having the same mounting dimensions. Saves space. Each socket has many different possible applications. Mounts above or below panel.

4 - 5 - 6	5 - 6 - 7
3D6730. Na-Ald 456; requires 1 1/2" panel hole. Mounting holes 1 1/2" centers. Receives all 4, 5 and 6 prong tubes. Filament circuits common—all other isolated—3 contacts.	3D6734. Na-Ald 567A. Receives all 5, 6 and small 7 prong (.75" pin circle) tubes. Has seven contacts. Requires 1 1/2" panel hole. Mounting holes 1 1/2" centers. Seven contacts.
3D6731. Na-Ald 456E; same as above but requires 1 3/8" panel hole. Mounting holes 1 1/2" centers.	3D6735. Na-Ald 567EA. Same as above but requires 1 3/8" panel hole. Mounting hole 1 1/2" centers.
47 - 59	7 - 7
3D6732. Na-Ald 457; Receives type 47, 5 prong pentode and type 59 7 prong pentode. Cathode of 59 is isolated from screen grid of 47. Has eight contacts. Requires 1 1/2" panel hole. Mounting centers 1 1/2".	3D6736. Na-Ald 477. Receives 7 prong large (.85" pin circle) and 7 prong small (.75" pin circle). Requires 1 1/2" panel hole. Mounting holes 1 1/2" centers. Has seven contacts.
3D6733. Na-Ald 457E. Same as above but requires 1 3/8" panel hole. Mounting holes 1 1/2" centers. List Price, 50c.	3D6737. Na-Ald 477E. Same as above but requires 1 3/8" panel hole. Mounting holes 1 1/2" centers.

YOUR PRICE, EACH 29c

Compact Sockets

Moulded black bakelite. Guiding groove for tube prongs. Tubes can be quickly inserted. Perfect contact on each prong. Center hole for screw mounting. 1 1/2 inch diameter fits inside standard tube base. 1 inch high. Solder lugs project downward for wiring below base.

Stock Number	Na-ald Code	Prongs	Price Each	Ten For
3D6705	424	4		
3D6706	425	5		
3D6707	426	6	15c	\$1.40
3D6708*	427	7		
3D6709†	427A	7		

(*) Medium base, .85" pin circle. (†) Small base, .75" pin circle.

Laboratory Sockets

With Plug-in Binding Post Jacks

Each terminal has convenient jack-top binding post for plug-in connections or binding wire under knurled nut. Handy solder terminals at each contact. Each contact has new standard R.M.A. numbering. Molded Bakelite.

Stock Number	Code	Prongs	Your Price
3E6745	484	4	29c
3E6746	485	5	29c
3E6747	486	6	29c
3E6748	487	7 large	29c
3E6749	487A	7 small	29c

EBY Isolantite Sockets

Isolantite is a moulded crushed quartz material of very high insulating qualities. It is especially effective at high frequencies. Positive contacts. Mounting holes have 1 1/2 inch centers.

Stock Number	Prongs	Price Each	Ten For
3D6125	4	25c	\$2.40
3D6126	5	27c	2.55
3D6127	6	30c	2.80
3D6128	7L	32c	3.00
3E6129	7S	32c	3.00

Hammarlund Isolantite Sockets

Lower leakage. Fits any standard coil forms or tubes. Mount any position. Mounting hole centers, 1 1/2 inches. Two 1/2 inch long, 1/4 inch diam. drilled bushings with fiber washers included.

Stock Number	Prongs	Your Price
3E7210—4 pin		35c
3E7211—5 pin		35c
3E7212—6 pin		35c
3E7213—7 pin large		35c

Analyzer Plugs and Adapters



Heavy Duty Rubber Handle Plugs

Handles are made of strong, durable, molded rubber. Pliable and unbreakable. Bakelite molded plugs are of exceptionally strong construction and are securely gripped by the rubber handle. Particularly designed for use with amplifiers and all sorts of public address equipment. Are shock-proof and will withstand all weather conditions. Long rubber handles strengthen the connection at its weakest point and permits "yanking" of the cord from the connecting socket without causing breakage or shorts. Made in two sizes. Short handle plug is 2 3/4" long and the long handle plug is 3 3/4" long measuring from the base and not including the prongs.

Male Plugs Long Handle

Stock Number	Number of Prongs	Your Price
3D7130	4	} 15c
3D7131	5	
3D7132	6	
3D7133	7 Small	
	7 Medium	

Female Plugs Long Handle

Stock Number	Number of Holes	Your Price
3D7138	4	} 21c
3D7139	5	
3D7140	6	
3D7141	7 Small	
3D7142	7 Medium	

Bakelite Cable Plugs

3F6165	—1 prong	} 21c
3E6166	—5 prong	
3E6167	—6 prong (small)	
3E6168	—7 prong (large)	
3E6169	—7 prong (small)	
3E6170	—8 prong	
3E6171	—8 prong (large)	
3E6172	—8 prong (small)	
3E6173	—8 prong (medium)	
3E6174	—8 prong (large)	

YOUR PRICE ... 32c

Strong and neat. Body 2 1/2 inches long. Base locks tightly into body but is easily removed.

Mike and Phono Adapters

3E6180	—5 Prong	} 54c
3E6181	—6 Prong	
3E6182	—7 Prong (small)	
3E6183	—7 Prong (large)	

YOUR PRICE ... Split cathode connections. When used in connection with a microphone they supply the necessary current for operation of the microphone. Used as a phonograph adapter by inserting under detector or 1st stage audio tube.

Wafer Adapters With Lug Taps

3C6145	—4 prong	} List Each 50c. YOUR PRICE
3C6146	—5 prong	
3C6147	—6 prong	
3C6148	—7 prong	

Two discs of bakelite riveted together. Holes punched for tube prongs. In each hole is a metal contact connected to a lug inserted between discs and is led to and projects from edge of adapters. Permits tapping into any circuit of tube for testing or obtaining current. Leads not used can be cut off.



Alden Latch-Lock Type

7 Prong Plug—8 Conductor Cable

Standard equipment on most current model analyzers. Moulded bakelite bodies. The plug has 7 prong (small) base with detachable handle having two grid connections at top. Equipped with special latch for locking adapters to plug. Latch is dead eliminating possibility of shock.

907 WLCAP Kit

The 907 WLCAP Kit is the latest development in an analyzer accessory. The special 8 prong cable plug and socket eliminate the necessity of making any additional connections. Use this kit in the construction of your own analyzer or for modernizing an old one.

3E8082—Kit consists of a 7 prong analyzer plug, 5 ft. 8 wire cable, 8 prong cable plug, 8 prong panel socket, 4 adapters. All parts assembled and wired. List Price, \$6.50. **YOUR PRICE ... \$3.82**

Molded Bakelite 8 Hole Socket

3E6755—With lugs as shown in above illustration. Same as large 7 prong (.85" circle) socket with 8th contact in center. **YOUR PRICE ... 21c**

8 Prong Cable Terminal Plug

For use with analyzers or on test bench. Seven contacts on circle and eighth contact in center. Moulded bakelite. **3E6174**—986S (prongs on .85" (large size) circle). List Price, 50c. **YOUR PRICE ... 29c**

Alden Analyzer Plug 906WL 6 Prong for 7 Conductor Cable

Plug equipped with special latch for locking adapters to plug. Detachable handle has two grid connections at top. Use this plug if most of your servicing is done on receivers using 6 prong tubes. No cable or adapters. **3E6072**—List, \$1.50. **YOUR PRICE ... 88c**

3E6073—With 5 ft. seven wire cable. No adapters. List Price, \$2.25. **YOUR PRICE ... \$1.32**

Associate Adapters

For 906WL—6 Prong Plugs

3E6074—965DS.—To fit plug to 5 hole sockets.

3E6075—964DS.—To fit plug to 4 hole sockets.

3E6076—967DS.—To fit plug to 7 hole (.85" large size) sockets.

3E6077—967DSA.—To fit plug to 7 hole (.75" small size) sockets. List Price, 75c. **YOUR PRICE ... 42c**

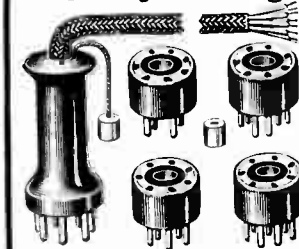
Analyzer Plug and Adapter Kits

Molded Bakelite Bodies

Consists of seven-prong (large) Bakelite analyzer plug with detachable threaded handle and four adapters to permit use of plug in 4, 5, 6, or small 7 prong radio receiver socket. Used for replacement of old adapter plugs in obsolete set analyzers and in assembly of new point to point or set analyzer test instruments.

With Unwired Adapters

3E8071—Plug and 4 unwired adapters (bodies 1 1/4" high). Consists of two sections bolted together, that can be separated and wiring changed if desired. Complete with screen grid connector. No cable included. List Price, \$2.35. **YOUR PRICE ... \$1.39**



With Wired Adapters

3D8070—Plug and 4 wired adapters (bodies 1 1/4" high) may be attached to plug with 3/8" screw. Complete with screen grid connector. No cable included. List, \$2.85. **YOUR PRICE ... \$1.69**

PRICES REDUCED!

Quotations on this Page are the Lowest Ever Offered on this quality Line!

Speaker and Analyzer Plugs

Finger Grip Type



Bakelite body and cap. Finger grip cap covers connections, and unscrews from body.

Male Plugs Without Cords

3C6059	—1 prong	} 15c
3C6060	—5 prong	
3C6061	—6 prong	
3D8030	—6 prong (Medium)	
3D8031	—7 prong (Small)	
3D8032	—7 prong (Medium)	
3D8033	—7 prong (Small)	

Male Plugs With 36" Cords

3C6062	—1 prong	} 73c
3C6063	—5 prong	
3C6064	—6 prong	
3D8032	—7 prong (Medium)	
3D8033	—7 prong (Small)	

Female Plugs Without Cords

3C6065	—For 4 prong plugs	} 24c
3C6066	—For 5 prong plugs	
3C6067	—For 6 prong plugs	
3D8024	—7 prong (Medium)	
3D8025	—7 prong (Small)	

Flat Speaker Plugs

3C6049	—3 prong	} 6c
3C6050	—4 prong	
3C6051	—5 prong	
3C6052	—6 prong	
3D8035	—7 prong (small)	

Take up minimum space. Bakelite body. Cable leads solder into hollow prongs.

3C6053	—4 prong	} 12c
3C6054	—5 prong	
3C6055	—6 prong	
3D8036	—7 prong (small)	
3D8037	—7 prong (large)	

Bakelite cap and base screw apart. Connections easily made by soldering in hollow prongs of base and are covered by cap.

Cable Connector Plugs

3C6110	—Four Hole	} 23c
3C6111	—Five Hole	
3C6112	—Six Hole	
3D8037	—Seven Hole (large)	
3E8038	—Seven Hole (small)	

Bakelite receptacle. Screw cap covers connections. Fits standard male plugs.

Speaker Cord Test Set

3C6144	—4 prong, 4 conductor	} 59c
3C6145	—5 prong, 5 conductor	
3E6143	—6 prong, 6 conductor	
3E6144	—7S prong, 7 conductor	
3E6145	—7S prong, 7 conductor	

Suitable for test sets, cord connections, connecting cords to sockets, temporary wiring-in of tubes, etc. Sturdy moulded bakelite shell, very roomy, making for easy connections. Standard socket and tube arrangement of holes and prongs.

Cable Connectors

3D6092	1 circuit	} 19c
3D6093	5 circuit	
3D6094	6 circuit	

Prices for two piece connector:

3D6092	1 circuit	} \$1.75
3D6093	5 circuit	
3D6094	6 circuit	

New Tube Adapters

Composite Adapter 9C7

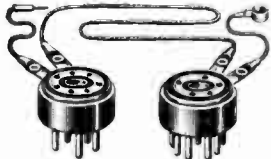


Top receives all 4, 5 and 6 prong tubes. Bottom is large size 7 prong. For reworking small space analyzers like the Jewell No. 199 and Supreme Diagnostics. Use a combination large and small 7 prong socket in analyzer panel and then with this adapter you will be able to test all types of tubes in one socket.

3E8040—List, 60c. **YOUR PRICE** **35¢**

Alden 975DW Adapters

For Testing Type '59 Tube in Type 24 Analyzer Sockets



Enables any analyzer which can test type '24 tube circuits to test 7 prong tube circuits. Twin adapters connected with 60" cord. One adapter has five hole top and 7 prong base ('59 type—85" pin circle), other adapter has 7 hole top ('59 type—85" circle) and 5 prong base. List, \$2.40. **3E6035**—Your Price **\$1.41**

Alden 975DS Adapters

Same as 975 DW Adapters except for use with analyzer plugs having latch fastener. List, \$2.40. **3E6034**—Your Price **\$1.41**

For Testing Type '33, '46, '47 PZ Tubes in 4 prong sockets



Test '46-'47 and PZ in 245 socket. Test '33 in 226 socket. Current for extra grid is supplied from plate prong. Grid, plate and heater connections through.

3C6000—Alden 954KPC—Jewell J11385. List \$1.00. **YOUR PRICE** **59¢**

For Testing Type '33, '46, '47, PZ Tubes in 5 prong—227 UY socket

5 Hole Top—5 Prong Base
Cathode prong dead. Plate prong supplies current for extra grid.

3C6001—Alden 975; Weston No. D-19625. List \$1.00. **YOUR PRICE** **59¢**

419X UX199 to UV201A

Adapts UX199 tubes to UV 201A sockets. Adds to diameter of 954DS adapter, providing a bayonet pin to connect to old UV sockets.

3C6025—List 35c. **YOUR PRICE** **19¢**

UY to UX

Fits five prong tube into four hole socket. Cathode hole connected to filament pin prong.

3C6023—Alden 954. List, 65c. **YOUR PRICE** **38¢**

Universal Output Meter Adapter

Contacts plate prong of 4, 5, 6 or 7 prong tubes. Insulated for use in new shielded sockets. 5 foot lead with cord tip. **3D8021**—NA-Ald 9 Pl. List Price 35c. **YOUR PRICE** **21¢**

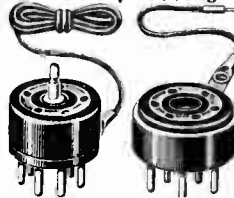
Small 7 Pin Tube Adapter



Tests 2A7 and 2B7 in 24 checker socket and 2A7, 6H7, 6C7, 6D7, 6I7 and 6F7 in 36 checker socket. List, 60c. **3E8041**—Alden 975AB7 **YOUR PRICE** **35¢**

Twin Adapter

For Testing Six Prong '57 and '58 Tubes in Set Analyzers Also tests '29-'41-'42-'55-'57-'58-'69-'85-'89-PA-PZH-Wunderlich-6 prong power tubes. **One 5 Hole Top—6 Prong Base One 6 Hole Top—5 Prong Base**



For analyzing 6 prong tube circuits with any 5 prong test plug. Designed for older style Analyzer plugs which do not have the latch lock. 5 ft. insulated wire connects suppression grid circuit.

3E6013—Alden 965DW; Jewell-Weston. D701H1. List, \$1.90. **YOUR PRICE** **\$1.12**

For Testing 7 Prong Tubes in Set Analyzers

To be used with Alden 906 Latch lock Analyzer Plug. Adapter with center stud goes on Analyzer Plug and fits into seven prong socket of sets. Adapter with seven hole top is connected by lead to suppressor grid contact and fits into six hole socket of analyzer. List, \$1.90. **3E6014**—Alden 967GL-976CG. **YOUR PRICE** **\$1.12**

Type '57-'58 Test Adapter

6 Hole Top—5 Prong Base
For testing '57 and '58 tubes in set analyzers having a five prong type '24 receptacle. The suppressor and cathode are connected together and brought down to the cathode prong. All other contacts are connected straight through. **3C6012**—Alden 965KS; Jewell 57; Weston D70157. List Price 65c. **YOUR PRICE** **38¢**

For Testing '41-'42 PA-PZH in Tube Testers

6 Hole Top 5 Prong Base
The control grid terminal of the top socket is connected to a cap on the side of this adapter. All other connections through. **3C6009**—Alden 965CG—Jewell D-70142. List, 75c. **YOUR PRICE** **44¢**

7 to 7

3D8007—N-A-Ald 977MS
Prongs fit small (.75" pin circle) 7 prong socket. top socket takes large (.85" pin circle) 7 prong. **3E8042**—N-A-Ald 977SM.
Prong fits large (.85" pin circle) 7 prong socket. top socket takes small (.75" pin circle) 7 prong. List Price 60c. **YOUR PRICE** **29¢**

For Testing '82-'83 Mercury Rectifiers

Fits all type Tube Testers. Switch gives readings for each plate. Internal resistance for limiting plate current. **3D6006**—Alden No. 982; Jewell No. 82; Weston No. D-70182. List \$3.00. **YOUR PRICE** **\$1.35**

Multi-Adapter Type 950XYLA

Enables Your Tube Checker to test over 80 New Tubes

3D8001—NA-ALD 950XYLA Universal Tube Checking Adapter. List Price \$5.00. **YOUR PRICE** **\$2.94**



This new No. 950XYLA Universal Tube Checking Adapter enables any standard A.C. tube checker to test the following tubes: 1, 1A6, 1C6, 1V, 2A3, 2A5, 2A6, 2A7, 2B7, 6A1, 6A7, 6B7, 6C6, 6D6, 6F7, 5Z3, 14, 15, 18, 19, 29, 33, 36, 37, 38, 39, 41, 42, 43, 44, 46, 47, 48, 49, 52, 55 diodes, 55 triodes, 76, 77, 78, 79, 80, 80M, 59, 61, 65, 67, 68, 69, 70, 75 diodes, 75 triode, 77, 78, 79, 80, 80M, 293, 295, 985, 986, AD, AE, AF, AG, C2, C4, ERI, G2, G1, G4, HZ-50, KR-1, KR-5, KR-20, KR-22, KR-25, KR-28, LA, PA, PZ, PZH, T-1 Wunderlich 'A' and Auto Tubes.

If your tube checker has no filament voltage control switch, the 954 SCL adapter must be used on the base of the 950XYLA.

3D8002—NA-ALD 954SCL UY top UX bottom. Has grid lead. List Price 75c. **YOUR PRICE** **44¢**

No lead—no wires—no jacks and only one toggle switch for all tests. Has the proper resistance network to protect all tubes and meters. Complete self-contained unit with simple directions for use on underside.

Na-Ald Multi-Adapter Type 950 TR

For use in checking tubes of higher voltage than your present tube checker will supply. To test tubes having filament voltage requirements of 10, 12, 6, 14, 15, 25 and 30 volts, such as types 12Z3, 2Z5, 43, 48, etc., insert Na-Ald Multi-Adapter 950 TR in the position in your A.C. tube tester where '24 type tubes are normally tested. A self-contained transformer in the 950 TR steps-up the filament voltage to the value you select. Selector switch in the 950 TR controls voltage selection. Diagrams and directions supplied. **3D8000**—List, \$5.00. **YOUR PRICE** **\$2.94**



Tube Adapter Forms

Make any style tube or test adapter



Moulded bakelite socket top. Moulded base with hollow prongs. The two sections are neatly and securely held together with center screw. Any desired connections from top to base can be easily made. Insulated or bare leads can be brought through prongs from top and when top and bottom are assembled, slack in leads is pulled up. Leads so arranged are soldered and extra length cut off. A job equal to factory production is thus easily produced at great savings in cost. 3/4 inch hole in side of base permits taps from any circuit to be brought out. Body size: diameter, 1 3/4"; height, 1 1/4"

Stock Number	Bottom	Top	Stock Number	Bottom	Top
3E8050	4 prong	4 hole	3E8079	6 prong	4 hole
3E8052	4 prong	5 hole	3E8054	6 prong	5 hole
3E8057	4 prong	6 hole	3E8055	6 prong	6 hole
3E8077	4 prong	7 small	3E8066	6 prong	7 small
3E8078	4 prong	7 large	3E8063	6 prong	7 large
3E8051	5 prong	4 hole	3E8080	7 small	4 hole
3E8053	5 prong	5 hole	3E8056	7 small	5 hole
3E8058	5 prong	6 hole	3E8061	7 small	6 hole
3E8065	5 prong	7 small	3E8081	7 small	7 small
3E8062	5 prong	7 large	3E8064	7 small	7 large

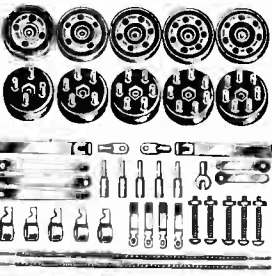
YOUR PRICE, EACH **22¢** | **YOUR PRICE, EACH** **23¢**

TEN FOR. \$1.75 | TEN FOR. \$1.85

Note: Price includes top and bottom and screw for assembling.

Make Your Own ADAPTER KIT

3D8076
List Price \$2.00
YOUR PRICE **\$1.18**



Contains: Five base sections, one each, 4, 5, 6, 7 and 7 small, prongs. Five socket sections, one each, 4, 5, 6, 7 and 7 small, contact. Five assembly screws. One Dozen assorted extension solder and connection terminals. Two phone tip connectors. Five phone tip terminals. Five control grid caps. With this outfit you can make 25 different assembly combinations. There are hundreds of possible wiring combinations.

Listening-In Adapters

3C6044—Alden 944PT. For UX 4 prong tubes. **3C6045**—Alden 9551PT. For 5 prong tubes. **3C6046**—Alden 9661PT. For 6 prong tubes. List Price 75c. **YOUR PRICE** **44¢**

For listening in on detector or audio frequency stages. Plate circuit is broken and leads are brought to cord tip terminals.

Balancing Adapters

3C6042—Alden 944OP for UX 4 prong tubes. **3C6043**—Alden 955GP for UX 5 prong tubes. List, 90c. **YOUR PRICE** **53¢**

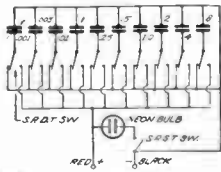
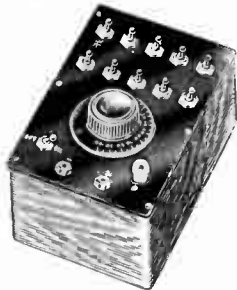
For listening in on R. F. stages. Breaks grid circuit so grid leak and condenser can be inserted. Makes a detector of any R. F. stage. Enables you to properly balance any stage.

Radolek Condenser Box

0.0001 to Over 15 Mfd!

A device for quickly substituting capacity values in a circuit suspected of having an open condenser.

Contains a calibrated straight line variable condenser of 0.001 Mfd. maximum capacity and the following non-polarized 450 volt condensers: 0.005; 0.01; 0.25; 0.5; 1; Mfd. These electrolytic filter condensers rated for 450 volt circuits: 2, 4, and 8 Mfd. respectively. Any of these capacities may be combined in parallel to secure a net value, the sum of the individual capacities. Each condenser is controlled by a SPDT toggle switch. This switch automatically discharges its individual condenser when in use. Switches are plainly marked and thoroughly insulated. **NEON POLARITY INDICATOR!** May be switched across the test circuit to indicate polarity of circuit or presence of alternating current. Case is of genuine walnut with interlocking joints assuring rigidity. Size 3 1/2" x 8 1/2" x 4 1/2" deep. Supplied with pair of 2 1/2' test cords with banana spring tip prongs and alligator spring clips. This is the best value on the market in a Condenser Test Box.



3E5898—Complete.

\$6.95

YOUR SPECIAL PRICE...

Meter Repair Service



BEFORE

Guaranteed Precision Meter Repair Service for burned out or mechanically damaged meters. Erratic movements corrected. Any make, any range of A.C. or D.C. movement may be repaired in our special Instrument Laboratory. Typical rates given below, on special sizes send meter for quote. Send Prepaid. No return Collect.



AFTER

1. Burned out or open armatures of standard 301 type 3/4" meters, including polishing of jewels, position correction, three point calibration. **YOUR COST \$3.75**

2. Repair of Sluggish or Erratic movement of A.C. or D.C. meter where armature is not burned or shorted, including cleaning and calibration. **YOUR COST \$2.95**

3. Replacement of cracked or broken Glass in addition to any of the other services, add to cost of other services. **90¢**

4. Checking and calibration of any A.C. or D.C. instruments rated by the manufacturer between 1% and 2%, with retouching of case or buffing of bakelite. Individual report with certification of calibration supplied. **YOUR COST \$2.45**

BULLE Electro-Magnetic Clock Movement

Universal Adaptability of Bulle Movements



These movements are particularly desirable in localities where 110 volt, 60 cycle, current is not available. Not depending on any outside source of supply for power, they are especially useful in localities where electric service is suffering frequent interruptions. Many electric clocks that plug into A.C. Lines become noisy and faulty in operation after only a few months use. The Bulle movement will run continuously for years without any attention.

Installation

Can be used to convert spring wound or unsatisfactory A.C. electric clocks into accurate and dependable time pieces. Will fit into a 5/8" hole and extends less than 2 1/2" back of panel. Equipped with 8" insulated leads with universal mounting and connection brackets for batteries.

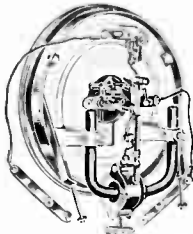
Appearance and Construction

A 6" attractively finished dial is enclosed in a beautiful bevelled front outer case. The minute and hour hands are gracefully designed and can be reset from the front. The bevelled edge frame houses a convex crystal lens and is fitted with hinges for opening. Brackets and screws for mounting movement are included.

Unlike other electric clocks, this modern invention does not depend upon synchronized current for its accuracy. It provides electric time with all its advantages in accuracy and convenience for all localities—and at low cost.

No Winding—No Care

The Bulle Electric Clock is operated by an ingenious mechanism which at once commands admiration for its simplicity, and surprise at its rigid strength. More than 85% of the electrical energy needed for its operation is actually generated by its own Electro-Magnetic Motor. Less than 1 1/2" of additional energy is drawn from a small single cell 1 1/2 volt flashlight battery which is conveniently concealed in the clock. The total current consumption of the movement is only 1.2 watts per year. No winding. No outside wires or connections. Power is self-contained.



4D10496 — Movement only complete with 1 1/2 volt battery.

YOUR PRICE \$1.95

Accurate—Noiseless

Accuracy is insured in every Bulle movement. Very easily adjusted. Weight on pendulum of clock is adjustable and can be raised or lowered merely by a turn of the hand. Once it is properly set it will remain constant for years. Because friction is practically eliminated in these movements no lubrication is needed and movement will always remain noiseless. Starts itself when battery is attached and restarts itself immediately after being stopped by accident or design, so long as it remains in an upright position. Will run continuously for years without attention.

Tube Adapters

For Substituting New Type Tubes in Place of Older Types

Use 2A5 in place of 45 or 47
Use 47 in place of 45, 71A or 12A

For Replacing 245 with 47 Single or Push Pull

3C6029—List Price \$1.00.
Your Price, Each **37¢**

Ten for **\$3.55**
5 hole, 4 prong adapter. Current for screen is brought from plate. Has iron core choke between plate and screen terminal of 247 tube.

For Replacing Single 171A with 47

3C6030—Code 954 KPH—List \$1.25.
Your Price, Each **65¢**

Ten for **\$5.90**
5 hole, 4 prong adapter. Screen hole connected to plate prong. Other connections through except filament which has resistance in series for reducing voltage from 5V to 2 1/2 V for 247 tubes.

For Replacing Push Pull 171A with 47



3C6031—Code 954PS. List Price for Twin Set, \$1.20.
YOUR PRICE **70¢**

Filaments of 247 are connected in series by means of 12 inch flexible cord between adapters. Screen holes connected to plate prongs; other connections through.

For Replacing 224's and 35's with '57 or '58

3C6010—Code 965-58. List Price 50¢.
YOUR PRICE **30¢**

For using a '57 type tube in place of a '24 type tube and '58 type tube in place of a '35 or 551 tube has a six prong receptacle connected to a five prong plug. The suppressor and cathode are connected together and brought down to the cathode prong. All of the other contacts are connected straight through the adapter.

Adapters for Replacing Kellogg

Overhead Heater Type Tubes
401 with 485's
401 with 50's



To Replace 401 with 485
3E6131—Na-Aid 954IK27. List. 90¢.
YOUR PRICE **53¢**

To Replace 401 with 56
3E6132—Na-Aid 954-401. List. 90¢.
YOUR PRICE **53¢**

Benjamin Sub-Panel Mounting Shock-Proof Sockets

3E6726—4 Prong Only.
YOUR PRICE **5¢**
Ten for 35¢



Increase Volume and Tone Of Midget Radio Receivers

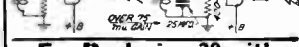


Replace Single type 47 tubes with 2A5 high Mu Pentodes. Over 75 Mu additional gain. Here is an item that is easy to carry and not only can it be demonstrated quickly but, it sells an extra tube for you every time you make a good demonstration.

Adapter has a six hole top for type 2A5 tubes and a five prong base fits socket of 47 tube. A filament center-tapped resistance connects the 2A5 cathode to the bias circuit of the 47 tube.

For best results the grid bias resistor of the 47 is changed to 400 ohms for the 2A5. Connect a 25 Mfd. 25 V Electrolytic Condenser between the chassis and the center tap of the resistor on the adapter, the rich deep tone you will then be able to hear will be a revelation in midget quality. Wiring diagram shows "before" and "after" appearance of circuit.

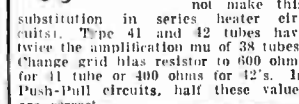
3E6015—YOUR PRICE **45¢**



For Replacing 38 with 41 or 42

3E6016—965G1.
YOUR PRICE **44¢**

Double the gain of 6 volt receivers using 38 type tubes. (Do not make this substitution in series heater circuit.) Type 41 and 42 tubes have twice the amplification mu of 38 tubes. Change grid bias resistor to 600 ohms for 41 tube or 400 ohms for 42's. In Push-Pull circuits, half these values are correct.



For Replacing G2, G4, With 55

A six hole, five prong adapter with heater and cathode circuits common, but with diode plates of the 55 connected to the plate prongs of the G-2, G-4 adapter. The triode portion of the 55 is not connected. When replacing G-28 or G-48 tubes employ Goat shields or tie the top grid of the 55 to ground and in case of oscillation, wrap tube in metal foil which should be grounded.

3E6017—55-G2 adapter.
YOUR PRICE **39¢**

For Replacing 45 Tube With New 2A5

For using new 6-prong 2A5 Pentode Power Tube in place of 45. Requires special resistance for 'C' bias as Allen Type. 964KSPR.
3E8043—

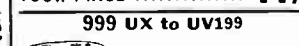
List, 75¢.
YOUR PRICE **44¢**

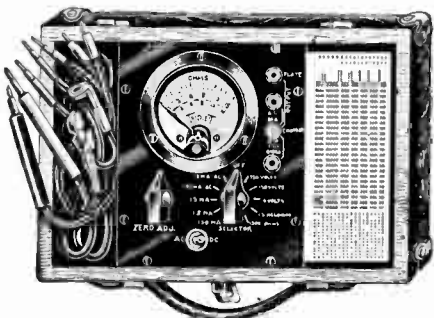
999 UX to UV199

Adapts 1X 4 prong tubes to UV-199 socket.
3C6027—List, 75¢.
YOUR PRICE **44¢**

421X UX to WD11

Adapts 1X tube to WD11 socket. Suited for Itala, 4 and 3-A and dry cell sets.
3C6028—List, 75¢.
YOUR PRICE **44¢**





Triplett Model 1125
With output adapter, test leads, batteries, etc. Complete
operating instructions.
#E2577—List Price, \$30.00.
YOUR PRICE **\$19⁶⁰**

Universal **TRIPLETT** A.C.-D.C.

MODEL 1125 VOLT—OHM—MILLIAMMETER

A Modern Portable Test Instrument

The Triplett Model 1125 Universal testing meter consists of a sensitive microammeter mounted in the panel of a convenient carrying case with a switching arrangement to secure different ranges on the meter. The range selector switch is a 12 point positive action rotary type. A toggle switch shifts the meter from D.C. to A.C. ranges. This arrangement permits the use of only 4 pin jacks for external connections.

Quadruple Scale Meter

The lower scale, printed in red, for A.C. has 75 divisions marked 0-15. The middle scale is likewise divided with the characters printed in black. The upper scale is graduated from right to left with 15 major calibrations in ohms. The last two ciphers of each are printed in red, giving the effect of two scales of ohm values. The selector knob positions indicates the interpretation of the meter scales.

14 Different Measuring Ranges

Maximum scale readings of A.C. Volts: 750, 150, 15. Maximum scale readings of D.C. Volts: 750, 150, 15. D.C. Milliamperes, 150, 15, 1.5. A.C. Mills, 150, 15. Three resistance ranges, 0 to 1500 ohms, 0 to 1.5 megohms, 0 to 3 megohms. (A zero adjustment for the ohmmeter is provided on the panel.)

Every Radio Measurement Possible

In addition to the fundamental ranges listed above, the A.C. volt ranges may be used for output measurements. A special circuit (see diagram on the adjacent page) permits accurate capacity measurements.

The size of the Model 1125 case is 11 1/2" x 7 1/2" x 4 1/2". Shipping weight 11 lbs. The cover is removable.

Your cost is less than the meter and resistors alone would cost!

TRIPLETT ALL WAVE OSCILLATOR

For Modern All Wave Service

The New Triplett No. 1151 Hand Calibrated All-Wave oscillator meets the latest requirements of radio service. Four Wave Bands. Ranges available through the four point selector switch.—A-110 to 500 K.C.; B-500 to 3,500 K.C.; C-2,000 to 6,000 K.C.; D-6,000 to 18,000 K.C. (Uses fundamentals and 2nd and 3rd harmonics.) Smooth exact adjustment between each frequency limit. With this new Triplett oscillator you can accurately align and test the latest model receivers and all early model radios.

Uses "Dummy Antenna" Output

The pin jacks marked Min. and Gnd. when connected to a receiver have the characteristics of a broadcast receiver antenna circuit. Type 30 tube used as oscillator. Three 1 1/2 volt flashlight cells light the tube and a standard 22 1/2 Volt Midgett "C" battery supplies the plate potential. The batteries are under the calibration chart.

Modulated or Unmodulated Signals

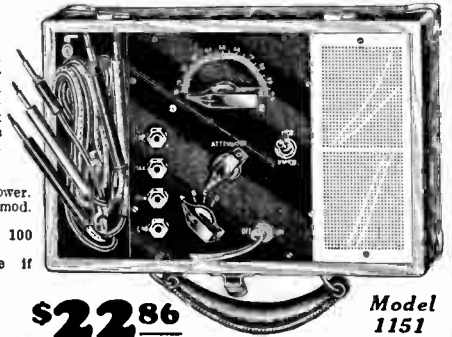
You can make the signals from the Triplett Oscillator audible in the output of the radio under test or cause a high frequency wave to beat against an incoming signal to produce the familiar "canary whistle" beat note. Size 11 1/2" x 7 1/2" x 4 1/2". Weight 15 lbs. With Calibration Graph and Attenuator. Complete with Batteries.

Simplified Control Panel

- 1—Positive action, Four-range Switch.
- 2—Complete Attenuation Control; 0 to full power.
- 3—Modulation control Switch for Mod. or Unmod. Signals.
- 4—Easily read Dial with bar-knob pointer; 100 divisions.
- 5—Safety Battery Switch—Lid will not close if switch is on.

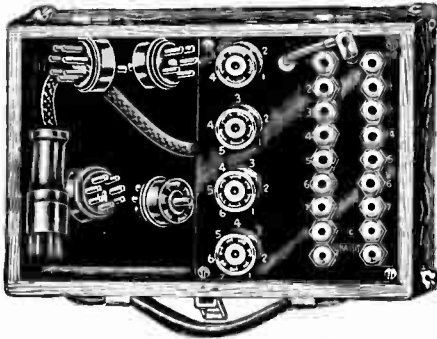
Triplett New All Wave Oscillator Model 1151

#E2578—List. \$35.00.
YOUR PRICE



\$22⁸⁶

Model 1151



Triplett Auxiliary Set Tester Model 1166

Complete with seven prong plug cable. Four adapter plugs, and directions. Neat oak case matches above instruments.
#E2579—List Price, \$16.00 with Case.

YOUR PRICE **\$10⁴⁵**

#E2581—Less Case. **\$8⁴⁹**
YOUR PRICE

TRIPLETT Auxiliary Set Tester Combines Point to Point With Set Analysis

For Point To Point Testing

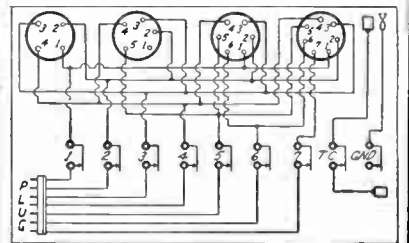
Extreme Flexibility For Service Analysis. All the circuits which connect to the prongs of any type tube in any type radio may be reached through the handy pin jacks. The row of red jacks automatically open the circuit when a pin type plug is inserted. Upon placing another plug in the adjacent black pin jack, current measurements can be made in series with any circuit, to any tube element. Using the black pin jacks, voltage and resistance tests may be made between any portions of the circuit. Examination of the diagram will disclose a large number of additional features which will facilitate the use of this equipment in analyzing the exact point of trouble in a receiver.

For Standard Analysis

The "old timer" in the service business accustomed to conventional analytical methods of service will find the Triplett 1166 his most useful accessory. By connecting a milliammeter in series with the plate circuit and opening the grid circuit for insertion of a "C" battery, a change in plate current will be observed. This is a dependable method of checking tubes under operating conditions as the change in plate current will indicate the mutual conductance of the tube.

Chart of Tube Prong Circuits

A simplified chart of Tube Prong Circuits plus the complete chart of all modern tubes published in the Radolec 1934 Catalog will permit accurate analysis of any receiving tube circuit. Careful study of the accompanying diagram of the internal wiring circuit of the 1166 Triplett Auxiliary Tester will disclose many applications of this excellent unit. Voltages from any tube element to ground may be quickly obtained, with the 1166. All instructions included. Size of the case, 11 1/2" x 7 1/2" x 4 1/2". Shpg. Wt. 7 lbs.



Circuit Diagram Model 1166

Triplett 3 1/2 Inch Universal A. C.-D. C. Meter



Copper-Oxide Type
Accuracy within 2% on D.C.—5% on A.C. Scale matches the Standard Scale supplied on the Triplett Models 1125, 1180, 1181. Meter movement requires 1 milliamperes for full scale deflection. Primarily designed as a Universal Foundation Meter, supplied with 50 ohms internal resistance. (50 millivolt drop). No multiplier shunts or resistors included. Scale marking as follows: Lower scale, 0-15 with 75 divisions for the 15, 150, 750, volt A.C. range. Same scale is used for A.C. Mills. Middle scale, same markings for D.C. range. Top ohm scale 0-1500 ohms.

Triplett Universal Meter #E2580—List. \$15.00.

YOUR PRICE **\$9⁰⁰**

The copper oxide rectifier unit is housed with the proper compensating shunt for the 0-1 milliammeter in a separate case suitable for panel mounting. A DPDT toggle switch is included in the assembly for quickly changing the circuit from A.C. to D.C. Air dumped movement. Jewelled sapphire bearings. Chrome steel magnets.

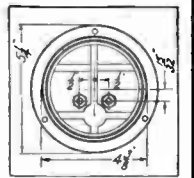
75 Division Scale

A.C. scale reads 0 to 15 in red. D.C. scale reads 0 to 15 in black. The ohm scale has the significant figures in black and the last two ciphers in red to facilitate reading on either ohm scale. Calculate all multiplier resistors at 1000 ohms per volt, allowing 5000 ohms for internal resistance of the A.C. range and 50 ohms for the internal resistance of the D.C. range. Meter mounts in 2 3/4" hole clearance back panel.



Triplett 5 1/4" Giant Meters

Giant Panel Test Instruments Flush Mounting in 4 3/8" hole require 2 3/4" to 3" clearance Knife Edge Pointers. Mirror back scales. All ranges available. Most popular sizes are listed below. A.C. models employ repulsion type movable iron vane action. D.C. models use standard Arsonval jewelled bearing movements with chrome steel permanent magnets.



Special Scale #E2588—For #E2585

and #E2586 only. Has same markings as universal meter. **YOUR PRICE** **\$1.00**

Model 521 D. C.

Stock Number	Range	Resist. in ohms	Your Price
#E2585	1 M.A.	33	\$ 9.80
#E2586	C. 5 M.A.	156	11.11
#E2587	0.2 M.A.	185	12.42
#E2588	10 Amp.	.005	9.15
#E2589	300 Volts	.3 meg.	12.08

Model 531 A. C.

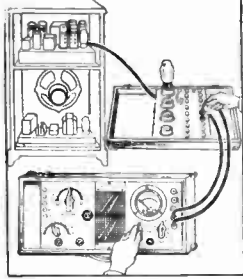
Stock Number	Range	Resist. in ohms	Your Price
#E2591	10 M.A.	1950	\$ 9.80
#E2592	250 M.A.	1.2	9.15
#E2593	3 Amps.	.02	9.15
#E2594	10 Volts	160	9.15
#E2595	150 Volts	151,500	10.45

MODEL TRIPLET 1181

Combines 3 Great Testing Systems

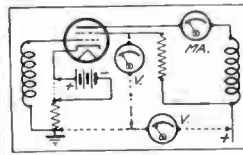
Point-to-Point, Standard Analysis, and Overall Performance with One Triplet All-Purpose Instrument
 Here is the Secret of Successful Servicemen! Here is how the 'oldtimers' in radio fix sets that defy the best efforts of beginners. The best features of the above three great general systems of servicing are combined. Triplet has perfected the one complete instrument which handles all three systems successfully.

Experienced servicemen with that fine instinct developed by conscientious workmanship, can usually tell from the customers' complaint which method to use first. You also can equal their work! With the assistance of a modern up-to-date instrument designed to service both long and short wave receivers, you can do better and more satisfactory radio service than the most skillful 'oldtimer' putting away with obsolete equipment.



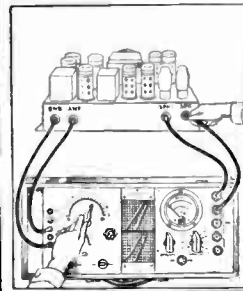
Point-to-Point

Use point-to-point testing when the signals are mushy or distorted; when hum distortion is present or when the standard analysis discloses wrong voltages. In this system the Auxiliary Set Tester plays the most important part, permitting the receiver to be left in its cabinet while the circuit of each tube is brought down to the test panel of the auxiliary tester. Here, conveniently and quickly, you may use the ohmmeter or capacity measuring portion of the Universal Volt-Ohm-Output-Milliammeter to identify the defective portion within the chassis. A temporary repair can usually be made until the exact part may be duplicated.



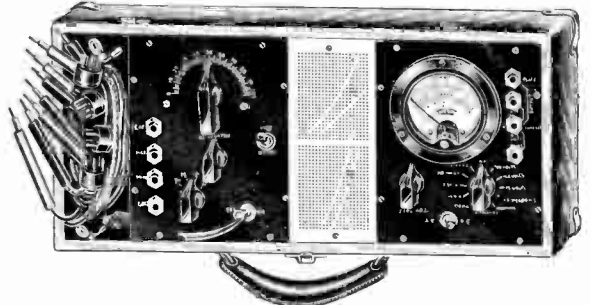
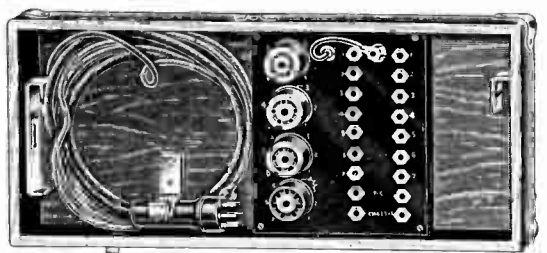
Standard Analysis

The old favorite method which is still used extensively by smart servicemen who know when to best apply it effectively. This is usually the fastest method of arriving at the cause of trouble when there is no signal audible through the radio. Inserting the plug of the Auxiliary Tester, first in the rectifier tube socket and successively in the audio sockets, detector, I. F. and B. F. stages, will permit you to make current and voltage measurements at the same time testing the tubes by connecting a "C" battery in the cathode or grid lead to give a mutual conductance test. Wrong voltages or absence of voltage indicates that you should change to Point-to-Point testing.



Overall Performance

The one sure system of locating the cause of intermittent reception. Also used for overall performance tests when replacing tubes and for alignment of trimmer condensers. The stability of the All-Wave Oscillator and the accurate indications of the A.C. meter used as an output indicator through the Auxiliary tester make overall performance testing interesting and easy.



Triplet Perpetual All-Wave Tester 1181

Combines the Auxiliary tester and all associated plugs, adapters, test leads and instructions with the Universal Volt-Ohm-Output-Milliammeter supplied with a special scale on a separate chart to permit capacity measurements, and the new All Wave Oscillator, 110 to 18,000 KC. (2727 meters to 16.5 meters). Complete in quarter-sawed oak (16 3/4" x 7 1/2" x 5 1/2") carrying case with batteries, oscillator tube.

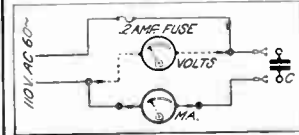
IE2575—Model 1481. Lis. Price. \$57.00.

YOUR PRICE

\$37.24

Capacity Tests

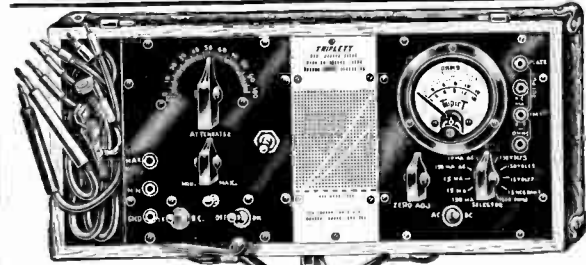
Capacity measurements of paper dielectric condensers can be made with the A.C. Milliammeter of the Perpetual Tester, employing the electric lighting circuit as the source of A.C. The range of capacity on 115 V 60 cycle is 0.0025 to 3.5 MCL. Diagram below.



Four Range Oscillator

16.5 to 2727 Meters

Be Up-to-Date with this latest all wave oscillator! Radolek is the first to offer this superior equipment. Hand calibrated tuning chart with four colored frequency curves making exact selection of desired signal very simple. Oscillator is adjusted to cover entire range with fundamentals and 1st and 2nd harmonics of fundamental frequencies. An additional feature of the new oscillator is the output circuit which is coupled through a fixed capacity, which prevents danger of short circuit.



Triplet All-Wave Oscillator—Volt Ohm Milliammeter

For Overall Performance and General Testing

Model 1180

Offered in one unit—the two most essential instruments for radio service. Universal All Wave Oscillator with self contained power supply, and the Triplet Multi-range A.C.-D.C. Volt, Ohm, Milliammeter. All in portable form. Ready for bench or home radio service. This unit is particularly suited for the serviceman who has a selective circuit analyzer.

Oscillator Ranges

Range A: 110 to 500 K.C. Range B: 540 to 3500 K.C. Range C: 2000 to 6000 K.C. Range D: 6000 to 18,000. Fundamentals and 2nd and 3rd harmonics are used to cover this extensive frequency spread. All signals may be modulated at approximately 300 cycles for tests employing a standard output meter. Unmodulated signals may be employed for beat-frequency calibration of receivers.

Measures all voltages encountered in modern radio receivers, 0-15-150-750 volts A.C. or D.C. at 1000 ohms per volt. Measures all plate currents, 0-1.5, 15, 150, M. A. D. C. Two A.C. Milliammeter ranges for capacity and power output tests, 0-15-150 M.A. Resistance ranges, 0-1500 ohms. 0-1.5-3 megohms. A.C. volt scales may be employed for output indications. Supplied in oak case, 11 1/4" x 7 1/2" x 4 1/2". With slith hinged cover.

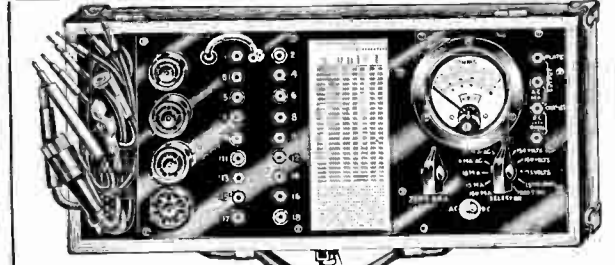
The Best Value Service Equipment

IE2644—Model 1180 in Oak case. Complete with Test Leads. List, \$45.00.

YOUR PRICE **\$29.40**

IE2642—Model 1177 in Leatherette case with dual frequency oscillator covering 110 to 1500 K.C. List, \$36.00.

YOUR PRICE **\$23.52**



Triplet Universal Selective Analyzer

For Point-To-Point and Standard Analysis

Multi-Range Volt-Ohm-Milliammeter

Model 1167

Excellent for the service shop equipped with a good oscillator. This is the modern type of equipment for "hot" or "red" chassis testing, employing all the good dependable features of the old type analyzer plus the modern point-to-point resistance style of locating trouble. The Selective Analyzer portion contains four sockets for all standard base tubes; 18 pin-jacks, and a modern shock proof locking type analyzer plug with adapters to fit all standard radio sockets. Extra wires adjacent to the cable are for ground and top grid circuits. Voltage tests are made through the black pin-jacks. Inserting the tip jack in the red pin-jack opens the particular circuit to permit current measurements.

Employs the Triplet Universal meter. Three A.C.-D.C. voltage ranges are provided, 0-15-150-750 at 1000 ohms per volt. Three D.C. milliammeter ranges are available for all current tests in plate circuits and powerjack circuits, of 0-1.5, 15, 150 M.A. Two A.C. Milliammeter ranges are employed in capacity and inductance measurement, 0-15-150 M.A.

One low ohm scale, 0-1500 ohms, and two megohm scales, 0-1.5-3, megohms. Ohmmeter batteries are enclosed. A zero adjust compensates for battery deterioration. A selector switch prevents possibility of damage to meter.

IE2576—Model 1167. Complete with test leads, batteries, and all instructions.

YOUR PRICE

\$24.50



Readrite SET TESTERS

Models 710 and 712

Simply turn the selector switch—each position is recorded on the handy chart on the panel—and read directly on the meter the exact condition of every part of the circuits. Check the continuity and resistance of the A.V.C., diode resistance coupling, phase shifting, automatic noise suppression, automatic tone control, I.F. detector, oscillator, A.P. filter and similar circuits. In the same check filter, bypass and coupling condensers for shorts and opens, soldered joints for resistance, hook-up wires, bias resistance and bleeder resistances for shorts and opens. Check the power transformer, primary and secondary for balance. Check the line voltage. With the use of the receiving set wiring diagram the serviceman can easily and quickly locate every kind of trouble without removing the chassis from the cabinet. Has self-contained battery for continuity testing of transformers, chokes, etc. Capacity and resistance charts are furnished for use in testing condensers and measuring resistances up to 100,000 ohms. The 9 scale readings of the meters may be used separately with the jack terminals provided. Scale readings are 0-20-50-300-600 D.C. volts; 0-10-150-700 A.C. volts and 0-15-150 milliamperes. D.C. voltmeter resistance 300 ohms per volt. Has new small sized plug with latch for the four adapters (furnished for accommodating all 4, 5, 6 and 7 prong sockets now in use. Substantial leatherette covered case size 10 1/2"x13 1/2"x8 inches. Removable cover.

Has Sockets for every 4, 5, 6 and 7 prong tubes. Makes all voltage, current, capacity and continuity tests required for any set and for the tubes in the set, regardless of current used—whether A.C. or any type battery current.

READRITE Model 710. As described above with standard Readrite Meters. All meters accuracy guaranteed within 5%. Complete with Test Leads, Battery, Adapters, Charts and Instructions. **3D2606—List Price \$27.50. YOUR PRICE**

\$16¹⁷

The Selector Switch

- Has 12 positions arranged to make the following tests:
- 1. Grid or Screen Grid to Cathode. Grid volts and Heater type 3 element tubes. Screen Grid volts on Screen Grid type tubes.
- 2. Measures grid volts on triode and Direct Heater Pentodes. Screen Grid volts on Direct Heater Screen Grid tubes.
- 3. Measures Cathode volts on Cathode type tubes, and Screen volts on output Pentodes.
- 4. Measures Plate volts on Cathode type amplifier and output tubes.
- 5. Measures Plate volts on Direct Heater amplifier and output tubes.
- 6. Measures the Control Grid volts of tubes having top cap.
- 7. Measures the voltage from Suppressor Grid to Cathode on tubes having suppressor grids, and Plate volts on double plate output tubes, such as 79.
- 8. Measures voltage from Control Grid to Cathode on Heater type output Pentodes.
- 9. Measures voltage from Plate to Cathode of double plate output tubes, such as 79.
- 10. Measures the voltage from Control Grid to Cathode of double plate output tubes, such as 79.
- 11. Measures the voltage between the second Control Grid and Cathode on double plate output tubes, such as 79.
- 12. Measures the voltage between the Conventional Plate contact and the Conventional Screen contact. The toggle switch marked positive and negative reverses the polarity of the D.C. volt meter. This switch will indicate polarity of the circuit tested.



Readrite Model 712

The Model 712 differs from the Model 710 only in that it is equipped with the new Triplett D'Arsonval Voltmeter having 1,000 ohms per volt resistance. The reading is 0-15-60-300-600 volts, which covers a complete range for testing control grids, screen grids, cathode and plate voltages. The use of this precision indicating meter leaves little to be desired in the way of a fine testing instrument. No matter how many testers you have you can afford to put the 712 on your payroll, because it will enable you to do a quicker, better and more accurate testing job. (2% accuracy.) **3D2590—List Price \$41.25. YOUR PRICE**

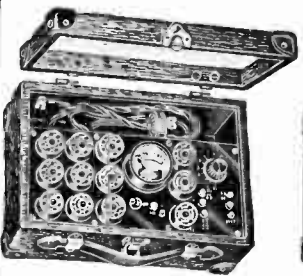
\$24.25

Portable Tube Testers

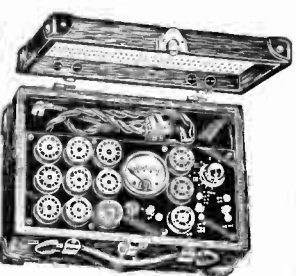
Test All Tubes without Adapters Including All New Types



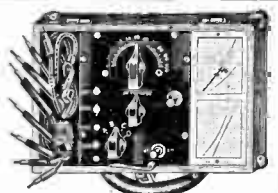
Readrite Model 1000
Resistance—Continuity and Capacity Tester
"For Cold Chassis"
Point-to-Point Testing
3E2622—YOUR PRICE \$29.40



Readrite Model 410
3E2600—YOUR PRICE \$16¹⁷



Readrite Model 416
With Triplett Moving Coil Precision Meter
3E2631—YOUR PRICE \$21.02



Readrite All Wave Oscillator

3E2597—Model 551 without output meter. YOUR PRICE \$17.64

A New Graph Calibrated Self Modulated Service Oscillator. Meets requirements of latest model receivers with short wave and I. F. circuit. Four frequency ranges: 110 to 500 K. C., 500 to 3000 K. C.; 2000 to 6000 K. C.; 4000 to 18000 K. C. 1627 meters.) Desired range may be selected with a four point switch. The exact frequency is secured by adjustment of a tuning knob over a calibrated scale. This operates a new design semi-precision type condenser which is accurately calibrated on the Graph supplied with each instrument. This oscillator may be employed to align short wave and broadcast R. F. tuning sections, to peak I. F. transformers, to adjust oscillator trimmers, compare gain in tubes, to test sensitivity of receivers and locate cause of intermittent reception. A "Dummy Antenna" output matches all standard receivers. **100% Attenuator.** Leatherette covered case, 12"x6"x5" with slip-hinged lid. Batteries for the type 30 tube are self contained. **100% Attenuator.**

3E2598—Model 553 All Wave Oscillator same as above with Readrite output meter. YOUR PRICE \$20.58

A new and improved tube tester for checking standard base, rectifier and radio tubes. Employs the grid shift method of changing the plate current reading which is a close approximation of the mutual conductance of the tube under test. A Readrite Milliammeter with an illuminated dial indicates the change in plate current. Filament control provides: 1 1/2, 2, 2 1/2, 3, 5, 6.3, 7 1/2, 12.6 and 25 volts for all tubes. Both plates of rectifier tubes are tested. Complete instructions and standard values for good tubes are attached to the lid of the case. Leatherette case with slip-hinged lid. Size 11"x7 1/4"x4 1/4" deep. Shipping weight 11 lbs. For connection to 105-125 volts 60 cycle A. C.

For testing tubes with a greater degree of precision than is possible with the Model 410, a sensitive Triplett d'Arsonval type meter in the 416 tester employs a longer scale which permits very accurate reading of tube values. For house to house canvassing tube salesmen, this instrument is an excellent rugged type which will quickly identify weak tubes. With the slip-hinged lid removed it is suitable for counter or test bench service. Simple instructions and values for all standard tubes inside cover. Mounted in well bound leatherette case, size 11"x7 1/4"x4 1/4" deep. Shipping weight 11 lbs. For connection to 105-125 volts, 60 cycle A. C.

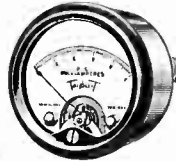
TRIPLETT PRECISION METERS

Guaranteed Accuracy Within
2% at 72° F.

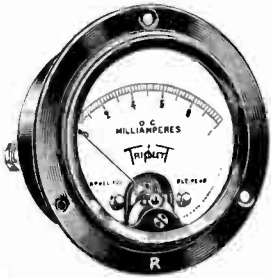
Geneue d'Arsonval
Moving Coil Type

Rugged dependable meters for radio service, experimental, and educational use. Standard in size, range and appearance. Bright white enameled dials. Balanced aluminum indicating pointer. Zero adjustment. Genuine polished sapphire jeweled bearings. Bakelite or Metal dustproof cases with glossy black finish. Cases should not be removed. Triplett meters offer the greatest value in the low price instrument field, having many features heretofore restricted to the higher priced meter lines.

Model 321 D.C. Flush Type, wide flange. 3 1/2" diameter. Scale length 2 3/4". Mfg. hole Ctrs. 3".
Model 331 A.C. Flush Type, wide flange. 3 1/2" diameter. Scale length 2 3/4". Mfg. hole Ctrs. 3".



2 Inch Models
223 D.C.—233 A.C.
(Flush Mounting)



3 1/2 INCH Models 321—331
(Flush Mounting)

Portable Meter Cases

For 2 Inch Readrite & Triplett Meters

A good selection of Portable Meters is indispensable in a properly equipped Radio Laboratory or repair shop. These Cases are 3 inches in diameter, made of heavy gauge brass, durably finished in polished nickel. Nickle-plated bezel. Supplied with two 30 inch plating leads and necessary accessories for mounting meter.

3D2798—List, \$1.75.
YOUR PRICE



\$1.03

Readrite Model 65 Flange To Fit Model 55 Meters

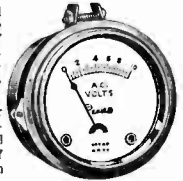


Wide flange 3 3/4 inches diameter. Fits over any type of model 55 meter, converting it into a flange mounting model. Three screw holes. Three 3/8" long 1-36 screws with nuts included. Flange and screw heads in matte black finish.

3C2799—List, Each 15c.
YOUR PRICE

Readrite Model 55 A. C. Meters

Magnetic Solenoid Type. For 50 to 100 cycle Commercial A.C. circuits. Accurate within 10%. Requires 2 1/2" mounting hole. Clamp maintains meter rigidly against panel from position in the rear. Readrite 55 A.C. meters are satisfactory for checking line voltage, amplifier tube filament current and voltage, current drain of radio sets, and refrigeration service work.



Stock Number	Scale	Your Price	Stock Number	Scale	Your Price
3C2778	0-1		3C2782	0-1	
3C2779	0-6	\$1.62	3C2783	0-3	
3C2780	0-10		3C2784	0-600	3.82
3C2781	0-15		3C2785	0-750	4.56
			3C2786	0-10-110	2.65
			3C2796	0-50	\$1.91

Stock Number	Scale	Your Price	Stock Number	Scale	Your Price
3C2787	0-1		3C2788	0-50	\$1.62
3C2788	0-3				

Stock Number	Scale	Your Price	Stock Number	Scale	Your Price
3C2789	0-1		3C2790	0-1	
3C2790	0-3		3C2791	0-3	
3C2791	0-6		3C2792	0-10	
3C2792	0-10		3C2793	0-10	
3C2793	0-15		3C2794	0-50	\$1.91

Filament Meter
Oxidized Bronze Finish, flanged cases 2 3/4 in. diam. Mount 2-in. hole.
3C2698—0-10 volts D.C.
List, \$1.00.
YOUR PRICE



39c

3 1/2" Model 321 2" Model 223

Stock Number	Your Price	RANGE	Stock Number	Your Price
D. C. MILLIAMMETERS				
3E9610		0-1 Mills.	3E9654	
3E9611	\$4.55	0-1.5	3E9655	\$3.75
3E9612		0-3	3E9656	
3E9613		0-5	3E9657	
3E9614	3.75	0-10	3E9658	2.94
3E9615		0-15	3E9659	
3E9616		0-25	3E9660	
3E9617		0-50	3E9661	
3E9618	3.75	0-75	3E9662	2.94
3E9619		0-100	3E9663	
3E9620		0-200	3E9664	
3E9621		0-250	3E9665	
3E9622	3.75	0-300	3E9666	2.94
3E9623		0-500	3E9667	
3E9624		0-750	3E9668	
3E9625		0-1000	3E9669	
3E9626	\$ 5.39	5-0-5	3E9670	\$ 4.24
3E9627	3.75	100-0-100	3E9671	2.94
3E9628	6.86	0-1-10	3E9672	5.71
3E9629	6.86	0-1-25	3E9673	5.71
3E9630	6.05	0-15-150	3E9674	5.06
3E9631	6.05	0-25-250	3E9675	5.06

Stock Number	Your Price	RANGE	Stock Number	Your Price
D. C. AMMETERS				
3E9676		0-1 Amps.	3E9700	
3E9677		0-3	3E9701	
3E9678	\$3.75	0-5	3E9702	\$2.94
3E9679		0-10	3E9703	
3E9680		0-25	3E9704	
3E9681		1-0-1	3E9706	
3E9682	3.75	5-0-5	3E9707	2.94
3E9683		10-0-10	3E9708	
3E9684		20-0-20	3E9709	
3E9685		30-0-30	3E9710	

Stock Number	Your Price	RANGE	Stock Number	Your Price
D. C. MICROAMMETERS				
3E9811	\$ 6.05	0-500M.A.	3E9815	\$ 6.06
3E9812	7.84	0-200	3E9816	5.71

Stock Number	Your Price	RANGE	Stock Number	Your Price
D. C. RESISTANCE METERS				
3E9823	\$7.00	Type 321. 0/1.5 volts. 0/100 ohms.		
3E9824	\$5.39	Type 321. 0/4.5 volts. 0/50,000 ohms.		

Stock Number	Your Price	RANGE	Stock Number	Your Price
A. C. Vane Type Meters				
3 1/2" TYPE 331			2" TYPE 233	

Stock Number	Your Price	RANGE	Stock Number	Your Price
A. C. MILLIAMMETERS				
3E9825		0-15 Mills.	3E9830	
3E9826	\$3.75	0-25	3E9831	\$2.94
3E9827		0-50	3E9832	
3E9828		0-250	3E9833	
3E9829		0-500	3E9834	
3E9835		0-1 Amps.	3E9842	
3E9836	3.75	0-2	3E9843	2.94
3E9837		0-3	3E9844	
3E9838		0-5	3E9845	
3E9839		0-10	3E9846	
3E9840	\$ 4.47	0-25	3E9847	\$ 3.75

Stock Number	Your Price	RANGE	Stock Number	Your Price
A. C. VOLTMETERS				
3E9849		0-1 Volts	3E9864	
3E9850	\$3.75	0-3	3E9865	\$2.94
3E9851		0-5	3E9866	
3E9852		0-10	3E9867	
3E9853		0-15	3E9868	
3E9854	3.75	0-25	3E9869	2.94
3E9855		0-50	3E9870	
3E9856		0-100	3E9871	
3E9857	\$ 4.55	0-150	3E9872	\$ 3.75
3E9858	5.39	0-300	3E9873	4.68
3E9859	7.18	0-500	3E9874	6.47
3E9860	8.26	0-750	3E9875	7.51
3E9861	10.45	0-1000	3E9876	9.70
3E9862	8.26	0-3-15-150		

3 1/2" Model 321 2" Model 223

Stock Number	Your Price	RANGE	Stock Number	Your Price
D. C. VOLTMETERS				
3E9712		0-1 Volts	3E9750	
3E9713	\$3.75	0-3	3E9751	\$2.94
3E9714		0-5	3E9752	
3E9715		0-10	3E9753	
3E9716		0-15	3E9754	
3E9717	3.75	0-25	3E9755	2.94
3E9718		0-50	3E9756	
3E9719		0-100	3E9757	
3E9720		0-150	3E9758	
3E9721	\$ 4.55	0-200	3E9759	\$ 3.75
3E9722	4.55	0-250	3E9760	3.75
3E9723	5.39	0-300	3E9761	4.24
3E9724	6.05	0-500	3E9762	5.06
3E9725	7.18	0-750	3E9763	6.05
3E9726	9.31	0-1000	3E9764	8.33
3E9727	11.43	0-2000	3E9765	10.45
3E9728	3.75	3-0-3	3E9766	2.94
3E9729	3.75	50-0-50	3E9767	2.94
3E9730	3.75	150-0-150	3E9768	2.94
D. C. VOLTMETERS				
1000 Ohms Per Volt				
3E9769		0-5 Volts	3E9797	
3E9770		0-10	3E9798	
3E9771	\$5.39	0-25	3E9799	\$4.24
3E9772		0-50	3E9800	
3E9773	\$ 5.71	0-100	3E9801	\$ 5.06
3E9774	5.71	0-150	3E9802	5.06
3E9775	6.53	0-300	3E9803	5.71
3E9776	7.18	0-500	3E9804	6.53
3E9777	7.18	0-15-150	3E9805	6.53
3E9778	10.88	0-250-750	3E9806	9.63
3E9779	10.29	0-15-450	3E9807	9.14
		300-600		
D. C. MILLIVOLTMETERS				
3E9817	\$ 3.75	0-50M.V.	3E9821	\$ 2.94
3E9818	3.75	0-150	3E9822	2.94

Stock Number	Your Price	RANGE	Stock Number	Your Price
D. C. MILLIAMMETERS				
3E9773	\$ 5.71	0-100	3E9801	\$ 5.06
3E9774	5.71	0-150	3E9802	5.06
3E9775	6.53	0-300	3E9803	5.71
3E9776	7.18	0-500	3E9804	6.53
3E9777	7.18	0-15-150	3E9805	6.53
3E9778	10.88	0-250-750	3E9806	9.63
3E9779	10.29	0-15-450	3E9807	9.14
		300-600		

Stock Number	Your Price	RANGE	Stock Number	Your Price
D. C. MILLIVOLTMETERS				
3E9817	\$ 3.75	0-50M.V.	3E9821	\$ 2.94
3E9818	3.75	0-150	3E9822	2.94

Stock Number	Your Price	RANGE	Stock Number	Your Price
D. C. MILLIAMMETERS				
3E9773	\$ 5.71	0-100	3E9801	\$ 5.06
3E9774	5.71	0-150	3E9802	5.06
3E9775	6.53	0-300	3E9803	5.71
3E9776	7.18	0-500	3E9804	6.53
3E9777	7.18	0-15-150	3E9805	6.53
3E9778	10.88	0-250-750	3E9806	9.63
3E9779	10.29	0-15-450	3E9807	9.14
		300-600		

Readrite D.C. Panel Meters Model 55



Good serviceable Instruments. Guaranteed accuracy within 5% in both types. Suitable for practically all purposes except precision engineering. Require 2-5/64" mounting hole. White dial, black lettering, metal shell. Clamp included to hold meter tight against panel. Screw connections with binding nuts in rear. ZERO ADJUSTMENT TYPE has screw mounted on face which controls idle position of meter.



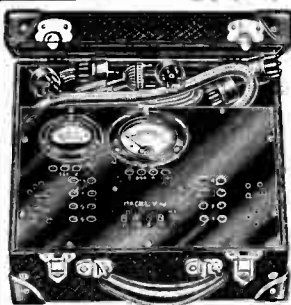
Without Zero Adjustment D. C. Voltmeters With Zero Adjustment

Stock Num.	Your Price	Scale Volts	Ohms Resist.	Stock Num.	Your Price
3C2735		0-1	30	3D7735	
3C2736	59c	0-3	175	3D7736	73c
3C2737		0-6	550	3D7737	
3C2738		0-5	110	3D7738	
3C2739		0-8	850	3D7739	
3C2740	59c	0-15	1,475	3D7740	
3C2741		0-15	2,911	3D7741	
3C2742		3-0-3	550	3D7742	73c
3C2743		0-25	1,625	3D7743	
3C2744	\$1.62	0-25	7,720	3D7744	\$1.77
3C2745	.59	0-50	3,250	3D7745	.73
3C2746	1.91	0-50	15,410	3D7746	2.06
3C2747	.88	0-100	6,500	3D7747	1.03
3C2748	1.91	0-100	30,888	3D7748	2.06
3C2749	1.03	0-150	9,750	3D7749	1.18
3C2750	1.91	0-150	46,320	3D7750	2.06
3C2751	1.91	0-300	92,640	3D7751	2.06

New Macklyn Testers

New Model 101 Analyzer

Latest model test instrument for locating trouble in radio receiver. Combines the advantages of Point-to-Point "cold" chassis testing with standard voltage and current analysis. Uses selective analysis method. Accurately measures the voltage between any tube prongs, the current in any D.C. circuit, and the resistance between any circuits supplying the tube sockets. Uses four sockets, and 8 pairs of pin-jacks with two meters. Measuring ranges are: D.C. Volts, 0-15-150-600, at 1000 ohms per volt and 0-15-150 milliamperes. Resistance 0-500,000 ohms. A.C. volts 0-8-150-750. Capacity chart permits measurements between 0.01 and 5.8 Mfd. An 8 wire cable with a seten prong plug and four adapters are supplied. One top grid connection is located on the side of the plug.



IE2538—YOUR PRICE **\$22.90**

For Point-to-Point analysis and "hot" circuit testing of any type radio receiver. Complete in Fabrikoid carrying case 11 1/2"x11 1/2"x4 1/2", with all adapters.

New Model 89 Tube Tester

True Tube Performance! Tests all tubes in the Radiolok Tube Data Charts. Actually determines the merit of a tube just as if it were within a radio receiver. Simple and fast for tube testing. A row of pin-jacks connect to all the individual tube socket pins. Another row of pin-jacks supply all the Voltages necessary to operate the tube with the correct voltage on each element. A chart gives the proper inter-jack connections for every tube. A filament selector switch provides 1 1/2, 2, 2 1/2, 3, 3.5, 5, 6.3, 7 1/2, 14, 25, and 30 volts for all tubes. Automatic inter-element short check and gas check included. Engraved bakelite panel, Fabrikoid case, 3 1/2" meter, sockets for 4, 5, 6, and large and small 7 prong tubes. Voltages of 10, 22, 45, 67, 90, 135, 180 and 250 available for tube tests. Complete instructions included.



IE2537—Model 89 YOUR PRICE **\$22.90**

Complete with pin tip insulated plug cords, and A.C. line cord. We recommend this splendid tube tester because of the accuracy of its tests and because of its fine construction.

READRITE Tuning Meters

For Accurate Visual Tuning

Rear Illuminated Translucent Dial Code TM 101		Front or bottom Illuminated Type Code TM 103		dialwise Mounting Shadow Illumination Code TM 10	
Stock Number	Max. M.A.	Stock Number	Max. M.A.	Stock Number	Max. M.A.
3E2654	5	3E2651	7	3E2658	5
3E2655	7	3E2652	10	3E2659	7
3E2656	10	3E2653	15	3E2660	10
3E2657	15			3E2661	15

Shadow Graph Type: Code TM 121

A solid shadow spreads over the translucent dial. Shadow becomes narrow as resonance is indicated. Complete with 2.5 volt bump.

Tuning Meter Prices

Choice of above types without Escutcheon, **YOUR PRICE \$1.50.**

YOUR PRICE 88c

YOUR PRICE 88c

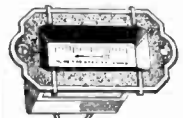
Visual Meter Tuning: Combine visible indication of exact station tuning with the audible tone to secure best results with modern radio. A.V.C. sets "hang onto" a station signal over a wider expanse of dial than older types of receivers. Failure to tune exactly is often the cause of other signals blurring and distorting the station you desire. Accurate tuning with a meter assures you of the best adjustment of the tuning dial for resonance with the station you want. Only by precise tuning can you secure the full range of tone a radio is capable of producing. **Easy to Sell.** Mount a tuning meter in a small box attached with two wires to a pair of pin-tips. Use NaAid 5 or 6 prong "listening in" adapters listed on page 20 to couple the meter into I.P. stages of receivers with A.V.C. Demonstrate to your customer how easy it is to tune with a "metered" receiver. The standard price most servicemen quote for installation of a tuning meter is \$4.85 for the complete job! You can make these sales and this handsome profit. Complete instructions furnished.



Code TM 121



Code TM 101



Code TM 108

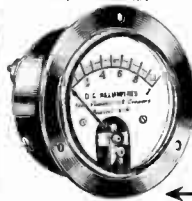


Code TM 103

BEEDE D'Arsonval Meters

Accurate small instruments intended for panel test assemblies and as foundation units in multi-purpose meters. Under normal conditions of room temperature and where not subjected to severe vibration these meters are as satisfactory for radio service as the most expensive types.

Beebe Meters are equipped with zero adjuster, sapphire bearings, aluminum pointer, printed scale, and black enameled metal cases. Despite the low price of these instruments quality has not been sacrificed. 15 years experience making meters has fully qualified the Beebe Company.



Features: Easy to open for inspection of movement or for special calibration of dial. Ideal for use with rectifier or thermocouple for A.C. measurements. For most radio service requirements, these meters are as satisfactory as the more expensive precision meters.



Model 701, 3 1/4" flush metal case, 1 1/2" deep. Rim, flush metal case. Mounts in 2 1/4" opening. 1 1/4" deep, 2 1/2" Mtg. hole.

Model 701

0-1 Milliampmeter

For use with custom-built radio testing apparatus. 50 ohms resistance. 50 scale divisions. 98% accuracy.

IE9600 0-1 Milliammeter.

YOUR PRICE \$3.53

1-0-1 Mil. Galvanometer

For Wheatstone Bridge circuits and Bridge Balanced Vacuum Tube Volt-meter indicators. Zero position of pointer in middle of scale. 50 scale divisions.

IE9601 1-0-1 Galvanometer.

YOUR PRICE \$3.53

0-2000 Ohmmeter

Fills the need for an accurate low range ohmmeter with 1 1/2 volt supply. Reads 100 ohms at half scale position. Excellent for bench test panel.

IE9602 0-2000 Ohmmeter.

YOUR PRICE \$3.24

Model 411

IE9603—0-1 Milliammeter, 50 ohms resistance. 50 scale divisions.

YOUR PRICE \$2.94

IE9604 0-25 Milliammeter (For checking interphone button current.) Price \$2.20

IE9605 0-150 Milliammeter (P.A. Amplifier plate current indicator.) Price \$2.20

IE9606 0-5 Volts at 125 ohms per volt. (For checking filament supply of D.C. Tubes.) \$2.20

IE9607 1-0-1 Mil. Galvanometer. (For Wheatstone Bridge Measurements.) \$2.94

IE9608 0-10 Amperes. (For testing current drain of Auto-radio receivers.) \$2.20

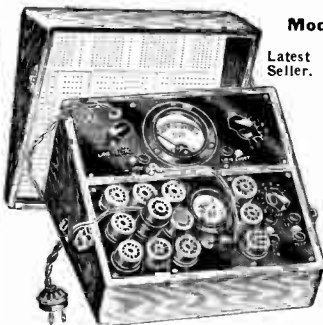
YOUR PRICE \$2.20

READRITE Tube Tester

Models 421-422 Emission Type

Latest Model Readrite Simplified Tube Tester. Easy to operate, cannot be harmed by incorrect manipulation. Large Triplet meter with shaded pink and green portions which quickly identify low emission tubes. 12 Sockets are employed. Circuit converts all tubes to simple diodes or triodes for the emission test. Meter is equipped with a shunt-selector switch as a range multiplier. Line voltage control is secured through a rheostat in the primary circuit of the power transformer. An A.C. line meter constantly checks the voltage. Cathode-heater shorts, checked while tube is hot. Grid shorts and second plate rectifier tests, made with push buttons. Quarter-sawed oak case, 9 1/4"x10 1/2" counter space, 5" high with cover in place. Wt. 9 lbs.

This tester is recommended for the non-technical dealer selling tubes.



IE2602—421 Counter type without lid and carrying strap. **YOUR PRICE \$23.52**

IE2604—422 Portable type with slip hinged lid and carrying strap. **YOUR PRICE \$24.99**

Portable Volt Ohmmeter

Pocket Size

3E2503—

YOUR PRICE \$2.32

Convenient as a pocket watch. 3" Diameter. 1 1/2" deep with 2 1/2" test leads. Range 0-10,000 ohms, 0-300 D.C. volts. Self contained flashlight light cells.



Resistance Meter

Readrite Model 501

3E2685—

YOUR PRICE \$1.62

Direct reading volt ohmmeter. 0-4 1/2 volts, 0-10,000 ohms. 2" flame type meter. Requires three small flashlight cells which with resistance to be measured are connected in series with the meter. Accuracy within 10% with fresh batteries.



Readrite Selector Switches

Rotating single contact non-shorting selector switches for custom-built analyzers, set testers, etc. Mount in a single 3/4" hole. 3/4" threaded bushing. Complete with knob and mounting nut.

3E2672—Triple pole 2 positions.

3E2673—Double pole 3 positions.

3E2674—Double pole 12 positions, twin contacts.

YOUR PRICE, Each \$1.03

3E2670—Double pole 6 positions, twin contacts.

3E2671—Single pole 13 positions, 1 contact in each position.

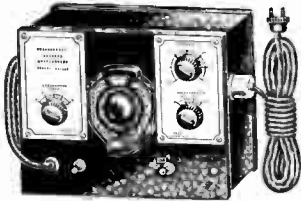
YOUR PRICE, Each .59c



Triumph Signal Generator

A New All Wave Oscillator

Generates Fundamental Modulated and Unmodulated Frequencies Between 100 K.C. and 10,000 K.C. Also 350 Cycle Audio Frequency, Electron Coupled, All Electric Four Range Attenuator, Complete Shielding, Filtered A.C. Line, Harmonic Range 10 megacycles to 50 M.C.



IE9525—Complete. **\$3875**
YOUR PRICE

Four Tuning Ranges

Four separate tuning coils. Range 1, produces all I.F. between 100 and 350 K.C. Range 2 covers I.F. and Broadcast between 350 and 1080 K.C. Range 3 lies between 1950 and 3250 K.C. Range 4 is for testing the most advanced type of Short Wave Receivers between 3200 and 10,000 K.C. Harmonics of this last range are available as high as 50,000 cycles giving a total coverage of 6 meters to 3000 meters.

Audio Frequency

A fifth position on the frequency selector switch cuts out the radio frequency oscillator and generates a powerful 350 cycle audio note for Amplifier testing, speaker adjustment, bridge measurements, and audio gain tests.

Convenient Size

Front panel 7" x 9". Depth of case 3 1/2". Black Crackle lacquer finish on metal. The case forms an electromagnetic shield about the entire unit. Individual coils are electro-statically shielded.

Electron Coupled

Assuring the greatest stability of calibration and freedom from strays or birdies. The use of the new 77 Pentode tube makes this signal generator the most up-to-date unit of its type.

All Electric

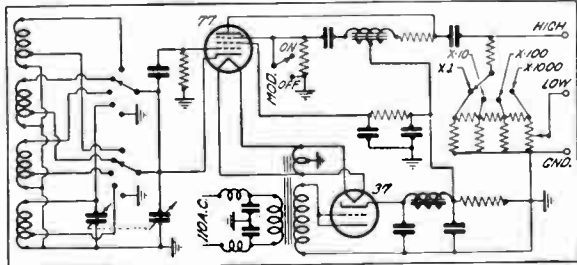
Operates on 105 to 120 volts 60 cycle A.C. A .37 acts as a diode rectifier for "B" voltage. Line circuit is filtered with twin bypass condensers preceding the transformer primary. No signal is radiated through the A.C. Line.

Calibrated Attenuator

And Modulation Control. Ladder type power output control maintains semi-constant impedance for all output levels. The relative gain of different receivers adjusted to the same output level may be approximated from the position of the attenuator knobs. The accuracy of these tests is exceeded only by Signal Generators costing hundreds of dollars. Switch controls modulation circuit, permitting selection of the pure carrier wave for heat frequency tests, or the modulated signal for receiver performance tests. Reversible output jack gives choice of full or attenuated output.

Profitable

The Triumph Signal Generator will quickly earn back its cost for the radio serviceman who employs it on every service job. The improved tone of a radio which has been accurately aligned and balanced with this oscillator will permit maximum service fees and complete customer satisfaction. The feature of having an audio-testing signal will prove of greatest assistance in locating causes of intermittent reception through the audio amplifier portion of a receiver.



A.C. D.C. Type—With Beede 1 Milli. D.C. Movement and Copper Oxide Rectifier

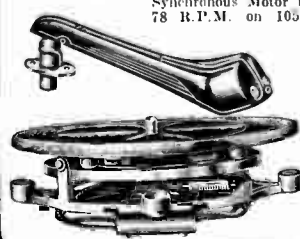


Consists of a Standard 3 1/2" Beede d'Arsonval meter with matched individually calibrated copper-oxide rectifier, and a special "foundation" style scale. D.C. meter requires 1 M.A. for full scale deflection. 50 ohms internal resistance. Separate D.C. binding posts on the rear. A.C. circuit produces full scale deflection with 1 M.A. 5 volts A.C. will cause full scale deflection. The special scale is printed with 20 divisions (0-100) for the D.C. ranges and a dual scale of 20 divisions each for the A.C. range, marked 0-100 and 0-5. The upper scale is calibrated in ohms for use with a 4 to 4 1/2 volt battery intended to check resistance to 100,000 ohms.

IE9609—**\$694**
YOUR PRICE

RCA Victor Midget Phono Motor and Electric Pickup

For Portable Combination Radio Phonographs
May be used for demonstrating amplifiers and testing audio stages of radio receivers. Motor assembly only 7" in diameter and 2 1/2" deep. Synchronous Motor requiring manual starting. Regular 78 R.P.M. on 105 to 120 volt 60 cycles. Electric Pickup has 6% tone arm, 2500 ohms impedance. For 10% records. This assembly fits the Radioek Walnut case on page 35.



3E2962—RCA Motor.
YOUR PRICE **\$4.70**
3E2963—RCA Pickup.
YOUR PRICE **\$2.94**
3E2964—Assembly Hardware.
YOUR PRICE **33¢**

Radolek—Hickok

Giant Precision Volt-Ohm Foundation Meter

Built by Hickok
The Front is 8 3/8 Inches Diameter



Mr. Serviceman: Build your test panel around this meter. It is one of the finest, most accurate meters made. Replaces the five most popular meters employed in service work. In the one large, easy reading meter the following ranges are obtainable at 1000 ohms per volt, 0 to 10 volts, 0 to 100 volts, 0 to 1000 volts; low range shunt-circuit ohmmeter, 0 to 500 ohms; high range ohmmeter scale 0 to 1,000,000 ohms. Additional ranges may be added with standard series resistors. Using standard, 50 millivolt shunts, several millivolt ranges may be added to fit your exact requirements. The double top meter scale has a 7 inch long arc and shows high and low ohm ranges. Below this dual scale is a 1/4 inch wide mirror reflector below which is a double reading voltage scale. The knife edge pointer passing over the mirror compels proper eye alignment for correct and accurate scale readings.

Diagram at right shows the interior arrangement of connections and resistors. Diagram below shows connections and circuit to be used with this instrument. This is an adaptation of Circuit Diagram Number 2 shown on page 36.

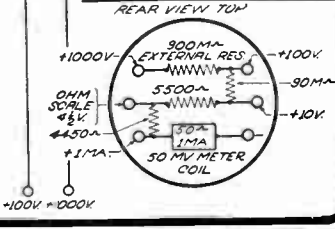
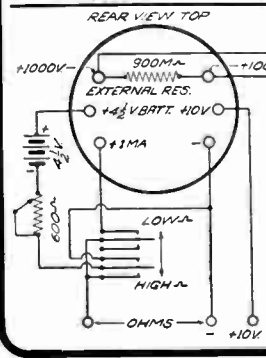
This meter can also be used in circuit diagram number 1A, 1B and 6B shown on page 36. In these circuits, additional voltage ranges and millivolt ranges may be provided by using shunts and resistors specified.

Specifications:

Front of Panel Type. Front Rim of Black Bakelite, diameter 8 3/8". Base diameter 9 1/2". Side and base of steel in black enamel finish. Depth 3 3/8" inches. Six completely threaded connecting bolts diameter 1/4 inch, project 2 inches beyond base. Double strength glass crystal. Matte white bristol board mirror backed scale with hand calibrated characters in clear contrasting black. Front zero adjuster. Knife edge pointer 4 1/8 inches long. Resistors shown in Diagram below are built in and included except external 900,000 ohm resistor, which is not included. No batteries, switch or potentiometer included.

102501—Giant Precision Volt-Ohm Meter.
List Price \$60.00.

YOUR PRICE **\$3750**



Westinghouse Precision Meters



Flange 2 1/4", 2 3/8" mounting hole. Moldarta case. Mounts flush with clamp from rear. Specially designed for Photo-electric cells, Piezo Crystals, etc.

Cobalt Magnet 2" Type MX A.C. Meters

Stock Num.	Scale	Resistance	Your Price
1E9883	0-100 Milliamperes	Thermocouple	\$12.37
1E9884	0-250 Milliamperes	Thermocouple	12.37
1E9885	0-0.5 Milliamperes	Rectox (A.F.)	13.31
1E9886	0-1 Milliamperes	Rectox (A.F.)	10.15

2" Tungsten and Cobalt Magnet D.C. Meters

1E9881	0-20 Microamperes	2180 ohms	\$18.37
1E9882	0-500 Microamperes	110 ohms	9.56
1E9887	0-1 Milliamperes	110 ohms	6.37
1E9888	0-5 Milliamperes	10.1 ohms	5.62
1E9889	0-10 Milliamperes	2.3 ohms	5.62
1E9890	0-10 Amperes		5.62

Universal A.C.-D.C. Rectox

Foundation Meter. 3 1/2" Flange Size. Moldarta case. Knife Edge Pointer. 100 ohms resistance in the D.C. circuit. 5000 ohms in A.C. circuit. D.C. scale 20 divisions calibrated 0 to 100. Middle A.C. Scale has a double set of graduations for low and high A.C. ranges. Upper scale is marked in abbreviated values of ohms. External resistors are required above 1 M. D.C. and above 5 volts A.C.

IE9880—**\$14.25**
YOUR PRICE

Westinghouse 3 1/2" Type NX

3 1/2" flange, mounts in 2 3/8" hole. Moldarta (A special form of bakelite) case. Accuracy within 2%.

Stock Num.	For D. C. or Rectified A. C. Scale	Resistance	Your Price
1E9891	0-1 Milliamperes	110 ohms	\$ 7.50
1E9892	0-100 Milliamperes	7 ohms	15.75
1E9893	90 Volt—Ohmmeter	9 mecohm	13.25

New
Standardized

WESTON

Service
Instruments



**MODEL 661
TUBE CHECKER**
Ultra Modern Design

ID9432—List Price \$50.00.
DEALERS PRICE **\$36.75**
ID9433—Less Carrying Case.
List Price, \$45.00.
DEALERS PRICE **\$33.07**

Tests all 4, 5, 6 and 7 (large or small) prong filament and heater type tubes listed in Radiolek's official tube data sheets. Easily learned system of operation. No memory work or complicated reference charts are necessary. Has line voltage regulator and filament voltage selector. Meter is a model 601 type with a 60 division scale. Indicates in direct reading comparative rating of tubes. Accurate and reliable. Protective metal housing. Unit supplied in individual leatherette covered carrying case. Case size 8 3/4"x11 1/4" inches. Power line cord. Matches other 660 series on this page. Employers zero reset grid shift system of mutual conductance measurement. Shipping weight, 7 lbs.



**Model 665 Type 1
Selective ANALYZER**

IE9442—List, \$70.00 less case.
YOUR PRICE **\$51.45**

Consists of a multi-range A.C.-D.C. Volt-Ohm-Output-Milliammeter with a twenty-four point range selection switch, A.C. and D.C. Volts, 1000, 500, 250, 100, 50, 25, 10, 5, 2.5, and 1 at 1000 ohms per volt. D.C. Milliampere ranges 500, 250, 100, 50, 25, 10, 5, 2.5, and 1 milliampere. Four resistance ranges accurately measuring all values between 1 and 1,000,000 ohms. The Model 665 is designed primarily to be used with the Type 1-A Socket Selector described below for point-to-point and straight analytical radio testing. The A.C. portion consisting of a Weston full wave copper oxide type bridge rectifier and compensated circuit is suitable for all output voltage measurements.

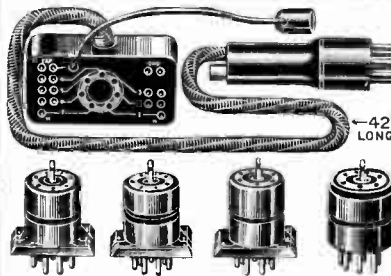
Self locking push-buttons control the choice of the A.C. or D.C. circuit. An ohmmeter adjusting rheostat compensates for 20% deterioration of the battery supply. Panel size 5 1/2"x8 1/4". Depth of case 3". Made of pressed steel, attractively finished in black. Test leads included. Leatherette case supplied separate, at \$5.00 extra.

**Model 665 Type 2
Selective ANALYZER**

IE9443—List, \$55 less case.
YOUR PRICE **\$40.42**



Consists of the same meter and ranges as Type 1, but uses pin-jacks instead of the Selector Switch, to choose the current, voltage or resistance range desired. Each pin-jack plainly marked. Especially designed to be used with the Weston Socket Selector Type 1A. Panel size 5 1/2"x8 1/4". Depth 3". Pressed steel black finished container matches the other units on this page. Test leads included. A leatherette carrying case may be purchased separately for \$5.00.



**Weston Model 666-1A
SOCKET SELECTOR**

A device to permit individual circuit measurements through the tube sockets of a radio receiver with Models 663, 661, or other type of the 665 meters. The Socket Selector consists of a rectangular bakelite box equipped with two pins spaced to fit the jacks located immediately above the meter in the four models of test apparatus mentioned. The top of the box contains a seven prong socket and a number of pin jacks by which measurements may be made between the seven prongs or in series with the circuit of six connections to the tube under test. An 8 wire cable connects the box to a small seven prong plug which may be inserted in a receiver under test. Four double adapters are provided to permit tests of 4, 5, 6, and large 7 prong tubes.

IE9444—Weston 666-1A Socket Selector. List, \$15.00.
YOUR PRICE **\$11.02**

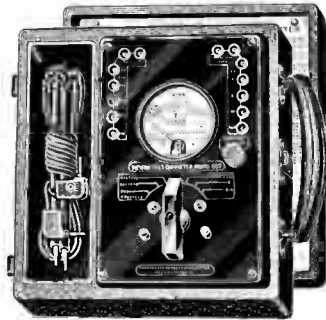


**MODEL 694
NEW OSCILLATOR**

List, \$60.00
ID9434—DEALERS PRICE **\$44.10**

ID9435—Less Carrying Case. List, \$55.00.
DEALERS PRICE **\$40.42**

A standardized unit with four bands having fundamental range of 100 to 3,000 K.C. and ranges up to 6,000 K.C. and higher available on harmonics. Allows for peaking I.P. stages for greatest sensitivity or for "flat toping" for maximum quality in all modern Superheterodynes. Also provides for correct adjustment of condenser gang of T.R.F. Sets as well as R.F. stages of Superheterodynes. For these purposes a smoothly modulated, sharp R.F. signal which may be controlled in intensity and frequency is produced. The frequency ranges are divided into four bands. An output control adjusts from maximum to extreme low minimum in each band. Has filament rheostat to control voltage for its '32 tube. Perfect shielding-inures complete control over signal. Fitted with durable leatherette covered case, necessary accessories, battery and type '32 tube.



**MODEL 663
VOLT-OHMMETER**

ID9436—List \$65.00.
DEALERS COST **\$47.77**
ID9437—Less Carrying Case.
List Price \$60.00.
DEALERS COST **\$44.10**

Provides the widest range of resistance readings ever afforded by an ohmmeter: 0.1 ohm to 10 meg-ohms. This wide range made possible through use of an especially sensitive 60 microampere instrument and selector switch. Energy for Ohmmeter supplied by self-contained battery of 15 volts mounted in back of case. Adjustment provided to compensate battery variations. Available ranges: 0-5-250-2,500-25,000-250,000 ohms center scale; 0-200-1,000-10,000-100,000-1,000,000-10,000,000 ohms full scale; 0-2.5-10-100-250-500-1,000 volts full scale, 1000 ohms per volt; 0-1-5-25-100 milliamperes full scale. An ideal instrument for resistance analysis and point to point testing. Complete with leatherette case, battery and accessories.



**MODEL 664
CAPACITY METER**

ID9438—List, \$60.00.
DEALERS PRICE **\$44.10**

ID9439—Less Carrying Case. List, \$55.00.
DEALERS PRICE **\$40.42**

For Electrolytic or Paper Condensers.

Covers a wide range of all types of capacity and A.C. voltage measurements. Indicates Microfarads: 10-20, 1-20, 1-2, 0.1-2, 0.001-0.2; volts 4-8-10-400-800 A.C., 1,000 ohms per volts. An instrument that will never become obsolete. Operated much the same as a volt-ohmmeter. Power supply is from a self-contained transformer operating from any 105-150 volt 60 cycle line through a voltage adjuster. Indicates short circuit and open circuit as well as measuring capacitance of those in good condition. In an individual carrying case, leatherette covered. Size 8 3/4"x11 1/4" in. Shipped complete with test leads and full instructions for operation.

WESTON PANEL METERS

Weston Instruments Are Standard
 "Is it as good as a Weston?" Weston Instruments are the established standards of comparison. They are made by the combined Weston and Jewell companies with the benefit of their experience of over 30 years of meter manufacturing behind each instrument. So exact is the construction of Weston Instruments that any two meters of the same type—even though made years apart—are identical electrically and mechanically. You can depend on Weston meters.

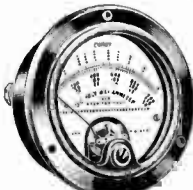
Every Meter You Need in Radio Service
 Radolek carries a complete assortment of Weston Meters in the Models 301, 506, 517, 425, 476, and 600, ready for immediate shipment. Only the most popular Weston Instruments are listed here. You may depend upon prompt shipment and the lowest wholesale prices when you order your complete Weston testing equipment from Radolek. Weston meters may be employed in all special circuits prepared by Radolek for "Build It Yourself Kits."

Weston Meters Have Superior Features
 "Position Balance"—Threaded counterweights exactly balance the movement to read the same in a horizontal, 45°, or vertical position. "Non-Fatigue Springs"—The sensitivity controlled partly by spring tension remains constant in a Weston Meter. Accurate at any temperature. "Jewelled Bearings"—Tool steel pivot points in diamond cut sapphire jewel bearings permit Weston meters to withstand terrific vibration. Precision Calibration.

Volt-Ohm-Milliamperere Foundation Meter

Weston Model 301
 For Custom Built Testers

3D9409.
 List Price, \$10.00.
YOUR PRICE
\$7.35



Designed expressly for use with external resistors and shunts, to build up a multi-range D. C. meter to read volts up to 1000 volts (1000 ohms per volt external resistors required for this purpose) or D. C. milliamperes up to 100 mills (using an external 50 M.V. shunt—Van Model 3D1891, tapped at 5-25-100 mills), and ohms up to 100,000, (in conjunction with a 4½ volt battery and a 4450 ohm resistor).

1 Milliamperere Full Scale Deflection when used without external resistors or shunts. Internal resistance of meter, 50 ohms (50 Millivolts).

Bakelite case, zero adjuster, etched metal dial with black figures on silver background. 50 scale divisions with figures at each 10 divisions. Figures at full scale are 50-250-1000, for use on volt ranges. Divide by 10 for use on milliamperere ranges. Top ohm scale graduated in 100 ohm steps to 2000, 500 ohm steps to 10,000, 1000 ohm steps to 20,000, 5000 ohm steps to 60,000, the next divisions being 100,000 and infinity.

Bakelite case has front flange 3¾" diameter. Case body diameter 2¾". Case depth back of flange, 1", with screws 1¾". Only two binding posts with proper polarity marking.

Mr. Service: Build your own analyzer or test panel with this precision multi-range foundation meter. Using the proper resistors and shunts additional ranges may be added for greater flexibility and adaptation to your particular test requirements.

Weston Model 301 DC



¾ Inch Case
 A high grade matched line of meters to cover a wide variety of electrical measurement requirements. Standard throughout the world in the Radio and Electrical Industries. Excellent for general Radio use. Supplied in flush or surface type and in metal or bakelite cases, all Flush type metal case sent at the same prices, unless otherwise specified.

Model 301 D.C. Milliammeters

Article Number	Range	Ohms	Article Number	Range	Ohms
3E9340	1	27	3C9342	2	18
3E9341	1.5	18	3C9343	3	18

List Price, \$10.00.
YOUR PRICE **\$7.35**

Model 301 D. C. Microammeters

Article Number	Range	Ohms	List Price	Your Price
3E9363	2007	55	\$14.25	\$10.48
3E9364	5007	55	\$11.25	\$10.48

for use in horizontal or 45° position.

Weston AC Model 301 Rectifier Milliammeters

Article Number	Milli-Res.	Ohms	List Price	Your Price
3E9379	0.5	2000	\$19.25	\$14.15
3E9380	1	2000	\$15.00	\$11.02

Weston Model 301 D.C. 1000 ohm per Volt-Ohmmeters

Stock Number	Volts	Ohm Scale	Your Price
3E9420	1.5	0-1,000	\$7.72
3E9422	4.5	0-10,000	
3E9420	4.5	0-100,000	9.92
3E9401	15.	0-500,000	9.92
3E9424	90.	0-2,000,000	11.02

Universal A. C.—D. C. Foundation 0-1 Milliamperere Meter



3D2532
 List Price \$19.00.
YOUR PRICE **\$13.97**

Designed particularly for use with external resistors and shunts, to build up Multi-Range A.C.—D.C. Meter to read A.C. volts up to 1,000 volts; D.C. volts up to 1,000 volts; or D.C. milliamperes up to 500 mils., and ohms up to 100,000 ohms.

1 Milliamperere Full Scale Deflection when used without External Resistors or Shunts. D. C. Total Meter Resistance (with attached shunt in circuit) 50 ohms; A. C. Total Meter Resistance (with self contained rectifier in circuit) 5,000 ohms.

Bakelite Case. Knife Edge Pointer. Front Zero Adjuster.

Etched metal dial—with black figures on silver background. Three sets of scale readings.

Lower D. C. Scale with 50 divisions having figures at each 10th division. This scale is for D. C. mls. (when external shunts are used) or D. C. Volts (when external resistors are used) at 1000 ohms per volt.

Middle A. C. Scale with triple set of graduations having figures at each indicated 10th division. For A. C. voltage readings of 5 volts; 10 volts; 50 volts and upward. Practically any voltage reading desired up to 1000 volts can be handled with the use of proper value external resistors.

Top ohm Scale for reading ohms 0 to 100,000. This arrangement requires in circuit, a 9 volt battery and 8,950 ohm resistor.

Dull black finish bakelite case, with front flange 3¾" diameter. Case body diameter 2¾". Case depth, back of flange 1¾". Overall with screws 1¾". Four binding post connections, 2 for A. C., 2 for D. C. Externally mounted shunt provided for connecting in when D. C. readings are made.

Weston Model 506 D.C.



2 Inch Cases 1¾" deep
 Miniature flush type panel instruments with characteristics similar to the larger Weston ¾" inch line. Supplied with wide or narrow flange metal cases or wide flange bakelite cases. Narrow flange metal cases sent unless otherwise specified.

Article Number	Milli-Res.	Approx. Resist.	Article Number	Milli-Res.	Approx. Resist.
3C9214	5	8.5	3C9219	100	.5
3C9215	10	3.2	3C9220	150	.33
3C9216	15	1.5	3C9221	200	.25
3C9218	50	1	3C9222	300	.10
			3C9223	500	.1

List Price, \$7.50.
YOUR PRICE **\$5.51**
 3C9210 1 27 3C9211 1.5 18
 List Price, \$8.50.
YOUR PRICE **\$6.27**

Permanent magnet, moving coil type. Accurate within 2%.

Model 506 Voltmeters

Approximate resistance: 3 to 150 volts, 125 ohms per volt; 200 volts, 200 ohms per volt. Dimensions: body diameter 2¾"; overall 2¾".

Article Number	Volts	Scale Div.	Article Number	Volts	Scale Div.
3C9183	3	30	3C9187	10	20
3C9184	5	25	3C9188	15	30
3C9186	8	40	3C9189	50	25

Article Number	Volts	Division	List Price	Your Price
3E9190	100	20	\$8.50	\$6.24
3E9191	150	30	9.75	7.16
3E9192	200	40	11.50	8.35

Weston Model 517 A. C. Voltmeter
 150 Volt; 15,750 ohms total resistance. Approximate 10 mill full scale, 2" diam. 2¾" deep.
3E9245—List, \$9.75.
YOUR PRICE **\$7.16**

Model 476 A. C. Instruments



Movable iron type. Accuracy within 2%. Dimensions—bakelite case; body diameter 2¾"; overall diameter to outside of flange 3¾"—Metal case; body diameter, 2¾"; overall diameter 3¾".

Model 476 Weston repulsion iron vane instruments are not to be employed on frequencies exceeding 200 cycles. When used on D.C. reverse polarity to observe average deflection of indicator.

Model 476 A.C. Voltmeters

Article Number	Range	Ohms	Article Number	Range	Ohms
3C9141	1.5	3	3C9147	15	14
3C9142	2	4	3C9148	20	28.3
3C9143	3	6	3C9150	30	26.3
3C9144	5	10	3C9151	50	52
3C9145	8	10.5	3C9152	100	105
3C9146	10	14			

List Price, \$9.00.
YOUR PRICE **\$6.61**

3E9153—Range 0-150 volts; Resistance 105 ohms per volt. List Price, \$11.25.
YOUR PRICE **\$8.27**

A. C. Milliammeters—Ammeters

Article Number	Milli-Resist.	Approx. Res.	Article Number	Milli-Resist.	Approx. Res.
3C9176	15	2000	3C9179	100	28
3C9177	25	600	3C9180	250	4.7
3C9178	50	175	3C9181	500	1.1

List Price, \$9.00.
YOUR PRICE **\$6.61**

Article Number	Amps.	Approx. Resist.	Article Number	Amps.	Approx. Resist.
3C9166	1	.2030	3C9170	10	.010
3C9167	1.5	.082	3C9171	15	.0058
3C9168	2	.05	3C9172	20	.00219
3C9169	3	.024	3C9173	20	.00162

List Price, \$9.00.
YOUR PRICE **\$6.61**

Weston Model 425—Galvanometer



Thermocouple Galvanometer for use on A.C. current only. Very efficient high grade instrument—may be used on any frequency without impairing its accuracy. Approximate weight 6 ounces.

3C9399—Accuracy: Within two scale dimensions. 11 Milliamperes. 5.2 ohms. List Price, \$18.00.
YOUR PRICE **\$13.23**

Weston Model 425—Milliammeters

Article Number	Milli-amps.	Safe Carrying Capacity	Approx. Res. Ohms
3C9396	250	600	5.2
3C9397	250	600	2.52
3C9398	500	1000	1.18

List Price, \$18.00.
YOUR PRICE **\$13.23**

Weston Model 600 High Sensitivity Instruments



Most sensitive line of rugged small instruments made. Similar in appearance to Model 301. Flange diam. 3.5". Body diam. 2.8". Accuracy 2% on D.C., 5% with rectifier on A.C. Bakelite Case.

Stock Number	Range	Res. Ohms	List Price	Net Price
3E9410	30	2000	\$26.00	\$19.11
3E9411	50	2000	23.50	17.30
3E9412	75	1750	23.50	17.30
3E9413	100	1300	21.00	15.43

Stock Number	Range	Res. Ohms	List Price	Net Price
3E9417	100	3700	26.00	19.11
3E9418	200	2500	19.25	14.16
3E9419	500	2300	19.25	14.16



NEW SUPREME

NEW MODEL "333" ANALYZER

Make More Money Servicing With This New Instrument

Build your reputation with Supreme. The new Model 333 will simplify and speed up your service work. The fine appearance of the 333 identifies you as a professional serviceman. Know the pleasure of working with a precision

instrument. The publicity resulting from the excellent work you can do with the 333 will win you many new customers. Order your Model 333 Supreme now! Advertise that you own the best testing equipment available.

Important Measurements and Tests Made with the Supreme-333

Measure Resistance
Over 1 Resistance Ranges:—0 to 1000, to 10,000, to 100,000, to 1,000,000 ohms.
Check Current
Six milliammeter ranges:—0 to 5, to 25, to 125, to 250, to 500, to 1250 Ma.
Determine Voltage
Six D.C. Volt ranges:—0 to 5, to 25, to 125, to 250, to 500, to 1250 V.

Audio Output Tests
Six A.F. Volt ranges:—0 to 5, to 25, to 125, to 250, to 500, to 1250 V.
Measure A.C. Potential
Six A.C. Volt ranges:—0 to 5, to 25, to 125, to 250, to 500, to 1250 V.
Test Condensers
Over 3 Capacity ranges:—0.0025 to 0.125; 0.025 to 1.25; 0.25 to 12.5 Mfd.

Quick Point to Point Tests

The Supreme 333 Analyzer makes point to point testing easy. Resistance, voltage and current analysis can be made through the 8 wire analyzer cable plugged into any radio tube socket. Supreme pin jacks on the Analyzer panel permit use of headphones, loudspeakers, or microphones in the circuit under test without removing the radio chassis from its cabinet. Tube testing is accomplished with a grid-shift battery and plate current reading.

Fine Precision Meter

Full Size d'Arsonval 3/4" meter with a compensated crystalline rectifier for A.C. measurements. Both A.C. and D.C. readings appear on the same uniformly divided scale. (A patented Supreme feature.) A capacity block prevents D.C. from recording on the A.C. circuit. The high resistance and lack of a rectifier in the D.C. circuit prevents A.C. from registering through D.C. pin jacks. Capacity measurements appear on the uniformly divided scale. Output tests made direct.

Price and Terms

1E2566—Supreme Model 333 Complete with Leads Adapters and operating Instructions

\$387¹

Dealers' net cash wholesale price ...
Time Payment Terms: \$15.00 down, five monthly payments of \$5.65 each. Write for contract.

Resistance Ranges Provided

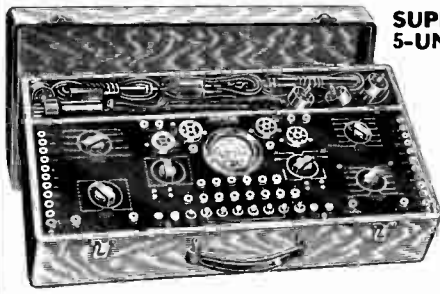
Resistance measurements between any points in a tube circuit! Measure any resistance up to 0.1 megohm on one of the three resistance scales which operate from the self contained battery. The range can be increased ten times,—to a million ohms,—with the addition of an external 45 volt battery. The self contained battery performs a dual function. In addition to energizing the ohmmeter, it may be quickly connected into the control grid circuit for mutual conductance tests. The advantage of making resistance and mutual conductance tests appeals to experienced servicemen.

Measure Any Voltage

Up to 1250 volts A.C. or D.C. between any two points in any radio circuit! Four sockets take care of all standard 4, 5, 6, and large or small 7 prong tubes. All the socket terminals and the top-cap connection are wired through an 8 wire analyzer cable. For making current measurement tests, push buttons are provided on the panel to open any circuit (except the filament) and permit the pin-jacks above the button to be connected to the milliammeter circuit. Short leads are provided for this purpose, and to couple the meter range tip jacks to permit analytical tests.

Perpetual Tester

No matter what circuit changes are made, the Supreme Model 333 remains up to date. All the meter ranges are fundamental and independent of the analytical portion of the tester. The Supreme 333 will serve your needs for years to come. Measures capacity between 0.0025 and 12.5 Mfd. The 60 cycle A.C. supply is used with the capacity measurements. All voltage, current, and capacity readings appear on one simple scale—no zigzag or offset A.C. scales to confuse the eye. This coordination of the A.C. and D.C. scale is a patented Supreme feature.



SUPREME MODEL 444 5-UNIT RADIO TESTER

Combines in one instrument the features of Analyzer, Tube Tester, Oscillator, Ohmmeter, and Capacity Checker. If you will add up the cost of the Model 333 Analyzer, a Model 45 Tube Tester and a Model 60 Oscillator you will find that this combination instrument, (which includes these 3 units), offers a saving in first cost and, in addition, is much more convenient to carry on the job than three separate instruments—all of which are needed on service calls.

1E2564 SUPREME MODEL 444 Five Unit Radio Tester. Dealers' Net Cash Price **\$87¹**
TIME PAYMENT TERMS:—\$30.00 Down and Five Monthly Payments of \$13.65 Each.

Improved Oscillator

The OSCILLATOR CIRCUITS of the Model 444 are tuned by a tap switch arrangement so that calibration is not required, the frequency values being marked on the panel. Eleven fundamental frequencies between 130 and 1875 kilocycles are provided with a tuning signal in each of the 20, 40, and 80 meter short-wave bands. Oscillator may be operated with either 110 Volt A.C. or D.C. power supply, and is completely shielded with a variable output attenuator. When operated with A.C. power supply 100% modulation is automatically provided.

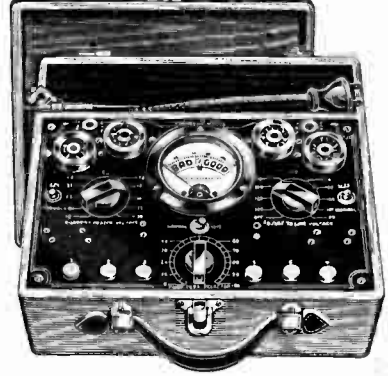
All of the controls and parts of this tester are symmetrically arranged on a bakelite panel which is mounted in a beautifully finished hardwood carrying case, size 22 1/2" long x 11 1/2" wide x 6 3/4" deep, with detachable cover. A compartment is provided for the accessories which accompany the Tester. Operating instructions furnished.

The Model 444 incorporates new FREE REFERENCE POINT SYSTEM OF ANALYSIS with all circuits of radio tube sockets extended through Analyzer cable to four moulded sockets and to convenient terminals to which any range of the meter may be applied for current, voltage, and resistance measurements.

The ANALYZER CIRCUITS of the Model 444 are virtually a duplicate of those described under the Model 333 Analyzer. Same voltage, current, resistance, and capacity ranges. (See Table above). Also the same system of analyzing is used.

The TUBE TESTING functions employ a combination of the features of the Models 45 and 55 Tube Testers. A Gas Test is provided by inserting a high resistance in the circuit so that gas current will cause a change in grid voltage, thereby also causing a change in plate current which can readily be observed on the plate milliammeter. Provision is also made for testing individually the elements of new type tubes having more than one tube in a single envelope, such as the type 55, 2B6, etc. A Short Checker of advanced design is included.

Supreme Model 35 Tube Tester



1E2565—Supreme Model 35 Tube Tester Complete.

YOUR PRICE **\$29³⁵**

TIME PAYMENT TERMS:—\$10.00 down and 5 monthly payments of \$4.60.

The latest Supreme achievement. A low priced, easy operated, tube tester built on the same general circuit design of the Model 85 and differing only in physical appearance and in not having the short checker employed in the 85. Four sockets, three simple operations, and you accurately test all the standard tubes.

No mathematical computations to determine tube quality necessary—Three color zones on the meter dial indicate GOOD, DOUBTFUL, or BAD, where your customer can plainly see the result of the tests. It is impossible to harm the instrument by incorrect operation.

Tapped Primary Power Transformer. Steady voltage regardless of the power drain of the tube under test is possible with the tapped primary voltage regulation. Ten taps ranging from 95 to 125 volts assures you of always getting the same test indication on a given tube. A self contained 201A tube acts as a linear rectifier for the 3/4" d'Arsonval D.C. meter when the A.C. Line test button is pushed.

The instrument panel is genuine bakelite with silver lettering. A sturdy white oak quarter-sawn natural finished case size 11" long x 9 3/4" wide x 5 3/4" high makes the Model 35 an impressive and confidence inspiring tube tester.

Easy Terms

You may use a "Supreme" Instrument while you are paying for it, if you wish—They are available on Time Payments to responsible Dealers and Servicemen. If you wish to purchase one of these write us for time payment contracts and application blanks. Fill them out and return them to us with the down payment as shown in this catalog. However we wish to point out that you make a substantial saving when buying for cash.

Free Trial

You can try any Supreme Instrument at no risk. Send us your order. If you are not thoroughly pleased with its performance return the instrument to us in its original good condition within five days after you received it and if you desire, your money will be cheerfully and promptly refunded. No greater recommendation for this line of fine instruments can be given—We know that once you have had the opportunity to use one, you will not want to part with it.

INSTRUMENTS

45 Tube Tester

Can you test ALL the new tubes? Can you test the more common types such as 24s, 27s, 45s, etc. and really determine the difference between a "good" tube and one that is only "Fair"? If you are not equipped to do this, think how many sales you are losing and how much money is slipping away from you just because you are not showing your customers that new tubes are needed, even though those in the set still play.

Simplified Modern Tester

The Supreme Model 45 is a Tube Tester for the Radio Serviceman. It employs the point-to-point method of making circuit connections similar to those utilized in the new Supreme Analyzers. Each element in the tube is connected to the contact arm of an individual selector switch so that the proper circuit connections can be made to each element REGARDLESS OF ITS TUBE-BASE OR TOP-CAP. . . . a 100% obsolescence-proof Tester for all tubes using seven prongs or less.

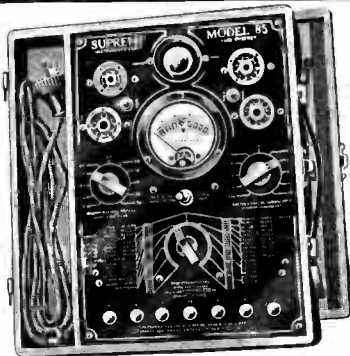
All socket holes are numbered in accordance with R.M.A. standards. There is a rotary switch for each of these socket terminals bearing a corresponding number. The contact arm of this switch is directly connected to the socket terminal having the same number. By rotating the contact arm of the switch, the tube element located at the particular number corresponding to the switch can be connected to any part of the circuit or to any desired voltage. In this manner if a tube has a plate, for example, where the cathode is usually located, the plate element at the cathode location can be connected to a suitable plate voltage instead of to the B minus position in the circuit to which the cathode is ordinarily connected. A COMPLETE CHANGE IN THE LOCATION OF THE TUBE ELEMENTS MAKES NO DIFFERENCE TO THE SUPREME MODEL 45.

Has a highly insulated bakelite panel beautifully lettered in silver. The entire assembly is enclosed in a handsome quartered white oak carrying case which includes a compartment in the back for the line voltage cord and other accessories. Size 11" L x 9 1/2" W x 5" high. A chart showing the switch settings and tube readings for all the tubes on the market today is placed on the inside of the cover. As new tubes are announced new charts will be supplied.



1E2563—Supreme Model 45 Portable Type Tube Tester. **\$28.91**
DEALERS NET CASH PRICE

Time payment terms: \$10.00 down, Five monthly payments of \$4.49 each. Write for time payment contract.



Supreme Model 85 Tube Tester

1E2555—Supreme Model 85 Tube Tester Complete **\$39.15**
YOUR PRICE

Time Payment Terms—\$15.00 Down and Five Monthly Payments of \$5.85 Each

A tube tester that sells tubes! d'Arsonval 3 1/2" meter shows tubes to be either Good or Bad. Neon Lamp short and leakage indicator for all tube elements. Only three simple operations to test a tube. Only four sockets. Emission type test. Tapped transformer type line adjustment, for 98 to 125 Volt 60 cycle service. Supplied in a quarter sized oak carrying case. Tests all tubes listed in the Radolek Tube Chart.



New "61"

All Wave SUPREME Oscillator

1E2551—YOUR PRICE **\$24.45**

Covers 100 K.C. to 4 Megacycles. Uses fundamental and harmonic signals. Precision type tuning dial laboratory calibrated. 100% modulation at frequency of A.C. line supply. Fixed attenuation assures positive frequency stability and full output at all times. Completely shielded with aluminum. Housed in a hardwood case with a bakelite panel attractively marked. Portable, with leather strap. Power supply is isolated from the A.C. line with a transformer, permitting direct connection of the oscillator to A.C.-D.C. sets without danger of shorting. Supplied with a type 31 tube, and a shielded antenna-ground cable. For use with 110-120 volt 60 cycle. A.C. A hand calibrated chart is supplied with each oscillator.

New SUPREME STANDARD DIAGNOMETER

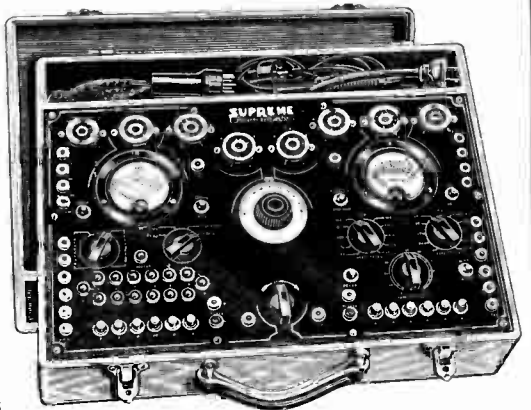
The Finest Test Instrument You Could Desire

Dominant Features

1. Point to Point Analysis
2. GOOD-BAD Tube Test Dial
3. Line Voltage Regulator
4. Mutual Conductance Test
5. Protected Tube Meter
6. Adapters Not Necessary
7. For 1 1/2 to 30 Fil. Volts
8. Tube Short Checker
9. Modulated Oscillator
10. Completely Shielded
11. Stabilized Circuit
12. No Frequency Drift
13. Capacitor Leakage Tests
14. No D.C. Register on A.C.
15. No A.C. Register on D.C.
16. d'Arsonval 3 1/2" Meters
17. Simplified Tube Tester
18. Oversize Transformer
19. Analyzer Ground Circuit
20. Flexible For Future Use
21. Ohm Battery Compensator
22. Uniform A.C. Scale
23. Complete Instructions
24. Capacity Measurements
- Triple Range 0.0025-0.125, 0.025-1.25, 0.25-12.4 Mfd. Capacity.
25. Triple Range Ohmmeter, with Self Contained Batteries, Range 0-1000-10000-100,040 ohms
26. Six A.C. Voltage Ranges: 0-5-25-125-250-500-1250 volts. (Also for Output Tests.)
27. Six D.C. Voltage Ranges: 0-5-25-125-250-500-1250 volts.
28. Six D.C. Milliamper Ranges: 0-5-25-125-250-500-1250, Mills.

The Supreme Multimeter is an exclusive patented feature with all A.C. and D.C. readings on the same uniform scale.

The Precision Calibrated Oscillator provides fundamentals over the lower frequency ranges and powerful harmonics over the high frequency ranges. 60 cycle modulation, perfect attenuation at any volume level. Complete with all instructions.



1E2566—Supreme Standard Diagonometer, for 110 A.C. Dealers Net Wholesale **\$97.95**
CASH PRICE

The New Supreme Standard Diagonometer designed especially for the professional radio serviceman—it is the most complete piece of testing equipment offered under \$100. It combines in one instrument, a complete Analyzer, Tube Tester, Oscillator, Ohmmeter, Megohmmeter, Output meter, Voltmeter, Milliammeter and Capacity Checker.

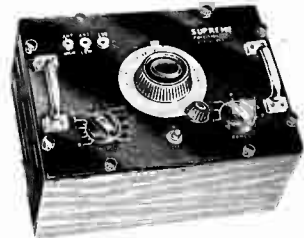
With its Point-to-Point, direct analysis or overall performance test may be made. In addition to testing tubes for quality and internal shorts, up to 90,000 ohms. Case size 18 1/2" L x 11 1/4" W. x 6 3/4" High.

SUPREME Precision Multiwave Signal Generator Model 180

Portable Oscillator. Electron Coupled. Battery (self-contained) operated. An Accurate Modern Test Instrument for Precision Radio Service.

10 Superior Features

1. Circuit. Electron coupled circuit with seven sets of coils with seven fundamental ranges.
2. Carrier Frequency Range of 90 K.C. to 22 Megacycles.
3. Modulation. Separate modulator stage that modulates the carrier frequency approximately 50% at 400 cycles.
4. Frequency Calibration. Each Signal Generator is individually calibrated at all frequencies with a guaranteed accuracy of 1/2 of 1%.
5. Stability. The calibration of the Signal Generator is independent of moderate variations of plate potential and external loads.
6. Double Peaks. No misleading double peaks, this is accomplished by proper design of inductors and amount of feed-back.
7. Tubes. Two tubes, one type 32 utilized as an oscillator and one type 30 as a modulator.
8. Power Supply. Four batteries are required, two 1 1/2 volt filament batteries and two 2 1/2 volt "B" batteries.
9. Power Consumption. A total power consumption of 0.315 watts. Insures long battery life.
10. Stray Fields. The Signal Generator and power supply are completely shielded, eliminating stray fields.



Size 11 3/4" x 8 1/4" x 5 3/4" Shpg. wt. 19 lbs. Beautiful Oak Cabinet. Bakelite Panel clearly engraved.

1E2550—Model 180, with tubes, and batteries. **\$58.75**
YOUR PRICE

Write for time payment price.

Improved Model RCA Oscillator

Lower Price
Extended Range

Type TMV-97-B, Range
90 to 25,000 K.C.

NET PRICE

\$29.50

Less Batteries

**A Full Range
Test
Oscillator!**



Specifications

A plate modulated tuned grid circuit using two type 30 tubes is employed. The A.F. modulator tube produces a 300 cycle note, modulating the R.F. oscillator 50%. Two blinding posts are employed for the output circuit which is attenuated by a smooth control of the potentiometer type. Batteries required are: 1 2 1/2 volt "B" battery and 1 standard size 1 1/2 volt "C" battery which provides current for the two type 30 tubes in series. Entire oscillator and battery equipment enclosed in a black finished aluminum case provided with a leather carrying handle. Weight only 5 lbs. including batteries. Size of base, 9 3/4" wide, 4 1/2" deep and height overall 8 1/2".

Produces 8 fundamental frequency ranges as follows: 90 to 150 K.C.—150 to 330 K.C.—330 to 720 K.C.—720 to 1460 K.C.—1460 to 3050 K.C.—3050 to 7100 K.C.—7400 to 14300 K.C.—14300 to 25000 K.C. Range selector switch is located on the front panel and plainly marked. Variable range tuning dial is an adjustable vernier type calibrated in frequency to an accuracy of 3% plus or minus. No special charts required.

IE2505—With tubes, less batteries.

YOUR PRICE \$29.50

IE2506—Complete with batteries.

YOUR PRICE \$30.71

CONFIDENCE

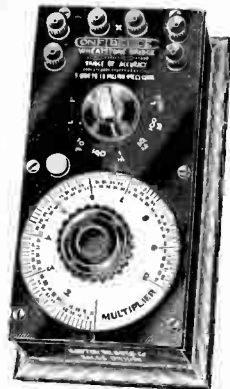
Wheatstone Bridge Model X **\$19.85**

Now Only

Less Batteries

A genuine Wheatstone Bridge for your "Lab" at the lowest price ever offered. Designed to use your own sensitive milliammeter or a single head-phone to indicate a balanced condition of the bridge. Will accurately measure any resistance between 0.1 ohm and 10 megohms! No mathematics or formula to work out—read resistance directly on the big precision calibrated dial. 3200 possible readings of exact resistance compared to 300 exact readings on the ordinary ohm-meter. Accuracy, independent of battery voltage, within 1% at all times. The Wheatstone Bridge system of resistance measurement is the only method approved by leading colleges and scientific laboratories! Supplied in a 5"x9" case, 4" high with space for 2 "C" batteries.

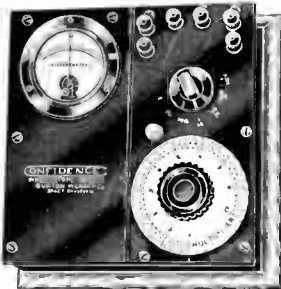
IE2541—Complete, less battery, Model X.
YOUR PRICE \$19.85



Wheatstone Bridge

With Galvanometer

Model Z



Confidence Wheatstone Bridge with a sensitive d'Arsonval galvanometer and a larger case which has space for a 2 1/2 volt "C" battery. This increased battery voltage makes the selection of the exact balance point for high resistance measurements more precise than with Model X. You need a Wheatstone Bridge for exact resistance measurement. Correction of bias resistor values as given in the Radolek Tube Chart, with the Confidence Wheatstone Bridge will often double the efficiency of a radio receiver, intermittent reception due to contact resistance or shorting I.F. coils can be quickly located. A business promotion plan involving the use of the Confidence Wheatstone Bridge is offered to each purchaser. Details supplied on request. You can increase your earnings with a Confidence Wheatstone Bridge.

Supplied as illustrated, less 2 1/2 volt "C" battery.

IE2542—Model Z \$29.95
YOUR PRICE

A Master Tube Seller "Confidence Special"

"Four simple steps and you've tested a tube on the Confidence Special!"

1. Adjust for correct line voltage.
 2. Point selector to proper position.
 3. Put tube in the proper socket.
 4. Read the tube condition on meter.
- Tests over 130 different types of tubes including special Areturus, Kellogg, Kenrad, Majestic, Sparton, and Wunderlich types—all of which are arranged numerically on a complete tube chart furnished in lid. Accurate tests involving every element of every tube indicate true tube performance. The clearly understood "Good"—"Bad" marking on the dial will be appreciated by your customers.

Red pilot lamp indicates shorts from plate or screen grid to any other element. Special Cathode to Heater short element short test included.

Panel of attractive Veri-chrome finish. Black leatherette case with slipp-hinged lid, size 14"x9"x5" deep. Designed for 100 to 130 volts, 60 cycle, A.C.

IE2539— \$33.75
YOUR PRICE



Philco Signal Generator

Portable Model 024

Complete with Batteries and
Type 30 Philco Tube

3E2507— **\$13.50**
YOUR PRICE

For Intermediate and Broadcast
Frequencies 110 K.C. to 2000 K.C.

Convenient Size

A portable self contained oscillator at a price within the reach of every service man. This is the smallest and most rugged signal generator for general service work we have seen. Stands only 7" high, 5" wide and 5" deep. Contains a 2 1/2 volt "B" battery, firmly anchored in place, and uses a single No. 2 Flashlight cell to supply the type 30 tube. The low voltage of the Flashlight cell assures maximum life from the tube. The cell may be replaced through a side port without opening the oscillator case. Completely shielded with etched brass panel and convenient carrying handle.



Technical Features

Dual tuning range: Range "A" provides fundamental frequencies between 110 and 250 K.C. and strong fourth harmonics from 440 to 1000 K.C. Range "B" provides fundamental frequencies between 220 and 500 K.C. with fourth harmonics between 880 and 2000 K.C. Self modulated to a pleasing audio tone of indeterminate

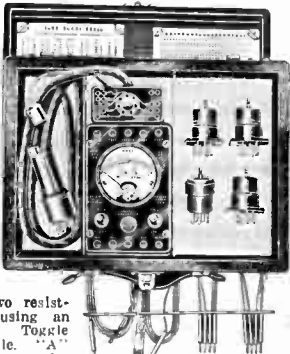
value. Accuracy of frequency selection within 10% of scale designation. Well within the tolerance limits of commercial broadcast receivers. Potentiometer type output attenuator. Shielded Antenna lead with universal clip for connection to receiver. Permits aligning any broadcast superheterodyne or R.F. type radio set.

Weston Selective Set Servicer Model 698

Modern Field Analysis Equipment! Employs the Weston Method of Selective Analysis which is a combination of "Cold Cathode" Point-to-Point testing and of "Hot Cathode" voltage and current analysis. An Analyzer Plug and cable brings the circuit of any tube socket to the Selector Unit on the rear of the multi-range meter. Short "Jumper" cords from the meter to the Selector Unit permit reading A.C. or D.C. voltage, D.C. mills, or D.C. resistance between any elements of the circuit under test.

Multirange 3" Weston Meter: Measures A.C. or D.C. volts, at 1000 ohms per volt on four ranges, 0-7 1/2, 15, 150, 750, volts. D.C. only, 0-7 1/2, .75 Milliamperes. Two resistance ranges, 5000, 500,000 ohms using an enclosed 4 1/2 volt "A" battery. Toggle switch shifts from A.C. to D.C. scale. "A" Battery Adjustment rheostat compensates for battery deterioration. Complete Selective Set Servicer supplied in a black leatherette case, 12 1/2"x10"x5" high. Slip hinge removable lid. Complete instructions and tube base chart included.

Nothing else to buy. Complete Modern Field Analysis Equipment.
IE9429— \$34.50
YOUR PRICE



Weston Jewell Model 540 Sylvania Tube Seller

A compact and easily operated portable tester for all 4 and 5 prong tubes. Simple adapters listed elsewhere in this catalog permit tests of all other type tubes on this high quality instrument. Uses Jewell "Index of Merit" 3 1/2" meter, (20 Mill. movement). Has line voltage adjuster, inter-element short checker, and tube voltage selector. Filament voltages of 1 1/2, 2, 2 1/2, 3, 3.3, 5, 6.3, and 7.5 volts are available. Case is of dark green leatherette with removable lid. Size 12"x9 1/2"x5 1/2". 4 1/2 ft. A.C. Crd. This instrument makes an excellent foundation for building up a special panel tube tester. The meters alone are well worth the exceptionally low price we ask.

3E9445— \$17.50
YOUR PRICE



New Clough-Brengle All-Wave Model OA Electron Coupled Oscillator



**140 Fundamental Frequencies
Over 860 Strong Harmonic Waves**

- Intermediate**
 ● Broadcast and
 ● Short-Wave

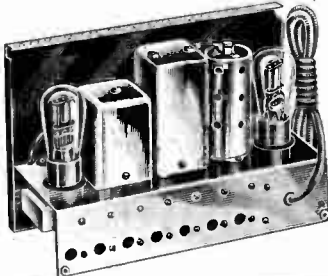
A Modern Up-to-Date New Service Test Oscillator

This is the 1935 model oscillator with a new C line filter, sharp peak tuning coils, 100% attenuator, 400 cycle modulation. Just the oscillator you need for servicing the new sets.
Three tubes; a type 37 modulator tube coupled through a special choke to the 36 oscillator tube, makes a stable efficient circuit with negligible frequency drift over years of service.
Independent trimmers on each wave band permit accurate calibration against broadcast signals at any future time. Calibration is independent of line voltage or frequency.

Easy To Read Accurately
 Simplified controls permit accurate selection of any of the fundamentals and easy identification of the major harmonic signals. The modulator control (upper center in the illustration) gives a wide range of output from zero to maximum signal strength.

Self contained power pack for A.C. or D.C. line supply eliminates the heavy expensive batteries employed in most oscillators and assures a steady output signal of constant intensity. A 36 tube acts as a rectifier.
400 Cycle audio modulation is clear and pleasant to work with. It is the correct frequency with which to adjust the dynamic speaker cone. Any rectifier or thermo-coupled output meter will give accurate reading on the 400 cycle tone.

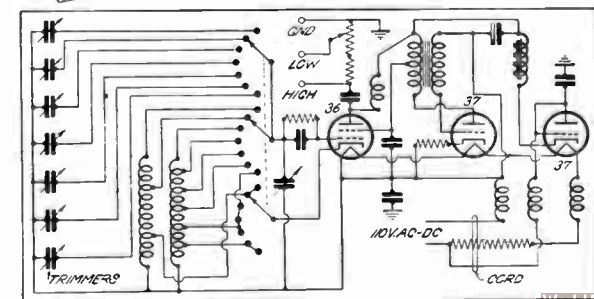
Expertly Engineered
 The Interior illustration and diagram below show clearly the superior features of this modern service instrument. The triple set of choke coils in the line circuit effectively block radiation of unwanted harmonics into the power supply system. Capacity insulation to chassis ground prevents danger of shock or short circuits. For 110 to 120 Volts, A. C. or D. C.



Clough-Brengle Model "OA" Test Oscillator complete with tubes.

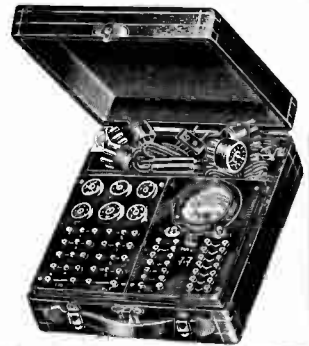
3E2572—List \$54.50.
 YOUR PRICE

\$ 32.05



Famous Analytical Tester

Consists of the Famous "88" and "77" (See description below) in one case with space for the adapters, plugs and test leads. Case is of durable black fabricoid with a slip hinged cover, leather carrying strap and satchel type latch. The two individual units are not fastened in place and may be quickly lifted out for individual use. This type service equipment is particularly suited for tracing trouble in automobile radios. Its professional appearance makes a good impression upon customers when servicing radios in their home. This Analytical Tester with a good oscillator will permit you to locate trouble and make repairs on more than 98% of all radio sets. Size 9 3/4" x 10 1/2" x 1" deep.



IE2522—Complete
 YOUR PRICE **\$32.34**

Famous "88" Circuit Checker

For "Selective Analysis" Testing

A compact circuit analyzer with plug, adapters, and circuit opening push-buttons. Has five individual sockets besides one small seven hole socket for the 5 ft. Analyzer cable and plug. Four adapters match the small seven prong latch type plug to any tube socket, and top-grid connection. Eight circuits pass through double pin-jacks on the panel. Small red push-buttons between each pair of pin-jacks may be pressed to open any circuit for current measurement. Voltage and resistance measurements may be made between any of these circuits. To be used with the "77" or any good volt-ohm-milliammeter. Size 4 1/2" x 7 3/4" x 3/4" deep.



IE2523—Complete
 YOUR PRICE **\$9.12**

Famous "77" AC-DC Unitmeter

A multirange volt-ohm-milliammeter for both A. C. and D. C. volts and mls. Uniformly spaced pin-jacks and a durable set of test leads with bakelite insulated connector to fit the pin-jacks make this the handiest instrument of its type on the market. Genuine 3 1/2" d'Arsonval meter with hand calibrated copper-oxide rectifier, 1% tolerance wire wound shunts and multiplier resistances. A.C.-D.C. Volt ranges, 0 to 5, 10, 50, 100, 200, 500, and 1000 volts. A.C.-D.C. current ranges, 0 to 10, 25 and 100 mls. 0 to 1 Mill. D.C. Only. Resistance ranges 0 to 1000 ohms, to 10,000, to 100,000 ohms. Size of case 1 1/2" x 7 3/4" x 3/4" deep.

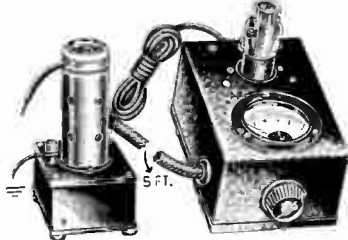


IE2524—Complete
 YOUR PRICE **\$23.23**

Vacuum Tube Volt Meter

0.1 to 3 Volts A. C.
 Of Any Frequency!

The Clough-Brengle VTVM consists of a power pack, microammeter, and movable vacuum tube signal collector, in a stable modern circuit for the use of advanced servicemen, design engineers, and universities.



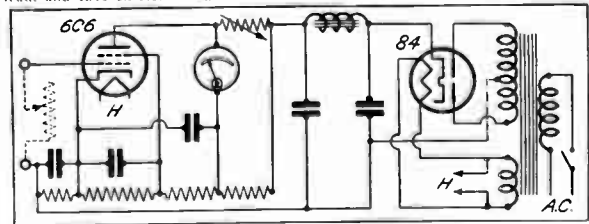
IE2574—Complete
 YOUR PRICE **\$38.22**

Specifications

Range 0.1 to 3 volts without drawing current from the circuit being measured. Up to 30 volts at 33,333 ohms per volt may be accurately determined. Meter is calibrated against Bureau of Standards tested Precision Standard on 60 cycle line. Frequency error less than 1/2 of 1% under 2000 K.C. less than 4% at 4000 K. C. Rheostat adjusts plate circuit bucking current for changes in line voltage and zero adjustment of meter. 5 ft. flexible cable between units permits location of voltmeter close to the circuit under test. Supplied complete with 1-6C6 tube, 1-84 tube, 1 grid lead, 1 ground lead, and tube shield. Diagram below.

Applications

1. Locating intermittent circuit breaks: The VTVM measures the carrier wave of an incoming signal at any point in the circuit where the carrier is amplified to 0.1 volt. Thus by touching the 6C6 grid circuit to successive RF grids, the break can be located quickly.
2. Accurately measures R.F. or A.F. gain; efficiency of AVC circuits, etc.
3. Locates broad tuning stages, in conjunction with an oscillator.
4. May be employed to measure inductive reactance at any frequency. Determines impedance in ohms. Complete instructions furnished.



Radolek's New Wheatstone Bridge

3E2544—
YOUR PRICE **\$1.95**

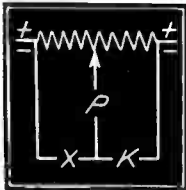
Consists of a 1000 ohm potentiometer mounted in a moulded bakelite case. A special scale etched on aluminum indicates proportional ratios between known and unknown electrical values. Operates on A.C. or hand-Inserted D.C. Requires a sensitive headphone to indicate electrical balance.

Application
The Wheatstone Bridge method of electrical measurement by comparison of the ratios of a known value to an unknown is the most accurate system known. With the Radolek New Wheatstone Bridge, you can measure impedance, capacity, resistance and compare the audio output of two amplifiers employing the same input. A selection of non-inductive precision resistors is recommended as an accessory to the wheatstone bridge.

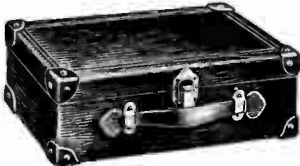


Specifications

Moulded Brown bakelite case, 5"x2 3/4"x2 1/4". 1 Watt wire wound 1000 ohm precision potentiometer. Scale accurately divided. Four pin-jacks for phones and current circuit. Two pair of flexible leads for connection to the known and unknown values are supplied.



Fabrikoid Tester Cases



These substantially constructed and durably covered cases are ideal for housing Testing Apparatus of one's own construction. Also often required to replace cases of Headrite Standard Testers which have become damaged through wear or accident. Model numbers indicate Headrite Testers they fit. Available in three sizes to meet a wide variety of needs. Fabrikoid cover with reinforced leather corners, carrying strap and rickled snap catch.

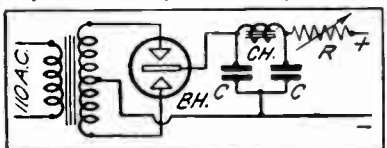
3E2609—Model 610-C. Size 1 1/2"x7 3/4".
YOUR PRICE **\$3.88**

3E2635—Model 410-C. Size 10 3/4"x6 1/4".
List Price, \$5.50.
YOUR PRICE **\$3.23**

3E2636—Model 1000-C. Size 13 1/2"x9 1/2"x4 1/2".
List Price, \$6.60.
YOUR PRICE **\$3.88**

Speaker Field Supply Kit

Kit consists of the essential parts with which to build a 30 watt 300 volt Dynamic Speaker Field supply to operate from 110-125 volt, 60 cycle A.C. Line. Finished unit will supply up to 100 milliamperes to a load of 3000 ohms or less. The power Rheostat (R in the diagram) permits adjustment for speaker fields of lower resistance. As many as 6-500 ohm speaker fields may be supplied



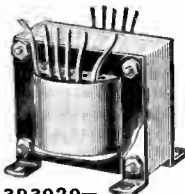
100 M.A. each (5 watts per field). Small portable carrying case supplied with the kit permits the most convenient arrangement of this compact A.C. operated D.C. speaker Field Supply Kit. A 5000 hour Eikon dry disc rectifier provides D.C. **3E3921—Complete Kit of Essential parts.**
YOUR SPECIAL LOW PRICE **\$7.25**

Modernize Your Tube Tester

Substitute a Modern Tube Tester Filament Transformer in your present tube checker! Employ a ten point non-shorting selector switch (Cat. Num. YC1640, \$1.82 net) with the Tube Tester Filament Transformer (3E3929, \$1.25 net) and you can rebuild your present equipment or design a new tester to suit your own requirements.

Tube Tester Filament Trans.

1 1/2, 2, 2 1/2, 3.3, 5, 6.3, 7 1/2, 15, 25, 30 volts; at 2 amps.



3D3929—YOUR PRICE \$1.25

For construction of tube testers or replacement in standard testers. Supplies the correct voltages for all types of tubes including the oldest types and all those just recently announced. Flexible 8" leads are color coded and diagram is included which gives all the connections. Dimensions: 2 3/4" high, 3" wide, 2 3/4" deep. Mounting hole centers 2 1/2"x1 1/2". Primary 115 volts at 50 or 60 cycles.

Bakelite Bar Knobs

Tapered Pointer Type for Test Instruments



Replace old style round knobs. Have standard 3/4" hole with set screw. White or black indicator. Furnished in black or brown bakelite. They add a factory appearance to home built instruments.

3E6815—1 1/4" Black.

3E6816—1 1/4" Brown.

3E6817—2 1/4" Black.

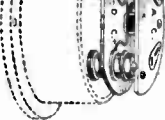
3E6818—2 1/4" Brown.

YOUR PRICE, EACH 9¢

10¢

Rectifier Assembly

For 1 M.A. Meters



3E2510—For Weston 301 or 267 meters. With 301 Dial Scale.

List Price, \$5.00.

YOUR PRICE, EACH \$3.25

A compensated rectifier for 1 MA of Arsonval meters with internal resistance of less than 50 ohms. Rectifier and compensator cause a minimum range of 5 volts A.C. Higher ranges of A.C. volts may be secured with external resistors of 1000 ohms per volt. Rectifier is "sandwiched" between micaarta discs equipped with soldering lugs and connections for mounting on the studs of a meter. The D.C. range of the meter is not effected and may be employed in the normal manner while the rectifier is in position.

Full Wave Copper Oxide Rectifier

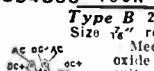
Type A 5 Milliamperes Capacity



Miniature copper oxide rectifier. Guaranteed the finest made. For converting A.C. to D.C. Instruments drawing less than 5 milliamperes to A.C. instruments. Insulated silk covered wire leads, plainly marked. Cross section 3/8" square. Mounting hole centers 3/8".

3D4855—YOUR PRICE \$2.15

Type B 20 Milliamperes Capacity

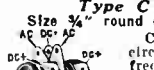


Medium miniature size copper oxide rectifier for use in A.C. circuits of less than 5000 cycles frequency and not to exceed 40 milliamperes D.C. current. Excellent for rectification of 110-115 volt A.C. current for field excitation of dynamic speakers with 2250 to 3000 ohm field.

Not recommended on electrolytics exceeding 600 volts. May be substituted for electrolytic rectifiers in Willard, Exide or Philco "B" Eliminators" within 40 milli. limits. Only servicemen familiar with copper oxide rectifier principles should attempt this replacement.

3D4856—YOUR PRICE \$1.88

Type C 40 Milliamperes Capacity



Copper oxide rectifier for A.C. circuits of less than 5000 cycles frequency and not to exceed 40 milliamperes D.C. current. Excellent for rectification of 110-115 volt A.C. current for field excitation of dynamic speakers with 2250 to 3000 ohm field.

Not recommended on electrolytics exceeding 600 volts. May be substituted for electrolytic rectifiers in Willard, Exide or Philco "B" Eliminators" within 40 milli. limits. Only servicemen familiar with copper oxide rectifier principles should attempt this replacement.

3D4857—YOUR PRICE \$1.75

Littelfuses

For Test Instruments

Especially designed for protection of delicate equipment. Break circuit in 1/1000 part of time required to burn instruments. May be used on 250 volts D.C. or A.C. the smaller sizes have been used without arcing up to 1500 volts D.C. on a 2KW supply. Illustration is actual size. Length 1 inch. Diameter 1/4 inch.



Stock Num.	Rating Amps.	Max. Load M.A.	Average Resist. on 5 Mils. Load	List Price Each	YOUR PRICE Dozen
3C6925	1/100	5	138 ohms	20¢	\$1.40
3C6926	1/2	15	65 ohms	20¢	1.40
3C6927	1/2	65	21 ohms	20¢	1.40
3C6928	1/2	100	3.5 ohms	20¢	1.05
3C6929	1/2	100	26 ohms	15¢	1.05

3C6930	1/4	200	6.2 ohms	15¢	1.05
3C6931	1/4	300	3.0 ohms	15¢	1.05
3C6932	1/4	400	2.5 ohms	15¢	1.05
3C6933	3/4	600	1.0 ohm	15¢	1.05
3C6934	1	1000	.36 ohms	10¢	.70

3C6935	2	2000	.14 ohms	10¢	.70
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For Radio Receivers and Amplifiers

Type 3AG for use in the 105-120 volt primary line of the power supply. Tested and approved by the Underwriters Laboratories. Illustration is actual size 1 1/4" long, 1/4" diameter.



Stock Num.	Rating Amps.	Volts For Max. Load	List Price Each	YOUR PRICE Dozen
3C6936	1	250	40 watts	70¢ per dozen
3C6937	1 1/2	250	80 watts	10¢
3C6938	2	250	150 watts	\$4.50 per C.
3C6939	3	250	200 watts	

3C6940	1/2	500	75 mils.	
3C6941	1/4	500	150 mils.	15¢
3C6942	3/8	500	300 mils.	
3C6943	1/2	500	300 mils.	\$1.05 per dozen

Littelfuse Mountings

Tinned shakeproof terminals and extra quality phosphor bronze, nickel plated fuse clips. Moulded bakelite base 1 1/4"x3/4"x3/8 inches.



3C6944—For Littelfuse 1 1/4"x3/4" inches.
YOUR PRICE, EACH 20¢
Per Dozen \$1.44

3C6945—For Instrument Littelfuse.
YOUR PRICE, EACH 15¢
Per Dozen \$1.05

Littelfuse Panel Type Mounting

For use where concealed wiring is required. Bakelite base. Clips as above. Studs 1 inch long, threaded 3/32 inch length. Nuts and washers included. For 1 1/4" fuses only.



3C6946—List each, 20¢.
YOUR PRICE \$1.40
Dozen

Littelfuse Lug Connector



Designed for temporary hook-ups, experimental set-ups, etc., in the laboratory or classroom where time is valuable. Made of nickel plated spring brass, the connectors slip on the fuse caps with a snug fit. The large hole, 3/8 inches in diameter will fit the binding posts of most instruments.

3C6947—List Price per pair, 15¢.
YOUR PRICE 9¢

Standard Radio Fuses

Fuse element enclosed in glass tube with brass caps on ends. Size 1 1/4"x1/4". Will blow at a 50% overload. Type 3A.G.

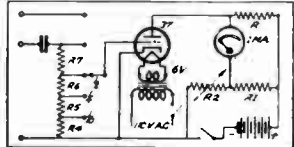
Per Box of 5, YOUR PRICE 15¢
Per Hundred \$2.75

Stock Number	Amps.	Stock Number	Amps.
3C6915	1	3C6919	4
3C6916	1 1/2	3C6920	5
3C6917	2	3C6921	10
3C6918	3	3C6922	15



Special Radolek Circuits

These circuit diagrams and parts lists were developed by the Radolek Engineering Department specifically for Radolek Servicemen and Dealers. The circuits have never been published elsewhere, however they may be printed in Radio publications where full credit is given the Radolek Company for development.

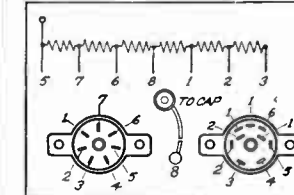


Vacuum Tube Voltmeter Kit of Essential Parts

Six volt filament lighting transformer for 110 volts A.C. Two 10,000 ohm precision resistors. 15,000 ohm potentiometer. Five Prong Socket. Five point shorting type switch. Four selected carbon resistors. DPST toggle switch. Mica Condenser. Three Tip Jacks. 5 1/2" x 8 1/2" bakelite panel and Portable Walnut Instrument case.

3E2450—Essentials Kit.
YOUR PRICE \$7.87

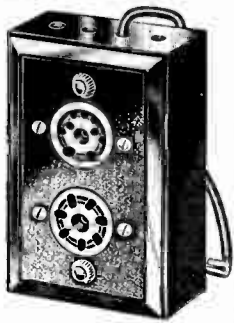
Radolek Portable Tube Short Checker Kit



A simplified tube short checker for use with any ohmmeter which will distinguish between 11,000 ohms and 12,000 ohms. Will detect cathode heater shorts up to 132,000 ohms. Any interelement short will instantly be indicated by a reading on an ohmmeter of less than 12,000 ohms. An open filament prevents any reading on the meter. Six 2000 ohm resistors are connected between the numbered terminals. "Hot" tube tests may be made by connecting an A.C. supply to terminals 3-4.

Radolek V. T. V. M.

Bridge type Vacuum Tube Volt-Meter! A balanced bridge type circuit that is exceptionally stable and easy to calibrate. Resistance R and RI must be wire wound precision type 10,000 ohm resistors. R2 is 15,000 ohms, wire wound. Initial adjustment requires setting R2 to equal plate circuit resistance of the 37 tube, indicated by "0" reading on the 0-1 Milliammeter. Presence of a signal across the grid circuit changes the internal resistance of the tube and causes current to flow through the meter. Normal range with 45 volts "B" supply 0.01 to 1 volt. A series of tapped resistors in the grid circuit permits multiplying this range approximately 10 times. The essential parts are listed in the adjacent column. Any make of type 37 tube or any 0-1 milliammeter listed in this catalog may be employed in this circuit. 45 to 90 volts "B" may be used.



3E2451—Kit of parts to make tube short-checker in compact style as illustrated. Complete instructions.

YOUR PRICE \$2.10

Neon Leakage Tester Kit

Consists of a neon bulb mounted in a bakelite case with protective resistors. With flexible A.C. cord in 110 to 120 volt line, standard "banana" pin tip test leads may be plugged into the insulated tip jacks and continuity tests may be made through resistors as high as 2 megohms. Without the A.C. line connected, the neon bulb forms a splendid polarity indicator on circuits carrying over 100 volts. Also excellent for locating high frequency ignition leaks in auto-radio installations. Uses three 25,000 ohm carbon resistors.

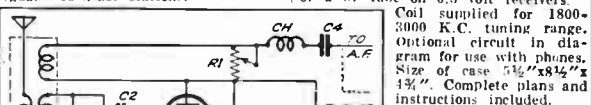
3E2452—Kit of Parts.
YOUR PRICE \$2.25



Radolek Police Call Alarm

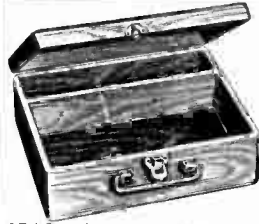
For Use On Any Radio Within 10 Miles of a Police Transmitter. Does Not Prevent Normal Broadcast Reception!

Radolek supplies complete parts to build this auxiliary detector for use with any radio to pickup local Police Calls while the regular Broadcast programs are being received. Essentially this device is a one tube receiver, deriving all its power from a standard radio set and using the audio amplifier of the standard set for producing loudspeaker volume. It should be tuned to the frequency of the local police radio station to bring in local police calls while listening to regular broadcast stations. No profit-eating trade-ins. You make both the manufacturer's profit and your regular retail profit. Order your complete Kit Now. Supplied with a neat walnut box. Tube is not included. Use a 56 on 2 1/2 volt sets or a 37 tube on 6.3 volt receivers. Coil supplied for 1800-3000 K.C. tuning range. Optional circuit in diagram for use with phones. Size of case 5 1/2" x 8 1/2" x 1 1/2". Complete plans and instructions included.



3E2453—Police Alarm Kit. Recommended resale \$17.50.
YOUR PRICE \$6.90

Walnut Analyzer Instrument Case



A professional type genuine walnut carrying case for your portable instruments. Takes standard 7" x 14" x 3 1/2" bakelite panel. Partition for panel support provides room for analyzer cable, test leads, etc. Inside dimensions 8 1/2" x 11 1/2" x 3 1/2" deep. Slightly-hinged cover has 1 1/2" inside clearance above panel. Metal handle, suitcase latch type catch. Lacquer finish without stain leaves the rich walnut grain with its natural appearance. This handy size case enhances the appearance of your custom built test equipment. Impress your customers by the professional appearance of your instruments.

4E10445—Walnut Analyzer Case.
YOUR PRICE \$245
 Panels listed on Page 93.

1/4 Watt Midget Precision Multiplier Resistors



Only 5/8" diameter, 1/4" wide. May be stacked on a 6-32 threaded stud as illustrated. These are the smallest precision resistors. Accurate within 1%. We particularly recommend precision resistors in the lower ranges of voltmeters.

Stock Number	Resist. in ohms at 1 MA	Volts	YOUR PRICE
3E8400	1450*	1 1/2	41c
3E8401	2950*	3	
3E8402	4000*	4	
3E8403	4450*	4 1/2	44c
3E8404	4950*	5	
3E8405	5000*	5	
3E8406	5500*	5 1/2	
3E8407	5950*	6	
3E8408	6000*	6	
3E8409	7000*	7	45c
3E8410	7450*	7 1/2	
3E8411	8500*	8 1/2	
3E8412	8950*	9	45c
3E8413	9950*	10	
3E8414	10000*	10	
3E8415	90000*	90	59c

* Resistors matched to 50 ohm meters having 1 M. A. full scale deflection.

Bakelite Test Case



3E2455—
 With top panel.
YOUR PRICE 95c

Polished brown bakelite with beveled bakelite top plate mounting with two insulated screws. Size of case 4 1/2" x 2 1/2" x 1 1/2". Inside depth 1 3/8". 2 1/2" between inside panel supports. Supplied with six 1/4" holes for small pin jacks, or wires. This is the ideal size small instrument case for short checkers, neon test circuits, standard resistors, standard capacitors, etc.

Reflector Type Panel Light



3E6769—
 Less Bulb.
YOUR PRICE 30c

Takes standard tubular pilot lights. Illuminates meters on a test panel without glare. Saves your eyes. Mounts in a 1/2" hole in 1/8" panels. (Genuine Mazda pilot lights listed on page 91.)

Rotary Tap Switches

For Test Instruments

Requires 1/4" or hole, in 1/4" or thicker panel. Single deck type extends 1" back of panel with 3/8" for each extra deck. Insulated cork shaft, 1/4" diam. 3/4" long. Double bearing wiping spring contacts. Ball bearing pressure spring insures positive stop on each position. Low contact resistance permits use of this switch in circuits controlling milliammeter shunts and volt-ohmmeter circuits. Built very rugged mechanically. Supplied in Non-Shorting and Shorting types.

Non-Shorting		Your Price		Shorting	
Stk. No.	De'ks	Stk. No.	Decks	Stk. No.	Decks
3E6326	1	\$0.59	3E6329	2	
3E6327	2	.94	3E6330	2	
3E6328	3	1.35	3E6331	3	

Beebe A. C. Voltmeter

0-150 A.C. Volts
 2 1/4" Flush Type

Vane type A.C. meter with 15,000 ohms resistance and an exceptionally open scale. Permits clear definition of voltage in 2 1/2 volt steps from 10 to 150 V. Mfg. H. 2 1/2" may be used constantly. **1E9599—0-150 volts.**
YOUR PRICE \$2.85



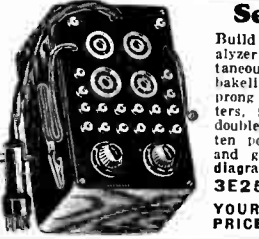
Smallest Wire Wound Potentiometers Made
 Ideal for test instruments or midsize ohmmeters. Diameter less than a half dollar, only 1 1/8". Extends 3/8" back of panel. 3/8" mounting hole. 3/8" threaded shank. 1/4" shaft. 3/8" beyond shank. Furnished with black bakelite knob and etched scale. Linear resistance. Used in Dayrad and Weston.

Stock Number	Res. Ohms	Max. Mils	Your Price
3E3425	200	100	59c
3E3426	400	70	
3E3427	1,000	45	
3E3428	1,500	30	
3E3429	3,000	25	73c
3E3430	5,000	20	88c
3E3431	8,000	18	88c
3E3432	10,000	14	88c
3E3433	15,000	11	88c

Selective Analyzer Kit

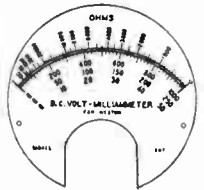
Build Your Own Point-to-Point Selective Analyzer! Make current and voltage tests simultaneously. Kit consists of a plain 5 1/2" x 9" bakelite panel, walnut instrument case, seven prong Alden 8 wire test plug cable, four adapters, four tube sockets, one pair pin-jacks, 8 double circuit opening, Yaxley Jacks, two rotary tap point selector switches. Insulated grid clip and grounding wire. Mica w/ and circuit diagrams, with suggested layout included.

3E2526—Kit not assembled.
YOUR PRICE \$10.65



Dial Scales for Use with 1 Milliampere Movement Meters

On Fine White Bristol Board with Black Figures; Brass Meter Plate



Scale Num. 1.
For Use on 1 Milliampere Movement Meters

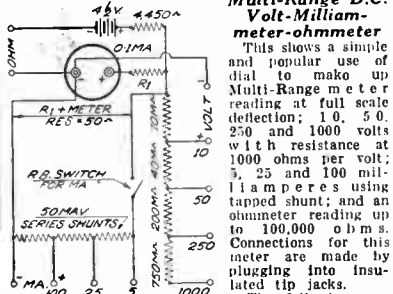
Upper scale calibrated for use with 4½ volt-ohm battery. 50 divisions marked 50, 250, and 1000 for D.C. Volt. Milliampere Range. Exactly replaces original dial.

YOUR PRICE **45¢**

- 3E8380—For Weston Model 301.
- 3E8381—For Jewell Type 88.
- 3E8382—For Triplett Model 321.
- 3E8383—For Beede 3¼" model.
- 3E8384—For Hoyt Model 557.
- 3E8431—For Jewell Type 54.

Diagram Number 1A.

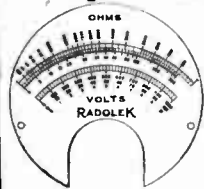
Multi-Range D.C. Volt-Milliammeter-ohmmeter



This shows a simple and popular use of dial to make up Multi-Range meter reading at full scale deflection; 10, 50, 250 and 1000 volts with resistance at 1000 ohms per volt; 5, 25 and 100 milliamperes using tapped shunt; and an ohmmeter reading up to 100,000 ohms. Connections for this meter are made by plugging into insulated tip jacks.

The following materials in addition to 1 milliammeter, meter, are required to make up this outfit: Meter Dial No. 1; 4½ volt battery; 1 each precision resistor in ohms, 1450, 10,000, 40,000, 200,000, 750,000; semi-variable resistor to bring meter resistance up to 50 ohms; Van series shunt resistor, S. P. S. T. Switch; 11 pin jacks, panel cabinet.

High-Low Ohm-Volt Scale

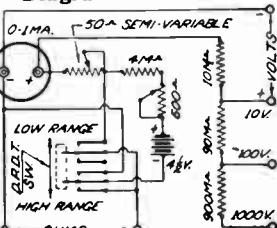


Scale Num. 2.
Upper scale is for 4½ volt Ohmmeter. Middle scale indicates ohms when unknown resistance is shunted across 50 ohm movement carrying 1 M.A. Lower scale has 50 uniform divisions marked 10, 100, and 1000 volts. Use Manganin wire in series with meters less than 50 ohms resistance.

YOUR PRICE **45¢**

- 3E8432—For Jewell Model 88.
- 3E8388—For Weston Model 301.
- 3E8433—For Beede 3¼" 0-1 MIL.
- 3E8434—For Triplett 3¼" 321.
- 3E8435—For Triplett 5¼" 557.

Diagram Number 2.



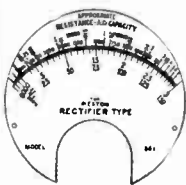
HIGH-LOW Ohmmeter and Triple Range D. C. Voltmeter

A high range ohmmeter reading to 100,000 ohms and a low range ohmmeter reading up to 500 ohms, combined with 3 range voltmeter reading 10, 100, and 1000 volts. Switch provided for either low to high ohm readings. Provides for an instrument of maximum utility. Easy to assemble and calibrate regardless of type 0-1 milliammeter meter employed.

The following materials in addition to the 1 mil. meter are required to make up this outfit: Meter Dial No. 2, D.P.D.T. Yaxley jack switch; Electrad 600 ohm potentiometer; 4½ volt battery; 50 ohm semi-variable resistor; 4,000 ohm wire wound resistor; 300,000 ohm carbon resistor; 10,000 and 90,000 ohm Electrad precision resistors; 6 insulated pin jacks; panel, cabinet.

3D8390—All of above materials supplied in a kit with hook-up wire, but without meter, panel or case.

YOUR PRICE **\$8.25**

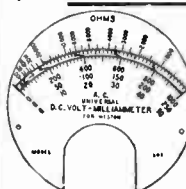


Scale Number 3.
For Meters Equipped With Copper Oxide Rectifiers

For Weston Rectifier type 301 Milliammeters. Due to the variation in rectifiers on other meters, special resistance pads may be required with this scale on other meters.

3D8392—List Price, Each 75¢.
YOUR PRICE **45¢**

Two voltage scales are provided to permit use of the meter in output circuits as across the voice coil of a speaker or using the high voltage scale, across the primary of the output transformer. Used as a high range ohmmeter in series with 110-120 volts A. C. and as a capacity meter in series with 110-120 volts A. C.

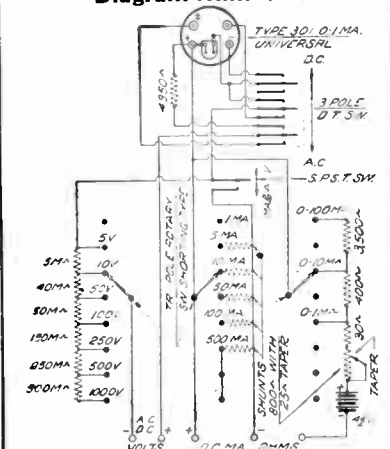


Scale Num. 4.

For use with Weston Universal A.C.-D.C. Meter or equivalent 1 MIL. meters equipped with copper oxide rectifiers. Offset scale permits reading A.C. values on D.C. calibrated Range. 50 scale divisions marked 50, 250, 1000, volts or Milliamperes according to external circuit employed. Top Scale for 4½ Volt ohm battery.

3E8395—For Beede 3¼"
3E8396—For Weston 301.
3E8397—For Triplett 321.
YOUR PRICE, EACH **45¢**

Diagram Number 4



For 1 Milliampere Universal Meter

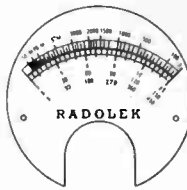
Provides A.C.-D.C. Multi-Range Voltmeter-D.C. Milliammeter-Ohmmeter.

This arrangement provides for A.C.-D.C. Voltmeter: Seven ranges on full scale deflection of 5, 10, 50, 100, 250, 500 and 1000 volts. D.C. Milliampmeter: Six ranges, 1, 5, 10, 50, 100, 500 milliamperes; Ohmmeter: Three ranges, 1,000; 10,000, 100,000 ohms. Selector switch for type readings desired. A.C.-D.C. Shifting switch. Individual ranges selected on insulated tip jacks.

The following materials in addition to the meter are required to make up the outfit: Meter Dial No. 4; Yaxley 3 pole, double throw switch; Yaxley three deck, 8 contact rotary switch; S. P. S. T. Switch; 800 ohm tapered Potentiometer; 4½ volt battery; 4 insulated tip jacks; one each Precision Multipliers 4,950, 5,000, 40,000, 50,000, 150,000, 250,000, 500,000 ohms; one each shunts, 5, 10, 50, 100, 500 mls; one each Precision Resistors, 30, 400, 3,500 ohms; panel; cabinet.

Diagram Number 6

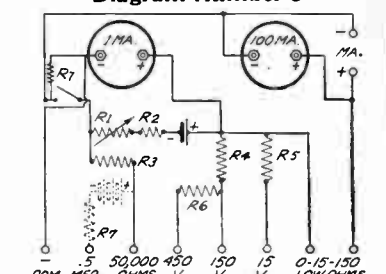
Circuit of a Universal A.C.—D.C. linear Volt-ohmmeter. Volt ranges are accurate on all frequencies including radio. Use of a quick heating 99 tube as a half wave rectifier for the 1 M. A. circuit eliminates the characteristic errors of the copper oxide meter rectifiers. A.C. range may be calibrated on D.C. Resistor R3 is adjusted to equal the internal resistance of the 99 tube. R1 is then adjusted to permit 10 volts full scale reading on the 10 volt scale. R3, R4, and R2 are 1500 ohm wire wound Midget Yaxley potentiometers. R5 is a non-critical 8500 to 9000 ohm resistor. R6 is 90,000 ohm 1% precision resistor. R7 is 900,000 ohm 2% resistor. R1 is 1000 ohms Capacity of 0.01 Mfd. is shunted across the meter to protect the winding on A.C. ranges.



Scale Num. 5
Special top ohm scale for use with 1½ volt dry-cell, reads 1500 ohms midscale and 50,000 ohms maximum. Lower scale has 30 divisions with ranges marked, 15, 150, 450. With the special circuit listed below, this scale will enhance the value of any 1 MA meter it is installed upon. This scale and circuit is an exclusive Radolek development.

3E8436—For Beede 3¼"
3E8437—For Hoyt 557.
3E8438—For Jewell 88.
3E8439—For Triplett 321.
3E8440—For Weston 301.
YOUR PRICE, EACH **45¢**

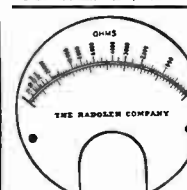
Diagram Number 5



Use any standard 1 MA meter, preferably with 50 ohms internal resistance. Max 100 to 150 MA Meter will serve in the current circuit. Low resistances may be accurately measured by closing the switch circuit and adjusting R1 until exactly 100 MA is flowing through the unknown resistance. The unknown resistance in ohms is then equal to the reading on the 0-15 linear scale. When R1 is adjusted to permit 10 MA to flow through the unknown resistance, the reading on the 0-150 scale yields the unknown resistance in ohms.

The top ohm scale calibrated for use with a 1½ volt dry cell, may be extended from its printed maximum to read 500,000 ohms with a suitable battery and resistor as indicated by dotted lines in the diagram. Volt ranges of 15, 150, 450 at 1000 ohms per volt extend the usefulness of this type test equipment.

In the diagram, R1 is 1500 ohms variable. (See Yaxley midget Potentiometer, page 36). R2 is 150 ohm carbon non-precision. R3 is 1000 ohms non-precision. R4 is 150,000 ohms wire wound precision resistor. R5 is 14950, ohms precision type. R6 is 300,000 ohms carbon or precision type resistance. R7 is 150 ohms precision wire wound. A push button switch is recommended.



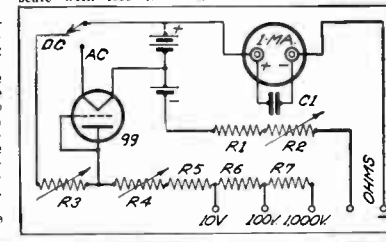
Scale Num. 6
For Use on 1 Milliampere Movement Meters

Upper scale is marked in ohms for use with a 4½ volt battery. Lower scale has 50 divisions and ten subdivisions without accompanying figures to permit hand calibration for any particular scale desired.

3E8441—For Beede 3¼"
3E8442—For Jewell 54.
3E8443—For Triplett 321.
3E8444—For Triplett 5¼"
3E8445—For Hoyt 557.
3E8446—For Jewell 88.
3E8447—For Weston 301 with 75 divisions.
YOUR PRICE, EACH **45¢**

Accurate Linear Scale A.C. Measurements

Use scale number 1, 2, or 6, with resistors suitable for securing the desired ranges at 1000 ohms per volt. A.C. readings will appear on the D.C. scale with less than 5% variation.

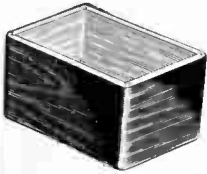


Professional Type INSTRUMENT CASES

Genuine Walnut

Attractive high quality walnut cases. Natural finish, unstained, hand rubbed and lacquered. Especially designed for custom built test equipment. They give to your equipment that professional laboratory appearance. Exceptionally strong and sturdy. Rugged but graceful. Interlocking corner joints. Rounded corners. Sizes are arranged to accommodate standard sizes of "C" batteries and to allow ample clearance below meter studs and for resistors, switches, etc.

Standard Model—Less Cover



Genuine Walnut
4E10441—For Panel 4 3/4"x7". Inside size: 4" wide, 6 1/4" long, 3 1/2" deep.
YOUR PRICE, EACH ... \$1.50

4E10442—For Panel 5 1/2"x8 1/2". Inside size: 4 3/4" wide, 7 3/4" long, 4 1/2" deep.
YOUR PRICE, EACH ... \$1.75

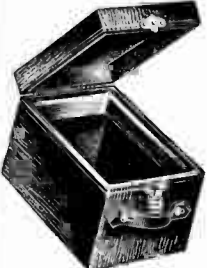
Portable Model—With Cover



Genuine Walnut
 Cover allows 1 1/2" inside clearance above panel. Panel fits flush inside lower section. Cover is detachable.
4E10443—For Panel 4 3/4"x7". Inside size: 4 3/4" wide, 7" long, 3 1/2" deep.
YOUR PRICE, EACH ... \$1.90

4E10444—For Panel 5 1/2"x8 1/2". Inside size: 5 1/2" wide, 8 1/2" long, 4 1/2" deep.
YOUR PRICE, EACH ... \$2.25

Portable Case—With Cover



Imitation Leather Covered
 Body built of thin but very strong wood. Covered outside and top rim with finest quality black leatherette. Attractively grained. This case will stand years of hard service. Takes any 5 1/2"x8 1/2" panel. Leather handle. Detachable cover with clasp lock. Height 6 1/4" inches.
4E10440—List Price, \$3.50.
YOUR PRICE ... \$1.69

Circuit Opening Twin Tip Jacks



Circuit opens when both pin tips are in place. Closed while either one alone is in position. Used in Selective Analyzers for opening circuits for current measurement or for voltage measurements between elements without opening circuit.

Mounts above or below panel with standard 3/32 screw. 1/8" holes required with 7/8" centers for use under panels less than 3/8" thick.

3E6419—No. 432.
YOUR PRICE, Each ... 15¢

Jeweled Pilot Light Brackets



Used as short indicators, signal light on test panels. Makes excellent soldering iron pilot when connected across 2 ohm resistance in series with a 100 watt iron. (2 1/2 amp. bulb required.) Bracket takes standard sized pilot light bulbs. Mounts in 1/2" hole on any panel not over 3/8" thick. Red Jewel included.

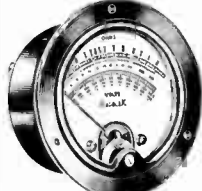
3E6765—
YOUR PRICE, Each ... 29¢

Jewels for Pilot Light

Colored jewel on threaded shank with mounting nut. Require 1/8" hole in panel not over 3/8" thick. Very attractive when used in front of small neon or filament pilot lights.

3E6766—Red
3E6767—Amber
3E6768—Green
YOUR PRICE, EA. 15¢

Radolek—Triplet 0-1 MA Foundation Meter



3E8389—
YOUR PRICE
\$4.66

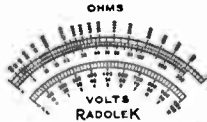
3 1/2" Black Bakelite Case of Arsonal Movement

Designed particularly for use with external resistors and shunts to build up a multi-range D.C. voltmeter and a dual scale ohmmeter employing the same wiring diagram as given for Radolek Dial Scale No 2 on page 36. Meter has 50 ohms internal resistance and requires 1 milliamperes for full scale deflection. Resistors for voltage ranges are calculated at 1000 ohms per volt allowing the 50 ohms of internal resistance as sufficient for 50 millivolt. The meter may be made to read current by use of standard shunts for 50 ohm meter resistance or by use of hand calibrated manganin wire shunts.

Special Ohm Scale: The low ohm scale assumes a current of 1 M.A. flowing through the meter and full scale deflection of the pointer. Shunting the meter with an unknown resistance causes a lower scale reading. (50 ohms appears at midscale.) The high ohm scale is the standard type requiring a 4.50 ohm resistance in series with a 1 1/2 volt battery. This scale indicates 4500 ohms at midscale and 100,000 ohms at the highest ohm marking.

Bakelite case: Flange diameter 3 1/2", body diameter, 2 3/4". Depth back of panel to clear binding posts, 1 3/4". White enamel dial with clear black figures.

Knife Edge Pointer: Assists in the congested portions of the ohmic scale in determining the exact resistance value. A front zero adjuster assures a constant zero return of pointer. Dust-proof construction. Tungsten steel magnet and genuine sapphire jeweled bearings.



Servicemen—A Quality 0-1 Milliammeter at a Price!



Hoyt Model 557
0-1 D.C. Milliammeter
3C2549
YOUR SPECIAL LOW PRICE
\$5.36

50 Ohms Resistance

Used by many leading manufacturers of high grade test equipment. With the use of proper shunts and resistors can be converted into a high resistance voltmeter or higher range milliammeter.

Moving coil type D'Arsonal Movement. Accuracy within 2%. Case Diameter 2 1/4" inches. Flange Diameter 3 1/4" inches. Metal case.

WESTON 0-1 Milliammeter



D. C. Model 301
3D9340—Metal Case.
3D9339—Bakelite Case.
 List Price, \$10.00.
YOUR PRICE \$7.35

Accepted as the standard for Electrical and Radio Measurements. Latest new improved model. Metal scale with black figures etched on silver background. Calibrated 0 to 1 with 50 equal graduations. Zero adjuster on front. Very uniform meter resistance of 27 ohms. Dull black enameled finish metal case. Flange 3/4" diameter with 2 1/2" diameter body. 1 1/2" deep back of flange. Black bakelite case, flange 3 3/8" diameter with 2 3/4" diameter body. 3/8" deep back of flange.

Black Bakelite Test Panels

Polished Bakelite to fit Professional Type Instrument Cases. Supplied square. Corners must be filed round to fit exactly on the standard model cases.

3E7487—3/4"x4 3/4"x7" Net Each 52¢
3E7488—3/4"x4 3/4"x7" Net Each 59¢
3E7489—3/4"x5 1/4"x8 1/4" Net Each 67¢
3E7490—3/4"x5 1/4"x8 1/4" Net Each 79¢

Make Your Own Shunts with Manganin Resistance Wire

Standardize your milliammeters by making all have the same internal resistance! As 50 ohms is the standard value usually employed, we suggest adding insulated Manganin wire in series with the movement to secure the total of 50 ohms. Employ the 30 gauge for all series multiplier purposes. The 26 gauge is suitable for shunts carrying less than 50 M.A. Employ 22 gauge for shunts of less than 1000 milliamperes. This round wire is suitable for use as shunt and multiplier resistance for all styles of meters, wheatstone bridge side wires, resistance boxes of standard value, etc. Temperature co-efficient 0.00025 ohms per °C. Practically no thermal co-efficient in contact with copper.

22 Gauge B&S, 0.452 ohms per foot.
 100 foot spool, Double Silk Covered. **\$1.10**
3D4840—YOUR PRICE

26 Gauge B&S, 1.147 ohms per foot.
 200 foot spool, Double Silk Covered. **\$1.20**
3D4841—YOUR PRICE

30 Gauge B&S, 2.899 ohms per foot.
 300 foot spool, Double Silk Covered. **\$1.15**
3D4842—YOUR PRICE

Bare Resistance Wire

For use at extreme high temperatures in heater elements, of ranges, radiant heaters, heaters, rheostats, bleeder resistances, etc. Temperature co-efficient 0.00012 ohms per °C up to 500° (1022° F.) and there remains fairly constant to 1000° C (1832° F.). Non-oxidizing in air. Non-magnetic. Bright finish. Insold. Supplied without insulation.

22 Gauge B&S, 1.015 ohms per foot.
 100 foot spool, bare wire. **\$1.05**
3D4843—YOUR PRICE

32 Gauge B&S, 10.15 ohms per foot.
 500 foot spool, bare wire. **\$1.00**
3D4844—YOUR PRICE

"VAN" SHUNTS

Very small and compact. Size about 1 1/4" long, 3/8" wide. Resistance elements of non-corrosive alloy wire with temperature co-efficient of practically nil. These shunts are intended for use in converting 0-1 milliamperes movement meters for reading higher range currents with maximum milliamps specified.

Multiple Shunts

For 1 Mil. Weston

D. C. Mod. 301

27 Ohms Meter Resistance



Stock Number	D. C. Milliamps	Stock Number	D. C. Milliamps
3D4875	5	3D4878	50
3D4876	10	3D4879	100
3D4877	25	3D4880	500

List \$1.50
YOUR PRICE ... 88¢

For Triplett Model 321 and 324

30 ohms Meter Resistance

Stock Number	D. C. Milliamps	Stock Number	D. C. Milliamps
3D4859	5	3D4862	50
3D4860	10	3D4863	100
3D4861	25	3D4864	500

List \$1.50.
YOUR PRICE ... 88¢

For Beede and Jewell 54

35 Ohms Meter Resistance

Stock Number	D. C. Milliamps	Stock Number	D. C. Milliamps
3D4865	5	3D4868	50
3D4866	10	3D4869	100
3D4867	25	3D4870	500

List Price Each \$1.50.
YOUR PRICE ... 88¢



Single Range Shunts for 50 Ohm, 1 Mil.

List \$1.50.

YOUR PRICE ... 88¢

Stock Number	D. C. Milliamps	Stock Number	D. C. Milliamps
3D4881	5	3D4884	50
3D4882	10	3D4885	100
3D4883	25	3D4886	500

Series Tapped Shunts

3D4890—For 1 mil. D. C. Weston 301. 27 ohms Meter Resistance. Tapped for 10-100 mills. List \$2.50.
YOUR PRICE \$1.47

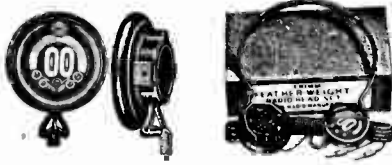
3D4891—For Universal Model 301. 50 ohms Meter Resistance. Tapped for 5-25-100 mills. List \$3.00.
YOUR PRICE ... \$1.76

Series Tapped Shunt

For Beede, Hoyt, Triplett, and Weston 1 milliamperes meters having 50 ohms internal resistance or with meters of lower resistance having an external series resistance of manganin wire to secure a net 50 ohms. Tapped for 10 and 100 milliamperes.

3E4892—For 50 ohm, 1 Mil. meters. **YOUR PRICE ... \$1.47**

Trimm Featherweight Head Set



3C2350—List Price Set \$10.00. **YOUR PRICE \$5.88**

Smallest, lightest weight headset made. Highly efficient. Total weight of complete set only four ounces. Ideal for Aircraft, Hard-of-hearing and Radio Amateurs, or anyone required to wear headphones for any extended time. Extremely sensitive. Will respond to signals over 100 D.B. down. Precision made of finest materials. Will give unexcelled service for many years. Complete with strong, adjustable spring steel head band and five foot cord. Total resistance 4,000 ohms.



Head Phone Cords

For connecting two headphone units to output of radio receiver or other apparatus. Two double conductor cords are joined together in series connection with one double conductor cord. Fine quality durable mercerized braid covering. Lgth. 5 ft.

3C2305—With pin tips on both ends.
3C2306—With spade tips on phone unit end, pin tips on other end.
PRICE EACH 19¢

TEN FOR \$1.68

Two Conductor Cords

For Speakers or Single Unit Headphones. Finest quality glossy mercerized covering. Lgth. 5 ft.

3C2308—Pin tips one end, spade tips other.
3C2307—Pin tips both ends.
PRICE EACH 8¢
TEN FOR 76¢



"Tweeter" Loud Speaker Horns

Complete with Baldwin Phono Unit. Horn is scientifically moulded of polished hard rubber to give best acoustic results. Very satisfactory for some types auto sets and P.A. systems as high frequency reproducers. Also as monitor horn on sound recording systems. Height 9" overall, opening 3 1/2" diam.

3D2369
PRICE EACH \$1.74

ROLA Permanent Magnet Dynamic Speaker



Model PM-6
 6 1/2" Overall.
4E10620
YOUR PRICE \$5.75

Model PM-8
 8" Overall.
4E10621
YOUR PRICE \$6.75

Output transformers are included. Specify on your order type of output tubes used and how they are connected.

Requires no field current. Especially designed for use in public address installations where it is impractical to apply energy for the field coil, for battery receivers or for remote use with a home radio or as a monitor speaker. Sensitivity and tone fidelity are comparable to that of the finest dynamic speakers. The magnetic air-gap and the voice coil of these speakers are shielded against the entrance of metallic particles and dust by a domed center cap fastened in the apex of the cone and a new dirt proof acoustic filter. An entirely new construction of the magnetic core gives greatly increased flux density and greater power handling capacity. Highest quality steel used in the construction of the electro-magnet assures retention of full magnetic strength. The permanent arrangement of all parts is assured in the modern arc welded construction which is used throughout.

Physical Specifications

Model PM-6—6 1/2" cone flange diameter, 7 3/8" magnet width, 3 3/8" maximum depth.
Model PM-8—8" cone flange diameter, 8 1/2" magnet width, 4 3/8" maximum depth.

FROST FONES



Frost Fones satisfy the exacting demands of those wishing to obtain extremely sensitive instruments. Light in weight, comfortable to wear and easily adjustable. All materials used are of the very highest quality, and these phones are made by careful scientific workmen. For testing radio parts or complete sets—for lining up condensers—for peaking intermediate transformers or any similar uses these phones may be depended upon to give perfect satisfaction.

3C2357—Frost No. 174. 2000 ohm headset. Aluminum shell.
List. \$3.08. YOUR PRICE \$1.50

3C2358—Frost No. 175. 3000 ohm headset. Aluminum shell.
List. \$3.50. YOUR PRICE \$1.67

FROST DX Special Fones

20,000 ohms Impedance

Designed especially for amateurs and DX fans. Extremely sensitive to faintest signal. Same general construction as above model Frost Fones. Specially selected materials give greatly increased sensitivity. The high impedance of 20,000 ohms at 1000 cycles make these phones especially suited for A.C. Bridge work.

3D2356—List Price, Set \$5.00.
YOUR PRICE \$2.50

Junior Headphones

Special

\$1.22



3C2355
YOUR PRICE \$1.22

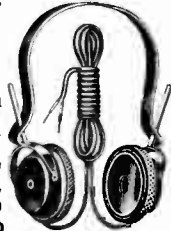
The headphones listed here are thoroughly reliable and responsive to weak signals. Adjustable worn web covered headbands. Complete with cords. Aluminum shells, aluminum unbreakable caps that are more sanitary and will not dirty the ears even in warm weather. Total resistance 2800 ohms. Very light and comfortable to wear.

Acme Headphones

Exceptional value. Suitable for use in multiple installations of hospitals, hotels etc. Plan on 50 milliwatts per set for best results. Well made. Durable. Spring steel adjustable head band. Light tension. 4 1/2 foot braided covered cord. All black finish.

3D2351—Total resistance 4,000 ohms.
 Single Lots, Set **\$1.25**

TEN SETS FOR \$12.50
3D2374
 Total resistance 2,000 ohms.
PER SET 97¢



Ear Phone Cushions

3C2371—YOUR PRICE **22¢**
PAIR \$1.95
 TEN PAIR FOR **\$19.50**
 Made of soft spongy rubber. Very light and comfortable. Ease pressure from head set yet preserve best hearing. Fit all phones.

Special Balanced Armature Type Unit

A good quality aluminum diaphragm unit with a hardened steel magnet constructed for rough hard usage. Suitable for use on 500 milliwatt output; should be used with an output transformer if more than 20 milliamperes of D.C. is liable to flow through its windings. Diameter of threaded portion 7/8". Supplied with a long double tinned phone cord. Former list \$5.00.

3C2370—YOUR NET PRICE **39¢**
ONLY TEN FOR \$3.48



Genuine Nathaniel Baldwin Phones

Type C
3D2360—
 Your Very Special Price Set **\$2.89**
 Ten Pairs for **\$27.50**



World famous for many years because of their extreme sensitivity and great efficiency. Balanced armature units accurately matched and carefully tested. Used extensively by U. S. Signal Corps, Navy, and by professional operators. Moulded bakelite cases enclose units. While very sensitive they are very rugged and will stand up under hard usage. Complete with adjustable headband and connecting cord. Fitted with MICA diaphragms.

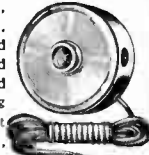
Genuine Baldwin Units

New Stock—Guaranteed Perfect

Wonderful bargains at our prices. All are of the highly efficient Baldwin balanced armature type. Very sensitive and carry great volume without distortion. Very rugged. Excellent for battery type radio receivers and for use on Public Address horn speakers. Maximum undistorted power limit, 500 M.W.

Baldwin Concert

Generally known as the best. Each unit hand made, carefully adjusted and tested. Precision made at every step. Widely imitated, but not excelled for its faithful, consistent reproduction. Threaded to fit all standard speakers and horns. Concentric corrugated diaphragms to handle strong signals without blasting. 5-foot cord with tips. Shipping wt., 2 lbs.



3C2362—Baldwin Concert Unit Not Shielded. NET **\$2.95**

Baldwin Rival

Ideal for all console and morning glory type horns. Handles enormous volume with rare faithfulness of reproduction. Shipping wt., 1 lb.

3C2364—Without Shield. **YOUR PRICE 45¢**

Baldwin Lyric

An especially desirable unit for outdoor use. Fully encased. No parts exposed. Very sensitive, yet sturdy and strong. Concentric corrugated diaphragms to handle strong signals without blasting. Slightly larger than the Concert or Rival.

3C2365—List. \$6.00
YOUR SPECIAL PRICE \$1.25

Phono Pedestal Speaker

For attaching to tone arm of any phonograph. Equipped with extra long cord and phone tips. Has durable imitation leather finish. Very sensitive magnets. Specify make of phonograph and we will supply correct adapter.

3C2366—Former List, \$5.00 YOUR PRICE **95¢**



Standard Phono Unit

Exactly the same as above unit except supplied without pedestal. Unusually compact. 2 1/2" diam.

3C2367
YOUR PRICE 85¢

Utah Units

The finest UTAH unit. Incorporates patented tripod construction. Gives faithful reproduction over a wide range and successfully handles 2 1/2 watts. 1000 ohms impedance. Finished in nickel. Diameter 3". Five foot cord.

3D2377—List Price \$6.25.
YOUR PRICE \$3.75



Utah Big Chief

Same dimensions as above unit but does not incorporate tripod construction.

3D2378—List Price \$5.25.
YOUR PRICE \$2.45

UTAH SPEAKERS

OUTPUT TRANSFORMERS

In ordering Speaker with Output Transformers, specify type of output tubes used and whether single or push-pull.

Abbreviations Used

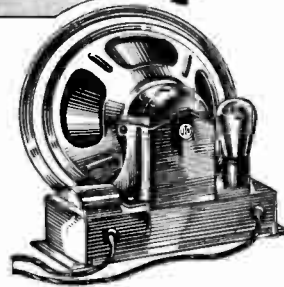
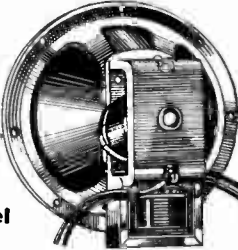
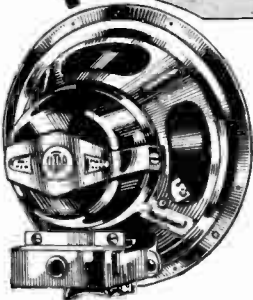
PdL.: Power dissipation of field.

Pwr.: Power handling capacity of voice coil.

Imp.: Voice coil impedance at 400 cycles.

Res.: Voice coil resistance at 120° Fahr.

Diam.: Diameter of Voice Coil.



A. C. MODELS

These fine speakers are capable of handling enormous volume with exceptional fidelity. Substantially constructed of pressed steel, polished cadmium finish. Uses type '80 rectifier tube (not included) operated at 175 volts, 70 M.A. Speakers handle 10 watts continuously or 16 watts peak load. Supplied with output transformer. Be sure to specify types of tubes used and how they are connected. For 105-120 volt 50-60 cycle A.C.

8, 10 and 12 Inch Speakers

Model "A". Have extra large field pots which bring out the utmost in the diaphragms and provides marvelous fidelity of tone at high as well as low volume. Cadmium finished steel frames. Moulded ribbed diaphragms of special impregnated composition. 1 PdL., 9 watts. Voice coil diam. 1". Imp., 6 ohms. Pwr., 10 watts (8" Spkr. 8 watts), Res., 4.7 ohms.

8 Inch Speaker

Model 8A. Diameter 8". Overall Depth 4 1/4".
Less Output Transformer
 List Price, \$12.50
 4E10250—2500 ohm field } YOUR PRICE **\$3.95**
 4E10251—1500 ohm field }
 4E10252—1000 ohm field }

With Output Transformer
 4E10250T—2500 ohm field } YOUR PRICE **\$4.35**
 4E10251T—1500 ohm field }
 4E10252T—1000 ohm field }

10 Inch Speaker

Model 10A. Diameter 10". Overall Depth 4 3/4".
Less Output Transformer
 List Price, \$14.00
 4E10253—2500 ohm field } YOUR PRICE **\$4.81**
 4E10254—1500 ohm field }
 4E10255—1000 ohm field }

With Output Transformer
 4E10253T—2500 ohm field } YOUR PRICE **\$5.40**
 4E10254T—1500 ohm field }
 4E10255T—1000 ohm field }

12 Inch Speaker

Model 12A. Diameter 12". Overall Depth 6".
Less Output Transformer
 List Price, \$15.50
 4E10256—2500 ohm field } YOUR PRICE **\$5.42**
 4E10257—1500 ohm field }
 4E10258—1000 ohm field }

With Output Transformer
 4E10256T—2500 ohm field } YOUR PRICE **\$6.19**
 4E10257T—1500 ohm field }
 4E10258T—1000 ohm field }

UTAH 12" STADIUM SPEAKER

Model 12B (20 Watts)

List Price, \$17.50.
YOUR PRICE
\$7.95

With Universal Output Transformer

Especially suitable for Deluxe Console and Public Address installations. Handles 15 to 20 watts input without overloading, with 10 to 12 watts in the field. Cadmium finished steel frame. Improved moulded diaphragm. Large size universal transformer, tapped to

match any output tube combination. Diameter 12" overall height 12 1/2", overall depth 6 1/2". Field Res., 2500 ohms. PdL., 15 watts. Voice coil diam. 1 1/4". Imp., 1.1 ohms. Pwr., 15 watts, Res., .8 ohm. For D.C. Field Power.

4E10259—2500 field } List Price, \$17.50.
 4E10260—1500 field } YOUR PRICE **\$7.95**
 4E10261—1000 field }

With Universal 500 ohm Line to Voice Coil Transformer
 (Permits use of 1 to 16 speakers on 500 ohm line).
 4E10259T—2500 field } YOUR PRICE **\$7.95**
 4E10260T—1500 field }
 4E10261T—1000 field }

5 Inch Model 5-D

5 Inch Speaker

Model 5D. Diameter 5". Overall Depth 2 3/4". PdL., 5 watts. Voice coil diam. 5/8". Imp., 5 ohms. Pwr. 3 watts. Res. 2.7 ohms.

Less Output Transformer

4E10262—3000 ohm field } List Price, \$6.50.
 4E10263—2500 ohm field } YOUR PRICE **\$2.29**
 4E10264—2000 ohm field }

With Output Transformer

4E10262T—3000 ohm field } YOUR PRICE **\$2.64**
 4E10263T—2500 ohm field }
 4E10264T—2000 ohm field }

6 Inch Speaker

Model 6D. Diameter 6". Overall Depth 3". PdL., 7 watts. Voice coil diam. 3/4". Imp., 3.8 ohms. Pwr. 6 watts. Res. 3.1 ohms.

Less Output Transformer

4E10275—2500 ohm field } List Price, \$8.00
 4E10276—1500 ohm field } YOUR PRICE **\$2.75**
 4E10277—1000 ohm field }

With Output Transformer

4E10275T—2500 ohm field } YOUR PRICE **\$3.25**
 4E10276T—1500 ohm field }
 4E10277T—1000 ohm field }

UTAH MAGNETIC

Rich Clear Tone. Utah quality throughout. Cadmium finished steel frames. Impedance approx. 9,500 ohms at 1000 cycle/s. Resistance 1000 ohms. 2 Watts capacity.

4D10269. Diameter 5 inches. Depth 2 1/4".
 Ship. Wt. 1 1/2 lbs. List Price \$4.50.
YOUR PRICE **\$1.78**

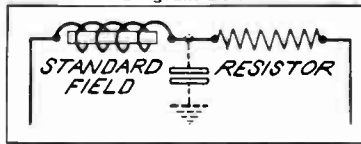
4D10270. Diameter 6 inches. Depth 3 1/4".
 Ship. wt. 2 lbs. List Price \$5.00.
YOUR PRICE **\$2.02**

4D10271. Diameter 8 inches. Depth 3 1/2".
 Ship. wt. 2 1/2 lbs. List Price \$6.00.
YOUR PRICE **\$2.85**

Special Resistance Speaker Fields

Radolek Dynamic Speakers listed can be adapted for use in circuits requiring field coil resistances of values other than our stock sizes. For use in such circuits, select a speaker with resistance nearest to that required but lower in value. Place in series with the speaker a 10 watt resistor of value which added to value of speaker field coil will give total resistance required in circuit. Improved hum filtration may be secured by connecting a 2 Mfd. condenser from the ground to the junction of the field coil and the resistor.

Diagram Below



8, 10 and 12 Inch A. C. Speakers

Model 8A-AC. Diameter 8", overall height 8 1/4", width 10". Field Res., 2500 ohms. PdL., 10 watts. Voice coil diam., 1". Imp., 6 ohms. Pwr., 8 watts. Res., 4.7 ohms. Ship. Wt., 10 lbs.
List Price \$19.00.
 4E10265. **YOUR PRICE** **\$11.17**

Model 10A-AC. Diameter 10", overall height 10 1/4", width 10". Field Res., 2500 ohms. PdL., 10 watts. Voice coil diam., 1 1/4". Imp., 6 ohms. Pwr., 10 watts. Res., 4.7 ohms. Ship. Wt., 12 lbs.
List Price \$22.00.
 4E10266. **YOUR PRICE** **\$12.94**

Model 12B-AC. Diameter 12", overall height 12 1/4", width 10". Field Res., 2500 ohms. PdL., 15 watts. Voice coil diam., 1 1/4". Imp., 1.1 ohms. Pwr. 15 watts. Res., .8 ohms. Ship. Wt., 15 lbs.
List Price \$25.00.
 4E10267. **YOUR PRICE** **\$14.70**

Utah "P. M." Speakers

3000, 4000 and 6000 Milli-watt Power Inputs

An Improved Kinematic Power Loudspeaker with an automatic impedance matching circuit. Uses no field current. Handles more power and volume without distortion than any non-dynamic speaker we have tested. Chrome steel permanent magnets acting through laminated pole pieces produce an intense magnetic flux in the 6/1000ths air gap. A heavy laminated silicon steel armature is suspended with phosphor-bronze flexible torque supports. No armature pivots to chatter or stick. Speaker will carry 35 Ma. direct current. Output transformers are not required. Speakers may be ordered for single or push-pull circuits. For improving battery radios, use in sound trucks, as extra speakers on any radio or P.A. system which does not provide field current, we recommend these speakers very highly.



6" Utah Orthovox
 3000 Milli-watts Capacity.
 Frequency Response Equals the Finest Type 5" Dynamic Speakers

4E10280—For single tube.
 4E10281—For Push-Pull Tubes.
 List Price \$3.50.
YOUR PRICE, EACH **\$2.06**

8" Utah Orthovox
 4000 Milli-watts Capacity.
 Frequency Characteristic Uniform between 140 and 8000 Cycles.

4E10283—For single tube.
 4E10284—For Push-Pull tubes.
 List Price \$4.00.
YOUR PRICE EACH **\$2.35**

12" Utah Orthovox
 6000 Milli-watts Capacity.
 Plenty of Bass in this Big Cone.
 Excellent Response Between 80 and 8000 Cycles.

4E10286—For single tube.
 4E10287—For Push-Pull tubes.
 List Price \$6.00.
YOUR PRICE EACH **\$3.53**

Dependable Quality

Dynamic Speakers

At Special Low Prices

6 Inch De Luxe



YOUR PRICE EACH \$1.55

Less Transformer
New Design—
Superior Performance
Carries full output of any power tube delivering up to 1000 milliwatts. Inductive Shunt Hum Bucking device permits the use of the field circuit as part of the power pack filter system. Voice coil diameter, 7/8". Impedance 4 1/2 ohms. Resistance 4 ohms. Field power 6 watts. Overall diameter 6 1/4". Depth 3 3/4". Shipping weight 4 lbs.

Less Output Transformer
YOUR PRICE EACH \$1.55

Ten for.....\$14.20

Stock Number	Field Ohms	Stock Number	Field Ohms
14E10500	1000	14E10503	1800 tapped at 300
14E10501	2000	14E10504	4 ohms for 6 volt
14E10502	2500		

With Output Transformer
(Specify output transformer desired by giving type letter indicated in table below.) Order field resistance wanted by stock numbers.

YOUR PRICE EACH \$1.88

TEN FOR.....\$17.50

Stock Number	Field Ohms	Stock Number	Field Ohms
14E10500T	1000	14E10503T	1800 tapped at 300
14E10501T	2000	14E10504T	4 ohms for 6 volt
14E10502T	2500		

6 Inch Standard

For 4000 Milliwatt Audio Output



Less Output Transformer

14E10565—2500 ohm 6 Watt Field.
YOUR PRICE EACH \$1.35

Ten for.....\$12.70

With Output Transformer
14E10565T—2500 ohm 6 Watt Field.
YOUR PRICE, EA. \$1.65

Ten for.....\$15.70

Specify Transformer desired by giving type letter indicated in table below.

A low cost good quality full dynamic speaker, strong rugged construction, voice coil and spider are aligned before cementing the cone in place, thereby assuring freedom from chatter usually found in competitively priced speakers. Voice coil diameter 7/8". Impedance 1 1/2 to 6 ohms. D.C. resistance 4 ohms. Overall diameter 6 1/4", 3 3/4" depth. Weight packed, 3 1/4 lbs.

8 1/2 Inch Standard

For 6000 Milliwatt Audio Output



Less Output Transformer

14E10570—2500 ohm 6 Watt Field.
YOUR PRICE EACH \$2.10

Ten for \$19.50

With Output Transformer
14E10570T—2500 ohm 6 Watt Field.
YOUR PRICE EACH \$2.45

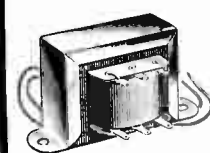
Ten for \$23.00

Specify transformer desired by giving type letter indicated in table below.

This 8 1/2 inch Standard quality Dynamic makes a suitable replacement for the majority of five and six tube, single or push-pull, midset radio sets. The voice coil impedance is 4 1/2 to 6 ohms. Resistance 4 ohms, diameter of voice coil 7/8". Speaker is 4 3/4" deep. Shipping weight 5 1/4 lbs. Special size field coils of less than 3000 ohms can be supplied on order for 50c extra.

Universal 500 Ohm

Line Matching Transformer



3E4140—
YOUR PRICE EACH 74c

A flexible means of coupling 1 to 6 speakers to a 500 ohm Amplifier Output Circuit. Tapped secondary permits matching ratios within limits of 1 to 6 speakers, of 6 ohm impedance to a 500 ohm line. This transformer is the correct size for all speakers in this catalog having an impedance of approximately 6 ohms. The Chart gives the taps which may be used to match 3 ohms, 6 ohm, and 12 ohm impedance circuits to a 500 ohm line, instructions for connecting included with each transformer. See chart on page 109.

8 1/2 Inch De Luxe



YOUR PRICE EACH \$2.45

Less Transformer
Brilliant Highs—
Rich Bass Tones:

A splendid overall performance characterizes these speakers. For use with single or push-pull power tubes delivering up to 6000 milliwatts audio input. New Inductive Shunt Hum Bucking device eliminates effect of A.C. ripple current in speaker filter system of A.C. Radio. Voice coil diameter 7/8". Impedance 4 1/2 to 6 ohms. Resistance 4.2 ohms. Field power 8 watts. Overall diameter 8 1/2". Depth 4 3/4". Shipping weight 5 1/2 lbs.

Less Output Transformer
YOUR PRICE EACH \$2.45

Ten for.....\$23.00

Stock Number	Field Ohms	Stock Number	Field Ohms
14E10520	1000	14E10523	1800 tapped at 300
14E10521	2000	14E10524	4 ohms for 6 volt
14E10522	2500		

With Output Transformer
(Specify output transformer desired by giving type letter indicated in table below. Order field resistance wanted by stock number.)

YOUR PRICE EACH \$2.80

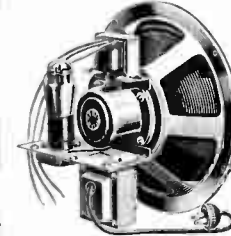
Ten for.....\$26.50

Stock Number	Field Ohms	Stock Number	Field Ohms
14E10520T	1000	14E10523T	1800 tapped at 300
14E10521T	2000	14E10524T	4 ohms for 6 volt
14E10522T	2500		

NOTE: Field Coils of resistance other than stock sizes quoted can be supplied for 50c extra.

A.C. Dynamic Speakers

Field Power from A.C.



Line using an 80 tube. Inductive Shunt Hum Bucking device eliminates hum of old style A.C. Dynamic Speakers. 2500 ohm field. Voice Coil diameter 7/8". Impedance 5 to 7 ohms. Resistance 4.2 ohms. Handles 6 000 milliwatts audio power. Field rectifier operates on 115 volt, 60 cycle A.C. Overall diameter 8 1/2". Depth 4 3/4". Type 80 tube not included. Shipping weight 8 3/4 lbs.

8 1/2" DeLuxe A.C. Model
14E10575—Less Output Transformer
YOUR PRICE \$5.55

14E10575T—With Output Transformer
YOUR PRICE \$5.80

11" De Luxe A.C. Model
11" overall diameter, 6" depth. Shipping weight 10 lbs. Electrical specifications same as above but responds to deeper tones better than 8 1/2" Model.

14E10577—Less Output Transformer
YOUR PRICE \$6.45

14E10577T—With Output Transformer
YOUR PRICE \$6.95

(Specify Output Transformer desired by giving type letter indicated in table below.)

11 Inch De Luxe



For 10 Watt Output With 10 Watts in Field
YOUR PRICE EACH \$2.95

Less Transformer

The 11 Inch DeLuxe Speaker is designed for superior tone quality, great volume, portability and high efficiency. A large size field pot and extra large voice coil insures high sensitivity at all frequencies. For traveling musicians, the 11 inch DeLuxe Model is unrivaled. It is particularly suited to ball-rooms and small theater installations where a well rounded tone is necessary to accommodate the acoustics of undrained walls and constantly changing absorption factors. Extra strong cone of moulded seamless material supported at the edge by the heavy steel frame and at the apex by a special resilient mica spider. The spider actually carries the voice coil, thus maintaining perfect alignment regardless of expansion or contraction of the cone with temperature changes. Inductive Shunt Hum Bucking device is an integral part of this speaker. Voice Coil diameter 1 1/4". Resistance 5 ohms. Impedance 5 1/2 to 7 ohms. Full 10 watt carrying capacity. Overall diameter 11". Depth 6 3/4". Shipping Weight 6 1/2 lbs. A portable housing or large baffle should be employed with this speaker to properly reproduce low notes.

Less Output Transformer
YOUR PRICE EACH \$2.95

Ten for.....\$28.00

Stock Number	Field Ohms	Stock Number	Field Ohms
14E10540	1000	14E10543	2500
14E10541	1500	14E10544	3000
14E10542	2000	14E10545	6 V. 4.

With Output Transformer
(Specify Output Transformer desired by giving type letter indicated in table below.)

YOUR PRICE EACH \$3.45

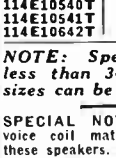
Ten for.....\$32.50

Stock Number	Field Ohms	Stock Number	Field Ohms
14E10540T	1000	14E10543T	2500
14E10541T	1500	14E10544T	3000
14E10542T	2000	14E10545T	6 V. 4.

NOTE: Special values of field resistance less than 3000 ohms other than stock sizes can be supplied for 75c extra.

SPECIAL NOTE: Universal 500 Ohm Line to voice coil matching transformer listed below for these speakers.

New 5 Inch Speaker



YOUR PRICE EACH \$1.45

Ten for.....\$13.80

With Self-Adjusting-Ratio Coupling Transformer.

4E10560—2500 ohm field, 3 watts.

4E10561—3000 ohm field, 3 watts.

4E10562—6 volt, 4 ohms, 9 watts.

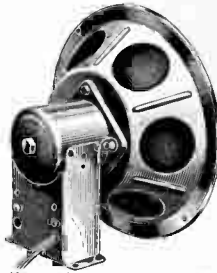
For use with tubes rated to deliver less than 3000 milliwatts output. The correct size for many of the new "Cigar Box" sets and Auto Radios. New Style construction assuring freedom from chattering. The Self-Adjusting-Ratio Output Transformer employs a special damping design which makes impedance matching non-critical. The following single output tubes operate properly with this transformer: 38, 41, 42, 43, 45, 47, 2A5, 71A and 89 triode. Voice coil resistance, 2 1/2 ohms. Impedance, 3 to 4 ohms. Overall diameter 5", depth 2 1/2". Shipping weight 2 1/2 lbs.

Select Proper Output Transformer from This Chart

When Ordering Speakers Specify Output Transformers Required by Stating Type Letter of Transformer as Specified Below. Ratios are for 5 to 7 Ohm Voice Coils.

Transformer Type	FOR TUBES IN PUSH-PULL				FOR SINGLE TUBES			
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Ratio	27:1	35:1	45:1	60:1	20:1	27 1/2:1	35:1	45:1
For The Following Types of Radio Power Tubes	4R 2A3	43 2136	2A5 33 71A	PZH GA KX15 49T	10 38 41 12A	45 2136 71A 2A3	PZH KH5 59P 89P	10 38 41 49T 12A
		12A5 482B	46 47 6A4 89	89P PZ LA P. or T	AE KR25	12A5 48 50	47 6A4 89	PZ LA P. or T KR25

12 1/2" Standard Dynamic



For P. A. Systems and large Sets.

YOUR PRICE **\$6.35**
EACH

Less Output Transformer

Tremendous Volume with 10 Watts of Audio Input. Requires only 9 to 10 watts for field excitation. Reduced Air gap Intensifies magnetic flux. Voice Coil Maintained in perfect alignment with full floating mica spider suspension will not chatter against pole pieces regardless of expansion or contraction of cone diaphragm. This speaker should be mounted on a Baffle of at least 4 ft. diameter for good results. Voice Coil Impedance 6 ohms, Resistance 5 ohms. Diameter of V. C. 1 1/4". Overall diameter 12 1/2". Depth 8". Shpg. Wt. 14 lbs.

Less Output Transformer

Stock Number	Field Ohms	Stock Number	Field Ohms
14E10580	1000	14E10583	2500
14E10581	1500	14E10584	3000
14E10582	2000	14E10585	6 V. 4.

YOUR PRICE EACH **\$6.35**

With Output Transformer

Stock Number	Field Ohms	Stock Number	Field Ohms
114E10580T	1000	114E10583T	2500
114E10581T	1500	114E10584T	3000
114E10582T	2000	114E10585T	6 V. 4.

YOUR PRICE EACH **\$6.85**

12 1/2" Standard Dynamic A.C. Model

Uses a Filtered Field Supply Rectified by a Type 80 Tube. For 115 V. A.C. 60 Cycle.

14E10595—Less Tube and Less Output Transformer.

YOUR PRICE **\$12.35**

114E10595T—Less Tube and with Output Transformer.

YOUR PRICE **\$12.85**

Full 10 Watts of Field Power available from the filtered rectified A.C. line supply. Type 80 tube provides most economical system of rectification for this purpose. Voice coil and cone construction is the same as the D.C. 12 1/2" Standard Dynamic described above. Shipping weight 19 lbs.

14" Standard Dynamic

For Permanent Public Address Installations, Theaters, Auditoriums, Churches, Athletic Fields.

Handles Full 12 Watt Audio Input—10 Watt Field. A Super Power Dynamic Speaker for use with large P. A. Systems which must distribute great volume of sound without marked directional effect. Voice Coil—Impedance 6 ohms; Resistance 5 ohms. Diameter 1 1/4". Overall diameter 14", depth 9". Shipping weight 15 lbs.

Less Output Transformer

Stock Number	Field Ohms	Stock Number	Field Ohms
14E10600	1000	14E10603	2500
14E10601	1500	14E10604	3000
14E10602	2000	14E10605	6 V. 4.

YOUR PRICE EACH **\$6.95**

With Output Transformer

Stock Number	Field Ohms	Stock Number	Field Ohms
114E10600T	1000	114E10603T	2500
114E10601T	1500	114E10604T	3000
114E10602T	2000	114E10605T	6 V. 4.

YOUR PRICE EACH **\$7.55**

14 Inch Standard Dynamic

A.C. Model

115 Volt A.C. 60 Cycle Rectified Field Supply. Uses type 80 tube and Filter System. This speaker is identical electrically to the 14" Dynamic described above.

14E10615—Less Tube and Less Output Transformer.

YOUR PRICE **\$12.95**

114E10615T—Less Tube, with Output Transformer.

YOUR PRICE **\$13.45**

For all of Above Models

(Specify Output Transformer desired by giving type letter indicated in table on page 40.)

Special Field Coils under 3000 ohms can be supplied to order, \$1.50, extra.

Dynamic and Magnetic Speakers

Miniature Speaker Cabinets

4E10488—YOUR PRICE **\$1.49**
EACH

Ten for \$13.50

Gothic design. Solid, rigid construction. Natural walnut veneer front in rich hand rubbed brown finish. Suitable for 5" Magnetic and Dynamic Speakers. Handsome appearance. Provides excellent baffling. Overall size 9" high, 7" wide, 3 1/2" deep.



Cabinet with 5 Inch Magnetic Speaker Speaker chassis not mounted, no connecting cord included.

4E10489—YOUR PRICE EACH **\$2.65**

Ten for \$25.00

New Walnut Cabinet



For Magnetic or Dynamic Speakers Takes any Speaker Not Over 9 Inches Diameter. 14D10481—Cabinet Only. List Price \$3.50. Your Price, **\$1.85**
Each

TEN FOR \$16.75

Attractive new design cabinet. Genuine Walnut front and sides in rich warm walnut brown finish. Neat grille with fine, dark gold, figured, two tone grille cloth. Very strong and rigid yet light in weight. Placed back of front grille is a heavy laminated baffle board with centered 5 1/2" circular hole. Veneer back cover drilled with six 1 1/4" holes makes for a finely finished job and insures best acoustic properties. Height 11". Width 10 1/2". Depth overall 8 1/4". Screw holes omitted so that properly finished job can be made with any speaker.

Cabinet with 8 Inch Magnetic Speaker

14D10482—YOUR PRICE **\$3.65**
EACH

TEN FOR \$31.50

Special Speaker Cabinet

For Magnetic or Dynamic Speakers



Attractive Square Design

14D10483—YOUR PRICE **\$1.25**
Each

TEN FOR \$11.90

Same cabinet knocked down, unfinished and with no grille in front

4D10484—YOUR PRICE, **59c**
Each

TEN FOR \$5.40

For speakers or midget sets. Takes any speaker not over 8 3/4" diameter. Genuine Walnut front. Rich two tone gold grille cloth back of attractive grille. Warm Walnut-Brown finish. Size overall 12 1/2" high, 12 1/4" wide, 8 1/2" deep. Inside dimensions, 8 3/4" high, 10 1/4" wide, 7" deep.

Walnut Cabinet



For Speakers or Midget Sets 14D10480 Your Special Price **\$2.94**

A beautiful Gothic Cathedral design in high grade fine quality finish. Suitable for mounting any speaker chassis shown on this page or any other speaker not over 3 1/2 inches diameter. Front frame of speaker is of beautiful walnut veneer in rich rub grain. The attractive grille backed with gold bronze silk grille cloth is in contrasting lighter tone. Edge of grille base and routing on side of the case are outlined with dull black lacquer. Heavy 3/4" in. sides. Size 16 in. high, 14 in. wide, 9 1/2" in. deep.

5 Inch Magnetic

4E10451—List Price \$2.50. YOUR PRICE **\$1.19**
EACH

Ten for \$10.90



Improved design. Midget type speaker. Sturdily built. Very fine tone qualities. Overall diameter 5-1/8". Overall depth 2". Heavy pressed steel frame, cadmium plated. Heavy magnet with improved balanced armature unit. Bakelite strip with mounting lugs. Recommended as a replacement speaker in Midget A.C.; A.C.-D.C.; Battery Sets; for Hotel Room or other P.A. multi-unit installations; for extension speaker on any home or auto set. Handles about 1 1/2 watts without blasting. D.C. resistance about 1000 ohms.

6 Inch Magnetic

Overall diameter 6". Same construction as 5" Size. 4E10454—List Price, \$3.50. YOUR PRICE, EACH **\$1.49**

Ten for \$13.50

8 3/8" Magnetic

4E10450—List Price \$4.50.

Your Special Price, Each **\$1.95**

Ten for \$17.90



A highly efficient speaker that gives more volume on less energy input. Finest tone quality with true fidelity. Operates at peak with about 0.7 watts power input. Extra heavy magnet with balanced armature unit which is both mechanically and electrically centered. An ideal speaker for original installation in battery set or for use as an extra extension speaker in sets using dynamic speaker. Mounted in Walnut cabinets we supply, this speaker makes a very high grade installation on Hotel and P.A. job. D.C. resistance about 1000 ohms. Overall diameter 8 3/8 inches. Depth 4 3/8". Rigid steel frame with mounting holes in outer diameter.

Special 4 1/2" Dynamic

250 Ohm Field, Voice Coil 5/8", 2 Ohms Impedance

4E10555—List Price \$2.50.

YOUR PRICE, EACH **69c**

Ten for \$6.50



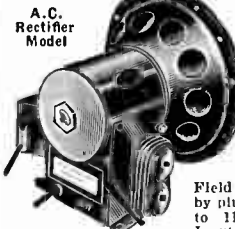
The Smallest Satisfactory Dynamic Speaker Made. Three Point 2 inch mica-spider-web voice coil support. Low resistance Hum-Bucking coil. Handles 1 1/2 watt signal with surprising tone quality for such a small reproducer. Extends 2 1/2" back of baffle. Output Transformer not included. Instruction sheet explains how to add this speaker to existing circuits without use of transformer, as a "second" or "high frequency accentuating" speaker. Low resistance field coil permits substitution of field in place of first filter choke in majority of receivers.

4 1/2" Twin Dynamics

4E10556—List Price, \$5.00. YOUR PRICE, "Twin-Speakers" **\$1.35**

Same speakers supplied as Non-Resonant Twins with option of connecting fields for 125 or 500 ohm 50 to 100 milliamper circuit and the option of connecting the voice coils for 1 or 4 ohm impedance circuit. Especially recommended for use with small P. A. Systems where small speakers must be employed near the microphone without feed-back distortion and the large regular speakers used at a distance from the microphone. Handle 3 watts. We recommend our 500 ohm line to 4 ohm voice coil matching transformer to couple these speakers in circuit with larger dynamic units.

A. C. DYNAMIC



with Metallic Rectifier

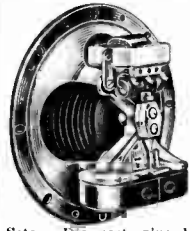
14D10453

Your Price

\$4.76

Field coil current obtained by plugging in cord direct to 110 Volt A.C. line. Input transformer matches single 45, 71A, 50 or 2A3 tube. Cone is 9" in diameter.

BEST'S Kinematic Power Speaker



A new design. Handles amazing power without rattles or distortion. Has same power handling capacity as Dynamic Speaker of same cone size. Requires no field current. Used to replace Dynamos where field current is not available. Especially suitable for P.A. extensions, replacement of magnetic speakers, or as second speaker in Console Sets. Die cast zinc body securely anchored to steel cone frame. Has permanent magnets. Impedance coil and capacity units mounted on frame prevents D.C. from entering impedance circuit and admits A.C. only to speaker windings.

With Impedance Capacity Unit
5" Diameter Cone 2 3/4" depth 2 Watts Power Handling Capacity 120-7000 cycle freq. 1 1/2 lbs. net weight.
4E10475—
 List Price, \$6.00.
YOUR PRICE \$3.10

6 1/2" Diameter Cone 2 3/4" depth 3 Watts Power Handling Capacity 110-7000 cycle freq. 2 lbs. net weight.
4E10476—
 List Price, \$7.50.
YOUR PRICE \$3.65

8" Diameter Cone
 Overall depth 2 1/2". Power handling capacity 3 3/4" watts. Frequency 100 to 7000 cycles. Wt., 3 lbs.
4E10474— List Price, \$8.50.
YOUR PRICE \$4.15

Without Impedance Capacity Unit
 Same physical and electrical specifications as those listed above except without impedance coil and capacity unit. Approx. 1000 ohms impedance.
5" Diameter Cone 6 1/2" Diameter Cone
4E10471— **4E10472—**
 YOUR PRICE **\$2.10** YOUR PRICE **\$2.65**

8" Diameter Cone
4E10473—
YOUR PRICE \$3.15

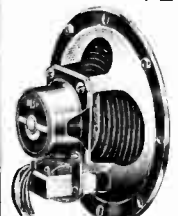
Best Midget Dynamic Chassis



Diameter 5 Inches
 Especially designed for Midget, and AC-DC Sets. Fidelity of tone surpassed only by the finest of large size speakers. Strong rugged construction. Rust proof aluminum finish. Moisture proof cone. 16 mounting holes in flange of cone housing. Mounting bracket with 2 1/2" centers is part of field housing—enabling rigid attachment to chassis. New plug-in feature provides best and easiest assembly and test. Field Res. 3000 ohms. P.D., 7 1/2 watts. Voice coil Dia. 5/8". Imp., 4.25 ohms. Pwr., 4 watts. Res., 3 ohms. Shipping weight, 2 1/2 lbs.

WITH INPUT TRANSFORMER FOR YOUR PRICE
4D10466 Single 43, 45 or 71A EACH **\$2.75**
4D10467 Single 31, 42, 89 or 1A
4D10468 Single 38
4D10469 Single 48 or 2A3 **TEN FOR \$25.00**

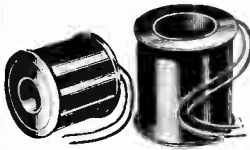
Best 6 1/2" Dynamic



A Special Value
4E10470—
 List. \$9.50. **\$1.95**
 Your Price.
 Each.....
TEN FOR \$18.00
 Full Size Genuine Best Dynamic Speaker Chassis. One-piece moulded cone. Diaphragm type spider holds voice coil in exact center regardless of expansion or contraction of cone. Rust-proof of aluminum finish. Strong, rugged construction. ohms. Output transformer included. Power handling capacity 3 watts. Power dissipation of fields 5 watts.

Speaker Centering Shims
3E7970—
 Your Price, Per Kit..... **39¢**
 For centering and adjusting cone in pole piece of speaker. Insure simple, positive, spacing and centering for Voice Coils and Armatures. Make Speaker Repairs and replacements easier to handle. Kit includes four of each size shims in following thicknesses—.005", .0075", .010", and .0125". Shims are made of very flexible celluloid. Each size shim is distinctively colored to denote its thickness. Packed in a convenient case with a separate compartment for each size.

Replacement Speaker Field Coils



They duplicate exactly the electrical and physical characteristics of the originals. All coils are double dipped in a special impregnating solution and will withstand extreme moisture and changes of temperature. Resistance guaranteed accurate.

Field Coils Supplied for All Speakers
 We can supply any field coil not included in our listing. When ordering Special Field Coils please send us the following information: (1) Inside diameter of hole through center of coil. (2) Outside diameter of coil. (3) Width or height of coil. (4) Resistance of coil. (If you cannot determine the resistance send a short piece of wire used in the windings of the coils.) (5) If possible give us the name and model number of both speaker and receiver.

Set or Speaker	Field Ohms	Stock Number	Your Price
ATWATER KENT 46, 47, Late 53, 55F, 55FC 55, 55C, 60, 60C 61, 61C, 66	1,700 1,100 700	3E7911 3E7912 3E7913	\$2.50 2.50 2.50
BRUNSWICK MODEL D11, D11, 15, S14, S21	2,500 2,500 600 5,000	3E7914 3E7915 3E7916 3E7917	2.10 1.35 3.53 4.70
CROSLY MODEL M45 269 (Buddy Boy)	1,500 10,000	3E7918 3E7919	2.95 2.39
EDISON R7	4,500	3E7920	3.25
JENSEN Models D7-D8 D7-D8 D9-D15 D9-D15 D9-D15 D16	1,500 2,500 600 1,000 1,800 2,500 1,000	3E7921 3E7922 3E7923 3E7924 3E7925 3E7926	2.57 2.75 1.75 1.65 1.47 1.21
LYRIC No. 9	5,000	3E7927	3.50
MAGNAVOX 9' (Medium) 9' (Medium)	2,500 7,500	3E7928 3E7929	2.80 2.25
MAJESTIC Model G1, 71, 72 G2, 71, 72 91, 92, 181 G3, 90, 91 93, 101, 102, 103	3,100 2,730 2,730	3E7930 3E7931 3E7932	3.25 3.25 3.30
G9 G10B, 151, 153, 154, 155, 156 G10C, 351 G10D, 56, 57, 58 G10E, 221 G11B, 251, 253, 254	1,250 1,750 200 1,650 765 570	3E7934 3E7935 3E7936 3E7937 3E7938 3E7939	4.41 2.20 1.50 2.00 1.88 1.94

Set or Speaker	Field Ohms	Stock Number	Your Price
MAJESTIC (Continued) G11C, 201, 203, 204 G13, 253, 254, 211, 214 G4, Models 130 G5 Models 131, 132, 233, 61, 72, 163	1,430 570 7,650	3E7940 3E7933 3E7941	2.20 1.55 4.41
G6, Models 51, 52, 131 G7, Model 21 G8, Model 22 G9, Model 23 G13B, Model 353 G14, Model 351	1,000 1,250 1,250 1,250 300 750	3E7943 3E7944 3E7945 3E7946 3E7947 3E7948	3.55 4.41 4.41 4.41 1.95 3.88
G14B, Model 353 G14C, Model 223 G14D, Model 223 G14E, Model 221 G14F, Model 307 Models G13C, 215	550 5,350 720 5,350 1,040 570	3E7949 3E7950 3E7951 3E7952 3E7953 3E7954	3.88 3.88 3.53 3.88 3.88 1.94
OXFORD (Medium)	4,000	3E7955	2.75
PHILCO Model 20 86, 87, 65, 95, 76, 96, 77	3,300 2,000	3E7956 3E7957	1.15 1.74
RCA Model 66 106	7,000 6,000	3E7958 3E7959	2.25 2.45
ROLA Model F4	3,000	3E7960	1.75
STEWART WARNER Series 950 Models 200A, 445A, 505A Model R202	10,000 10,000	3E7961 3E7962	3.95 2.39
UTAH Model 9', A-100 Model Little Giant (Isdoyne)	2,250 2,500	3E7963 3E7964	3.00 1.95
VICTOR RE32-45-75	3,000	3E7965	1.95

Magnavox Automobile Speaker

Models 150A - 154A
 New line quality and practical design are the outstanding features of the new, improved Magnavox Auto Speakers. Tone is full, rich and true—a conspicuous feature among auto speakers.

SINGLE STUD MOUNTING
 Installation simple and easy. Speaker can be mounted on dash-board or bulkhead. Round baffle can be 8 3/4" in diameter and 1" in depth. Finished in black enamel. Stud protrudes 2" from rear of unit. Two types are available: Type 150A with 6 1/2" unit and type 154A with 8" unit. 6 volt, with 4 ohm field coil.

Output Transformer
 When ordering specify type of tube or tubes speaker is for and whether connected in single or push-pull. The correct output transformer will be included.

4E10625—
 Type 150A 6 1/2" model. List Price, \$10.00.
YOUR PRICE \$4.21

4E10626—
 Type 154A 8" model. List Price \$12.00
YOUR PRICE \$4.95

Magnetic Speaker Coils

for RCA R-100, 30, and Western Electric 540AW
Magnetic Speakers
3E7968—
 Your Price, Per Pair **35¢**
 Exactly duplicate the original coils physically and electrically. Total Resistance 1500 ohms. Size 2 1/32" outside diameter with 3/8" hole. Thickness 3/8". See Figure 52, Page 43, Gernsback Manual Vol. 1.
 For RCA R-100A, 100B and 103 D.C. resistance 1200 ohms. Size of each coil, 1 1/4" outside diameter, 3/4" hole diameter, 1/4" thickness. For Speakers used in RCA Models 30A, 50, and 51. For use with any Speakers using this same size coil.
3E7969—
YOUR PRICE, PER PAIR 35¢

Special Speaker Coil Kits

For APEX, FLORITONE U. S. Radio & Telev. and Mont. Ward Sets

High grade coils wound more accurately and impregnated more thoroughly than the originals. The complete specifications given below assure you of receiving exact coil needed.

YOUR PRICE

Set Model	Fact. Spkr. Num.	Our Stock Num.	Resist. Field Ohms	Dimensions I. D. O. D. L.
20	2714	3E7900	5,935T	1 1/4" 2 1/4" 7 1/2"
26	2286	*3E7901	11,500T	1 1/4" 2 1/4" 1 1/2"
26A	2467	*3E7902	11,500T	1 1/4" 2 1/4" 1 1/2"
26P	2758	*3E7903	11,500T	1 1/4" 2 1/4" 1 1/2"
26P	2925	*3E7904	11,500T	1 1/4" 2 1/4" 1 1/2"
26P	3261	3E7905	1,000	3/8" 2 1/4" 1 1/2"
27	1936	3E7906	1,000	1 1/4" 2 1/4" 1 1/2"
32	2505	3E7907	700	1 1/4" 2 1/4" 1 1/2"
8A	3801	*3E7908	6,600T	1 1/4" 2 1/4" 1 1/2"
10B	2802	*3E7909	6,600T	1 1/4" 2 1/4" 1 1/2"
99A	3261	3E7910	1,000	1 1/4" 2 1/4" 1 1/2"

*Tapped at 2400 Ohms †Tapped at 3000 ohms.

Paper Rings For Speaker Mounting

3E7971—
 Your Price, Per Set **25¢**
 An assortment consisting of 9 rings. One each of the following sizes: 2 1/2", 3", 4", 5", 6", 7", 8", 9", 10", 11", 12" and 13" outside diameters. A great time saver and convenience for any serviceman. In mounting of speaker on cabinet or baffle.

Radio Repair Cement

For Speaker Cones, Anchoring Wires Etc.
3E2066—
 YOUR PRICE, Per Set **39¢**
 Waterproof. Makes extra strong durable joint. Ready for use. Generous size metal can will last for months. Brush and can of thinner included. Thinner is also useful for loosening cemented wires and removing voice coils.

REPLACEMENT SPEAKER CONES VOICE COIL ASSEMBLIES



**1 2 3
FEATURES**

- 1— One-piece seamless cones.
 - 2— Due to improved molded construction, these cones surpass the originals in tone quality and durability.
 - 3— Coils are machine wound, same number of turns and size of wire as originals.
- WE CAN FURNISH CONES FOR ANY SETS NOT LISTED:** Send in your old cone with voice coil attached.

For Majestic Speakers G1, G2
One piece moulded, seamless fibre. The original part in these Speakers is of heavy paper and does not provide reproduction at all comparable with that of these replacements. Make the change and note the improvement.

4E11560—For G1
4E11561—For G2
YOUR PRICE EACH 94¢

Improved DeLuxe VICTOR Cone
For RE32, 45, 57, 75
Made of reinforced one piece fabric, coated with metallized lacquer. Apex is double reinforced, a feature not used in the original. Bakelite voice coil bobbin with 4 layers of precision wound wire. Far superior to the original part.

4E11618—YOUR PRICE, EACH 89¢

For Philco
4E11583—For Models 87, 65, 95, 76, 96, 77, 40, 111, 90, 112.
YOUR PRICE 68¢

4E11584—For Models 90, 3, 7, 20, 21, 70.
YOUR PRICE 61¢

For Radiola 104, 105
Replaces the out-of-date seamed paper type cones used originally in the speakers of this type.

4E11585—YOUR PRICE \$1.19

For Atwater Kent
43, 46, 55, 60, 66, 67, 74
Equals or surpasses the original cones.

4E11500—Part 15132
4E11501—Part 14374
YOUR PRICE \$1.19

FOR RADIOLA 106, R80, R82, R86, R35, R39, RE57, R84, R50, R55, RA69, RA79, AZ774B, R41DC, R46, R47, R66, R41AC, R67, R64, 9-54, 9-18, 7-26, 9-56, 12-12, WESTINGHOUSE WR4, WR5, WR6, WR7, RCA VICTOR RE37, 34, 35, GRAYBAR GB678, GB700, GB770, GB900, GB100. GEN. ELEC. 180, 185, 176.

4E11526—YOUR PRICE, EACH \$1.10

For Brunswick
S81, S82, 81, 82, 14, 21, 31, S14, S21, S31
4E11519—YOUR PRICE \$1.42

Set or Speaker Model or Part Number	Diam. In.	Stock Number	Your Price	Set or Speaker Model or Part Number	Diam. In.	Stock Number	Your Price	Set or Speaker Model or Part Number	Diam. In.	Stock Number	Your Price
AIRLINE 62-70				LYRIC Model No.9 D	10 1/4	4E11545	\$1.23	RCA (Continued)			
Utah Large Cub No.3	8	4E11523	\$1.23	Model S-7 (Jensen D15	8 3/4	4E11529	1.10	RCA M34, 28	5	4E11588	\$0.61
332-W (Little Giant No.1)	8	4E11507	1.23	Model 10	9	4E11546	1.23	CRD, RA784, CRD9AC,			
ATWATER KENT 43,				Model S-6 (Rola F-6)	7 1/2	4E11547	1.34	CRD-9DC	10	4E11589	1.10
46, 55, 60, 66, 67, 64	10 1/4	4E11500	\$1.19	Model 88	10	4E11548	1.23	R71, R718, R-24, SWA3	7 1/2	4E11590	.98
(Part No. 15142)				Model S80	9 3/4	4E11549	1.23	R74, R76, R77, R181	10	4E11591	1.10
43, 46, 55, 60, 66, 67, 64	10 1/4	4E11501	1.19	MAGNAVOX 137, D8	9	4E11550	\$1.34	R73, R75, R70			
(Part No. 14374)				130 Series, Model 136	8 1/4	4E11551	1.22	ROLA F5	6 1/4	4E11593	\$1.10
80, 82, 84, 558, 627, 87,	8 3/8	4E11502	.98	130 Series, Model 138	8 1/2	4E11525	1.22	Series F6	8	4E11594	1.17
90, 92, Early 83, 85				140 Series, Model 142	9 1/2	4E11553	1.22	(Old Model "J"), D90,			
(Part No. 10465)				Model 143	11 1/4	4E11554	1.34	Series "K"	9 1/2	4E11595	1.22
H2, L, F, P, H,				Model 144	7 1/2	4E11522	1.18	D110		4E11592	1.27
(Part 18081)	10 1/4	4E11503	1.23	Model 150	6	4E11556	1.10	SIMPLEX (N.E.)	6	4E11630	\$0.98
77, 88, 89, 94, 96, 469,	10 3/4	4E11504	1.23	Model 154	8	4E11524	1.22	SPARTAN			
Late 83, 85, (Pt. 20737)				Deep	11 1/2	4E11559	1.42	737, 931, 89A, 99, 101,			
BOSCH 58, 48	9 3/4	4E11510	\$1.35	MAJESTIC	9	4E11560	\$0.94	109, 110, 111, 301, 589,			
31, 73, 20J	9 3/4	4E11511	1.35	G1—Models 71, 72	9	4E11561	.94	591, 593, 730, 750, 930	9	4E11550	\$1.34
5A, 39A	7	4E11512	1.10	G2—Models 71, 72, 91,	9	4E11562	.98	737, 931, (Jensen D7)	11 1/4	4E11531	1.34
BRUNSWICK 10	8 3/4	4E11514	\$1.23	92, 181	9	4E11563	.98	600 Series (Jensen D15)	8 1/4	4E11529	1.10
D, E	9	4E11517	1.23	G3—Models 90, 91, 93,	10	4E11562	.98	600 Series (Magnavox 138)	7 3/4	4E11525	1.10
D11, 12, 16, 18, 33	12	4E11517	1.42	101, 102, 103	10	4E11563	.98	Model 410 (Rola K)	7 3/4	4E11596	1.27
E17, 24, 25	12	4E11518	1.42	G4—Model 130	10	4E11563	.98	STEINITE All Models	10	4E11597	1.42
S81, S82, 81, 82, 14	12	4E11519	1.42	G5—Models 131, 132,	12	4E11564	1.42	STEWART-WARNER			
21, 31, S14, S21, S31	12	4E11505	1.42	233, 61, 62, 163	10	4E11565	1.22	200A, 445A, 565A, (950			
15, 22, 32, 42	12	4E11505	1.42	G6—Models 51, 52, 53	10	4E11566	1.22	Series) (2 Point Spdler)	9	4E11598	\$1.34
CLARION 60, 80, 81, 85,	8 3/4	4E11514	\$1.22	G7—Model 21	12	4E11567	1.42	445A (3 Point Spdler)	9	4E11599	1.34
90, 91, 100, 120, 25-60	8 3/4	4E11515	1.10	G8—Model 22	12	4E11568	1.42	R202.	8	4E11600	1.22
220, 260, 25-200	8 3/4	4E11515	1.10	G9—Model 23	12	4E11568	1.42	U.S. APEX GLORITONE			
CROSLLEY 262, 42S, 40S,				G10B—Models 151, 153,	7 1/2	4E11569	.98	30, 31 (Utah Stadium)	11	4E11508	\$1.42
628	9	4E11520	\$1.19	154, 155, 156	10	4E11570	1.18	718 (Utah Large Cub No.2)	7 3/4	4E11509	1.22
124 (Utah Cub No. 2)	8	4E11521	1.42	G11—Models 251, 253,	10	4E11571	1.10	20, Speaker 2747	8 1/2	4E11602	1.10
124 (Jensen D-9)	11 1/4	4E11521	1.34	254, 201, 203, 204	12	4E11571	1.10	26, Speaker 2286	6	4E11603	.98
124 (Magnavox 144)	7 1/4	4E11522	1.34	G13—Models 253, 254,	12	4E11571	1.10	26A, Speaker 2464	8	4E11604	.98
125 (Utah Cub No. 3)	7 3/4	4E11523	1.34	211, 214, 353, 215	12	4E11572	.98	26P, Speaker 2758	8	4E11605	.98
135 (Magnavox 154)	8	4E11524	1.23	G14—Models 351, 353,	12	4E11572	.98	26P, Speaker 2925	8	4E11606	1.10
249 (Magnavox 138)	8 1/2	4E11525	1.23	223, 221, 307	12	4E11573	.98	26P, Speaker 3261	8	4E11607	1.10
FADA Shallow	8 1/2	4E11626	\$1.34	G19—Models 291, 293, 294,	10	4E11573	.98	27, Speaker 1936	8 1/2	4E11608	.98
Deep (Models 20, 32, 25,	8 1/2	4E11627	1.34	303, 304, 324, 314	12	4E11574	.98	28, Speaker 2801	10	4E11609	1.10
15, 15B, 15C)	10 1/4	4E11628	1.42	G22—Models 336, 344,	12	4E11574	.98	10B, Speaker 2802	10	4E11610	1.10
KU45, 41, 412, 42, 422,	10 1/4	4E11628	1.42	363, 393	12	4E11574	.98	99A, Speaker 3261	8	4E11611	1.10
44, 46, 47				G25A—Model 381	5	4E11575	.68	Utah Cub (2 Point Spdler)	6	4E11633	\$1.10
GENERAL ELECTRIC				G26A—Models 371, 373	5	4E11576	.73	Cub (3 Point Spdler)	6	4E11613	1.10
T41, H51, H32, 1172,	10 1/4	4E11526	\$1.23	G26B—Models 411, 413,	5	4E11577	.71	Large Cub No. 1 (Inside	7 3/4	4E11614	1.22
S22, S42, S132, K62, S42B	10	4E11527	1.23	411A, 413A	5	4E11578	.81	Spdler)	7 3/4	4E11509	1.22
J80, J85, J76	10	4E11527	1.23	D65—Model 331 (Best)	6 1/4	4E11578	.81	Large Cub No. 2 (2 Point	7 3/4	4E11523	1.22
GENERAL MOTORS				D-5—Models 371, 373	8	4E11534	1.10	Spdler)	7 3/4	4E11523	1.22
"Little General (Rola K)	7 3/4	4E11528	1.27	GJ-16B—Model 311	8	4E11534	1.10	Large Cub No. 3 (3 Point	7 3/4	4E11523	1.22
GRAYBAR GB678,				NEWCOMB-HAWLEY				Spdler)	8	4E11507	1.07
GB700, GB770, GB900,	10 1/4	4E11526	\$1.23	NH9	9	4E11550	\$1.34	Little Giant No. 1 (Inside	8	4E11507	1.07
(RCA 106)				OXFORD 2 Point Spdler	8 1/4	4E11579	\$1.18	Spdler)	8	4E11616	1.22
GB8, GB989, GB9, GT7,	10	4E11527	1.23	(Joy Kelsey) 2Pt. Spdler	10	4E11580	1.22	Little Giant No. 3 (3 Point	8	4E11506	1.22
GC13, GC14, GT8, (RCA				2 Point Spdler	10	4E11581	1.22	Spdler)	8	4E11617	1.34
48)				3 Point Spdler	10	4E11632	1.34	A100	11	4E11508	1.42
ISODYNE Utah Little				3 Point Spdler	12	4E11582	1.34	Stadium (66A-66B)	11	4E11508	1.42
Giant No.1 Inside Spdler	8	4E11507	1.23	PHILCO 87, 65, 95, 76,	10	4E11583	\$0.68	VICTOR RE32, 45, 75	10 1/4	4E11618	\$0.89
JENSEN D4, D5	9 1/4	4E11530	\$1.42	96, 77, 40, 111, 90, 112	8	4E11584	.61	RE37, 34, 35 (RCA106)	10 1/4	4E11526	\$1.22
D7, D8	11 1/4	4E11531	1.42	90, 3, 7, 20, 21, 70	10	4E11585	\$1.19	WESTINGHOUSE			
D9 (Outside Spdler)	11 1/4	4E11532	1.32	RCA 104, 105	8	4E11585	\$1.19	WR4, WR5, WR6, WR7	10 1/4	4E11526	\$1.22
D9 (Inside Spdler)	11 1/4	4E11521	1.32	106, R80, R82, R86, R29,				WR10, WR12, WR15	10	4E11527	1.22
D11	8 1/4	4E11533	1.18	RE57, R34, R50, R55,				WRIGHT-DECOSTER			
D15	8 1/4	4E11529	1.10	R46, RA659, RA679,				No. 107	12	4E11631	\$1.42
D16	8 1/2	4E11534	1.10	AZ774B, R47, R41DC,				ZENITH			
AUDITORIUM DA5,				R66, R41AC, R67,				52, 72 (Oxford)	12	4E11620	\$1.42
<											

EXACT DUPLICATE

THEY FIT! Mounting holes, lugs, voltages and everything exactly like the original. Better insulation and higher safety factor than the original but otherwise the same. If the transformer you desire to replace is not the one originally supplied with set, send us on a separate sheet with your order, make, model, and style mounting employed and we will supply the proper replacement. The leading transformer factories of the country are located only a few blocks from our plant and are prepared to duplicate almost any transformer you desire, very promptly.

STANCOR REPLACEMENTS

Complete Stock—Quick Shipments

Additional Models

We are constantly adding to our stock additional models of Replacement Power Transformers. If the transformer you require is not quoted here, write us for price, stating make and model of the receiver and the number and type of tubes used. We will promptly send you a low quotation on the job and guarantee an exact replacement.

POWER TRANSFORMERS

Diagram of Connections

Each unit is packed in an individual carton containing a planograph which plainly designates the connecting leads, the voltages, and gives the circuit. When ordering, state name, model number of the set for which transformer is required together with the stock number and you will be assured of prompt shipment.

25 Cycle Can Be Supplied

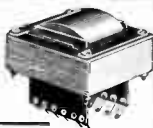
Transformers for 25 cycle current can be supplied for any Radio Models listed at an additional cost of 60% above price quoted for 60 cycle Transformers.

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
AIRLINE (Mont. Ward)					
AE-10	8	3E3629	P-1478	\$9.25	\$5.44
11, 12, 16, 62-29	5	3E3680	P-1136	6.50	3.82
22, 62-520	3	3E3620	P-1070	4.15	2.44
26-P	3	3E3621	P-1358	5.00	2.94
32-W, 62-030, 62-232	7	3E3624	P-1291	6.25	3.67
26W	5	3E3623	P-1405	5.00	2.94
60	6	3E3625	P-1404	7.00	4.12
1238	6	3E3628	P-1479	7.00	4.12
1355, 1955	7	3E3630	P-1016	7.25	4.26
62-21, 62-22, 62-30	7	3E3626	P-1461	7.75	4.56
62-68	7	3E3631	P-1495	7.50	4.41
62-010	7	3E3627	P-1438	7.85	4.62

Airline 26-W and Apex 26-W

Stancor Type No. P-1405. Shipping weight, 5 lbs.
List Price, \$5.00.

\$2.94



3E3623—YOUR PRICE

ALL-AMERICAN MOHAWK

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
60, 61, 62, 65, 66, 80	9	3E3638	P-1463	\$8.25	\$4.85
83, 84, 85, 86, 88	7	3E3639	P-1038	7.20	4.22
90	7	3E3633	P-1134	8.75	5.14
Lyric D, Lyric H	4	3E3635	P-1406	5.25	3.09
J, P	4	3E3637	P-1410	5.25	3.09
S6	5				

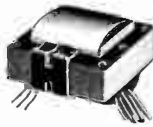
ATWATER-KENT

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
37, 37C, 38	6	3E3649	P-716	\$5.75	\$3.38
55-Early, 55C-Early	9	3E3651	P-918	9.25	5.44
55-Late, 55C-Late	9	3E3650	P-913	9.25	5.44
60-1st type, 60-2nd type	9	3E3652	P-1066	9.25	5.44
60C-1st type, 60C-2nd type	9				
60-3rd type, 60C-3rd type	10	3E3663	P-1500	6.10	3.59
66-Early & Late—Plate	10	3E3653	P-1213	8.50	5.00
70-L1 chassis, 70-L2 chassis					
70-P chassis, 72-H1 chassis					
72-H2 chassis, 74-L1 chassis					
74-L2 chassis, 74-P chassis					
76-L1 chassis, 76-L2 chassis					
76-P chassis	5	3E3654	P-1068	6.10	3.59
80, 83	5	3E3655	P-1088	6.10	3.59
82, 85	5	3E3657	P-1084	6.10	3.59
84-Early, 84-Late	5	3E3659	P-1086	6.10	3.59
87-1st type, 87-3rd type					
89-1st type, 89-3rd type					
89P-1st type, 89P-3rd type	6	3E3661	P-1089	6.60	3.88

Atwater-Kent Models 70, 72, 74, 76 Chassis Models L1, L2, H1, H2P

Stancor Type No. P-1068. Shipping wt., 5 lbs. List, \$6.10.

\$3.59



3E3654—YOUR PRICE



Atwater-Kent Models 37, 37C, 38

Stancor Part No. P-716. Shipping wt., 6 pounds. List Price, \$5.75.

\$3.38

3E3649—YOUR PRICE

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
BALKEIT					
52, 55	3	3E3664	P-1149	\$4.00	\$2.35
BELMONT					
41-series 40, 47-series 40	5	3E3665	P-1000	4.25	2.50
51-series 50	3	3E3666	P-453	5.00	2.94
51A-series 50A	4	3E3667	P-597	4.50	2.65
51B-series 50B	3	3E3668	P-1260	4.50	2.65
51C-series 50C	3	3E3669	P-557	6.75	3.97
71-series 70	6				
BOSCH					
29, 825	10	3E3671	P-859	7.50	4.41
BREMER-TULLY					
81, 82, S-81, S-82	11	3E3674	P-1112	8.25	4.85
BRUNSWICK					
S-14, S-21, S-31, S-81	11	3E3674	P-1112	8.25	4.85
S-82, 14, 21, 31, 81, 82	5	3E3682	P-1499	4.40	2.59
10					
11-D, 11A-D, 12-D, 12A-D, 16-D, 16A-D, 18-D, 18A-D, 33-D, 33A-D (chassis)	5	3E3680	P-1136	6.50	3.82
5-KR, 2-KR0, 3-KR0, 5-KR0, 3-KR6, 5-KR6	8	3E3677	P-791	8.50	5.00
3-NC8, 5-NC8	8	3E3678	P-715	7.75	4.56

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
CLARION					
AC-40	4	3E3682	P-1499	\$4.40	\$2.59
AC-60	7	3E3627	P-1438	7.85	4.61
AC-61, AC-70	7	3E3688	P-1429	8.45	4.97
AC-80, AC-81, AC-84, AC-85, AC-120	5	3E3683	P-1928	5.00	2.94
AC-90, AC-90-A, AC-91	8	3E3689	P-1166	6.25	3.67
AC-100	4	3E3610	P-1558	4.40	2.59
AC-120	8	3E3611	P-1974	6.25	3.67
AC-260	8	3E3612	P-1494	5.65	3.32
AC-280	9	3E3613	P-1927	6.25	3.67
AC-300	9	3E3614	P-1915	8.75	5.14
AC-320	5	3E3615	P-1916	3.45	2.03
AC-340	6	3E3616	P-1871	4.40	2.59
AC-360	6	3E3617	P-1861	4.70	2.76

Clarion A.C. 90, A.C. 90A, A.C. 91

Stancor Type No. P-1166. Shipping wt., 8 pounds. List, \$6.25.

\$3.67

3E3689—YOUR PRICE



CROSLLEY

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
40-S, 41-S, 42-S, 45-S, 82-S, (73 Chassis)	7	3E3698	P-1015	\$7.00	\$4.12
41, 41-A, 42, 704-B, 706-Show Box Series	8	3E3699	P-1472	7.00	4.12

EARL

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
31, 32, 33S, 41	7	3E3700	P-893	7.00	4.12

EDISON

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
C-2, R-1, R-2 (Plate—JR Chassis)	5	3E3703	P-961	5.25	3.09
C-4, R-4, R-5 (7R & 8P Chassis)	12	3E3704	P-1143	9.50	5.59

ERLA

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
71, 72, 73, 271, 271-A	8	3E3707	P-1464	7.75	4.56
81, 82, 245	9	3E3708	P-1466	8.50	5.00
224, 224-B	9	3E3709	P-1465	9.25	5.44

EVEREADY

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
31-Series 30, 32-Series 30, 33-Series 30, 34-Series 30 Series 30-C	9	3E3712	P-1030	9.00	5.29
	6	3E3713	P-1480	7.00	4.12
42-Series 40, 43-Series 40, 44-Series 40	7	3E3714	P-956	7.50	4.41
52-Series 50, 53-Series 50, 54-Series 50	7	3E3715	P-901	7.50	4.41

FREO-EISMANN

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
NR-55	7	3E3718	P-1471	7.50	4.41
NR-78, NR-79, NR-90-S, NR-95	7	3E3700	P-893	7.00	4.12
NR-85	9	3E3719	P-1101	8.50	5.00

FRESHMAN

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
Q15, Q16, 3Q15, 3Q16	9	3E3722	P-910	8.00	4.70
Q16-S	9	3E3723	P-919	8.00	4.70
31-S, 32-S, 41	7	3E3700	P-893	7.00	4.12
41-Series 40, 47-Series 40 Series 50	3	3E3665	P-1000	4.25	2.50
51A-Series 50A	5	3E3666	P-453	5.00	2.94
51B-Series 50B	4	3E3667	P-597	4.50	2.65
51C-Series 50C	4	3E3669	P-1260	4.50	2.65

GENERAL ELECTRIC

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
H-31, H-51, H-71	9	3E3726	P-713	\$8.35	\$4.91
J-70, J-75	6	3E3738	P-1487	5.20	3.06
J-80, J-85, S-132	7	3E3736	P-1483	6.90	4.06
K-62	8	3E3730	P-1474	8.00	4.70
S-22, S-22X, S-42	7	3E3732	P-1481	7.50	4.41
S-22A	7	3E3734	P-1482	7.00	4.12
T-12	5	3E3740	P-1393	5.20	3.06
T-41	9	3E3728	P-927	7.35	4.32

General Electric H31, H51, H71

Stancor Type No. P-713. Shipping wt., 9 pounds. List, \$8.35.

\$4.91

3E3726—YOUR PRICE



GENERAL MOTORS

Model	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
110, 180, 190 (Little General M-A Chassis)	6	3E3743	P-1485	\$5.75	\$3.38
211 (General M-A Chassis)	6	3E3742	P-1271	5.80	3.41
220 (S-10-A Chassis)	6	3E3744	P-1506	5.80	3.41
252, 253, 254, 255, 256, 257, 258 (S-3-A Chassis)	8	3E3745	P-1492	8.00	4.70

**EXACT
DUPLICATE**

STANCOR REPLACEMENTS

**POWER
TRANSFORMERS**

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
GRAYBAR					
310, 311	8	3E3677	P-791	\$8.50	\$5.00
340	8	3E3678	P-715	7.75	4.56
500, 550	9	3E3748	P-714	7.90	4.64
600	8	3E3749	P-883	7.50	4.31
GB-4	5	3E3740	P-1493	5.20	3.06
GB-8	7	3E3732	P-1481	7.50	4.41
GB-8-A	7	3E3734	P-1482	7.00	4.12
GB-9	8	3E3730	P-1474	8.00	4.70
GB-678	9	3E3728	P-927	7.35	4.32
GB-700, GB-770, GB-900	9	3E3726	P-715	8.35	4.91
GB-989, GC-14, GT-8	7	3E3736	P-1483	6.30	4.06
GC-13, GT-7	6	3E3738	P-1487	5.20	3.06
GREBE					
AC-7 (Synchrophase)	7	3E3750	P-1475	7.00	4.12
HS-4 (PP 458)	5	3E3752	P-1476	6.00	3.53
HS-4 (Pentode)	5	3E3751	P-1477	6.00	3.53
HS-8	5	3E3753	P-1489	6.00	3.53
GULBRANSEN					
60-Series 60, 62-Series 60	6	3E3625	P-1404	7.00	4.12
200 (9 in line series)					
291, 292, 295, 9950	6	3E3629	P-1478	9.25	5.44
KELLOGG					
523, 533, 534, 535, 536	11	3E3756	P-868	9.50	5.59
KENNEDY					
10, 20	8	3E3757	P-792	8.00	4.70
25	8	3E3758	P-1488	8.00	4.70

Kennedy Model 10 and 20

Stancor Type No. P-792. Shipping wt., 8 pounds. List, \$8.00.

\$4.70



3E3757—YOUR PRICE

KOLSTER-BRANDS	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
B-15, B-16	9	3E3763	P-1193	\$9.50	\$5.59
K-20, K-21, K-22, K-23, K-25, K-27, K-28, K-37	8	3E3760	P-1190	8.25	4.85
K-24, K-36	11	3E3761	P-1191	10.00	5.88
K-43	9	3E3762	P-1192	9.00	5.29

KOLSTER-COLUMBIA	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
950	12	3E3764	P-1194	11.25	6.61
961	12	3E3765	P-1437	10.75	6.32

MAJESTIC	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
21, 22, 23 (Unmounted 20 chassis)	6	3E3773	P-954	5.80	3.41
51, 52 (Unmounted 50 chassis)	7	3E3776	P-905	5.20	3.06
71, 72 (Plate, 70 chassis)	6	3E3777	P-790	4.00	2.35
71, 72 (Flt. 70B chassis)	6	3E3778	P-798	4.00	2.35
71, 72 (Plate 70B chassis)	6	3E3769	P-1486	4.00	2.35
90, 91, 93 (90B chassis)					
102 (100-B chassis)	12	3E3779	P-939	7.00	4.12
103 (100-B chassis)					
91, 92 (90 chassis)	11	3E3780	P-757	6.20	3.64
101 (100 chassis)					
130, 131, 132 (130-A chassis)	13	3E3774	P-1102	8.00	4.70
233 (230-A chassis)					
151, 153 (Unmounted 15 chassis), 154 (Unmounted 15-B chassis), 155 (Unmounted 150 chassis) 156 (Unmounted 15 chassis)	4	3E3772	P-906	3.70	2.29
181 (Plate, 180 chassis)	11	3E3782	P-789	5.80	3.41
151 (Plate 180 chassis)	11	3E3781	P-805	4.30	2.53
211, 214, 215 (Unmounted 210 chassis)	8	3E3783	P-1507	6.10	3.59
251, 253, 254 (Unmounted 25 chassis) 251-B, 253-B, 254-B (Unmounted 25-B chassis)	7	3E3775	P-1168	5.50	3.23

Majestic Models, 71, 72, (70 Chassis)

Stancor Type No. P-790. Shpg. wt., 6 lbs. List, \$4.00.
3E3777—YOUR PRICE

\$2.35

Filament Transformer

Models 71, 72 (70 Chassis)
Stancor Type No. P-798. Shpg. wt., 6 lbs. List, \$4.00.
3E3778—YOUR PRICE

\$2.35

Majestic Models 91, 92 (90 Chassis)

Model 101 (100 Chassis)
Power Transformer
Stancor Type No. P-757. Shpg. wt., 11 pounds.
3E3780—List, \$6.20.

\$3.64



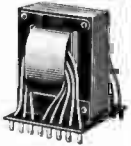
NATIONAL CARBON CO. (See Eveready)	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
NAVIGATOR					
41 (Series 40) 47 (Series 40)	3	3E3665	P-1000	\$4.25	\$2.50
51 (Series 50)	5	3E3666	P-453	5.00	2.94
51A (Series 50-A)	4	3E3667	P-597	4.50	2.65
51C (Series 50-C)	3	3E3669	P-1260	4.50	2.65
71 (Series 70)	6	3E3668	P-557	6.75	3.97

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
OZARKA					
90	8	3E3785	P-220	\$8.25	\$4.85
93-A	6	3E3668	P-557	6.75	3.97
Viking 91	8	3E3786	P-1484	8.25	4.85

Ozarka Model 90

Stancor Type No. P-220. Shpg. wt., 8 pounds. List, \$8.25.

\$4.85



3E3785—YOUR PRICE

PEERLESS (See United Reproducers Corp.)

PHILCO	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
20, 220 (Chassis 20)	7	3E3794	P-762	\$6.50	\$3.82
50, 51, 52, 551	5	3E3791	P-1460	4.50	2.45
65 (Chassis 65)	8	3E3795	P-711	7.65	4.50
70, 270, 370, 470, 570	7	3E3806	P-1119	6.50	3.82
76, 77	7	3E3796	P-785	7.65	4.50
86 (Chassis 86)	7	3E3797	P-786	7.65	4.50
87 (Chassis 87)	8	3E3798	P-763	7.35	4.32
90, 490 (Chassis 90, 1-47)	8	3E3792	P-1468	6.25	3.67
90, 490 (Chassis 90, 2-478)	9	3E3803	P-1497	6.25	3.45
90 (Chassis 90, 2-458)	8	3E3793	P-1469	7.45	4.38
91 (Chassis 91)	8	3E3804	P-1498	5.95	2.95
95, 96, 296	9	3E3799	P-787	7.15	4.20
111, 211 (Chassis 111),	10	3E3800	P-788	7.15	4.20
112, 212 (2-478)	9	3E3801	P-582	7.65	4.50
511 (511 Chassis)	7	3E3802	P-784	7.65	4.50

Philco Model 65 (Chassis 65)

Stancor Type No. P-711. Shpg. wt., 8 lbs. List, \$7.65.

3E3795—YOUR PRICE

\$4.50

Philco Models 20, 220, (Chassis 2)

Stancor Type No. P-762. Shpg. wt., 7 lbs. List, \$6.50.

3E3794—YOUR PRICE

\$3.82

Philco Model 87 (Chassis 87)

Stancor Type No. P-763. Shpg. wt., 8 lbs. List, \$7.35.

3E3798—YOUR PRICE

\$4.32



RCA-RADIOLA-VICTOR	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
AP-736, AZ-774B, 10-69					
10-51, (above Ser. No. 800)					
10-70, (above Ser. No. 2600)					
12-15, (above Ser. No. 2600)	16	3E3817	P-1473	\$17.25	\$10.14
AP-736B, 9-16X	16	3E3818	P-1430	16.25	9.55
AP-777C, R-64, R-67, 9-18X, 9-54	19	3E3816	P-827	22.50	13.23
E-35, E-135, E-152, R-32, R-52, RE-45, RE-75, RE-154, RE-156	10	3E3819	P-717	8.50	5.00
R-4, R-6	6	3E3738	P 1487	5.20	3.06
R-5, R-5X	5	3E3740	P-1493	5.20	3.06
R-7, R-9	7	3E3732	P-1481	7.50	4.41
R-7A	7	3E3734	P-1482	7.00	4.12
R-12, RE-10, RO-23, R-8, R-10	7	3E3736	P-1483	6.90	4.06
R-11, R-21, RA-E26, RE-18, RE-18A	8	3E3730	P-1474	8.00	4.70
R-14, R-15, R-42, R-48, R-17	9	3E3728	P-927	7.35	4.32
R-17, R-18AC, R-33AC, R-51AC, RAD-50, 7-11, 7-25, 7-26X	8	3E3677	P-791	8.50	5.00
R-34, R-35, R-39, RE-57, RE-73	9	3E3821	P-718	8.00	4.70
R-44, R-46AC, R-47	9	3E3748	P-714	7.90	4.64
R-60, R-62	8	3E3678	P-715	7.75	4.56
R-66	9	3E3749	P-883	7.50	4.41
R-80, R-82, R-86	9	3E3726	P-713	8.35	4.91

RCA Victor Radiola Models R 80, R 82, R 86

Graybar GB 700, GB 770, GB 900

Westinghouse WR5, WR6, WR6R, WR7

Stancor Type No. P-713. Shpg. wt., 9 pounds.

List, \$8.35. **3E3726—YOUR PRICE**

\$4.91

RCA Victor R 44, R 46AC, R 47

Graybar 500, 550

Stancor Type No. P-714. Shpg. wt., 9 lbs. List, \$7.90.

3E3748—YOUR PRICE

\$4.64

RCA Victor R 60, R 62, Brunswick 3 NC 8, 5 NC 8

Stancor Type No. P-715. Shpg. wt., 8 lbs. List, \$7.75.

3E3678—YOUR PRICE

\$4.56

RCA Victor R 17, R 18 AC, R 33 AC, R 51 AC, RAD 50, 7-11, 7-25, 7-26X

Graybar 310, 311. Brunswick 5 KR, 2 KRO, 3 KRO, 5 KRO 3 KR6, 5 KR6

Stancor Type No. P-791. List, \$8.50.

3E3677—YOUR PRICE

\$5.00

RCA Victor Radiola Models E-35, E-135, E-152, R-32, R-52, RE-45, RE-75, RE-154, RE-156

Stancor Type No. P-717. List, \$8.50.

3E3819—YOUR PRICE

\$5.00



**EXACT
DUPLICATE**

STANCOR REPLACEMENTS

**POWER
TRANSFORMERS**

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
SENTINEL RADIO CORP.					
108, 108A, 108B, 110	5	3E3851	P-420	\$ 4.80	\$2.82
111, 112, 114, 115, 116	7	3E3850	P-1253	8.50	5.00
(Chassis 104)	7	3E3850	P-1253	8.50	5.00
SILVER MARSHALL					
B, J	7	3E3822	P-1496	8.00	4.70
D, E, F	7	3E3825	P-1439	3.00	4.70
Q DeLux below No. 40,000	9	3E3826	P-1467	8.00	4.70
V. 728 Short-Wave					
Q Short-Wave R	9	3E3826	P-1467	8.00	4.70
Sheridan 750	10	3E3823	P-1491	9.00	5.29
726 Short-Wave	5	3E3824	P-1272	5.00	2.94
	10	3E3830	P-1490	9.00	5.29
SONORA					
A-30, A-32, A-40	8	3E3828	P-1380	8.90	5.23
2R-P-25, 3-R, 4-R	8	3E3828	P-1380	8.90	5.23
A-31, A-33, A-35	9	3E3829	P-1462	8.00	4.70
SPARTAN					
AC-7, 62, 63	5	3E3807	P-1373	6.25	3.67
9-A, 410, 420, 600A	7	3E3808	P-1196	8.00	4.70
610A, 620A	7	3E3808	P-1196	8.00	4.70
25, 26, 26A W, 30, 30A	10	3E3809	P-1204	8.00	4.70
30B, 45	10	3E3809	P-1204	8.00	4.70
35, 101, 110, 111, 111A	12	3E3831	P-1412	10.25	6.03
870					
89-A	12	3E3831	P-1412	10.25	6.03
99, 109	8	3E3810	P-921	7.45	4.38
103, 301, 301A, 564	11	3E3832	P-1411	9.00	5.29
570, 574, 578, 740, 750	7	3E3811	P-1372	10.25	6.03
589	7	3E3811	P-1372	10.25	6.03
591, 593, 931	7	3E3812	P-909	8.00	4.70
	7	3E3813	P-864	8.00	4.70

Spartan Models 591, 593, 931

Power Transformer

Stancor Type No. P-864. Shpg. wt., 7 pounds. List. \$8.00.

3E3813—YOUR PRICE

\$4.70



RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
SPLITDORF					
M-5 (Plate)	5	3E3703	P-961	\$5.25	\$3.09
STEWART-WARNER					
801, 801-A, 802, (Series A)	7	3E3837	P-1108	7.25	4.26
801, 801-A, 802, (Series B)	7	3E3837	P-1108	7.25	4.26
901, 902, 903 (Series 900)	7	3E3839	P-1470	6.50	3.82
951, 952, 953 (Series 950)	7	3E3839	P-1470	6.50	3.82
R-100-A, (Series R-100)	7	3E3839	P-1470	6.50	3.82

Stewart-Warner Models 901, 902, 903, (Series 900)

951, 952, 953, (Series 950) R-100 A (Series R-100)

Stancor Type No. P-1470. Shpg. wt., 7 lbs.

List. \$6.50. **3E3839—YOUR PRICE**

\$3.82



RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
STROMBERG-CARLSON					
10, 11	10	3E3842	P-1209	\$8.85	\$5.20
641, 642, 652, 654	10	3E3843	P-834	8.75	5.14
846, 848	10	3E3844	P-1053	9.00	5.29

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
TEMPLE					
8-60, 8-61, 8-80, 8-81, 8-90, 8-91	8	3E3846	P-219	6.75	3.97

TRANSFORMER CORP. OF AMERICA (See Clarion)

STANCOR FILTER CHOKES

Top Quality at a Reasonable Price!

EXACT-DUPLICATE REPLACEMENTS

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
ATWATER-KENT					
36, 37, 38, 40, 42	0.7	3E3980	C-1162	\$1.45	\$0.85
43, 44, 52	0.7	3E3980	C-1162	1.45	.85
BELMONT					
425, 525, 530	0.6	3E3981	C-1318	1.20	.70
545, 625	0.6	3E3981	C-1318	1.20	.70
CLARION					
AC-160, AC-260	2	3E3982	C-1315	1.90	1.12
25-160, 25-260	2	3E3982	C-1315	1.90	1.12
AC-300, 25-300	3	3E3983	C-1270	2.20	1.29
AC-360, 25-360	2	3E3984	C-1271	1.40	.82
FRESHMAN					
425, 525, 530, 452, 625	0.6	3E3981	C-1318	1.20	.70
NAVIGATOR					
425, 525, 530, 545, 625	0.6	3E3981	C-1318	1.20	.70
PHILCO					
15, 40, 41, 42, 65, 76, 77, 87 (1st position), 95, 96, 111, 112 (using 2-45's), 4.1 4.2, 48, 70, 90, (all models), 91, 470, 490, 87 (2nd position)		3E3986	C-1141-P	2.75	1.62
		3E3998	C-1440-P	1.75	1.01
		3E3987	C-1140-P	3.50	2.06

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
TRAV-LER					
A	5	3E3847	P-149	\$4.75	\$2.79
B	5	3E3848	P-130	4.75	2.79
C	5	3E3849	P-187	4.75	2.79
TRUE-TONE					
60	6	3E3625	P-1404	7.00	4.12
UNITED AIR CLEANER CORP. (See Sentinel Radio Corp.)					
UNITED REPROUCERS CORP.					
70, 71, 72 (Series K-70)	7	3E3788	P-1434	8.00	4.70
U. S. RADIO & TELEVISION CORP.					
7	7	3E3626	P-1461	7.75	4.56
8, (Series 8-A)	6	3E3628	P-1479	7.00	4.12
8, (Series 8-B)	6	3E3628	P-1479	7.00	4.12
9, 19 (900 Chassis)	7	3E3631	P-1495	7.50	4.41
9, 19 (902 Chassis)	7	3E3631	P-1495	7.50	4.41
10, 10-C (1000 Chassis)	7	3E3630	P-1016	7.25	4.26
10-C (1001 Chassis)	7	3E3630	P-1016	7.25	4.26
20 (Gloriette-20 Chassis)	4	3E3623	P-1405	5.00	2.94
26 (Gloriette-26 Chassis)	5	3E3621	P-1358	5.00	2.94
26-P (Gloriette-26-P Chas.)	7	3E3624	P-1291	6.25	3.67
32 Series, (32 Chassis)	9	3E3645	P-340	9.00	5.29
36, 37 (Apex)	9	3E3645	P-340	9.00	5.29

Apex Models 36, 37

Power Transformer

Fits Monroe and Marvelo Model 6-7.

Fits Monroe and Marvelo Model 6-7. Stancor Type No. P-340. Shpg. wt., 9 pounds. List. \$9.00.

3E3645—YOUR PRICE

\$5.29

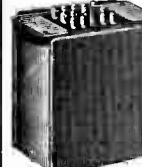


VICTOR (See R. C. A., Radiola, Victor)

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
VIKING (See Ozarka)					
WELLS-GARDNER					
C, CG 60, 63	8	3E3629	P-1478	\$9.25	\$5.44
	6	3E3625	P-1404	7.00	4.12

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
WESTINGHOUSE					
WR-4	9	3E3728	P-927	7.35	4.32
WR-5, WR-6, WR-6-R,	9	3E3726	P-713	8.35	4.91
WR-7	9	3E3726	P-713	8.35	4.91
WR-7-R, WR-8, WR-8-R	9	3E3726	P-713	8.35	4.91
WR-10, WR-12	7	3E3732	P-1481	7.50	4.41
WR-10-A	7	3E3734	P-1482	7.00	4.12
WR-14	5	3E3740	P-1493	5.20	3.06
WR-15	8	3E3730	P-1474	8.00	4.70

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
ZENITH					
10, 11, 12 (Super Zenith)	9	3E3853	P-851	8.00	4.70
52, 53, 54, 55, 90, 61, 62, 64, 67, 71, 72, 73, 77	11	3E3854	P-712	8.00	4.70



Zenith Models 52, 53, 54, 55, 60, 61, 62, 64, 67, 71, 72, 73, 77

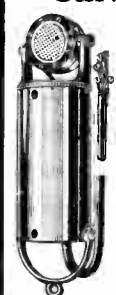
Power Transformer

Stancor Type No. P-712. Shipping wt., 11 pounds. List. \$8.00.

3E3854—YOUR PRICE

\$4.70

Universal Condenser Microphone



The New Model E Condenser Microphone is a professional instrument especially designed for use in Broadcasting Studios, Sound Recording, Public Address, Orchestral Music and all uses where absolute absence of hiss or other background noises is essential. Frequency response from 35 to 10,000 cycles. Connects to standard input transformers of 200 ohms where carbon microphones have been previously used. Two stage amplifier increases the output approximately 30 db. Signal output equals that of the highest quality type of carbon microphone but does not have the usual hiss associated with carbon microphones.

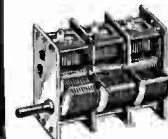
Uses two type 864 non-microphonic tubes. Drain for tubes is 1/4 amp. at 6 volts and 4 mils. on 180 volt battery. Head has automatic barometric adjustment and diaphragm is protected by a solid cast grating. 90° swivel of head permits use directly overhead. Supplied with tubes and 25 feet of shielded rubber covered cable.

3E2808—Black Crackle Finish.
3E2809—Chrome Finish.
List Price, \$60.00.

YOUR PRICE

\$35.28

DeJur-Amsco 3 Gang .000365 Mcg.



Superhet Variable Condenser
Tuning Ratio 6:1. Increased tuning ratio is accomplished by gears which insure a smooth positive drive. Compact. Especially designed for auto radio construction. Aluminum plates. Cadmium plated steel frame. 1/4" shaft extends 1 1/2" size 3 1/2" long, 3 3/8" wide, 1 1/8" high. Clockwise rotation. Oscillator section in front.

3E7309—YOUR SPECIAL PRICE

98¢

STANCOR Exact Duplicate AUDIOS

Replacements for All Popular Sets

Push-Pull Input for Sparton

Push-Pull Input for Philco



Models 9A, 410, 410 DC, 420, 420 DC, 600 A, 610 A, 620A.
Stancor Type A 2128
3E3971—
List, \$3.00.
Your Price **\$1.76**

Models 30, 40, 41, 42, 73, 76, 77, 77A, 98, 83, 86, 87.
Stancor Type A 72 YCP.
3E3961—
List, \$3.25.
Your Price **\$1.91**

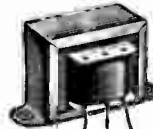


RADIO MODEL	Part	Radio- lek No.	Stan- cor No.	List	Your Price
AIRLINE (Mont. Ward) 62-010	P. P. Input	3E3954	A-2132	\$4.70	\$2.76
BRUNSWICK—10 14, 21, 31, S-31 14, 21, 31, S-14, S-21, S-31, S-81, S-82	Output 1st Audio	3E3990 3E3950	A-2814 AU-101	1.90 3.50	1.12 2.06
	P. P. Input	3E3951	AU-102	4.15	2.44
14, 21, 31, S-14, S-21, S-31, S-81, S-82 15-B, 15-DC, 22-DC, 32-DC, 42-DC	P. P. Output	3E3952	AU-103	3.25	1.91
	P. P. Input	3E3991	AU-104	5.15	3.03
CLARION AC-40 AC-60 AC-61, 25-61	Output P. P. Input P. P. Input	3E3990 3E3954 3E3955	A-2814 A-2132 A-2133	1.90 4.70 4.90	1.12 2.76 2.88
	Output	3E3992	A-2774	2.50	1.47
AC-80, AC-81, AC-84, AC-85, AC-90, AC-90-A, AC-91, 25-80, 25-81, 25-84, 25-85, 25-90	Output	3E3992	A-2774	2.50	1.47
	P. P. Output	3E3993	A-2836	2.50	1.47
	P. P. Output Driver Trans.	3E3994 3E3995	A-2811 A-4126	2.50 2.85	1.47 1.68
	Output P. P. Input	3E3996 3E3997	A-2718 A-4016	1.80 1.70	.94 1.00
GENERAL ELECTRIC H-31, H-51, H-71	Input-Output Assembly	3E3958	AU-100	7.00	4.12
	GRAYBAR GB-700, GB-770, GB-900	Input-Output Assembly	3E3958	AU-100	7.00	4.12
PHILCO 3 (Transitone Chassis) 30 (30 Chassis) 82, 86 (86 Chassis) 83, 87 (87 Chassis)	Input	3E3962	A-74- YP	\$2.95	\$1.73
	Output	3E3965	A- 2392-P	2.40	1.41
3 (Transitone Chassis) 70, 70-A, 270, 270-A, 370, 370-A, 470, 470-A, (70 Chassis) 90, 90-A, 490, 490-A, (90, 1-247 Chassis)	Output	3E3965	A- 2392-P	2.40	1.41
	P. P. Input	3E3963	A- 74-CP	2.35	1.38
20, 20-A, 21, 220, 220-A (20 Chassis) 20, 20-A, 21, 220, 220-A (20 Chassis 40, 41, 42, 46, 346 (Chassis 40)) 62, 65 (65 Chassis) 73, 76 (76 Chassis) 77, 77-A (77 Chassis) 82, 86 (86 Chassis) 83, 87 (87 Chassis)	P. P. Input	3E3963	A- 74-CP	2.35	1.38
	P. P. Output	3E3964	A- 2318-P	2.40	1.41
20, 20-A, 21, 220, 220-A (20 Chassis) 20, 20-A, 21, 220, 220-A (20 Chassis 40, 41, 42, 46, 346 (Chassis 40)) 62, 65 (65 Chassis) 73, 76 (76 Chassis) 77, 77-A (77 Chassis) 82, 86 (86 Chassis) 83, 87 (87 Chassis)	P. P. Input	3E3963	A- 74-CP	2.35	1.38
	P. P. Input	3E3961	A-72- YCP	3.25	1.91
62, 65 (65 Chassis) 73, 76 (76 Chassis) 77, 77-A (77 Chassis) 82, 86 (86 Chassis) 83, 87 (87 Chassis)	P. P. Input	3E3961	A-72- YCP	3.25	1.91
	P. P. Input	3E3960	A-104- CP	\$3.75	\$2.21
111, 111-A, 211, 211-A (111 Chassis) 112, 112-A, 212, 212-A, (112, 2-245's)	P. P. Input	3E3960	A-104- CP	\$3.75	\$2.21
	Input	3E3959	A-72- YP	3.15	1.85
RCA—RAIOLA—VICTOR R-34, R-35, R-39, R-80, R-82, R-86, RAF-68, RE-57	Input-Output Assembly	3E3958	AU-100	7.00	4.12
	P. P. Input	3E3971	A-2128	3.00	1.76
SPARTON 9-A, 410, 410-DC, 420, 420-DC, 600-A, 610-A, 620-A 39, 49, 69, 79, 79-A	Audio	3E3970	A-73- YS	3.00	1.76
	P. P. Output	3E3973	A-2462	2.75	1.62
55, 103, 111-A, 235, 301, 301-A, 564, 570, 574, 578, 591, 593, 740, 750, 870, 931-AC 301-DC, 591, 593, 931-AC, 931-DC	P. P. Input	3E3972	A-2120	3.25	1.91
	Input-Output Assembly	3E3958	AU-100	7.00	4.12

STANCOR Output Transformers



Guaranteed finest quality. Coils are carefully wound and highly insulated. Laminations accurately made of fine silicon steel. Carefully furnished and stacked. Unshielded type. Cadmium plated mounting strips. Wire leads. Designed to withstand hard continuous usage. (For Class "A" Amplification.)



For Single Tubes

For Tubes in Push-Pull

Core Size $\frac{1}{2} \times \frac{1}{2}$ ". Dimensions: Height 2", Depth 1 1/2", Length overall 2 3/4". Hole Centers 2".

Tubes: 71A, 45, 48, 43, 59
3E4186—Stancor A-2203.
List, \$1.10.
YOUR PRICE **65¢**

Tubes: 71A, 45, 48, 43, 59
3E4176—Stancor A-2220.
List, \$1.20.
YOUR PRICE **71¢**

Core Size $\frac{1}{2} \times \frac{1}{2}$ ". Dimensions: Height 2", Depth 1 1/2", Length overall 3 1/4". Hole Centers 2 1/8".

Tubes: 71A, 45, 48, 43, 59
3E4175—Stancor A-2200.
List, \$1.50.
YOUR PRICE **88¢**

Tubes: 71A, 45, 48, 43, 59
3E4186—Stancor A-2201.
List, \$1.60.
YOUR PRICE **94¢**

Tubes: 12A, 10, 31, 41
3E4177—Stancor A-2227.
List, \$1.60.
YOUR PRICE **88¢**

Tubes: 12A, 10, 31, 41
3E4178—Stancor A-2231.
List, \$1.60.
YOUR PRICE **94¢**

Tubes: 33, 47, 2A5, 49, 46, 42
3E4181—Stancor A-2313.
List, \$1.50.
YOUR PRICE **88¢**

Tubes: 33, 47, 2A5, 49, 46, 42
3E4182—Stancor A-2312.
List, \$1.60.
YOUR PRICE **94¢**

Tubes: 38, 89
3E4179—Stancor A-2347.
List, \$1.50.
YOUR PRICE **88¢**

Tubes: 38, 89
3E4180—Stancor A-2348.
List, \$1.60.
YOUR PRICE **94¢**

Core Size $\frac{1}{2} \times \frac{1}{2}$ ". Dimensions: Height 2 1/4", Depth 1 1/2", Length overall 3 1/4". Hole Centers 3 1/8".

Tubes: 71A, 45, 50, 2A3, 13, 59, 48
3E4183—Stancor A-2234.
List, \$2.10.
YOUR PRICE **\$1.23**

Tubes: 71A, 45, 50, 2A3, 13, 59, 48
3E4187—Stancor A-2211.
List, \$2.20.
YOUR PRICE **\$1.29**

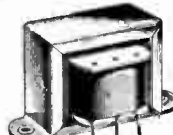
Core Size 1" x 1". Dimensions: Height 2 1/2", Depth 2", Length overall 4 1/2". Hole Centers 3 1/2".

Tubes: 71A, 45, 50, 2A3, 43, 59.
3E4184—Stancor type A-2235. List, \$2.50.
YOUR PRICE **\$1.47**

Tubes: 71A, 45, 50, 2A3, 43, 59, 48
3E4187—Stancor A-2211.
List, \$2.20.
YOUR PRICE **\$1.29**

STANCOR Audio Transformers

For single and pushpull stages. Unmounted with cadmium plated frames and bottom plates. To feed from types 26, 27, 30, 37, 56, 85, 01A tubes and all tubes having similar plate impedances. The 2 to 1 ratio on any size core is for use with all types of tubes listed and in addition will feed from 2A7, 2B7, 12A, 36, 57, 75, 199 tubes and others of higher plate impedances but which do not exceed 12 M.A. plate current.



Midget Size

2" High, 1 1/2" Wide, 2 3/4" Long. Mtg. Ctrs., 2". Core 1/2" x 1/2".

Radiolek Stock No.	Stancor Type No.	Ratio	List Price	Your Price
3E4170	A-64	Straight 4:1	\$1.30	\$.76
3E4171	A-64-C	P.P. Input 4:1	1.40	.82

Regular Size

2" High, 1 1/2" Wide, 3 1/2" Long. Mtg. Ctrs., 2 1/8". Core 3/4" x 3/4".

Radiolek Stock No.	Stancor Type No.	Ratio	List Price	Your Price
3E4150	A-72	Straight 2:1	\$1.90	\$1.12
3E4151	A-72-C	P.P. Input 2:1	2.00	1.18
3E4152	A-73	Straight 3:1	1.90	1.12
3E4153	A-73-C	P.P. Input 3:1	2.00	1.18
3E4154	A-74	Straight 4:1	1.90	1.12
3E4155	A-74-C	P.P. Input 4:1	2.00	1.18

Medium Size

2" High, 2 1/2" Wide, 3 3/4" Long. Mtg. Ctrs., 2 1/8". Core 3/4" x 1".

Radiolek Stock No.	Stancor Type No.	Ratio	List Price	Your Price
3E4156	A-74-Y	Straight 4:1	\$2.10	\$1.23
3E4157	A-74-YC	P.P. Input 4:1	2.20	1.25

Large Size

2 1/2" High, 1 1/2" Wide, 3 1/4" Long. Mtg. Ctrs., 3 1/8". Core 3/8" x 3/8".

Radiolek Stock No.	Stancor Type No.	Ratio	List Price	Your Price
3E4158	A-82	Straight 2:1	\$2.40	\$1.41
3E4159	A-82-C	P.P. Input 2:1	2.50	1.47
3E4160	A-83	Straight 3:1	2.40	1.41
3E4161	A-83-C	P.P. Input 3:1	2.50	1.47
3E4162	A-84	Straight 4:1	2.40	1.41
3E4163	A-84-C	P.P. Input 4:1	2.50	1.47

Giant Size

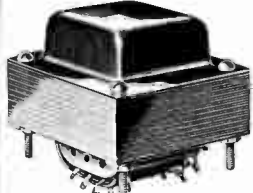
2 3/4" High, 2" Wide, 4 1/2" Long. Mtg. Ctrs., 3 3/8". Core 1" x 1".

Radiolek Stock No.	Stancor Type No.	Ratio	List Price	Your Price
3E4164	A-102	Straight 2:1	\$2.90	\$1.71
3E4165	A-102-C	P.P. Input 2:1	3.00	1.76
3E4166	A-103	Straight 3:1	2.90	1.71
3E4167	A-103-C	P.P. Input 3:1	3.00	1.76
3E4168	A-104	Straight 4:1	2.90	1.71
3E4169	A-104-C	P.P. Input 4:1	3.00	1.76

Radolek Power Transformers

50-60 Cycle

Highest quality, conservatively rated universal type shielded Power Transformers made expressly for RADOLEK. All primaries are for 115 V. 50-60 cycle A.C. unless otherwise specified.



65 Watt for 4-6 Tubes

Type R-609. Provides 5 volts at 2 amperes for the rectifier tube and 245 volts at 5 1/2 amperes C.T. for the heater tubes. 600 Volts C.T. supplies 55 MA. for the power circuit. Mounting area 2 1/2" x 3 1/4". Four mounting bolts 3/4" in from each corner. 2" above panel, extends 1" below deck. Wt. 2 1/2 lbs. Black enameled housing.

3E4086—List, \$2.00. YOUR PRICE 95¢

50 Watt for 4 Tube Midgets

TYPE R-504. Accommodates one type 80 tube on a 5 volt, 2 ampere winding and a 245, 57 and 58 on the 245 volt, 4 ampere C.T. circuit. The high voltage circuit is 575 C.T. 40 MA. limit. 110 V. 50 cycle Primary. Mounting area 2 1/2" x 3 1/4". Mfg. 2" x 3 1/4". Requires 1" clearance below deck and 1 1/2" above deck.

3E4084—List, \$1.65. YOUR PRICE 69¢

90 Watt for 7-11 Tubes

Type R-756. 90 Watt. For 7 to 11 tubes requiring equal or less current than rating of the windings given: 5 Volts, 2 Amps., 2 1/2 Volts, 10 Amps. C.T. 700 Volts, 65 MA. C.T. Mounting area. 3 1/2" x 2 1/2". Two hole Mfg. Centers, 2 1/2". Allow 2 1/2" clearance above deck and 1 1/2" below deck. Wt. 3 1/2 lbs.

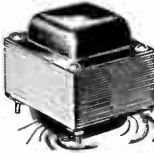
3E4086—List, \$4.50. YOUR PRICE \$1.39

60 Watt for 4-5 Tubes

For those localities where power line voltage is apt to run too high.

Type R-796. A 60 watt replacement for four and five tube receivers of the 110 volt type which overheat on 125 volts, or consistently burn out tubes. Flexible 8" thinned copper insulated leads. Secondaries—5 volts, 2 Amps.; 2 1/2 Volts, 5 Amps. C.T.; 700 Volts, 50 MA. C.T. Mounting area 2 1/2" x 3". Mfg. Centers, 2" x 2 1/2".

3E4087—List, \$3.00. YOUR PRICE \$1.29



P-A Type Power Transformer

Type R-758. Weight 7 lbs handles 140 Watts. For Public Address amplifiers or large radio receivers. 115 Volt 60 Cycle. Secondaries supply: 120 MA. thru a 700 volts center-tapped rectifier plate circuit. 5 volts at 3 amperes for a 5Z3 or 80 tube, and 2 1/2 volts, 14 Amperes, C.T. for heater tubes. Mounting area 3 1/2" x 3 3/4". Height 4 1/2".

3E4090—List, \$7.00. YOUR PRICE \$2.45

Semi-Universal Output Transformer

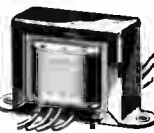
For use with single or push-pull power tubes drawing less than 35 MA. plate current and having less than 7000 ohms output load characteristic. Center-tapped primary. 0-0 center tap on secondary permits choice of overall ratios of 25:1, 45:1, 70:1. Will exactly match Push-Pull 45 tubes to 1.5 Ohm, 3.5 Ohm, or 10 Ohm voice coil. Will match single 47, 245, etc. to 2 Ohm, 4 Ohm, or 12 Ohm, voice coil circuit. Mfg. C. 2 3/4". 1" core. 2" x 2 3/4".

3E4092—List Price, \$3.00. YOUR PRICE 84¢

Radolek Multi-Tap Choke

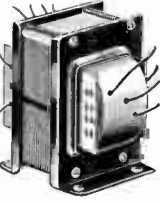
3E3923—List, \$3.00. YOUR PRICE \$1.45

For use with a tube short checking device, as a line balancing impedance, and as an audio autotransformer. Excellent for balancing microphone mix circuits. D.C. Resistance 1500 ohms. 3/4" silicon steel core. Regular shell type open transformer frame, 2" x 2 1/4" x 1 1/4" thick. 40 MA. current carrying capacity. Mfg. Holes 2 3/4".



THORDARSON

New Sparton Power Transformers built by Thordarson exactly according to the original specifications of the transformers supplied Sparton.



For SPARTON Models 52, 63, AC-7

For B-11, 401, and 71A tubes. Pri., 110 V. Sec., 3 V. 5 A. C.T., 5 V. 1 A., 900 V. 70 Ma. C.T. Sparton Part No. B-1454.

3E4366—Type T-2397. List, \$4.00. YOUR PRICE \$2.35

For Sparton Models 69, 79-A

For 80, 50, and 485 (or 381) tubes. Pri. 110-120-130 V. Sec. 5 V. 2 A. C.T., 600 V. 75 Ma. C.T., 7 1/2 V. 1 1/2 A. C.T., 3 V. 7 A. C.T. Shpg. wt. 6 lbs. Sparton Part No. B-1871.

3E4367—Type T-2907 D. List Price, \$6.00. YOUR PRICE \$3.53

For Sparton 89-A

For 2-815, 50 and 485 tubes. Pri., 110-120-130 V. Sec., 7 1/2 V. 2 1/2 A. C.T., 1100 V. 90 Ma. C.T., 7 1/2 V. 1 1/2 A. C.T., 3 V. 7 A. C.T. Sparton Part No. C-292. Shpg. wt. 8 lbs.

3E4368—Type T-3321. List, \$8.00. YOUR PRICE \$4.70

For Sparton 109 and Ensemble

For 2-815, 2-505, and 6-4955. Pri., 110-120-130 V. Sec., 7 1/2 V. 2 1/2 A. C.T., 1000 V. 150 Ma. C.T., 7 1/2 V. 2 1/2 A. C.T., 3 V. 7 A. C.T. Shpg. wt. 11 lbs. Sparton Part No. C-257.

3E4369—Type T-3202. List, \$9.50. YOUR PRICE \$5.59

For Sparton 101, 110, 111A, 574, 870

Has 1 1/2 volt circuit for Phono-Combination sets. 300 Watt Capacity, sufficient for 12 and 13 tube Sparton receivers. Shpg. wt., 12 lbs.

3E4370—Type T-3865-B. List, \$12.00. YOUR PRICE \$7.06

For Sparton 301, 564, 570, 578, 740, 750

For 6-4855, 2-2505, and 2-2815. Pri., 110-120-130 V. Sec., 7 1/2 V. 2 1/2 A. C.T., 7 1/2 V. 2 1/2 A. C.T., 1200 V. 150 Ma. C.T., 3 V. 7 A. C.T. Shpg. wt. 10 lbs.

3E4371—Type T-3773-B. List, \$8.00. YOUR PRICE \$4.70

Special Heavy-Duty Outputs

T-5745. Open Style. Carries 60 Ma. in P-P circuits using type 50 and 2A3 tubes. Will match any 6 to 12 ohms V.C. circuit. Size 2 1/2" x 2 1/4" x 3" High.

3E4310—List, \$3.00. YOUR PRICE \$1.76



T-2003. Shielded. Carries 60 Ma. in P-P circuits with type 50 or 2A3 tubes Tapped for 4, 8, 15 ohm voice coil circuits. Size 3 1/2" x 3 3/4". List, \$4.00.

3E4311—YOUR PRICE \$2.35

ORIGINAL REPLACEMENT

For SPARTON 931, 235, 589, 591, 737, 593, 600 Series

For 7-4815 (or 4855), 2-482Bs (or 483s), and 1-80. Pri., 110-120-130 V. Sec., 5 V. 2 A. C.T., 600 V. 90 Ma. C.T., 3 V. 7 A. C.T., 5 V., 3 A. C.T. Shpg. wt. 7 lbs.

3E4372—Type T-3770-C. List, \$7.00. YOUR PRICE \$4.12

For Sparton 930

For 6-4845 (or 4855), 2-482Bs, and 1-80. Pri., 105-115-130 V. Sec., 5 V. 2 A. C.T., 600 V. 70 Ma. C.T., 3 V. 7 A. C.T., 5 V. 3 A. C.T. Shpg. wt. 5 lbs.

3E4373—Type T-3987. List, \$5.00. YOUR PRICE \$2.94

For Sparton 410, 420, 600A, 610A, 620A

For 2A4, 27, 483, and 80 tubes. Pri., 100-110-120 V. Sec., 5 V. 2 A. C.T., 600 V. 90 Ma. C.T., 5 V. 3 A. C.T., 2 1/2 V. 4 A. C.T. Shpg. wt., 7 lbs.

3E4374—Type T-4555. List, \$6.00. YOUR PRICE \$3.53

POPULAR SPARTON AUDIOS

Made by Thordarson According to the Original Factory Specifications For Sparton 931, 301

Straight Audio sub-panel shielded style for use in extra stage audio supplied with 10-tube 931 and 11-tube 301 Models employing a first stage audio tube. Sparton Part No. B-2587. Type T-3978.

3E4375—List, \$2.00. YOUR PRICE \$1.18

For Sparton 931, 589

Push-Pull Input. Matched to couple a 485 tube into push-pull 483s. Also fits the 10-tube Model 589. Sparton Part No. A-4104. Type T-3422.

3E4377—List, \$2.00. YOUR PRICE \$1.18

For Sparton 930, 931

Push-Pull Output. Matched to couple push-pull 482B or 483 Sparton tubes into 8" Magnavox or 10" Jensen Speakers supplied with Sparton Receivers. Sparton Part No. A-3763. Type T-3399.

3E4378—List, \$1.75. YOUR PRICE \$1.03

For Sparton 301, 564, 570, 578, 740, 750, 103

Push-Pull Output. Matched to couple push-pull 585 or P-P 50 tubes to 8" Magnavox Speakers. Open type. Sparton Part No. B-2430. Type T-3905-B.

3E4379—List, \$2.75. YOUR PRICE \$1.62

Universal Output Transformer

Thordarson Type T-5701

Designed to couple any exact types 50 and 2A3 power tubes or P-P "A" or "A prime" circuit to a Dynamic Speaker voice coil or combination of voice coils the impedance of which lies between 1/10th and 29 ohms. A high primary impedance and five secondary windings in series, each of a different number of turns, permit a wide selection of ratios. The correct ratio equals the square root of the quotient of the load impedance of the power tubes divided by the load impedance of the voice coil circuit. A complete chart showing all possible combinations is furnished. No measurement necessary to determine any application. Size 1 3/8" x 2 3/8". List, \$2.00.



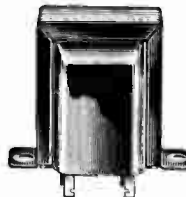
3E4343—YOUR PRICE \$1.18

Manufacturer's Type Audio Transformers

Interstage Straight Audio

Intended for use in replacing standard Manufacturer's type Audios in hundreds of Sets. Exact replacement for first and some second stage positions in Monroe, Marvelo, Knight, Kennedy, Bush-Lane, and others. High-grade silicon steel core. Black japanned case. Sub-panel lug connections. Safe plate current carrying capacity, 10 Ma. A special application of this Transformer is for use as a phono-input Transformer when used with a high impedance Pickup. Ratio 1:3. Size 2" x 2 1/4" x 2 3/4" high. Mfg. hole centers 2 3/4".

3E4335—List, \$2.00. YOUR PRICE 95¢



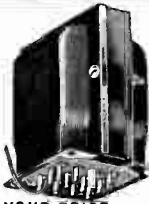
Push-Pull Audio Input

Replacement push-pull Manufacturer's Type Audio Input for class "A" and "A prime" audio systems. Tone characteristic has a slight hump between 80 and 100 cycles giving a pleasing bass effect without detracting from the highs. Sub-panel lug connections. Safe plate current carrying capacity, 10 Ma. Any triode tube input may be used with plate voltage under 250. Suitable grid impedance for all "A" type amplifier tubes, both pentode and triode. Ratio 1:3. Size 2" x 2 1/4" x 2 3/4" high. Mfg. hole centers 2 3/4".

3E4337—List, \$2.50. YOUR PRICE \$1.23

FACTORY TYPE TRANSFORMERS

THORDARSON



Philco Transformers as originally built by Thordarson for Philco. All are EXACT Replacements for Receivers specified. 50-60 Cy. AC.

Power Transformers for PHILCO 20, 220
Philco No. 4234
 For 21A, 27, 71A, and 80 Tubes. Pri. 115 V. Sec. 2 1/2 V. 7 A. C.T. 5 V. 3 A. C.T. 5 V. 2 A. C.T. Shpg. wt., 7 lbs.
3E4382—Type T-4401-A. List. \$6.00. YOUR PRICE \$3.53

PHILCO No. 4446 for Models 111, 112, 211
 For 21A, 27, 45, and 80 tubes. Pri. 115 V. Sec. 2 1/2 V. 14 A. C.T. 2 1/2 V. 3 A. C.T. 5 V. 2 A. C.T. 750 V. 150 Ma. C.T. Shpg. wt., 10 lbs.
3E4383—Type T-4558-A. List. \$6.00. YOUR PRICE \$2.49

PHILCO No. 3752 for Models 95, 96, 296
 For 24A, 27, 45, and 80 tubes. Pri. 115 V. Sec. 2 1/2 V. 10 1/2 A. C.T. 2 1/2 V. 3 A. C.T. 5 V. 2 A. C.T. 700 V. 80 Ma. C.T.
3E4385—Type T-4248. List. \$6.00. YOUR PRICE \$3.53

PHILCO S-W Fil. Transformer
 For 2 tubes. Pri. 115 V. Sec. 2 1/2 V. 1 A. C.T.
3E4380—Type T-5061. List. \$1.75. YOUR PRICE \$1.03

PHILCO Audio Transformers
 Straight Audio for Models 86-87. Part No. 3242.
3E4381—Type T-3420-A. List. \$2.25. YOUR PRICE \$1.32

PHILCO Input Transformers

Stock Number	Set Model	Type No.	List Price	Your Price
3E4323	20, 21	T-4400	\$2.25	\$1.32
3E4324	65, 95, 96, 111	T-4252	3.50	2.06
3E4325	30, 86, 87	T-3835	2.75	1.62
3E4326	47, 91	T-5204	2.25	1.32
3E4327	15, 112, 212 (2-47's)	T-4989	3.25	1.91
3E4328	90, 90-13, 390	T-4807	2.75	1.62

Philco P-P Output Transformers

Stock Number	Set Model	Type No.	List Price	Your Price
3E4329	15, 91	T-5276	\$1.40	\$0.82
3E4330	20, 220, 86	T-4814	2.00	1.18
3E4331	42, Twin Spkr 71, Twin Spkr	T-5277	1.35	.79
3E4332	70, 270, 470	T-4832	\$2.00	\$1.18
3E4333	65, 76, 87, 90, 90-B, 95, 296, 111, 112	T-4254	2.00	1.18

R-100 Universal Audio



3E4300—List. \$1.75. YOUR PRICE \$1.03

Designed for making convenient audio repairs. May be mounted in 75% of Receivers without drilling extra holes. Excellent tone. Ratio 1 to 3 1/2. Size 1 1/2 x 2 1/2 x 1 1/2" high. Convenient solder lug connections.

R-103 Universal Audio Replacement

3E4301—List. \$2.00. YOUR PRICE \$1.18
 Employs heavier core than R-100, resulting in better bass note response. At least an octave greater tone range. Ratio 1.3 1/2. Size 1 1/2 x 2 1/2 x 1 1/2". Same style universal mounting brackets.

R-300 Straight Audio



3E4305—List. \$4.00. YOUR PRICE \$2.35
 Known to custom Setbuilders as the finest Audio available. 1:3 ratio. Practically "straight line" audio characteristics from 30 to 8000 cycles. Size 2 1/2 x 2 1/2 x 3 1/2" high. Excellent for use with type 56 or 2A6 stage working into a 56 or power stage.

Type T-2408 P-P Input (Matches R-300. 3E4307—List. \$4.00. YOUR PRICE \$2.35

The last word in quality Push-pull Audio amplification. Ratio 1:2. Ideal for coupling 56 or 27 tube to any class "A" or "A" prime P-P Amplifier. Install this Transformer in any suitable Radio or Amplifier and note the improvement.

PHILCO No. 3400 for Model 87

For 26, 27, 45, and 80 tubes. Pri. 115 V. Sec. 1 1/2 V. 4 1/2 A. C.T. 2 1/2 V. 3 A. C.T. 2 1/2 V. 2 A. C.T. 5 V. 2 A. C.T. 750 V. 100 Ma. C.T. 8 lbs.
3E4386—Type T-3614. List. \$7.00. YOUR PRICE \$4.12

PHILCO No. 3271 for Model 86

For 26, 27, 71A and 80 tubes. Pri. 115 V. Sec. 1 1/2 V. 4 1/2 A. C.T. 2 1/2 V. 2 A. C.T. 5 V. 1/2 A. C.T. 5 V. 2 A. C.T. 700 V. 80 Ma. C.T. 7 lbs.
3E4387—Type T-3170. List. \$6.00. YOUR PRICE \$3.53

PHILCO No. 3868 for Mod. 76, 77

For 26, 27, 45, and 80 tubes. Pri. 115 V. Sec. 2 1/2 V. 7 A. C.T. 2 1/2 V. 3 A. C.T. 5 V. 2 A. C.T. 650 V. 100 Ma. C.T. 7 pounds.
3E4388—Type T-4247. List. \$7.00. YOUR PRICE \$4.12

PHILCO 70, 270, 470

For 21A, 27, 47, and 80 tubes. Pri. 115 V. Sec. 2 1/2 V. 9 A. C.T. 2 1/2 V. 2 A. C.T. 5 V. 2 A. C.T. 700 V. 90 Ma. C.T. 7 pounds. Part No. 5117.
3E4389—Type T-4831. List. \$6.50. YOUR PRICE \$3.82

PHILCO No. 3516 for Model 65

For 24A, 27, 45, and 80 tubes. Pri. 115 V. Sec. 2 1/2 V. 5 1/2 A. C.T. 2 1/2 V. 3 A. C.T. 5 V. 2 A. C.T. 600 V. 75 Ma. C.T. 8 pounds.
3E4390—Type T-3740. List. \$7.00. YOUR PRICE \$4.12

PHILCO Part No. 5266 50, 51, 52

For 21A, 47, and 80 tubes. Pri. 115 V. Sec. 2 1/2 V. 7 A. C.T. 5 V. 2 A. C.T. 700 V. 70 Ma. C.T.
3E4391—Type T-4918-A. List. \$4.25. YOUR PRICE \$2.50

PHILCO Part No. 5362 for Model 90

Note: Same transformers employed in all Model 90 Receivers. Voltages are proper for all types of output tubes used in the Model 90 series. Pri. 115 V. Sec. 2 1/2 V. 10 1/2 A. C.T. 2 1/2 V. 3 A. C.T. 5 V. 2 A. C.T. 750 V. 90 Ma. C.T. 6 pounds.
3E4392—Type T-4805. List. \$7.00. YOUR PRICE \$3.67

PHILCO 90-B, 390, 490

(Main power transformer; does not provide S-W Fil. supply.) For 24A, 27, 47, and 80 tubes. Pri. 115 V. Sec. 2 1/2 V. 12A. C.T. 2 1/2 V. 3 A. C.T. 5 V. 2 A. C.T. 750 V. 90 Ma. C.T. 6 lbs. Part No. 5362.
3E4393—Type T-4919. List. \$6.25. YOUR PRICE \$3.67

PHILCO Part No. 6672 for Model 15

For 4-44s, 4-37s, 2-42s, 1-80. Pri. 115 V. Sec. 6 V. 4A. C.T. 5 V. 3 A. C.T. 650 V. 80 Ma. C.T.
3E4394—Type T-5292. List. \$5.50. YOUR PRICE \$3.23

R101 P-P Input, 1 : 2 Ratio

3E4302—List. \$2.25. YOUR PRICE \$1.33
 Identical in appearance to the R-100 except that it has slightly larger core. Suitable for coupling any triode tube to any push-pull power tubes. High tension insulation permits use of 300 volt plate circuit without danger of leakage to grid of power tubes. Due to modern design, the tone range is greater than most original Audios.

3E4302—List. \$2.25. YOUR PRICE \$1.33

Identical in appearance to the R-100 except that it has slightly larger core. Suitable for coupling any triode tube to any push-pull power tubes. High tension insulation permits use of 300 volt plate circuit without danger of leakage to grid of power tubes. Due to modern design, the tone range is greater than most original Audios.

Open Style P-P Input

Type T-3391. General characteristics similar to R-101 except for 8 inch insulated coded leads instead of lugs and open style two-hole mounting. Mounting hole centers 2 3/8". Size 1 1/2 x 2 1/2 x 1 1/2". Black enamel finish. Similar to original in majority of Radio Receivers.
3E4309—List. \$2.00. YOUR PRICE \$1.18

Special Thordarson Universal Straight Audio

T-2999 1:3 Ratio
 Designed to feed from 01A, 26, 27, 30, 37, 55, 56, 75, or 2A6 into any single amplifier tube. Open frame mounting. Black enamel finish. Insulated coded leads. Size 1 1/2 x 2 1/2 x 1 1/2". Mounting hole centers 2 3/8".
3E4308—List. \$1.75. YOUR PRICE \$1.03

Universal Push-Pull Input, Type T-3391. Designed to feed from 01A, 26, 27, 30, 37, 55, 56, 75, or 2A6 into any push-pull combination of amplifier tubes. Same physical specifications as T-2999 listed above.
3E4309—List. \$2.00. YOUR PRICE \$1.18

Universal Push-Pull Input, Type T-3391. Designed to feed from 01A, 26, 27, 30, 37, 55, 56, 75, or 2A6 into any push-pull combination of amplifier tubes. Same physical specifications as T-2999 listed above.
3E4309—List. \$2.00. YOUR PRICE \$1.18

Universal Push-Pull Input, Type T-3391. Designed to feed from 01A, 26, 27, 30, 37, 55, 56, 75, or 2A6 into any push-pull combination of amplifier tubes. Same physical specifications as T-2999 listed above.
3E4309—List. \$2.00. YOUR PRICE \$1.18

Universal Push-Pull Input, Type T-3391. Designed to feed from 01A, 26, 27, 30, 37, 55, 56, 75, or 2A6 into any push-pull combination of amplifier tubes. Same physical specifications as T-2999 listed above.
3E4309—List. \$2.00. YOUR PRICE \$1.18

Universal Push-Pull Input, Type T-3391. Designed to feed from 01A, 26, 27, 30, 37, 55, 56, 75, or 2A6 into any push-pull combination of amplifier tubes. Same physical specifications as T-2999 listed above.
3E4309—List. \$2.00. YOUR PRICE \$1.18

Radolek "2A3" Transformers

Built by Thordarson to Radolek Specifications.

Power Transformer for 2A3 Amplifier Type T-5822

Extra heavy. Cool Operating under 100 watt load. Shielded in black japanned steel housing. Knockout provided to permit wiring above chassis as in breadboard layout, or under chassis. For 110-120 volt 50-60 cycle. Secondary windings, 770 V., 150 Ma. C.T.; 5 V., 3A.; 2 1/2 V., 11 A. C.T. Dimensions: 4 1/2" high, x 3 3/4" x 3 3/4". Mounting hole centers, 3 1/8" x 3 1/8".
3E4350—List. \$6.00. YOUR PRICE \$3.53



Push-Pull Input Transformer 3:1 Ratio, Type T-5741

Especially designed to feed from a single 27 or 56 into push-pull 56s or 2A3s. Shielded for under chassis wiring. Mounts on 2 1/2" square 3" high. Mounting holes 2 1/2" centers. Excellent fidelity on bass notes.
3E4342—List. \$3.75. YOUR PRICE \$2.21

3E4342—List. \$3.75. YOUR PRICE \$2.21

Interstage Transformer Type T-5870

Couples push-pull 56s into push-pull 2A3 tubes. Completely shielded. Insulated 8" coded leads. Size 2 1/2 x 2 1/2 x 3 1/2" high.
3E4354—List. \$3.75. YOUR PRICE \$2.21
3E4357—Same in open style unshielded. Type T-6434. List. \$3.50. YOUR PRICE \$2.06

2A3 P-P Output Type T-5746

Shielded sub panel type. Efficiently transfers 15 watts from 2A3 P-P tubes into any speaker voice coil combination having net load value of 6 to 12 ohms. Low resistance—not critical in coupling. Extra heavy windings for high plate current of 2A3 tubes. Matches P-P Input T-5741 in dimensions and appearance.
3E4358—List. \$3.25. YOUR PRICE \$1.91

2A3 P-P Output Open Type T-5745

Same electrical characteristics as Type T-5745. Size 2 1/2 x 2 1/2 x 3 1/2" high.
3E4359—List. \$3.00. YOUR PRICE \$1.76

Filter Choke for 2A3 Circuit Shielded Type T-1700

A heavy bruce-type filter choke capable of carrying 150 ma. signal inductance of 8.75 Henries. Use with 8 Mfd. condensers (preceding and following this choke). D.C. Resistance 251 ohms. Size 3" x 3 1/2" x 3 1/2". Use as first choke only.
3E4349—List Price, \$4.50. YOUR PRICE \$2.65

Second Position Filter Choke Open Type T-5753

Actual inductance of 9.5 Henries (equal to old style rating of "30" H.) at 110 Ma. D.C. Resistance 200 ohms. Insulated 8" leads. Heavy silicon steel core. Size 2 1/2 x 2 1/2 x 3 1/2" high. Mtg. hole centers 3". Standard for 2A3 amplifiers.
3E4341—List Price, \$2.00. YOUR PRICE \$1.18

Microphone Transformers

T-5837: A low priced shielded microphone Transformer. Transfers sharp, clear signals from "Mike" to grid. Designed primarily for the speaking voice. Split primary; matches 200 ohm single or double button microphone.
3E4365—List Price, \$3.00. YOUR PRICE \$1.76



Orchestra: Shielded 1-22 ratio quality double button "Mike" transformer. 50-5000 audio frequency range. For dance bands, vocal, and general speech service. Matches impedance of all standard carbon single or double button microphones.
3E4346—T-3020. List Price, \$5.00. YOUR PRICE \$2.94

Broadcast: The finest type high quality, microphone transformer. Ratio 1-27. 30-7000 audio frequency range. Will give satisfactory service on symphony concerts, wide range organ, etc. For single or double button carbon microphones.
3E4347—T-3180. List Price, \$8.50. YOUR PRICE \$5.00

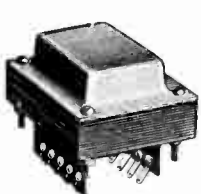
Universal Replacement Transformers

A Style and Capacity for every Receiver

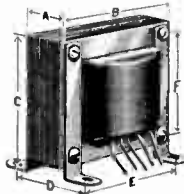
Replace Originals. These Transformers are intended for use where original replacements are not available, or are priced higher than you are willing to pay. From these types you can select the proper model for practically any Radio Set.

Important Information. The first number of Tubes specified below applies for 1 $\frac{1}{2}$ ampere heater Types; the second number applies for heater type Tubes drawing 0.8 to 1 ampere. All Transformers are for 105-120 V. 50, 60 Cv.

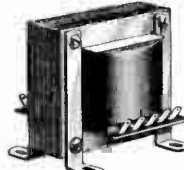
Finest Quality. These Transformers are of first quality, new stock. Correctly engineered, carefully made by skilled workmen in a fully equipped factory. We guarantee that they will equal or surpass any on the market in their price range.



TYPE A



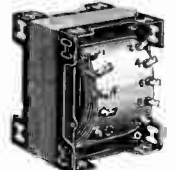
TYPE B



TYPE C



TYPE D



TYPE E

Solder lug connections on fibre strips extending from base. Mounting screw at each corner for flat mounting. Black enameled steel shield cover.

Unshielded type with 12" wire lead connections. Brackets supplied for horizontal mounting. For vertical mounting see bracket listing page 92.

Unshielded type with solder lug connections mounted on fibre strips projecting from both sides. Otherwise identical with type B.

Shielded type. Black enameled steel side plates totally enclose windings. Connections to solder lugs on bakelite plate at base. 12" primary leads.

Fitted with black janned brackets having a wide flexibility for various combinations of mounting positions and mounting hole centers.

Type A	Types B and C	Type D	Type E
3E4009— YOUR PRICE, \$0.97c Size: 2 $\frac{1}{2}$ "x3"x1 $\frac{1}{4}$ " above base. Mtg. Centers 2"x2 $\frac{1}{2}$ ". Shpg. wt., 2 $\frac{1}{2}$ lbs.	Types B and C 3E4024—"B"—Leads. 3E4039—"C"—Lugs. YOUR PRICE, \$1.03 Each. Size: 2"x2 $\frac{1}{2}$ "x3 $\frac{1}{4}$ " high. Mtg. Centers 2"x2 $\frac{1}{2}$ ". Shpg. wt., 3 lbs.	 50 Watt—For 4 Tubes VOLTS 5 2.5 650 AMPS 5 2.5 40MA.	3E4054— YOUR PRICE, \$1.53 Each. Size: 2 $\frac{3}{4}$ "x2 $\frac{1}{2}$ "x3 $\frac{1}{4}$ " high. Mtg. Centers 2"x2 $\frac{1}{2}$ ". Shpg. wt., 3 $\frac{1}{2}$ lbs.
3E4008— YOUR PRICE, \$1.20 Size: 2 $\frac{3}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " above base. Mtg. Centers 2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 2 $\frac{3}{4}$ lbs.	Types B and C 3E4023—"B"—Leads. 3E4038—"C"—Lugs. YOUR PRICE, \$1.30 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x3" high. Mtg. Centers 2"x2 $\frac{1}{2}$ ". Shpg. wt., 3 lbs.	 70 Watt—For 4-6 Tubes VOLTS 5 2.5 2.5 700 AMPS 3 1.75 2.5 100MA.	3E4053— YOUR PRICE, \$1.80 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Mtg. Centers 2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 4 $\frac{1}{2}$ lbs.
3E4007— YOUR PRICE, \$1.52 Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " above base. Mtg. Centers 2 $\frac{1}{2}$ "x3 $\frac{1}{4}$ ". Shpg. wt., 3 $\frac{1}{4}$ lbs.	Types B and C 3E4022—"B"—Leads. 3E4037—"C"—Lugs. YOUR PRICE, \$1.62 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ " high. Mtg. Centers 3 $\frac{1}{4}$ "x2". Shpg. wt., 5 lbs.	 90 Watt—For 5-8 Tubes VOLTS 5 2.5 2.5 700 AMPS 3 1.75 2.5 100MA.	3E4052— YOUR PRICE, \$2.12 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Mtg. Centers 2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 4 $\frac{1}{2}$ lbs.
3E4006— YOUR PRICE, \$1.77 Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x2 $\frac{1}{4}$ " above base. Mtg. Centers 2 $\frac{1}{2}$ "x3 $\frac{1}{4}$ ". Shpg. wt., 5 lbs.	Types B and C 3E4021—"B"—Leads. 3E4036—"C"—Lugs. YOUR PRICE, \$1.87 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ " high. Mtg. Centers 3 $\frac{1}{4}$ "x2". Shpg. wt., 5 lbs.	 95 Watt—For 6-9 Tubes VOLTS 5 2.5 2.5 700 AMPS 3 3 7 100MA.	3E4051— YOUR PRICE, \$2.30 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Mtg. Centers 2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 4 $\frac{1}{2}$ lbs.
3E4010— YOUR PRICE, \$1.85 Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x2 $\frac{1}{4}$ " above base. Mtg. Centers 2 $\frac{1}{2}$ "x3 $\frac{1}{4}$ ". Shpg. wt., 5 lbs.	Types B and C 3E4025—"B"—Leads. 3E4040—"C"—Lugs. YOUR PRICE, \$1.90 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ " high. Mtg. Centers 3 $\frac{1}{4}$ "x2". Shpg. wt., 5 lbs.	 65 Watt—For 6-7 Tubes Special for Type 226-171A VOLTS 5 5 2.5 1.5 600 AMPS 2 0.5 1.75 2.5 100MA.	3E4043— YOUR PRICE, \$2.40 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Mtg. Centers 2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 4 $\frac{1}{2}$ lbs.
3E4005— YOUR PRICE, \$1.85 Size: 3 $\frac{1}{4}$ "x4 $\frac{1}{4}$ "x2 $\frac{1}{4}$ " above base. Mtg. Centers 2 $\frac{1}{2}$ "x3 $\frac{1}{4}$ ". Shpg. wt., 5 $\frac{1}{4}$ lbs.	Types B and C 3E4020—"B"—Leads. 3E4035—"C"—Lugs. YOUR PRICE, \$1.95 Each. Size: 4 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ " high. Mtg. Centers 3 $\frac{1}{4}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 5 $\frac{1}{4}$ lbs.	 115 Watt—For 7-10 Tubes VOLTS 5 2.5 2.5 700 AMPS 3 3 8.75 100MA.	3E4050— YOUR PRICE, \$2.55 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Mtg. Centers 2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 4 $\frac{1}{2}$ lbs.
3E4011— YOUR PRICE, \$2.10 Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x2 $\frac{1}{4}$ " above base. Mtg. Centers 2 $\frac{1}{2}$ "x3 $\frac{1}{4}$ ". Shpg. wt., 5 lbs.	Types B and C 3E4026—"B"—Leads. 3E4041—"C"—Lugs. YOUR PRICE, \$2.22 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ " high. Mtg. Centers 3 $\frac{1}{4}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 5 $\frac{1}{4}$ lbs.	 85 Watt—For 8-9 Tubes Special for Type 226-171A VOLTS 5 5 2.5 1.5 600 AMPS 2 0.5 1.75 6.3 100MA.	3E4044— YOUR PRICE, \$2.65 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Mtg. Centers 2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 5 $\frac{1}{4}$ lbs.
3E4004— YOUR PRICE, \$2.25 Size: 3 $\frac{1}{4}$ "x4 $\frac{1}{4}$ "x2 $\frac{1}{4}$ " above base. Mtg. Centers 2 $\frac{1}{2}$ "x3 $\frac{1}{4}$ ". Shpg. wt., 5 $\frac{1}{4}$ lbs.	Types B and C 3E419—"B"—Leads. 3E4038—"C"—Lugs. YOUR PRICE, \$2.45 Each. Size: 4 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ " high. Mtg. Centers 3 $\frac{1}{4}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 6 $\frac{1}{4}$ lbs.	 130 Watt—For 8-12 Tubes VOLTS 5 2.5 2.5 700 AMPS 3 3 10.3 100MA.	3E4049— YOUR PRICE, \$2.80 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Mtg. Centers 2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 4 $\frac{1}{2}$ lbs.
3E4003— YOUR PRICE, \$2.45 Size: 3 $\frac{1}{4}$ "x4 $\frac{1}{4}$ "x2 $\frac{1}{4}$ " above base. Mtg. Centers 3"x3 $\frac{1}{4}$ ". Shpg. wt., 5 $\frac{1}{4}$ lbs.	Types B and C 3E4018—"B"—Leads. 3E4033—"C"—Lugs. YOUR PRICE, \$2.65 Each. Size: 4 $\frac{1}{4}$ "x4 $\frac{1}{4}$ "x3 $\frac{1}{4}$ " high. Mtg. Centers 3 $\frac{1}{4}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 6 $\frac{1}{4}$ lbs.	 145 Watt—For 9-14 Tubes VOLTS 5 2.5 2.5 700 AMPS 3 3 12.25 110MA.	3E4048— YOUR PRICE, \$3.10 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Mtg. Centers 2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 4 $\frac{1}{2}$ lbs.
3E4002— YOUR PRICE, \$2.95 Size: 3 $\frac{1}{4}$ "x4 $\frac{1}{4}$ "x2 $\frac{1}{4}$ " above base. Mtg. Centers 3"x3 $\frac{1}{4}$ ". Shpg. wt., 6 lbs.	Types B and C 3E4017—"B"—Leads. 3E4032—"C"—Lugs. YOUR PRICE, \$3.10 Each. Size: 4 $\frac{1}{4}$ "x4 $\frac{1}{4}$ "x3 $\frac{1}{4}$ " high. Mtg. Centers 3 $\frac{1}{4}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 7 lbs.	 155 Watt—For 10-16 Tubes VOLTS 5 2.5 2.5 700 AMPS 3 3 15.75 110MA.	3E4047— YOUR PRICE, \$3.45 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Mtg. Centers 2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". Shpg. wt., 4 $\frac{1}{2}$ lbs.
			3E4076— YOUR PRICE, \$2.50 Each. Size: 2 $\frac{1}{2}$ "x3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ " high. Min. Mtg. Centers 1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ ". Shpg. wt., 5 $\frac{1}{4}$ lbs.
			3E4075— YOUR PRICE, \$2.45 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Min. Mtg. Centers 2"x2 $\frac{1}{2}$ ". Shpg. wt., 5 $\frac{1}{4}$ lbs.
			3E4077— YOUR PRICE, \$2.75 Each. Size: 2 $\frac{1}{2}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Min. Mtg. Centers 2"x2 $\frac{1}{2}$ ". Shpg. wt., 5 $\frac{1}{4}$ lbs.
			3E4078— YOUR PRICE, \$3.00 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Min. Mtg. Centers 2"x2 $\frac{1}{2}$ ". Shpg. wt., 6 lbs.
			3E4079— YOUR PRICE, \$3.40 Each. Size: 3 $\frac{1}{4}$ "x3 $\frac{1}{4}$ "x1 $\frac{1}{4}$ " high. Min. Mtg. Centers 2"x2 $\frac{1}{2}$ ". Shpg. wt., 6 $\frac{1}{4}$ lbs.

Approved Quality!

PIONEER EXACT-DUPLICATE REPLACEMENT POWER TRANSFORMERS

Bargain Prices!

These transformers are faithful duplications of the originals in physical and electrical specifications.

Important mounting holes are exactly placed. No redrilling, no rewiring for practically every job.

The prices quoted are exceptionally low for the quality offered. Every transformer is new fresh stock.

Apex Gloritone



Model 26-A
Shpg. wt., 4 lbs.
3E8681—List, \$5.50.
YOUR SPECIAL PRICE... \$2.20

Model 26-P
Shpg. wt., 8 lbs.
3E8683—List, \$5.00.
YOUR PRICE... \$2.00

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
ALL AMERICAN MOHAWK Lyric J	4	3E8670	\$1.61
APEX			
36, 37	9	3E8671	4.10
10	7	3E8672	3.75
20	3	3E8673	1.75
32	7	3E8674	3.45
8	6	3E8675	3.25
99	5	3E8676	2.50
7	7	3E8677	2.95
7, 25 cycle	6	3E8678	4.10
9	5	3E8679	3.10
46	6	3E8680	3.85
26A (Gloritone)	4	3E8681	2.20
27 (Gloritone)	6	3E8682	2.75
26P (Gloritone)	8	3E8683	2.00

Atwater-Kent 37, 38

Shpg. wt., 6 lbs.
3E8687—List, \$5.00.
YOUR SPECIAL PRICE... \$1.75



Models 55, 55C
Late Model
Shpg. wt., 9 lbs. List, \$9.75.
3E8688—Late.
YOUR PRICE, Ea. \$2.70

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
ATWATER-KENT			
37, 38	6	3E8687	\$1.75
55, 55C, late model	9	3E8688	2.70
55, 55C, early model	9	3E8689	4.20
H1, H2, L1, L2, L	5	3E8690	3.35
82F, 85F	8	3E8691	3.35
84 (All)	5	3E8692	3.35
84F	8	3E8693	3.65
80, 83	5	3E8694	3.35
80F, 83F	8	3E8695	4.85
87, 89, 89P	6	3E8696	3.65
89F	10	3E8697	5.10
86 (Plate)	10	3E8698	4.25
82, 85	5	3E8699	3.35
60, 60C	9	3E8700	4.75
BOSCH			
29, 825	10	3E8702	3.95
48	6	3E8703	3.35
58	6	3E8704	3.35
60	6	3E8705	3.75
BREMER-TULLY			
81, 82, 8-81, 8-82	8	3E8707	3.55



Brunswick

Models 3NC-8, 5NC-8

Shpg. wt., 8 lbs.
3E8710—List, \$6.75.
YOUR PRICE... \$2.65

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
BRUNSWICK			
10	5	3E8709	\$2.30
3NC8, 5NC8	8	3E8710	2.65
12, 12A, 16, 16A, 16, 18A, 33, 33A	5	3E8711	3.60
2KR0, 3KR0, 3KR6, 5KR, 5KR0, 5KR6	8	3E8712	1.40
14, 21, 31, 81, 82, 814, 821, 881, 882, 60 cycle	11	3E8713	3.75
15, 22, 32, 42	13	3E8714	3.95
FRESHMAN			
Q15, Q16, 3Q15, 3Q16	9	3E8726	2.95
QD168	9	3E8727	3.75
GENERAL ELEC.			
H31, 51, 71	9	3E8729	2.25
T41, K60	9	3E8730	2.50

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
GRAYBAR			
GB700, 770, 900	9	3E8729	\$2.20
GB500, 550	9	3E8733	2.65
GB340	8	3E8710	2.65
GB310, 311	9	3E8712	1.60
GB600	9	3E8734	3.25
GB678	9	3E8730	2.25
KENNEY			
10, 20	8	3E8736	2.95
KNIGHT			
6-7, (2 sec. Choke)	9	3E8671	4.10
MAJESTIC —90, 9P6	11	3E8746	3.75
180, 8P6 (plate)	7	3E8747	3.25
70, 71P (plate)	6	3E8748	2.10
70, 71P (filament)	6	3E8749	2.10
180, 8P6 (filament)	7	3E8750	2.95
50 unmounted	7	3E8751	3.75
15A unmounted	4	3E8752	1.75
20 chassis, unmounted	6	3E8753	3.95
21, 22, 23, chassis 20	6	3E8754	3.15
90B, 100B	12	3E8755	3.90
130A, 230A, sets	13		
180, 131, 132, 133	12	3E8756	3.70
25, 25A	7	3E8757	3.75
91, 92	12	3E8758	3.35
MARVELO-MONROE			
6/7 (2 Sec. Choke)	9	3E8671	4.10

Philco Model 65

Shpg. wt., 8 lbs.
3E8763—List, \$7.00.
YOUR PRICE... \$2.45



Model 87
Shpg. wt., 8 lbs.
3E8766—List, \$7.00.
YOUR PRICE... \$2.45

Models 20, 220
Shpg. wt., 7 lbs.
3E8762—List, \$6.00.
YOUR PRICE... \$2.45

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
PHILCO —20, 220			
65	7	3E8762	\$2.45
76, 77, 77A	8	3E8763	2.45
86, 82	7	3E8764	2.65
87	8	3E8765	2.65
	7	3E8766	2.45
95, 96, 296, 92	9	3E8767	2.65
70, 270, 370, 470, 570	7	3E8768	2.65
111, 211, 112, 212	10	3E8769	2.65
490, 90 (45 or 47)	6	3E8770	2.65
511, 521, 531, 541, 551, 561, 571, 581	7	3E8771	2.65
4	5	3E8772	2.50
14, 43, 71, 89, 91	5	3E8773	2.65
50, 51	6	3E8774	2.65
15	7	3E8775	2.95
21	6	3E8776	2.95

Radiola 17, 18, 33, 50, 51 Victor 7-11, 8-25, 7-26, 17-8

Brunswick 2KR0, 3KR0, 3KR6, 5KR, 5KR0, 5KR6 Graybar 311

The Original Part
3E8712—List, \$6.00.
YOUR PRICE... \$1.60

Radiola 44, 46, 47
Shpg. wt., 9 lbs.
3E8733—List, \$6.50.
YOUR PRICE... \$2.65

RCA Victor RE 32, R 52, RE 45, RE 75
Shpg. wt., 10 lbs.
3E8784—List, \$6.75.
YOUR PRICE... \$2.65

RCA-VICTOR-RADIOLA	Shpg. Wt.	Stock Number	Your Price
80, 82, 86	9	3E8729	\$2.20
60, 62	8	3E8710	2.65
44, 46, 47	9	3E8733	2.65
17, 18, 33, 51, 50	9	3E8712	1.60
66	9	3E8734	3.25
42, 48	9	3E8730	2.50
R15, 14	9	3E8730	2.50
64, 67	19	3E8782	8.75
7-11, 7-25	8	3E8712	1.60
R32, R52, RE45, R675	10	3E8784	2.65
R35, R39, RE57	9	3E8730	2.25
R34, R37	9	3E8730	2.25

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
SENTINEL-SILVERTONE			
108, 108A, 108B, 110	5	3E8816	\$3.75
109	5	3E8817	3.91
114, 118	5	3E8818	3.75
116	4	3E8786	2.45
125	5	3E8787	3.65
160	4	3E8788	2.45

Sparton 591, 593, 931
Shpg. wt., 7 lbs.
3E8792—List, \$7.00.
YOUR PRICE... \$3.85



Sparton 301
Shpg. wt., 10 lbs.
3E8797—List, \$12.00.
YOUR PRICE... \$3.95

Sparton 930

3E8795—**YOUR PRICE... \$2.50**

Exactly fits into the original frame. Primary is tapped at 105, 115 and 125 volts; Secondary 625 volts C. T. at 110 MA; 5 volts C. T. at 2 1/2 amps; 3 volts C. T. at 7.8 amps; 6 volts C. T. at 2 amps. A heavy transformer that will make a satisfactory replacement. Iron size 3 3/8" x 3 3/8".

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
SPARTON			
589	7	3E8791	\$3.85
591, 593, 931	7	3E8792	3.85
89A	8	3E8793	5.90
109 ensemble	11	3E8794	6.75
930	5	3E8795	2.50

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
25, 26, 26AW, 30, 45	10	3E8796	6.25
301	10	3E8797	3.95
110, 111, 101	12	3E8798	4.45
410, 420	7	3E8799	3.50
103, 301A, 578,			
740, 750	7	3E8800	5.75
69, 79, 89	6	3E8801	3.45
62, 63, AC7	6	3E8802	2.30

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
STEINITE			
40C, 41C, 60C, 102C	11	3E8803	4.95
40, 50, 70, 80, 102	10	3E8804	5.55

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
STEWART-WARNER			
801, 801A, 802	7	3E8806	3.40
811, 811A, 25 cycle	8	3E8808	5.40
961, 962, 963	12	3E8809	3.65
102A	6	3E8810	3.25

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
STROMBERG-CARLSON			
641, 642, 652, 654	10	3E8811	3.45
10, 11	10	3E8812	3.75
846, 848	10	3E8813	4.25

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
TEMPLE			
6-60, 8-80, 8-90, 8-61, 8-81, 8-91	8	3E8814	3.50

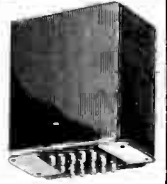
U. S. RADIO & TEL. CORP. (See Apex & Gloritone)

UNITED AIR CLEANERS (See Sentinel-Silvertone)

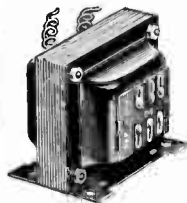
RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
WESTINGHOUSE			
WR5, 6, 7	9	3E8730	2.50
	9	3E8729	2.20

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
ZENITH			
52, 53, 54, 55, 57, 60, 61, 62, 64, 67, 602, 613, 622, 642, 672, 522, 532, 542, 95	11	9	3E8822 3.75
10, 11, 12	9	3E8823	3.60

Zenith
52, 53, 54, 55, 57, 60, 61, 62, 64, 67, 95, 602, 513, 622, 642, 672, 522, 532, 542
Shpg. wt., 11 lbs.
3E8822—List, \$7.25.
YOUR PRICE... \$3.75



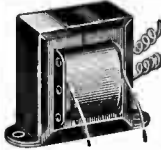
Filament Transformers



Made of the best quality, new materials. Cores carefully wound and varnished. These transformers are excellent for use as pre-heaters, short testers, filament supply, and to light the filaments of the tubes in short wave sets and converters. When used with "B" eliminator will convert battery sets to A. C. operation. Can also be used in tube testers. Silent in operation — no objectionable hum. All taps marked.

2½ Volt Center Tapped, 30 Watts
3E4225—Secondaries 2½ V. 3 amp. 2½ V. 9 amp. Height 3¼", width 2¾". Mounting holes —center to center 3¼"x1½".
List \$4.50. YOUR PRICE \$1.95

1½—2½—5 Volt, 30 Watts
3E4226—Secondaries 1½ V. 7 amps. 2½ V. 2 amp. 5 V. 2 amp. Height 3¼". Width 3". Mounting holes center to center 3¼"x1½".
List \$5.00. YOUR PRICE \$2.25



Special Filament Transformers
3E4227—List \$2.25.
YOUR PRICE 95¢

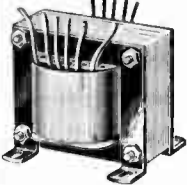
Good quality and dependable in operation. For use as pre-heater. In short wave sets, etc. 110 volt primary. Secondary 2½ V. 5¼ amp. Mounting holes—center to center—2¾ inches. Height 2½ inches. Width 1½ inches. Weight, 1 lb. Silent in operation. 15 watts.

2½ Volt—12 Amp. Filament Transformer
 Same as above except that it delivers 12 amps. Center tapped, 30 watts.
3E4228—List, \$2.75.
YOUR PRICE \$1.10

6.3 Volt Filament Transformer
 Size and appearance, identical to above transformer. Delivers 6.3 volts at 3 amps. For use with the new 6.3 volt tubes on 115 volt A. C. Can also be used on 7.5 volt tubes. 20 watts.
3E4229—List, \$2.25.
YOUR PRICE 97¢

7.5 Volt Filament Transformer
 2½ Amp. Sec. 115 Volt Primary Size and shape matches 3E4227. 20 watts.
3E4230—List, \$2.50.
YOUR PRICE \$1.30

Tube Tester Filament Transformer
 1½, 2, 2½, 3.3, 5, 6.3, 7½, 15, 25, 30 volts; at 2 amps.



For construction of tube testers or replacement in standard testers. Supplies the correct voltages for all types of tubes including the oldest types and all those just recently announced. Flexible leads are color coded and a diagram is included which gives all the connections. Dimensions: 2¾" high, 3" wide, 2¾" deep. Mounting hole centers 2½"x1½". Pri. 115 V. 50/60 cycles.

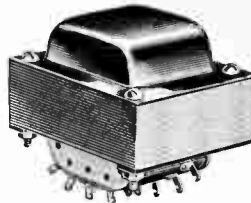
3E3929—
YOUR PRICE \$1.25

Special Value Midget Power Transformers

For 4 Tube, 35 Watt Sets

3E4069—YOUR PRICE EACH 76¢

For 4-Tube Midget Receivers using 57, 58, and 17 of A5 power tube with an 80 rectifier. Furnishes 650 V. 40 Ma. C.T., 2½ V. 3% A. C.T., 5 V. 2 A. For 115 V. 60 to 100 cycles A.C. Mounting area 2¼"x3¼ inches, above chassis. Mfg. hole center's 2x2½.



For 4-5 Tube, 50 Watt Sets

3E3939—YOUR PRICE EACH 89¢

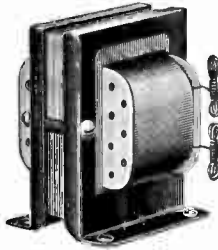
For early model 4 Tube or late model 5 Tube Midget Sets. Will supply a 47, 80, and 2-2A5s or 3-57 type tubes. Pri. 115 V. 50-60 cycle A.C. Sec., 650 V. 50 Ma. C.T., 2½ V. 7 A. C.T., 5 V. 2 A. Lug terminals. Size 3x2½", projects above chassis 1¼"; below chassis ¾".

Bargain! 30 Henry Choke

3D3926

YOUR PRICE 45¢

100 M.A. D.C. Resistance 230 Ohms



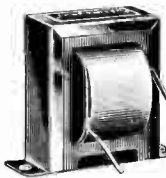
A full size heavy duty choke. Best quality silicon steel 1" core. Coil highly insulated and machine wound with exacting precision. Laminations carefully varnished and stacked. Entire assembly mounted in a black enameled heavy steel frame. Leads securely fastened and anchored in fibre plates which protect the coil assembly. An unusual value. Dimensions: 3¾" high, 2¾" wide, 2¾" deep. Mounting hole centers 2x1½".

Special Thordarson 30 Henry Filter Choke

T-3174

3E4339—List, \$1.50.
YOUR PRICE EACH 65¢

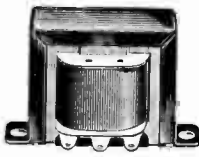
60 Ma. Resistance 600 ohms. 1½"x2"x2½" high, Mfg. hole cen. 2½". ¾" Silicon steel core. Used as second choke in sets using 25 type tubes and P-P 71A tubes. Black, steel mounting strap.



Universal Output Choke Center Tapped

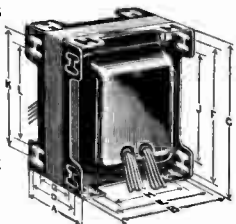
3E4338—List Price \$2.00.
YOUR PRICE 80¢

For matching any standard power tube to a load of ½ the recommended value for that particular tube. Will match a 34, 42, 47, 48 or 2A5 tube to a speaker designed for use with 71A or 45 tube. Outside terminals connect in plate circuit of power tube. Center tap and B Pos. terminal connects to speaker circuit. Used as a center-tapped output choke for push-pull 71A or 45 tubes with magnetic speaker across the outside terminals. Carries 35 Ma. Approx. 800 ohms each side of center-tap. 2½"x2½"x2" high.



"Multi-Tap" Universal Power Transformers

Tapped filament windings supply wide selection of voltages. Suitable for 1377 models of Receivers. Universal mounting with 16 "H" slot mounting holes. Sliding side shield exposes lugs for various circuit combinations. Excellent for experimentation. For 115 V. 50/60 cycle A.C. supply.



Dimensions in Inches "Multi-Tap" Universal Units.

Stock No.	A	B	C	D	E	F	G	H	J
3E4056	2¼	3¼	3¼	2½	2¼	3¼	1¼	2	2¾
3E4057	3¼	4	4	3	3¼	4	1½	2½	3¼
3E4058	3¼	3¼	4½	3¼	3¼	4	2½	2½	3¼

Voltage and Current Data

Section	60 watts 4-6 Tubes	75 watts 7-8 Tubes	100 watts 10-10 Tubes
H	650 Volts 60 Ma.C.T.	700 Volts 80 Ma.C.T.	700 Volts 100 Ma. CT
A	11V or 21V 3.1A or 5A	11V or 21V 4.2A or 7A	11V or 21V 6.1A or 10.1A
B	21V 3.1A	21V 3.1A	21V 3.1A
C	21V or 5V 3A or 1½ A. C.T. C.T.	24V or 5V 3A or 1½ A. C.T. C.T.	24V or 5V 3A or 1½ A. C.T. C.T.
D	5V 3A C.T.	5V 3A C.T.	5V 3A C.T.
	3E4056 Your price	3E4057 Your price	3E4058 Your price
	\$2.79	\$3.23	\$3.53

Power Transformers for the New 6.3 Volt Tubes



TYPE A



TYPE B

45 Watt

Primary 115 volts, 50-60 cycle. Secondary 600 V. 50 Ma., 6.3 V. 2 A. C.T. and 5 V. 2 A. Mtg. centers: Type A 2¼"x2½"; Type B, 3x2". Used as general replacement in the 4, 5, and 6 Tube Sets which employ 6.3 volt tubes. Each transformer individually boxed. Wiring diagrams furnished. Shpg. wt., 8 lbs.

3E4065—Type A Mounting.
YOUR PRICE EACH \$1.38

3E4066—Type B Mounting.
YOUR PRICE EACH \$1.38

70 Watts

Primary 115 volts, 50-60 cycles. Secondary 700 V. 70 Ma. C.T., 6.3 V. 3 A. C.T., and 2½ V. 4 A. C.T. and 5 V. 2 A. Mounting centers: Type A, 3¼"x3¾"; Type B, 3¼"x2". Used as general replacement for 7, 8, or 9 tube Sets with 6.3 volt tubes and 2.5 volt power tubes. Each transformer individually boxed. Wiring diagrams furnished. Shpg. wt., 8 lbs.

3E4067—Type A Mounting.
YOUR PRICE EACH \$2.19

3E4068—Type B Mounting.
YOUR PRICE EACH \$2.19

A Complete Selection

Radolek has the most complete selection of transformers ever included in a single catalog. Our prices are right and the quality guaranteed. Buy all your transformer requirements from Radolek with confidence. See Page 112 for the best buy ever offered on Philco general replacement transformers.

Power Transformers Repaired Rewound—Rebuilt—Guaranteed Like New

Duplicate the Original . . . We Prepay the Return Postage

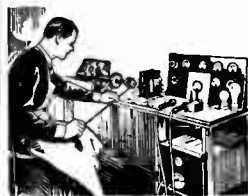
How it is done: The old winding is measured and then removed. The core laminations are cleaned and restacked. The original Manufacturer's specifications are checked with what remained of the old winding. Your description of the tubes used checks our findings. New coils are wound exactly like the original and assembled on the old laminations. All connections are made exactly as in the original Transformer. The casing is cleaned and refinished. We return the Transformer postpaid, guaranteed as good as new.

Highest Quality Workmanship

All work is done under the direction of skilled, experienced transformer Engineers. We guarantee that the remanufactured transformer will be returned to you in perfect working condition and with electrical characteristics exactly like the original or if the original design was faulty, with improved corrected characteristics.

How to Obtain Fast Service

- (1) Send in old Transformer prepaid, with your name and address.
- (2) Send your order by mail in the regular manner, paid in full or with a 20% deposit.
- (3) Specify on your order make, model, and exact tube combination of the Receiver using the Transformer. State the voltage and frequency it is to be used with.



Stock Number	Total Number Tubes	Number & Type Pwr. Tubes	Your Price
3E3600	6 to 8	1-71 A	\$3.85
3E3601	6 to 8	2-71 A	4.10
3E3602	6 to 8	1-45	4.10
3E3603	6 to 9	2-45 or 47	4.65
3E3604	8 to 10	1-50 or 10	5.25
3E3605	8 to 10	2-50 or 10	6.75

For Sets with Cardon or Kellogg Tubes
3E3606 8 to 9 2-82B 4.40
3E3607 9 to 11 2-50 8.25

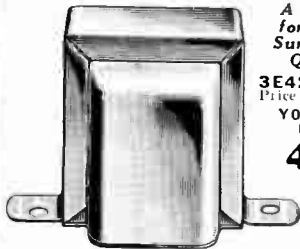
Add \$1.00 extra for Units sealed in wax.

Carter Universal Output Transformers

Correctly Matches All Tubes to any Speaker
3E3930—
YOUR PRICE..... 95¢

An Essential stock item for every serviceman. Designed with a high impedance primary having a special tapped secondary to permit ratio of turns in winding to match any standard power tube plate impedance not exceeding 11,000 ohms and passing less than 40 milliamperes plate current. (Push-Pull tubes, both drawing less than 40 mills each are satisfactory but parallel power tubes with a total current over 40 mills may not be used with this transformer.) Secondary taps can be selected to match plate impedance to any voice coil having an impedance (practically the same as the D.C. resistance) between 0.11 ohm and 15 ohms. Complete instructions, and table for selecting proper connections for single or push-pull power tubes coupled to any standard dynamic voice coil. Included. Do not use with type 50 tube.

Pioneer Shielded Universal Audio



A Transformer of Surpassing Quality

3E4260—List

Price \$2.50.

YOUR NET

PRICE

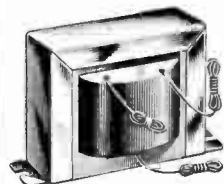
49¢

A very special value. Standard 2 to 1 ratio audio. Designed for first stage audio position in Kennedy Model 210, Monroe 6-7, Marvelo 6-7, Knight 6-7 and all sets, either A.C. or D.C. using 201A, 226, 112A or 171A or 215 amplifiers. Husky sized windings and laminations insure fine tone quality. Mounts above panel. Size 3 1/2 x 2 1/2 inches. Mounting holes 2 1/2 inch centers. Steel shell, cadmium plated.

Flexible color coded leads. Many servicemen using this transformer in small two stage portable P. A. amplifiers because of its audio curve which limits hiss and distinctly favors bass tone reproduction.

Special Output Transformer

For Tubes in Push-Pull
71A, 45, 50, 2A3, 43, 59



3E3927—
YOUR PRICE ... 49¢

Will carry 65 mill. plate current. 2000 turn, center tapped primary, 100 turn secondary. Silicon steel core. To determine voice coil impedance to fit this transformer, divide the plate impedance of one tube by 225; for single tube, using entire primary, divide the plate impedance by 900. See tube chart in this catalog for plate impedance (called A.C. plate resistance). Dimensions: Height 2 1/2" depth 1 1/2". Length overall 3 1/2". Slotted mounting hole centers, from 3/8" to 3/4".

Universal Replacement Audios and Output Transformer

All with universal mounting brackets and universal electrical characteristics. High quality transformer suitable for use in the finest of receivers. Size of all units: 2 1/2" high, 2" wide, and 2 1/2" deep. Can be mounted on either side or either end. Bright cadmium finish. The small size of these units permits mounting below as well as above chassis base. Diagrams and instructions included.

Straight Audio Transformer

3E4190—Designed to feed from any type of general purpose tube into a stage of single audio. Can be used on either A.C. or D.C. sets.
81¢
YOUR PRICE

Universal Output
 Will couple all combinations of power tubes, either single or push-pull, into any dynamic or magnetic speaker. For voice coil impedances from 1 to 30 ohms.
3E4191—
YOUR PRICE 81¢

Universal P.P. Input Ratio 3:1
 Designed to feed from any type of general purpose tubes in either single or push-pull into a stage of either single or push-pull audio.
3E4192—
YOUR PRICE 88¢

Radolek Audio Repair Bridge

Completes Circuit Around Defective Audio Transformer



- Fastest Audio Repair Device
- Improves Tone Quality
- Utilizes Old Transformer
- Easily Installed Under Chassis Deck

3E3920—List, \$3.50.
YOUR PRICE 59¢

May be connected in less than 5 minutes in any Radio receiver or amplifier. Simple instructions furnished. Consists of a selected resistance-capacity network in a moisture proof rectangular case. Flexible color coded leads permit quick connections to faulty audio circuit. Will repair audio transformer circuits of either straight or push-pull type in which the primary of the transformer has opened or shorted to the secondary. Also corrects circuit of straight audio type when transformer secondary is open.

A gain in tone quality accompanied by a slight loss of volume occurs when this type of repair is made. Substitution of type 56 tubes for type 27 tubes preceeding the circuit repaired compensates for the slight loss of volume.

The Radolek Audio Repair Bridge provides the fastest method of repairing audio transformer failures without the necessity of removing the old transformer. Size 1 1/2" x 1 1/2" x 1 1/2" deep.

Stancor Universal Output

Designed to couple any power tube or push-pull output (except 2A3 & 50 tubes) to any voice coil load approximately 1, 4, 8, 15, or 30 ohms impedance. Six secondary taps. Complete instructions, including arrangement for use of a magnetic speaker or furnished with transformer. Size 1 1/2" x 2 1/2" x 2 1/2" high. Mtg. C. 23". Wt. 1 1/2 lbs.

3E3925—List, \$2.10.
YOUR PRICE \$1.23

Stancor Universal Input
 A companion transformer to the above output. Center-tapped secondary for input to grids of any Class A power tubes. Size 1 1/2" x 2 1/2" x 2 1/2" high. Mtg. C. 23".
3E3924—List, \$2.20.
YOUR PRICE \$1.29

Stancor 30 Henry Filter Chokes



Guaranteed quality. Five inch flexible leads. 75 Ma. Resistance 400 ohms. Core size 3 1/2" x 3 1/2" x 3 1/2". Mfg. C. 3 1/2". Frame size 3 1/2" x 1 1/2" x 2 1/2" high. For 2nd filter position.
3E4201—List, \$1.45.
YOUR PRICE 85¢

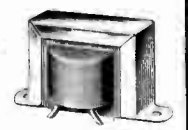
Replacement Chokes

For A.C.—D.C. Rectifiers

3E3932—12 henries at

40 Ma. D.C. resistance 375 ohms. For 4-tube sets. Size: 1 1/2" x 2 1/2" x 2 1/2" high. Mtg. Centers 2 1/2".

YOUR PRICE 59¢



Pioneer Replacement Audio Transformers



New Deal Values—The lowest priced Audio Transformers of satisfactory quality we have ever offered. New method of winding the primary last with high speed special machine makes this price range possible. We have tested these Units in our own Laboratory against Transformers of much greater Audio range of Pioneer trans-formers from 75 to 90 cycles according to size to a high range of 3800 cycles, within 4 db.

Midget Size: 1 1/2" x 1 1/2" x 1 1/2" high.				Medium Size: 1 3/4" x 1 3/4" x 1 1/2" high.				Standard Size: 1 1/2" x 2 1/2" x 2 1/2" high.			
Stock No.	Type*	Ratio	Your Price	Stock No.	Type*	Ratio	Your Price	Stock No.	Type*	Ratio	Your Price
3E4100	S. A.	1:2	59¢	3E4105	S. A.	1:2	69¢	3E4110	S. A.	1:2	79¢
3E4101	S. A.	1:3		3E4106	S. A.	1:3		3E4111	S. A.	1:3	
3E4102	P-P	1:2		3E4107	P-P	1:2		3E4112	P-P	1:2	
3E4103	P-P	1:3		3E4108	P-P	1:3		3E4113	P-P	1:3	

(* S.A., Straight Audio, P-P, Push-Pull

Pioneer Replacement Output Transformers

How to Select the Right Transformer

Locate in the vertical column the type power tube or tubes your radio or amplifier employs. In a horizontal line with this tube number is our code number for the types of transformers for various voice coil impedances. To determine the impedance of your dynamic speaker voice coil, multiply the D. C. resistance of the V.C. by 1 1/2. These Transformers carry 45 MA safely.



Push-Pull Output Transformers

Power Tube Type	P. P. Plate Load Imped.	Transformer Type Numbers to Use on Various Voice Coil Impedances and Output Tubes.			
		2	3-4	5-7	9-16
2A5	14000	P80	P60	P45	P35
6A4	16000	P80	P60	P45	P35
10	20000	P80	P60	P60	P45
20	13000	P80	P60	P45	P35
31	14000	P80	P60	P45	P35
33	14000	P80	P60	P45	P35
39	22000	P80	P60	P60	P45
41	18000	P80	P60	P60	P45
42	14000	P80	P60	P45	P35
43	8000	P60	P45	P35	P27 1/2
45	8000	P60	P45	P35	P27 1/2
46	12800	P80	P60	P45	P35
47	14000	P80	P60	P45	P35
48	4000	P45	P35	P27 1/2	P27 1/2
49Tri.	20000	P80	P60	P60	P45
2186	10000	P60	P45	P35	P27 1/2
59Pen.	12000	P80	P60	P45	P35
71A	9600	P60	P45	P35	P27 1/2
89Tri.	14000	P80	P60	P45	P35
89Pen.	16000	P80	P60	P45	P35

PRICE LIST

Stock Num.	Size	Ratio	Type	Your Price Each
3E4130	Medium	27:1	P27 1/2	49¢
3E4131	"	35:1	P35	
3E4132	"	45:1	P45	
3E4133	"	60:1	P60	
3E4134	"	80:1	P80	
3E4135	Large	25:1	P27 1/2	Your Price Each
3E4136	"	35:1	P35	
3E4137	"	45:1	P45	
3E4138	"	60:1	P60	
3E4139	"	80:1	P80	

Dimensions: Medium, 1 1/2" x 2 1/2" x 1 1/2" high. M.C. 2 1/2". Large Size: 1 3/4" x 2 1/2" x 2 1/2" high. M.C. 2 1/2".

Single Output Tube Transformers

Power Tube Type	Plate Load Imped.	Transformer Type Numbers to Use on Various Voice Coil Impedances and Output Tubes.			
		2	3-4	5-7	9-16
2A5	7000	R60	R45	R35	R27 1/2
6A4	8000	R60	R45	R35	R27 1/2
10	11000	R80	R60	R45	R35
20	6500	R60	R45	R35	R27 1/2
31	7000	R60	R45	R35	R27 1/2
33	7000	R60	R45	R35	R27 1/2
39	11600	R80	R60	R45	R35
41	12000	R80	R60	R45	R35
42	7000	R60	R45	R35	R27 1/2
43	4500	R45	R35	R27 1/2	R20
45	3900	R45	R35	R27 1/2	R20
46	6400	R60	R45	R35	R27 1/2
47	7000	R60	R45	R35	R27 1/2
48	2000	R35	R27 1/2	R20	
49Tri.	11600	R80	R60	R45	R35
2186	5000	R45	R35	R27 1/2	R20
59Pen.	6000	R60	R45	R35	R27 1/2
71A	4800	R45	R35	R27 1/2	R20
89Tri.	7000	R60	R45	R35	R27 1/2
89Pen.	8000	R60	R45	R35	R27 1/2

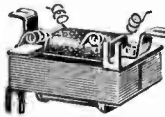
PRICE LIST

Stock Num.	Size	Ratio	Type	Your Price Each
3E4115	Medium	20:1	R20	44¢
3E4116	"	27 1/2:1	R27 1/2	
3E4117	"	35:1	R35	
3E4118	"	45:1	R45	
3E4119	"	60:1	R60	
3E4120	"	80:1	R80	Your Price Each
3E4121	Large	20:1	R20	
3E4122	"	27 1/2:1	R27 1/2	
3E4123	"	35:1	R35	
3E4124	"	45:1	R45	
3E4125	"	60:1	R60	65¢
3E4126	"	80:1	R80	

Jefferson Transformers

Universal Audio Replacement Outputs, Chokes

Straight Audio, 1 to 2 Ratio



For underchassis replacement in any A.C. or D.C. set. Brackets for vertical or horizontal mounting. Range ± 4 db. 120 to 5000 cycles. Wt. $\frac{3}{4}$ lbs. Size $2\frac{3}{4} \times 2\frac{3}{4} \times 1\frac{1}{2}$. Flexible leads.

3D4281—Code 467-164. List Price, \$1.35. **YOUR PRICE ... 73¢**

Push-Pull Input or Straight Audio

For use in any A.C. or D.C. receiver. Designed for push-pull, 1 to 3 ratio, amplification. By not connecting center tap, a 1 to 6 ratio straight audio is obtained. May be mounted in four positions with universal brackets. Lugs and tinned leads combined for convenient connections. The audio response curve is ± 4 db. from 80 to 3500 cycles at 1 to 6 ratio. Size $1\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ high. Wt. 1 lb.



3E4278—Code 467-168. List, \$1.95. **YOUR PRICE ... 94¢**

Jefferson Universal Output

Center tapped primary, six terminal secondary, 40 Ma. current carrying capacity. Pri. 3000 turns, C.T. Sec. 14 turns tapped at 25, 35, 47, and 78. Gives choice of ten ratios fitting practically all power tubes to a range of voice coil impedances between 1 and 15 ohms. Full instructions. Size $2 \times 2\frac{3}{4} \times 1\frac{1}{4}$.

3E4297—Code 467-170. List, \$1.60. **YOUR PRICE ... 94¢**

General Purpose Choke

80 Ma. 220 ohm, approximately 10 henries absolute inductance. (Equal to old rating of 30) $\frac{3}{4}$ core cross section. Size $2 \times 2\frac{3}{4} \times 1\frac{1}{4}$ high.

3E4298—Code 466-135. List, \$1.25. **YOUR PRICE ... 73¢**

Jefferson "Quality Series" Oversize Push-Pull Input

A husky new universal mounting input transformer. Windings are machine wound and vacuum treated. New high permeability core of increased cross section. The high impedance of the primary winding particularly suits this transformer to the new type high mu triode tubes of the 56, 2A6, and 75 type. The earlier triodes work better with high impedance coupling than with their original transformers. The mechanical center tapped secondary delivers uniform potential to the grids of any type power tubes. Size $2 \times 2\frac{3}{4} \times 2\frac{1}{2}$ high. Wt. $1\frac{1}{2}$ lbs.

3E4295—Code 467-175. List, \$2.00. **YOUR PRICE ... \$1.17**

Oversize Universal Output

Designed upon the principle of adjusting the ratio of the transformer by proper selection of secondary taps. The primary is 3000 turns C.T. The secondary is 141 turns tapped at 25, 35, 47, 78, turns. To match any except 2A3 and 501 power tube or push-pull output to any voice coil, a chart showing the relations of the respective windings is furnished. No mathematical calculations are necessary. Universal mounting brackets. Instructions. Size $2 \times 2\frac{3}{4} \times 2\frac{1}{2}$ high. Stock this transformer as a regular item—its wide application guarantees non-obsolence. Wt. $1\frac{1}{2}$ lbs.

3E4279—Code 467-176. **YOUR PRICE ... \$1.17**

Universal Choke "30" Henry

An all-purpose filter choke incorporating universal mounting features. Recommended for use in all circuits requiring a quality choke of sturdy and generous proportions. Windings are vacuum impregnated to remove all trace of moisture and to guard against re-absorption. Connections brought out to silvered lugs and leads. Resistance 275 ohms; maximum current carrying capacity 100 mills. Size $2 \times 2\frac{3}{4} \times 2\frac{1}{2}$ high. Shpg. wt. $1\frac{1}{2}$ lbs.



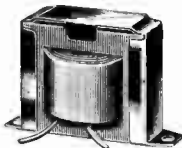
3E4296—Code 466-125. List Price, \$1.75. **YOUR PRICE ... 79¢**

Replacement Type Audios

Straight Audio

Manufacturer's type, ratio 1 to 2. Used in many sets to couple 27 detector to 26 tubes, or from a 26 to a 71A, 10 Ma. Plate current limit. Size $3 \times 1\frac{1}{2} \times 1\frac{1}{2}$ high. Wt. 1 lb.

3E4265—Code 467-401. List Price, \$1.05. **YOUR PRICE ... 62¢**



Push-Pull Input

Manufacturer's type, ratio 1 to 2. For coupling a 26, 61A, or 27 tube to push-pull 112A, 71A, or 15 tubes. 10 Ma. Plate current limit. Sizes $3 \times 1\frac{1}{2} \times 1\frac{1}{2}$ high. Wt. $\frac{3}{4}$ lbs.

3E4266—467-402. List Price, \$1.10. **YOUR PRICE ... 65¢**

Push-Pull Output

For coupling push-pull 71A or 45's to a voice coil having a D.C. resistance of approximately 4 ohms and an impedance of 6 ohms at 400 cycles. By not employing the center tap, a single 35, 42, 47, tube may be coupled to the same voice coil. Ratio of transformer, $1\frac{1}{2}$ to 1, total primary to secondary. Size $3 \times 1\frac{1}{2} \times 1\frac{1}{2}$ high. Wt. $\frac{3}{4}$ lb.

3E4267—467-409. List Price, \$1.00. **YOUR PRICE ... 59¢**

Large Size Replacement

Push-Pull Input



Ratio 1 to 3
3E4268—467-404. List Price, \$1.40. **YOUR PRICE ... 82¢**

Increased core size and heavier wire greatly improve the audio response curve of this transformer. Size $3\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ high. Sell this transformer on service jobs where results better than obtained with the original unit are desired. ± 4 db. from 90 to 4000 cycles.

Push-Pull Output

Ratio 6:1 total primary to total secondary. $3\frac{1}{2}$ Watt. Designed to couple 71A or 45 tubes in push-pull to voice coils of approximately 5 ohms D.C. resistance or 6 to 8 ohm impedance. When the center tap is not used, tubes of the 33, 42, 47 and 2A5 type may be coupled to the same voice coil as above. 40 Ma. Plate current limit.

3E4269—467-410. List, \$1.15. **YOUR PRICE ... 67¢**

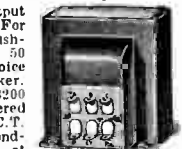
150 Milliampere Choke

A heavy current, "First Section Choke" of the open vertical type. D.C. resistance 325 ohms. Approximately 30 henries at 150 mills. Weighs $3\frac{1}{2}$ lbs. Size $2\frac{1}{2} \times 3\frac{1}{2} \times 4\frac{1}{4}$ high. Careful layer insulated, machine wound coils thoroughly impregnated prepares this choke for hard service use. Used in series with a 50 watt 5000 ohm rheostat, and the shielded Universal Output (467-171) a dummy speaker substitute circuit for test bench use may be built which will duplicate any dynamic speaker requirement of any standard radio chassis brought to your shop for repair without the speaker.

3E4270—466-210. List, \$1.75. **YOUR PRICE ... \$1.03**

Shielded Universal Output

The finest Universal Output on the market— $2\frac{1}{2}$ lbs. For coupling any single or push-pull tubes including type 50 or 2A3 to any dynamic voice coils or magnetic speaker. Primary consists of 3200 turns of 36 enamel covered wire insulated layers. C.T. at 1609 T. The first secondary is 2200 turns tapped at 750 turns. The next section of the secondary is 155 turns tapped at 27, 37, 50, 83. A chart showing the relations of the turns ratio to the tube impedances and the speaker load is furnished. This is a splendid instrument for the test bench to substitute one test speaker on all chassis brought in for repair. Size $2\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{2}$ high. Mounting hole centers $2 \times 2\frac{1}{2}$.



3E4280—467-171. List Price, \$5.00. **YOUR PRICE ... \$2.35**

Microphone Transformer



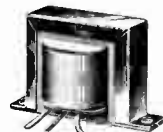
Two Button—Shielded
A splendid steel cased single or double button "Miles" transformer with extra layer insulation to prevent capacity losses within the winding which would reduce the response range. Matches standard 2 button 200 ohm microphones or using $\frac{1}{2}$ the primary winding will match a single 200 ohm button. Size $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ high. Mtg. centers $2\frac{1}{2} \times 2\frac{1}{2}$.

3E4271—467-263. List, \$5.00. **YOUR SPECIAL PRICE ... \$1.47**

Filament Transformers

2 1/2 V, 3 1/2 A, 10 Watts

Open type, 115 Volt 50-60 cycles. A small, well insulated filament supply transformer for short-wave adapters, etc. Size $1\frac{1}{2} \times 2\frac{1}{4} \times 2\frac{1}{4}$ high. Wt. 1 lb. 3E4272—464-211. List, \$1.40. **YOUR PRICE ... 82¢**



2 1/2 V, 1 1/2 A, 35 Watt

Open type, 115 volt 50-60 cycles. Extra heavy insulation, safe for 866 type tubes. $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ high. Wt. 2 lbs. Center tapped. 3E4273—464-201. List, \$2.00. **YOUR PRICE ... \$1.18**

6.3 V, 4 A, 30 Watt

Open type, 115 volt 50-60 cycles. For the new type 6.3 volt tubes, 10 to 12, 0.3 or 0.4 ampere tubes may be operated from this transformer. Center tapped. 3E4274—464-221. List, \$2.00. **YOUR PRICE ... \$1.18**

Class "B" Plate, Filament, Audio, Transformers and Chokes

Class "B" Plate Supply—90 Watts

For use with type 82, 523, or 83 tubes. Has single secondary 775 V. C.T. Will operate steadily at 200 Ma. load. 115 V. 50/60 cycle primary. Side lug connections. Size $3\frac{1}{2} \times 4\frac{1}{2} \times 1\frac{1}{2}$ high. Diagram furnished.



3E4282—Code 465-151. List, \$8.75. **YOUR PRICE ... \$4.41**

Class "B" Filament Transformer

For use with above Plate Transformer. Has 5 V. 3 A, 2 1/2 V. 3 1/2 A, and 2 1/2 V. 1 A secondary windings. 115 V. 50/60 cycle primary. Lugs on side of case. Size $3\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{1}{2}$ high.

3E4283—Code 464-191. List, \$6.95. **YOUR PRICE ... \$3.24**

Class "B" Input Transformer

3E4286—Code 467-271. List, \$6.25. **YOUR PRICE ... \$2.94**



For interstage or straight audio coupling to a class "B" power stage. Primary and secondary center tapped. Side lug connections. Size $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ high. Diagrams furnished. Shpg. wt. $2\frac{1}{2}$ lbs.

Class "B" Output Transformer

Has tapped primary and tapped secondary for coupling Class "B" 46, 55, or 59 type tubes to either 1, 3, 6, or 10 ohm voice coil. Shpg. wt. $2\frac{1}{2}$ lbs.

3E4287—Code 467-281. List, \$6.25. **YOUR PRICE ... \$2.94**

Class "B" Buffer Choke

For use as first choke of a Class "B" filter system. 19 ohms, 18 henries, 150 Ma. capacity. Size $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ high. Shpg. wt. $2\frac{1}{2}$ lbs.

3E4284—Code 466-190. List, \$3.20. **YOUR PRICE ... \$1.47**

Class "B" General Purpose Filter Choke

Is particularly applicable as second section class "B" amplifier choke. Resistance 190 ohms; nominal inductance 10 henries, 150 M.A. Construction and dimensions are identical with above choke. Diagram included. Shipping wt. $2\frac{1}{2}$ lbs.

3E4285—Code 466-200. List, \$3.20. **YOUR PRICE ... \$1.47**

Jefferson "STAR" Audios

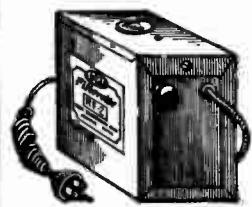
Sealed in black enameled cases to prevent moisture from getting into coils. For use in either A.C. or D.C. receivers. Finest rolled high silicon steel core. Nickel plated binding posts mounted on bakelite insulation. $2\frac{1}{2}$ high by $2\frac{1}{2}$ wide and $2\frac{1}{2}$ deep. Mounting hole center's $2\frac{1}{2}$. Windings are completely shielded and clearly marked for proper connections. Shpg. Wt., 1 lb.



3D4275—Code 467-113. 3 to 1 Ratio. **3D4276—Code 467-116. 5 to 1 Ratio. List, \$2.20. YOUR PRICE ... \$1.18**

Tapped Push-Pull Input Type

3E4277—Code 567-118. 3 to 1 Ratio with lugs on bottom. List, \$2.50. **YOUR PRICE ... \$1.24**



TOBE
Line
Filterette
Type RF2
3E8502—
List Price,
\$4.95
YOUR PRICE
\$2.90

An Inductance Capacity Filter. Eliminates scratchy or buzzing noises caused by leaky power-lines, defective house wiring, etc. The inductance capacitive action of this unit is especially adapted for filtering out line noises and assuring a flow of smooth filtered current to the radio. Contains a dual-capacity filter followed by a dual inductance, which establishes a high impedance circuit preventing line noise and diverting interference to the ground. A ground connection is provided on the case of the Filterette. Size of case 2 1/2" x 1 1/2" x 3 1/2" high. For use on A.C. or D.C. Lines under 130 volts and with radio receivers drawing less than 150 watts.



TOBE
Filterette
Junior
3E8503—List, \$2.25.
YOUR PRICE **\$1.32**

A compact unit, easy to install, for eliminating interference caused by household appliances, such as electric fans, heating pads, vacuum cleaners, light switches, etc. Has standard plug-in terminals and receptacle for connection between electrical outlet and receiver. Operates on 110-120 volts A.C. or D.C. A demonstration at the home of your customer will assure an easy, profitable sale.

Filterette Senior

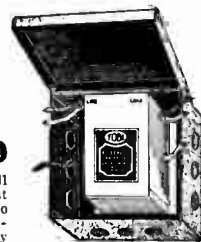
3E8504—
List, \$5.50.
YOUR PRICE **\$3.23**



A larger Filterette than the Junior. Especially recommended for appliances causing more intense interference than that suppressed by the Filterette Jr. Can be used on appliances drawing up to 5 amperes, 110 volts A.C. or D.C. In metal case 2" diameter and 4" long. Has binding post for grounding Filterette to frame of appliance. Supplied complete with cord, plug and receptacle.



TOBE
Oil Burner
Filterette
Type OB 110
3E8524—List,
\$9.50
Your Price **\$5.60**



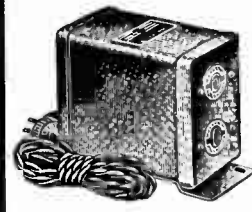
For application to all oil burners to prevent distribution of radio noise caused by electric ignition or by the universal motors used with some burners. Mounted in a standard black enameled steel cutout box 7" x 3 1/2" x 3 1/2". Flexible leads for connection to burner wiring. Has detachable clamps to allow mounting on a pipe standard or flat surface. Maximum potential 110 volts A.C. or D.C. Maximum current four amperes. Supplied with complete instructions for installing with any type of burner. Should be located as close to the interfering mechanism as possible and should be grounded to the oil tank pipes and to the water system.



Falck Claroceptor
3E2427—
List, \$5.00.
Your Price **\$2.94**

Especially effective for reducing noises in A.C., D.C. Sets. A Dual Inductance capacity-filter.

The electric lighting wires of a city are endless antennae which collect not only signals from broadcast stations but also electrical interference noise caused by telephones, street cars, elevators, electric motors and countless electric devices used within and outside the home. These disturbances penetrate into A.C. radio sets through the wall socket connection and are heard as blare, squeal, fry and scratch—"Man-made static." Block out these noises by plugging in a Claroceptor between the wall socket and set.



Thordarson
A.C. Line
Booster Auto
Transformer

3E4321—
100 watt Auto-Transformer. Tapped for boosting either 90 or 100 volts to 115 volts.
List Price, \$4.00.
Your Price **\$2.39**

3E4322—150 watt Auto-Transformer. Tapped for boosting either 90 or 100 volts to 115 volts.
List Price, \$5.00.
YOUR PRICE **\$2.96**

Employed to step up A.C. line voltages in districts at a considerable distance from a line-transformer as in out-lets of a city or in rural districts. Built with 18" cord for connection to wall socket A.C. outlet. Neat fireproof metal container equipped with two standard A.C. female plug sockets.

Clarostat A.C. Line Voltage Regulator



For sets with critical line voltage requirements where a dependable regulator must be employed. Resistor increases in resistance value as line voltage rises, thus automatically maintaining a steady potential on the receiver with which it is used.
Stock Num. Type Watts of Set List Ea. \$1.75
3E3102 A Up to 60 **YOUR PRICE**
3E3100 B 60 to 100 **95¢**
3E3101 C 100 to 150
(Ten for \$7.95)

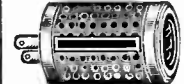
I. C. A. "Junior" Filtevolt Noise Eliminators



3E2480—List Price, \$3.00.
YOUR PRICE **\$1.64**

A capacity type line filter which diverts interference from the electric line to the earth and acts as a filter to eliminate interference caused by heating pads, light switches, and motors of less than 1 amp H.P. Operates on 110-120 Volts A.C. or D.C. Tell your customer why he should buy this item with a demonstration. Make \$1.24 extra on your regular service calls.

Line Voltage Reducer Standard Type for Reduction of Excessive Line Voltages



3E2433—List, \$1.00.
YOUR PRICE **32¢**
Ten for \$3.00

Maintains a constant potential on lines on which voltage climbs. Protects tubes, condensers and resistors against line surges by automatically reducing line voltage to a normal operating voltage. Air-cooled type, with plug for standard outlet. Usually sells for \$1.00. Servicemen can make 68¢ extra on each call where the set owner has had tubes burned out due to high line voltage.

WIRT Voltage Regulator No. 211



The Wirt Voltage Regulator installs between the house current convenience outlet, or wall receptacle, and the plug from the Set. Provides five resistance values which are controlled by simply rotating the fibre ring at the ends. When properly adjusted it protects tubes, condensers, and reduces noises and hums. Enclosed in nickel plated heavy metal case. Fits any standard outlet. For use on Sets having six or less tubes.

3E2430—List, \$2.45.
YOUR SPECIAL PRICE **\$1.12**

Automatic Voltage Control

For Reducing Line Voltages



3E2267—List, \$1.75.
YOUR PRICE **57¢**
Ten for \$5.48

Protects tubes, resistors, and condensers by preventing excessive line voltage. Automatically compensates for line surges by increasing in resistance as voltage rises. This assures a constant flow of smooth current and prevents overloading. Air-cooled type. Fits any standard socket or outlet, and supplies 110 volts A.C. or D.C. on any line up to 130 volts. This unit usually sells for \$1.75. Servicemen can easily sell a control like this to every set owner who has had trouble with burned out tubes, condensers or resistors due to excessive line voltage.

Clarostat Replacement Line Ballasts



Compensates line voltage changes for Sets designed for use with Ballast. Will maintain the normal voltage across the primary of the power transformer within allowable limits for efficient operation, regardless of line fluctuation between 95 and 135 volts. WE CAN ALSO SUPPLY REPLACEMENT BALLASTS FOR SETS NOT LISTED BELOW. Send your order giving make, model and number of tubes in Set.

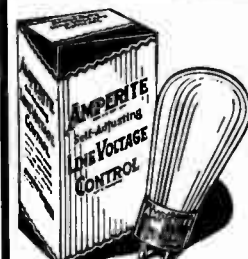
Number	Type	Set
3E3103	2168	Bremer-Tully
3E3104	2170	Brunswick, IIT Q-30, Scott Silver and Sonora
3E3107	2408	Clarion
3E3105	1518	*MAJESTIC 70, 71
3E3106	1518	*MAJESTIC 70B, 72
3E3107	1012	*MAJESTIC 180, 181
3E3108	1210	*MAJESTIC 90, 91, 92, 100

3E3109	6310	United Reproducer, Peerless and Grebe
3E3110	2518	Stark Piano and Belmont
3E3111	5011	Stimlex-Baldwin
3E3112	5011	Stewart-Warner 900-61816
3E3113	5002	Stewart-Warner 950-62152
3E3114	5003	Stewart-Warner R100-66756

List Price, Each \$2.50.
YOUR PRICE **\$1.18**

(*) Ballasts also available for MAJESTIC Sets operating on 25-30-40 cycles; and 230 volt 60 cycles. In ordering please mention power unit type, frequency and ballast markings.

Amperite Self Adjusting Voltage Controls



"Amperite" is a thermal regulated resistance designed to maintain a uniform potential across the primary of the Power Transformer. Receivers designed to use "Amperite" controls usually have Power Transformers designed to operate on 80 to 90 volts. The "Amperite" matched to this circuit has a special resistance wire within its envelope. As the line voltage fluctuates the temperature of this wire changes its resistance value in direct proportion to the increase or decrease in voltage. This action results in a uniform voltage across the primary of the Power Transformer. When replacing "Amperite" always check for a short circuit. If the "Amperite" lights up brightly, this indicates a partial short.

Special "Amperite" Controls

3E2409	8-20*	For Bremer-Tully S-81, S-82	List \$3.00.
3E2408	9-20*	For Brunswick 14, 21, 31	
3E2410	11-20	For Grebe HS4, 1285, 450	YOUR PRICE
3E2410	11-20	For Hammerlund-Roberts HI-Q 30	EACH
3E2410	11-20	For Kyletron K-71, K-72, Peerless 21 to 25	\$1.25
3E2410	11-20	For Sonora 30, 32, 40	
3E2411	30	For Majestic 90, 91, 92	
3E2419	18-20	For Star-Raider (Sets use 2)	
3E2301	—876	For RCA 876 Ballast.	YOUR PRICE EA. \$2.25
*9-20 Amperite replaces old Duresite 110 tubes.			
3E2414	—Special	Bakelite mounting base for "Amperites."	YOUR PRICE 15¢

Standard Amperites
For 110 volt Sets operated on 115-130 volt lines.
Stock No. Amperite Number
3E2412 4* 145
3E2400 4-5 845
3E2402 6-7 745
3E2404 8-9-10 945
3E2406 11-12 1145
3E2407—125 Watt Sets.
13-A-5
3E2408—175 Watt Sets.
20-A-5
List, \$3.00.
Your Price Ea. \$1.25
*For A.C.-D.C. Radio Sets

Vitreous Enamelled Resistors



Wire wound on a $\frac{3}{8}$ " porcelain tube $1\frac{1}{2}$ " long with a $\frac{1}{8}$ " hollow center. Coated with high quality Vitreous enamel and fired at red heat making an enamel coating which is fused tightly to the wire, terminal connections, and base. Either the solder lugs and $1\frac{1}{2}$ " tinued wire leads may be used for mounting unit in circuit.

Non-Porous Waterproof Coating

Accuracy
Within 10%
Plus or Minus

10 Watt YOUR PRICE, EACH **18c** Ten for..... \$1.75

Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms
3D1925	1	3D1934	25	3D1944	200	3D1952	1,000	3D1960	5,000
3D1926	2	3D1935	30	3D1945	250	3D1953	1,250	3D1961	6,000
3D1927	3	3D1936	40	3D1946	300	3D1954	1,500	3D1962	7,500
3D1928	4	3D1937	50	3D1947	350	3D1955	2,000	3D1963	10,000
3D1929	5	3D1938	75	3D1948	400	3D1956	2,500	3D1964	12,000
3D1930	7.5	3D1940	100	3D1949	450	3D1957	3,000	3D1965	15,000
3D1931	10	3D1941	125	3D1950	500	3D1958	3,500	3D1966	20,000
3D1932	15	3D1942	150	3D1951	750	3D1959	4,000	3D1967	25,000
3D1933	20	3D1943	175						

20 Watt Size—2 Inches Long

Stock Number	Resistance Ohms	Stock Number	Resistance Ohms	Stock Number	Resistance Ohms	Stock Number	Resistance Ohms
3C1825	5	3C1839	750	3C1853	3000	3C1867	15,000
3C1826	10	3C1840	800	3C1854	3250	3C1867	25,000
3C1828	50	3C1841	1000	3C1855	3500	3D8210	30,000
3C1829	75	3C1842	1100	3C1856	3750	3D8211	35,000
3C1830	100	3C1844	1250	3C1857	4000	3D8212	40,000
3C1831	150	3C1845	1500	3C1858	4500	3D8213	45,000
3C1832	200	3C1846	1750	3C1859	5000	3D8214	50,000
3C1833	250	3C1847	1850	3C1860	6000	3D8215	60,000
3C1834	300	3C1848	2000	3C1861	7000	3D8216	70,000
3C1835	350	3C1849	2250	3C1862	7500	3D8217	75,000
3C1836	400	3C1850	2400	3C1863	8000	3D8218	80,000
3C1837	500	3C1851	2500	3C1864	10000	3D8219	90,000
3C1838	650	3C1852	2750	3C1865	12500	3D8220	100,000

YOUR PRICE 19c **YOUR PRICE 23c** **YOUR PRICE 27c** **YOUR PRICE 35c**

50 Watt Size—1 Inches Long (with lugs)

Stock Number	Resistance Ohms	Stock Number	Resistance Ohms	Stock Number	Resistance Ohms	Stock Number	Resistance Ohms
3C1875	10	3C1883	1000	3C1891	4000	3C1898	10,000
3C1876	20	3C1884	1150	3C1892	5000	3C1899	12,000
3C1877	50	3C1885	1250	3C1893	6000	3C1900	15,000
3C1878	100	3C1886	1500	3C1894	7000	3C1901	25,000
3C1879	250	3C1887	2000	3C1895	7500	3C1902	50,000
3C1880	500	3C1888	2250	3C1896	8000	3C1903	70,000
3C1882	750	3C1889	2500	3C1897	9000	3C1904	100,000

YOUR PRICE 29c **YOUR PRICE 35c** **YOUR PRICE 39c** **YOUR PRICE 48c**

Adjustable Voltage Dividers



Guaranteed Standard
N.E.M.A. Ratings

Vitreous Enamelled
Will replace any tapped volt-amp divider. Wound on Insul-antile tube and covered with high grade vitreous enamel. A narrow track of exposed wire provides a simple means of adjusting the slider lug to the exact value desired. Small contact button on adjustable lug shorts out minimum of resistance. Metal Metal lugs insure firm connection with resistance wire. New longer tube permits the use of more than one adjustable tap where required. Rated strictly in accordance with the requirements of the National Electric Manufacturers Association. Adjustable mounting brackets.

30 Watt **50 Watt** **75 Watt**
Size $2\frac{1}{2}$ " x 3" Size $4\frac{1}{2}$ " x 5" Size $6\frac{1}{2}$ " x 7"
Minimum Mtg. C.-3" Minimum Mtg. C.-5" Minimum Mtg. C.-7"

Stock Number	Resist. Ohms	Max. Currt. M.A.	Stock Number	Resist. Ohms	Max. Currt. M.A.	Stock Number	Resist. Ohms	Max. Currt. M.A.
3E1676	5	2450	3E1703	10	2340	3E1732	100	865
3E1678	15	1410	3E1704	50	1048	3E1733	250	545
3E1680	50	770	3E1707	100	740	3E1734	500	387
3E1682	100	545	3E1709	200	520	3E1736	1000	270
3E1683	150	445	3E1711	500	330	3E1737	1500	223
3E1684	200	385	3E1714	1000	234	3E1738	2000	190
3E1685	250	345	3E1716	2000	145	3E1739	2500	173
3E1686	500	245	3E1718	3000	135	3E1741	5000	122
3E1687	750	200	3E1719	4000	117	3E1742	10000	86
3E1688	1000	193	3E1720	6000	104	3E1743	15000	70
3E1689	1500	173				3E1744	20000	61
3E1690	1500	144				3E1745	25000	55

List Price, \$1.10.
YOUR PRICE 65c **YOUR PRICE 88c**

List Price, 75c.
YOUR PRICE 44c

List Price, \$1.25.
YOUR PRICE 74c **YOUR PRICE 94c**

List Price, 95c.
YOUR PRICE 56c **YOUR PRICE 79c** **YOUR PRICE 6c**

New Radolek Resistance Indicator

Calibrated Variable Resistance Box

3E2547—List Price, \$6.50.

YOUR PRICE \$2.70

Every Serviceman Needs This!



Makes any resistance between 0 and 100,000 ohms instantly available. Consists of a calibrated 25,000 ohm potentiometer with the first 1000 ohm spread out over half the arc of rotation. Three selected 25,000 ohm resistors in series with the potentiometer permit adjustment of resistance to any value from 0 up to 0.1 megohm, through insulated pinjacks. Excellent temporary substitute for burned out resistors of voltage divider sections to determine the original value of resistor. May be employed as "known" variable resistance in Wheatstone bridge circuits. Used for calibrating hand made ohmmeters; selecting best bias resistances; extending voltmeter scales; as shunt multipliers, etc.

New! Exclusive Radolek Invention!
Designed and built in Radolek's laboratory. Safety convenience, speed, accuracy, and general utility built into the finest calibrated resistance indicator available at a moderate price. Will meet your severest service—will save you hours of tedious searching for proper size resistors. Specifications: Moulded brown bakelite case with modernistic close fitting indicator knob, etched aluminum scale, six pinjacks, special tapered "pot" and resistors. Matches finest precision built apparatus in appearance. 330° deg. arc of rotation, over 7 inches of wire wound contact surface. Size: 5" x 2 1/2" x 1 1/2".

Many Advantages of Radolek Indicator

Tapered resistance permits more exact adjustment under 1000 ohms than possible with ordinary resistance indicators. Has 15 watt capacity up to 1000 ohm, 19 watt to 25,000, 1 watt to 100,000 ohms. Safety factor of 50% overload. Beautiful easy reading etched aluminum dial plate with circuit diagram. Fire-proof bakelite case protects user from burns or shock. No exposed "hot" terminals. Excellent non-pitting constant pressure roller contact on resistance element. May be carried in hip pocket. Can be used as 25,000 ohm calibrated potentiometer. Has highest quality 2 1/2" test leads with spring-prong pin tips and tapered Alligator jaw test clips. All values of resistance have 5% or better accuracy. A resistance indicator years ahead in design.

Radolek Megohm Indicator

Decade 0.1 Meg. Resistance Steps

Calibrated resistance standard consisting of ten 100,000 ohm resistors connected in series and wired to ten taps on a constant contact selector switch. Makes available any resistance from 0.1 megohm to 1 megohm in 100,000 ohm steps. 5% accuracy.

3D2546—List Price, \$6.50.

YOUR PRICE \$3.50

Primarily designed to extend the range of the Radolek Resistance Indicator, to 1,100,000 ohms. This is a particularly suitable trial substitute for burned out resistors suspected to have had a value between 0.1 meg. and 1 meg. The Megohm Indicator may also be used as a multiplier for converting an 0.1 milliammeter to a voltmeter having ten ranges from 100 to 1000 volts maximum. Ohmmeters may be calibrated with special voltages and resistors by comparison of reading with scale of the Megohm Indicator. Extensive work on Lofin-White circuits is greatly facilitated with this match the Radolek Resistance Indicator. Perfect insulation. No possibility of shock or burn regardless of how the box is handled. Rated at one watt per 100,000 ohms. 100% overload safety factor. Positive position, constant contact, rotary switch. Etched aluminum dial marked 1 to 10, indicating the value of resistance in tenths of a megohm. Supplied with 2 1/2" test leads equipped with alligator-spring clips and spring tip prongs. Fit tip-jacks perfectly.

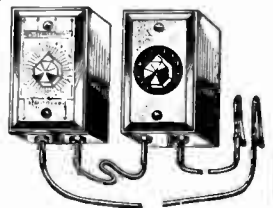


Calibrated Resistance Indicator Set

Consists of One Radolek Resistance Indicator and One Megohm Indicator

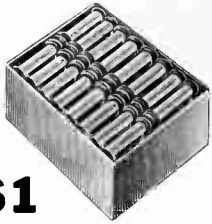
3E2527—Regular Value, \$13.00.
YOUR SPECIAL PRICE \$5.95

FOR COMPLETE SET
Radolek's calibrated Resistance Indicator combined with the Megohm Indicator gives the serviceman a complete range of test resistors between 0 and 1,100,000 ohms—any odd value instantly available for experimental or test use. Serves the purpose of Decade Resistance boxes that usually sell for more than \$100.00. Excellent for all resistance substitution in radio receivers, for test purpose.



The most useful and needed accessories in a modern service shop now available at a price in reach of every serviceman. Cases are 2 1/2" x 4" x 1 1/2" deep Etched dial plates. New style modernistic knobs 100% shock-proof bakelite cases. No possibility of a burn. Accuracy better than 5%. Each Calibrated Resistance Indicator is small enough to be carried in your pocket or in your portable tool box. Mounting holes within are arranged for permanent mounting against a wall or on a test panel.

Carbon Resistor Assortment



61

Resistors

\$4.25

Your Price (1/5 watt size)

One of each size Radolek Certified Carbon Resistors list at right.

Stock Number	Asst. Size	Your Price
3E1225	1/5 Watt	\$4.25
3E1226	1/2 Watt	4.30
3E1227	1 Watt	4.40

Every serviceman, engineer and laboratory should have each of these kits on hand. One of each resistance listed in tables at right included in the kits. Every resistor color coded and guaranteed accuracy of 10% plus or minus. Fresh new stock of highest quality. In these assortments, practically every possible resistor requirements for any type circuit or apparatus is instantly found. It will pay you to invest in a set of these kits.

3 WATT Carbon Resistors



Price Each 12c

Per Dozen **\$1.32**

Same high grade guaranteed quality as other resistors quoted on this page. Resistance guaranteed plus or minus 10%. Body size—2 1/2 inches long; 3/8 inch diameter. 1 1/2 inch tinned copper wire leads.

Stock Number	Resist. Ohms	Stock Number	Resist. Ohms
3C1250	250	3C1261	12,500
3C1251	500	3C1262	15,000
3C1252	750	3C1263	20,000
3C1253	900	3C1264	25,000
3C1254	1,000	3C1265	50,000
3C1255	1,500	3C1266	75,000
3C1256	2,000	3C1267	100,000
3C1257	3,000	3C1268	150,000
3C1258	5,000	3C1269	250,000
3C1259	7,500	3C1270	500,000
3C1260	10,000	3C1271	1 Meg.

Giant Spaghetti For Insulating Resistors, etc.



Giant Spaghetti — Cambric 3/4" tubing. To insulate 1 watt Carbon. Metallized and similar small Resistors. 1000 volt insulation. Heat resisting up to 350° F. Excellent for slipping over junctions of three or more wires, and insulating joints in shielded wire. May be fitted with hot tar for airtight seal of soldered joints. Tubular shape, 3/4" diameter, 3 ft. lengths.

3E2054—YOUR PRICE 18c
Each 36" Length
Ten lengths for \$1.60

Grid Leak Mountings

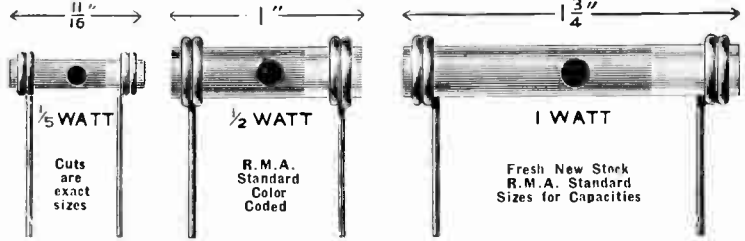


Bakelite Base Phosphor Bronze Springs
For 1 Watt Resistors of Durham Type

3E1970—Single. NET, Each 19c
3E1971—Double. NET, Each 29c

Radolek Certified

Carbon Resistors



Certified Quality

Finest quality, new fresh stock direct from the factory. The development of years of extensive research and manufacturing experience. Resistance is permanent, within a narrow range even when operated at overloads for a long period of time. Have only slight temperature coefficients at ordinary voltages. The resistance—after first few minutes of operation becomes constant. Free from capacity effect. Unaffected by humidity. Negative temperature coefficient. Conservative wattage rating, will carry reasonable overloads safely.

At Our Price, No Serviceman Can Afford to Waste His Time or Jeopardize His Reputation Using Inferior "Job Lot" or "Surplus" Resistors. Resistors Offered At Lower Prices Are of Inferior Quality and Expensive At Any Price.

Guaranteed Accuracy

Variations from values are negligible. Ratings guaranteed within 10% average variations close to 5%. Unusually quiet and become MORE QUIET the longer in use. Very strong and sturdy. Will stand all reasonable handling in manufacturing and reworking. All have welded on 1 1/2 inch tinned copper wire leads. Perfect and permanent electrical and mechanical contact. Each resistor marked with standard R.M.A. color code or labeled with rated resistance.

Be Fair to Yourself and Your Customer! We recommend a resale price of \$1.00 for Certified Quality Resistors. With this generous profit you cannot afford to risk your reputation as a serviceman with "odd lot" or "second" quality cheap resistors.

1/5 WATT
Price Each . . . 8c
Per Dozen88c
Per Hundred \$6.95

1/2 WATT
Net, Each . . . 8c
Per Dozen88c
Per Hundred \$6.95

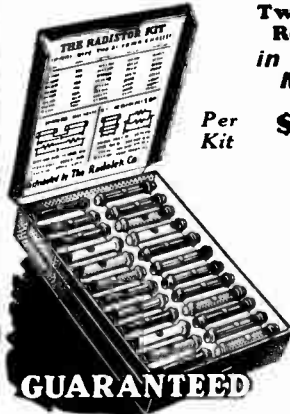
1 WATT
Net, Each . . . 9c
Per Dozen98c
Per Hundred \$7.15

Specify Size and Resistance by Stock Number

1/5 Watt Stock Number	1/5 Watt Stock Number	1 Watt Stock Number	Resistance Ohms	1/5 Watt Stock Number	1/2 Watt Stock Number	1 Watt Stock Number	Resistance Ohms	1/5 Watt Stock Number	1/2 Watt Stock Number	1 Watt Stock Number	Resistance Ohms
3C1000	3C1075	3C1150	100	3C1021	3C1096	3C1171	3,500	3C1041	3C1116	3C1191	100,000
3C1001	3C1076	3C1151	150	3C1022	3C1097	3C1172	4,000	3C1042	3C1117	3C1192	150,000
3C1002	3C1077	3C1152	200	3C1023	3C1098	3C1173	4,500	3C1043	3C1118	3C1193	200,000
3C1003	3C1078	3C1153	250	3C1024	3C1099	3C1174	5,000	3C1044	3C1119	3C1194	250,000
3C1004	3C1079	3C1154	300	3C1025	3C1100	3C1175	6,000	3C1045	3C1120	3C1195	300,000
3C1005	3C1080	3C1155	350	3C1026	3C1101	3C1176	7,000	3C1046	3C1121	3C1196	400,000
3C1006	3C1081	3C1156	400	3C1027	3C1102	3C1177	8,000	3C1047	3C1122	3C1197	Megohms .5
3C1007	3C1082	3C1157	450	3C1028	3C1103	3C1178	9,000	3E1061	3E1136	3E1211	.6
3C1008	3C1083	3C1158	500	3C1029	3C1104	3C1179	10,000	3E1062	3E1137	3E1212	.75
3C1009	3C1084	3C1159	600	3C1030	3C1105	3C1180	12,500	3E1063	3E1138	3E1213	.9
3C1010	3C1085	3C1160	700	3C1031	3C1106	3C1181	15,000	3C1048	3C1123	3C1198	1.0
3C1011	3C1086	3C1161	800	3C1032	3C1107	3C1182	17,500	3C1049	3C1124	3C1199	1.5
3C1012	3C1087	3C1162	900	3C1033	3C1108	3C1183	20,000	3C1050	3C1125	3C1200	2.0
3C1013	3C1088	3C1163	1,000	3C1034	3C1109	3C1184	22,500	3C1051	3C1126	3C1201	2.5
3C1014	3C1089	3C1164	1,250	3C1035	3C1110	3C1185	25,000	3C1052	3C1127	3C1202	3.0
3C1015	3C1090	3C1165	1,500	3C1036	3C1111	3C1186	30,000	3C1053	3C1128	3C1203	3.5
3C1016	3C1091	3C1166	1,750	3C1037	3C1112	3C1187	40,000	3C1054	3C1129	3C1204	4.0
3C1017	3C1092	3C1167	2,000	3C1038	3C1113	3C1188	50,000	3C1055	3C1130	3C1205	5.0
3C1018	3C1093	3C1168	2,500	3C1039	3C1114	3C1189	60,000	3C1056	3C1131	3C1206	6.0
3C1019	3C1094	3C1169	2,500	3C1040	3C1115	3C1190	75,000	3C1060	3C1135	3C1210	10.
3C1020	3C1095	3C1170	3,000								

The RADISTOR Kit

Twenty-Four "Certified" Replacement Resistors in a Compact Laquered Metal Carrying Case



Per Kit **\$2.10**

3E1232—1 watt
3E1231—1/2 watt
3E1230—1/5 watt

GUARANTEED

3E1233—Case only. No Resistors. YOUR PRICE 42c

Color Code Chart FREE
Included is our special chart which gives R.M.A. color code. You can instantly determine resistance of any resistor by referring to this chart.

These kits enable the serviceman to make practically any resistor repair regardless of any unusual value resistance needed. Twenty-five of the most popular value resistors are included as follows: 1 each—100; 250; 400; 500; 800; 1,000; 2,000; 3,000; 4,000; 5,000; 6,000; 10,000; 12,500; 15,000; 20,000; 25,000; 30,000; 50,000; 60,000; 75,000; 100,000; 250,000; 500,000 ohms; 1 megohm; 2 megohms. If value wanted is not in kit, combinations can be made to give a resultant resistance of any exact value needed. Simple chart and calculating formulae included in kit. Accuracy guaranteed within 10%, and most values are actually within 5%.

In the Metal Box

Resistors are always ready and safe. These sets of resistors are packed in strong, green laquered heavy gauge steel boxes. The boxes protect the resistors against the roughest handling. Just drop the kit in your tool box and forget it. When you get on a job, you are always sure to have the correct dependable resistors ready to use.

SPECIAL Carbon Resistors



3E1275—1 watt
3E1276—1/2 watt
EACH 7c
In Dozen Lots Assorted

Per Dozen **\$0.84**
50 Assorted **3.25**
100 Assorted for **5.85**

Supplied in all Resistances listed in above quotations.

Specify Resistance Wanted.
Guaranteed first quality. Fresh, new, clean stock. We never have and will not handle "factory rejects" nor "job lots" of carbon resistors. Every resistor supplied on this quotation is standard size, standard specification, standard R.M.A. color coded. Have 1 1/2 inch tinned copper leads welded to ends of carbon rolls. Ohmage tolerance guaranteed within 10% plus or minus.

We recommend that every conscientious Radio Service Man use the best quality Carbon Resistors like our Radolek Certified Line listed above. But if you feel you must use low cost resistors, you will find this Special Line the BEST VALUES in the low priced field. No one can ever afford to use the resorted, re-colored, cheap reject resistors usually offered at job lot prices.

IRC Metallized Resistors



IRC Certified Resistor Kits

In Factory Sealed Boxes

Handy Kit No. 1

20-1 Watt Resistors

3E1475—List, \$5.00. **YOUR PRICE \$3.00**

Contains 20 metallized units of the most used sizes. Makes it possible for the man who is doing repair and replacement work to secure hundreds of different values. Pocket size. Contains one each of: 500, 1,000, 2,000, 5,000, 10,000, 15,000, 20,000, 25,000, 50,000, 60,000, 70,000, 75,000, 100,000, 200,000 ohms; 1/4, 1/2, 1, 1 1/2, 2 and 3 megohms.

Handy Kit No. 2

20-2 Watt Resistors

3E1476—List, \$7.00. **YOUR PRICE \$4.20**

20 replacement 2 watt resistors. Ohms: 500, 2000, 5000, 10,000, 15,000, 20,000, 25,000, 50,000, 60,000, 70,000, 75,000, 100,000, 200,000, 250,000, 300,000, Megohms 1.0, 1.5, 2.0, 3.0, 5.0.

Handy Kit No. 3

20 Midget 1/2 Watt Resistors

One each: Ohms—50, 100, 250, 500, 1,000, 1,500, 2,000, 5,000, 10,000, 20,000, 25,000, 50,000, 75,000, Megohms 1.0, 1.5, 2.0, 3.0, 5.0. **3E1478—List, \$5.00. YOUR PRICE \$3.00**

Handy Kit No. 4

12-5 Watt Resistors

One each of the following sizes: Ohms—50, 100, 200, 500, 1,000, 1,500, 2,000, 5,000, 10,000, 12,500, 15,000. **3E1479—List, \$5.40. YOUR PRICE \$3.24**

Handy Kit No. 5

12-10 Watt Power-Wound Resistors.

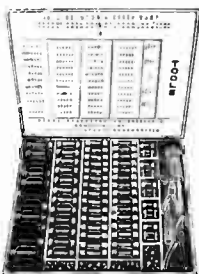
Safely Replaces burned out sections of voltage dividers. One each of the following: Ohms—100, 500, 1,000, 2,000, 3,000, 5,000, 7,500, 10,000, 15,000, 20,000, 25,000, 30,000. **3E1481—List, \$7.80. YOUR PRICE \$4.68**

Handy Grid Bias Kit

3E1477—List, \$3.20. **YOUR PRICE \$1.92**

Contains 10 assorted Resistors of 1 watt, 2 watt and Power Wire Wound (5-watt) types, required to bias the following tube types: '24-'26-'27-'1A-'10-'45-'50-'47. Contains resistance values that can be used as grid suppressors.

New IRC No. 6 Combination Kit



107 Assorted Resistors in Handy Steel Case

Here is a complete Resistor stock that will enable you to handle any service job without loss of time or motion. Kit contains 107 assorted Resistors in a wide range of values shown by extensive IRC records to be required in service work. Only the most popular sizes in each wattage are included: 1 1/2 Watt, 4-6-1 Watt, 22-2 Watt, 12-5 Watt Power Wire Wound, and 12-10 Watt Power Wire Wound Resistors. A neatly printed stock card makes it easy to keep your stock complete.

FREE! Besides the handy steel kit (regular Value \$2.50) each IRC Kit No. 6 purchaser receives without cost a copy of the famous IRC Resistor Replacement Guide (Value \$1.00) and the IRC Color Code Chart (Value 25c).

Genuine IRC—The original Metallized Resistors—dependable, most efficient made for modern Radio Sets. Accurate within 10%.

IRC 1/3 Watt

Pigtail Type Length 3/8" In.

List, 25c Ea. **YOUR PRICE 15c**

Stock Number	Ohms	Stock Number	Ohms
3E1280	50	3E1445	11,000
3E1281	100	3E1446	12,500
3E1282	200	3E1447	15,000
3E1283	250	3E1448	20,000
3E1284	300	3E1449	25,000
3E1285	350	3E1450	30,000
3E1286	400	3E1451	40,000
3E1287	500	3E1452	50,000
3E1288	600	3E1453	60,000
3E1289	750	3E1454	65,000
3E1290	850	3E1455	70,000
3E1291	1,000	3E1456	75,000
3E1292	1,250		Megohms
3E1293	1,500	3E1457	0.1
3E1294	2,000	3E1458	0.15
3E1295	2,250	3E1459	0.2
3E1296	2,500	3E1460	0.25
3E1297	3,000	3E1461	0.3
3E1298	3,500	3E1462	0.4
3E1299	4,000	3E1463	0.5
3E1440	5,000	3E1464	0.75
3E1441	6,000	3E1465	1.0
3E1442	7,500	3E1466	1.5
3E1443	8,000	3E1467	2.0
3E1444	10,000	3E1468	3.0

IRC 1 Watt

Pigtail Type—Length 1 1/8"

List, 25c Ea. **YOUR PRICE 15c**

Stock Number	Ohms	Stock Number	Ohms
3E1375	100	3E1402	30,000
3E1376	150	3E1403	32,000
3E1377	200	3E1404	40,000
3E1378	250	3E1405	45,000
3E1378	250	3E1406	50,000
3E1379	300	3E1407	51,000
3E1380	350	3E1408	60,000
3E1379	500	3E1438	65,000
3E1371	600	3E1409	70,000
3E1372	750	3E1410	75,000
3E1373	850	3E1411	99,000
3E1370	1,000	3E1412	100,000
3E1374	1,250	3E1413	150,000
3E1381	1,350	3E1414	190,000
3E1382	1,500	3E1415	200,000
3E1383	2,000	3E1416	240,000
3E1384	2,250	3E1417	250,000
3E1385	2,500	3E1418	300,000
3E1386	3,000	3E1419	400,000
3E1387	3,500	3E1420	490,000
3E1388	4,000	3E1421	500,000
3E1389	5,000	3E1422	750,000
3E1390	6,000		Megohms
3E1391	7,000	3E1423	1.0
3E1392	8,000	3E1424	1.5
3E1393	9,000	3E1425	2.0
3E1394	10,000	3E1426	2.5
3E1436	11,000	3E1427	3.0
3E1437	12,500	3E1428	3.5
3E1438	13,000	3E1429	5.0
3E1397	15,000	3E1431	6.0
3E1398	17,500	3E1432	7.0
3E1399	20,000	3E1433	8.0
3E1400	22,500	3E1434	9.0
3E1401	25,000	3E1435	10.0

IRC 1/2 Watt

Length 1"

List 25c
Your Price
Each **15c**

Stock Number	Ohms	Stock Number	Ohms
3E1355	50	3E1323	20,000
3E1300	100	3E1324	25,000
3E1356	200	3E1325	30,000
3E1301	250	3E1326	32,000
3E1302	270	3E1327	40,000
3E1357	300	3E1328	45,000
3E1358	350	3E1329	50,000
3E1359	400	3E1330	51,000
3E1303	500	3E1331	60,000
3E1360	600	3E1366	65,000
3E1361	750	3E1332	70,000
3E1362	850	3E1333	75,000
3E1304	1,000	3E1334	99,000
3E1363	1,250	3E1335	100,000
3E1305	1,500	3E1336	150,000
3E1306	2,000	3E1337	160,000
3E1307	2,250	3E1338	200,000
3E1308	2,500	3E1339	240,000
3E1309	2,700	3E1340	250,000
3E1310	2,900	3E1341	300,000
3E1311	3,000	3E1342	330,000
3E1312	3,500	3E1343	400,000
3E1313	4,000	3E1344	450,000
3E1314	5,000	3E1345	500,000
3E1315	6,000	3E1346	750,000
3E1316	7,000		Megohms
3E1364	7,500	3E1347	1.0
3E1317	8,000	3E1348	1.5
3E1318	9,000	3E1349	2.0
3E1319	10,000	3E1350	2.5
3E1365	11,000	3E1351	3.0
3E1320	12,500	3E1352	3.5
3E1321	15,000	3E1353	4.0
3E1322	17,500	3E1354	5.0

IRC 2 Watt

Pigtail Type—Length 1 1/8"

List Price, 35c Ea. **YOUR PRICE 21c**

Stock Number	Ohms	Stock Number	Ohms
3E1500	50	3E1520	12,500
3E1501	100	3E1521	15,000
3E1502	200	3E1522	20,000
3E1503	250	3E1523	25,000
3E1504	300	3E1524	30,000
3E1505	350	3E1525	40,000
3E1506	400	3E1526	50,000
3E1507	500	3E1527	51,000
3E1508	600	3E1528	60,000
3E1509	750	3E1529	65,000
3E1510	850	3E1530	70,000
3E1511	1,000	3E1531	75,000
3E1512	1,250	3E1532	100,000
3E1513	1,500	3E1533	125,000
3E1514	1,750	3E1534	150,000
3E1515	2,000	3E1535	175,000
3E1516	2,250	3E1536	200,000
3E1517	2,500	3E1537	250,000
3E1518	2,700		Megohms
3E1519	2,900	3E1538	1.0
3E1520	3,000	3E1539	1.5
3E1521	3,500	3E1540	2.0
3E1522	4,000	3E1541	3.0
3E1523	4,500	3E1542	4.0
3E1524	5,000	3E1543	5.0
3E1525	6,000	3E1544	7.0
3E1526	7,000	3E1545	8.0
3E1527	8,000	3E1546	9.0
3E1528	9,000	3E1547	10.0
3E1529	10,000		

IRC Resistor Guide



3E5981—List Price **\$1.00**

Given Free with Orders for 20 IRC Resistors

Gives detailed information on Resistors used in practically all leading Radio Sets.

Metallized Auto Radio Suppressors



Special Ford Type

For Ford V-8, 50,000 ohms. Also suitable for all other cars except those having recessed plugs. **3E1489—List, 40c. YOUR PRICE 24c**



Cable End Type

3E1490—List, 40c. **YOUR PRICE 24c**

Especially made for Buicks and other cars having recessed plugs.

Standard Spark Plug Type



Fittings adaptable for all standard ignition systems. 15,000 ohms. **3E1485—List, 40c. YOUR PRICE 24c**

Standard Cable Type



For insertion in spark plug cable. Generally used where Spark Plug Type cannot be connected. **3E1486—List, 40c. YOUR PRICE 24c**

Standard Distributor Type



3E1487—List, 40c. YOUR PRICE 24c

New IRC Fused Dual Resistance Indicator



3E1483—List, \$4.50. YOUR PRICE \$2.70

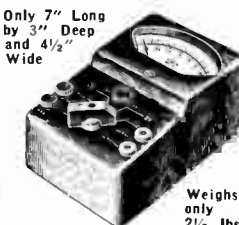
Two ranges obtained by tilting ball bearing slider to the scale desired. Low range, 100 to 10,000 ohms, high range 10,000 to 100,000 ohms. Little fuse protects the resistance element against overheating.

New improved narrow-jaw alligator clips on test leads. Choice of potentiometer or straight resistance circuit. 1 1/2 inches of resistance contact surface. Size 7"x1 1/2"x2 3/8". High.

Featured Applications

Experimental substitute for defective resistors. Calibrated rheostat for limiting current or adjusting voltage. As "known" resistance branch of a wheatstone bridge circuit.

New IRC Volt-Ohmmeter



Only 7" Long by 3" Deep and 4 1/2" Wide. Weighs only 2 1/2 lbs.

Invaluable for accurate servicing through the point-to-point method. Exclusive Vacuum Relay.

Easy to read knife edge pointer. Extra large 37 etched scale. Bakelite case. Special moulded handle. One set of pin jacks for all readings. 1% Precision Wire Wound Resistors used exclusively. Very compact—fits easily into service kit. Voltage Ranges 3/30/200/600; Resistance ranges: 0/1,000/100,000/ohms and 0/1 megohm. **3E1474—List, \$42.50. YOUR PRICE \$24.99**

CONTINENTAL CARBON Inc.

Certified Molded Carborite Resistors

1000 Volt Ceramic Coat Insulation
The finest first quality molded carbon resistors. Their special feature is the Ceramic Coating having a 1000 Volt Insulation. This style of construction permits them to be mounted close to or in contact with the chassis and to come in contact with "live" wires or pieces of apparatus, without danger of shorting. This coating is very tough, will not chip off and is especially effective at the ends covering the connecting wire fully. Only the tinned lead wires away from the body are bare. These efficient and accurate resistors are highly recommended for all repair work. While slightly higher in price, their superior quality and performance make them worth more than the added cost. The exclusive manufacturing processes used by Continental have reduced the effects of lead, age, temperature and humidity to a minimum. Permanent resistance value. Modern laboratory machines and methods remove all units that do not pass the rigid Continental standards of accuracy. Quietness: Their exclusive mechanical construction and the highly developed resistance material have eliminated noisy operation.

Non-inductive. Sturdy construction. Over-size current carrying capacity. R.M.A. Color Coding, just Certified Seal. Body sizes: $\frac{1}{2}$ watt, $\frac{3}{8}$ diameter, $\frac{3}{4}$ long.—1 watt, $\frac{3}{8}$ diameter, $1\frac{1}{4}$ long. $\frac{1}{2}$ inch tinned wire leads.

Specify Size and Resistance By Stock Number

Watt	Stock Number	Resist. Ohms.	Watt	Stock Number	Resist. Ohms.	Watt	Stock Number	Resist. Ohms.	Watt	Stock Number	Resist. Ohms.
$\frac{1}{2}$	3E7800	150	$\frac{1}{2}$	3E7813	5,000	$\frac{1}{2}$	3E7826	75,000	$\frac{1}{2}$	3E7839	2,500,000
$\frac{1}{2}$	3E7801	250	$\frac{1}{2}$	3E7814	6,000	$\frac{1}{2}$	3E7827	100,000	$\frac{1}{2}$	3E7840	3,000,000
$\frac{1}{2}$	3E7802	400	$\frac{1}{2}$	3E7815	7,000	$\frac{1}{2}$	3E7828	150,000	$\frac{1}{2}$	3E7841	4,000,000
$\frac{1}{2}$	3E7803	500	$\frac{1}{2}$	3E7816	8,000	$\frac{1}{2}$	3E7829	200,000	$\frac{1}{2}$	3E7842	5,000,000
$\frac{1}{2}$	3E7804	750	$\frac{1}{2}$	3E7817	10,000	$\frac{1}{2}$	3E7830	250,000	$\frac{1}{2}$	3E7843	7,500,000
$\frac{1}{2}$	3E7805	1,000	$\frac{1}{2}$	3E7818	12,500	$\frac{1}{2}$	3E7831	300,000	$\frac{1}{2}$	3E7844	10,000,000
$\frac{1}{2}$	3E7806	1,500	$\frac{1}{2}$	3E7819	15,000	$\frac{1}{2}$	3E7832	400,000	$\frac{1}{2}$	3E7845	15,000,000
$\frac{1}{2}$	3E7807	1,750	$\frac{1}{2}$	3E7820	20,000	$\frac{1}{2}$	3E7833	500,000	$\frac{1}{2}$	3E7846	20,000,000
$\frac{1}{2}$	3E7808	2,000	$\frac{1}{2}$	3E7821	25,000	$\frac{1}{2}$	3E7834	1 Meg.	$\frac{1}{2}$	3E7847	2.5 Meg.
$\frac{1}{2}$	3E7809	2,500	$\frac{1}{2}$	3E7822	30,000	$\frac{1}{2}$	3E7835	1.5 Meg.	$\frac{1}{2}$	3E7848	3 Meg.
$\frac{1}{2}$	3E7810	3,000	$\frac{1}{2}$	3E7823	35,000	$\frac{1}{2}$	3E7836	2 Meg.	$\frac{1}{2}$	3E7849	4 Meg.
$\frac{1}{2}$	3E7811	3,500	$\frac{1}{2}$	3E7824	40,000	$\frac{1}{2}$	3E7837	3 Meg.	$\frac{1}{2}$	3E7850	5 Meg.
$\frac{1}{2}$	3E7812	4,000	$\frac{1}{2}$	3E7825	45,000	$\frac{1}{2}$	3E7838	4 Meg.			

Continental Certified Carborite Molded Resistors

3 Watt

1000 Volt Ceramic Coating Insulation

Same high grade quality and style of construction as above $\frac{1}{2}$ watt and 1 watt but 3 watt capacity. Body size—Diameter $\frac{3}{4}$ inch, Length $1\frac{1}{2}$ inch, $\frac{1}{2}$ inch tinned wire leads.

Specify Resistance by Stock Number

Stock Number	Resist. Ohms.	Stock Number	Resist. Ohms.	Stock Number	Resist. Ohms.	Stock Number	Resist. Ohms.
3E7880	750	3E7885	10,000	3E7890	60,000	3E7895	250,000
3E7881	1,000	3E7886	12,500	3E7891	75,000	3E7896	300,000
3E7882	2,000	3E7887	15,000	3E7892	100,000	3E7897	400,000
3E7883	5,000	3E7888	25,000	3E7893	150,000	3E7898	500,000
3E7884	7,500	3E7889	50,000	3E7894	200,000	3E7899	1 Meg.

Continental Ignition Interference Suppressor

High quality ignition noise suppressors developed to afford complete absorption of motor interference with minimum effect upon operation of the motor. "Carborite" element assures permanent satisfactory performance despite heat, vibration, or moisture.



3E1800—List. 40c.
YOUR PRICE **23c**

The new Flexo-terminal spark plug suppressor. The terminal can be bent to mount the suppressor in a vertical or horizontal position.



3E1801—List. 40c.
YOUR PRICE **23c**

New Buick, Packard and Chrysler. Type Ellow spark plug suppressor. The suppressor takes the place of the terminal on the ignition cable.



3E1805—List. 30c.
YOUR PRICE **18c**

Resistance type. Bakelite body. Has threaded insert for screwing suppressor directly into spark plug. Threads fit any spark plug.



3E1802—List. 40c.
YOUR PRICE **23c**

Distributor suppressor. Will fit all makes of distributors.



3E1803—List. 40c.
YOUR PRICE **23c**

Cable suppressor. Meets requirements where it is necessary to cut the ignition cable at any point and install a suppressor.



3E1804—List. 40c.
YOUR PRICE **23c**

Standard Type Universal Spark Plug Suppressor with "U" terminal.

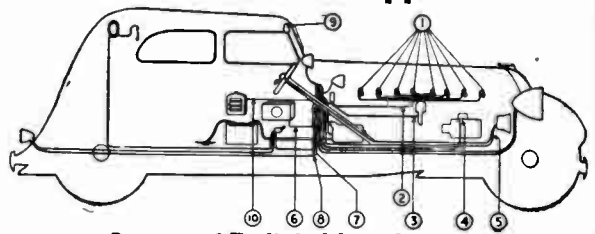


Type GB03C
YOUR PRICE **35c**

For installations where the condenser cannot be bolted directly to ground. Has insulated case and a flexible insulated lead coming out of each end. Capacity $\frac{1}{2}$ mfd. Measures 2" in length and $\frac{3}{4}$ " in diameter.

3E1813—List. 60c.
YOUR PRICE **35c**

Auto Radio Noise Suppression



Sources of Radiated Interference

- 1—Spark Plug Cables:** A high frequency oscillating current is set up by the discharge across the spark plug points. CONTINENTAL Suppressors effectively keep this from reaching the radio set. Improved reception can be secured by placing a suppressor in each spark plug cable on installations having a suppressor only at 2.
- 2—Coil to Distributor Cables:** Suppressor here absorbs oscillating current interference from spark between distributor points and rotor. Press down distributor rotor or add solder to reduce this gap to minimum.
- 3—Low Tension Breaker to Coils:** Install Type GB025, GB05, or GB05B Filter Units. Especially necessary with coils mounted on dash or through bulk-head.
- 4—Generator Commutator:** Noise introduced to electrical system by sparking at brushes. Clean brushes to minimize and install Types GB05, GB1, or GB05B and GB1A Filter Unit where greatest mechanical strength is desired, with terminal of lead wire on battery side of generator cutout. If noise persists when idling motor, install second condenser across generator side of control.
- 5—Horn:** Spark at horn armature causes interference that works back into set. GB1 or GB1A Filter Unit across terminals will usually eliminate all interference.
- 6—Radio 6-Volt Input:** Miscellaneous noise entering the receiver through the power input can be effectively eliminated by installing in the "A" lead to the receiver the Type GB05DH Dual Capacity and Inductance Filter Unit. Such interference may persist, although all electrical

units are properly filtered, since it is frequently set up by loose electrical connections, insecurely grounded electrical accessories, or frictional static discharges. Improves the tone quality of many auto-radio installations with correct filter capacities.

7-8—Lighting Wiring In Car Body: Miscellaneous "hash" or noise introduced into the electrical system will be radiated from every wire that is not enclosed by metal. Dome light, stop light, tail light, and other wiring that passes near the radio antenna cause this interference to enter the radio receiver. The offending wires may be located by disconnecting, one at a time, each cable where it connects to the light switch, ammeter, or starter switch. When a wire is found by the disconnection of which the interference is eliminated, reconnect it and connect a Type GB05 Filter Unit from it to ground. If this does not remove the noise, a Type GB1 or Type GB05H Capacity and Inductance Filter Unit may be necessary. The Type GB05C Filter Unit has been designed for applications of this type where it is impossible to connect the metal container of the other type units to a grounded metal part of the car and still have it close to the radiating circuit.

9-10—Electric Windshield Wiper, Electric Fan, or Hot Water Heater: Sparking of commutators and switch points in such accessories cause interference which may be removed by use of Type GB025, GB05, or GB1 Filter Units. Make installations as close to the device as possible. The larger the capacity of the Filter used the more effective will be the noise elimination. Some heaters may require the use of a Type GB05H Capacity and Inductance Filter Unit.

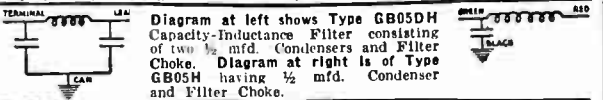


Diagram at left shows Type GB05DH Capacity-Inductance Filter consisting of two $\frac{1}{2}$ mfd. condensers and Filter Choke. Diagram at right is of Type GB05H having $\frac{1}{2}$ mfd. Condenser and Filter Choke.

Auto-Filter Condensers

For elimination of noise from auto-radio installations, where capacity alone is sufficient to filter out the disturbance. Used to stop interference from the generator commutator, electrical windshield wiper, horn, dis-

tributor points, ignition coil, fan, heater motor, and other accessories. They have test voltage ratings many times that required. Vacuum impregnated and sealed proof against moisture, oil, dirt, and vibration.

Standard Filter Condensers

Enclosed in round metal container sealed against moisture and oil. One side is connected to the container which has a flange for bolting to the chassis, making direct electrical contact to ground. The other terminal has long insulated lead with convenient screw lug.



Stock Number	Code Number	Cap'ty Mfd.	List Price	Your Price
3E1806	GB025	$\frac{1}{4}$	50c	29c
3E1807	GB05	$\frac{1}{2}$	65c	35c
3E1808	GB1	1	75c	44c

Super-Duty Filter Condensers

Recommended for installations in the motor compartment or other places where excesses of heat and moisture are encountered. Has extra large heavy metal container, measuring $2\frac{1}{2}$ " in length and $1\frac{1}{2}$ " in diameter, with mounting strap going all around. One side connected to container and other furnished with flexible insulated lead.

Stock Number	Code Number	Cap'ty Mfd.	List Price	Your Price
3E1809	GB05B	$\frac{1}{2}$	65c	38c
3E1810	GB1A	1	80c	47c

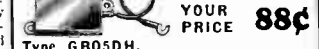
Capacity and Inductance Auto-Filter Units

For use where noise suppression problems cannot be solved by the filtering effect of capacity alone. Especially effective where ear lighting wiring radiates interference into the antenna. These units are usually connected between the light system switch or ammeter and the leads to lights and accessories.



3E1811—List. \$1.00.
YOUR PRICE **58c**

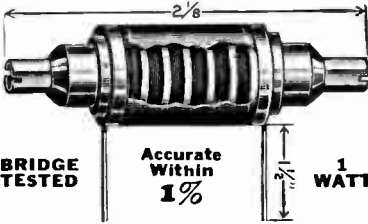
Type GB05H Consists of $\frac{1}{2}$ mfd. Condenser with choke suitable for carrying up to 5 amps. Housed in insulating container with three insulated flexible leads. $3\frac{1}{2}$ " long, $\frac{3}{4}$ " diam.



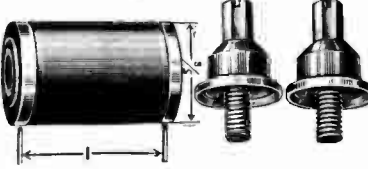
3E1812—List. Each \$1.50.
YOUR PRICE **88c**

Type GB05DH. Consists of two $\frac{1}{2}$ mfd. condensers and a filter choke. Housed in a metal case which makes connection to ground. Two flexible insulated leads connect to the circuit, which is opened for insertion of the filter. Size $2\frac{1}{2}$ " x $1\frac{1}{4}$ ". Used to filter power supply from battery to receiver or for lighting circuits not completely filtered by choke and single condenser units.

ELECTRAD Precision Wire Wound Resistors



Designed for use in high grade test instruments, laboratory equipment and custom built apparatus. Particularly useful as voltmeter multipliers or for the construction of a 1000 ohms per volt multi-range voltmeter with any good quality 0.1 milliammeter. Actually bridge-tested and guaranteed to be accurate within 1%. Space wound with highest quality enameled resistance wire in layers on insulantite and impregnated with moisture resisting compound to insure against variation due to moisture absorption or temperature fluctuation. Non-inductive—low distributed capacity due to high insulation between turns and multiple layer design. Body length above 450,000 ohms 1 1/4 in.



Stock Number	Resist. Ohms	Max. Volta Potential	Current M. A.	List Price	YOUR PRICE
3E8341	.1	.38	3875	\$0.75	
3E8300	1.	1.2	1225	.75	44c
3E8344	2.08	1.77	847	.75	
3E8301	5.	2.7	548	.75	
3E8346	10.	3.8	387	.75	
3E8347	25.	6.1	245	.75	
3E8349	30.	6.82	220	.75	
3E8350	33.33	7.1	210	.75	
3E8302	45	8.25	182	\$0.75	
3E8353	50	8.6	173	.75	
3E8354	100	12.	122	.75	
3E8303	150	15.	100	.75	44c
3E8355	200	17.	86	.75	
3E8304	400	25	61	.75	
3E8356	500	27.	55	.75	
3E8305	700	32.4	46	\$0.80	
3E8357	750	34.	44	.80	
3E8358	1,000	38.	38	.80	47c
3E8306	1,450	40.	37	.85	
3E8307	1,500	45.	33	.85	50c
3E8359	2,500	61.	24	.85	
3E8360	3,500	65.	23	\$0.90	
3E8308	4,000	79.	19	.90	
3E8361	4,450	83.	18	.90	53c
3E8309	4,500	84	18	.90	
3E8362	4,950	86	17	.90	
3E8363	5,000	87	17	.90	
3E8364	5,500	90	16	\$0.95	
3E8310	7,450	107	14	.95	56c
3E8311	9,950	122	12	.95	
3E8366	10,000	125	12	.95	
3E8312	12,500	137	11	1.00	59c
3E8367	14,950	150	10	1.00	
3E8368	20,000	173	8.6	\$1.25	
3E8369	25,000	194	7.7	1.25	
3E8313	30,000	212	7.	1.25	73c
3E8370	35,000	229	6.5	1.25	
3E8371	40,000	245	6.1	1.25	
3E8372	50,000	274	5.6	1.25	
3E8314	60,000	300	5.	\$1.50	
3E8315	75,000	336	4.4	1.50	
3E8316	90,000	375	4.	1.75	
3E8373	100,000	387	3.8	1.75	\$1.02
3E8317	125,000	433	3.4	2.00	1.18
3E8318	140,000	450	3.2	\$2.25	
3E8374	150,000	475	3.1	2.25	1.32
3E8319	175,000	510	2.9	2.25	
3E8375	200,000	548	2.7	2.25	
3E8320	225,000	580	2.5	\$2.50	1.47
3E8376	250,000	610	2.4	2.50	
3E8377	300,000	670	2.2	2.75	
3E8378	400,000	750	2.2	2.75	1.62
3E8321	450,000	750	2.	2.75	
3E8379	500,000	750	2.	\$3.25	1.91
3E8322	600,000	770	1.6	4.00	
3E8323	750,000	750	1.3	4.00	2.35
3E8324	900,000	1000	1.	5.00	
3E8325	1 Meg.	1000	1.	5.00	2.94

Removable Ferrule Terminals
Furnished without ferrules with 1/4 in. tinned wire leads. Can be converted to ferrule type unit as illustrated above by screwing ferrule into each end of resistor.

3E8299—Ferrules List, per Pair, 15c.
YOUR PRICE, per Pair, 9c



Type A—10 Watts 3/8"x1 3/4" Long

Stock Num.	Resist. Ohms	Current M. A.	Max. Volts
3E150	1	3150	3
3E151	2	2200	4.5
3E152	2.5	2000	5
3E153	3	1800	5.5
3E154	5	1400	7
3E155	7.5	1150	8.5
3E156	10	1000	10
3E157	15	815	12
3E158	20	700	14
3E159	25	630	16
3E160	30	570	17
3E161	50	450	22
3E162	75	360	27
3E163	100	315	31
3E164	200	220	45
3E165	300	180	55
3E166	400	158	63
3D167	500	141	70
3E168	800	112	89
3E169	1000	100	100
3E170	1250	89	111
3E171	1500	81	122
3E172	2000	70	141
3E173	2500	63	158
3E174	3000	56	173
3E175	4000	50	200
3E176	5000	45	222
3E177	7500	36	274
3E178	10000	31	316
3E179	15000	26	388
3E180	20000	20	395
3E181	25000	16	400

List Price, Each 50c.
YOUR PRICE, Each... 29c

Adjustable Sliding Clips
To adjust Truvolt resistors to exact value desired.

3E231—For Type "A" Truvolt.
3E230—For Types "B" and "D".
YOUR PRICE, Each... 6c

Lug Type EACH 7c
TEN FOR 65c

1/2 Watt Capacity
Wire wound on fiber strip. End lugs firmly clamped on, cannot pull off. Can be bent to any angle for mounting. Overall length about 1 1/4". Accuracy guaranteed within 5%.

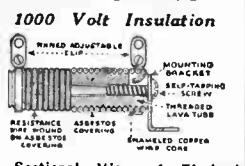
Stock Number	Ohms	Stock Number	Ohms
3E475	1	3E482	15
3E476	2	3E483	20
3E477	3	3E484	25
3E478	4	3E485	30
3E479	6	3E486	40
3E480	8	3E487	50
3E481	10	3E488	100

1 Watt 5% Tolerance
YOUR PRICE, Each 10c Ten for 95c

Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms
3E400	1/2	3E412	15	3E425	200	3E439	700
3E401	3/4	3E414	20	3E426	225	3E440	750
3E402	1	3E415	25	3E427	250	3E441	800
3E403	1 1/2	3E416	30	3E428	275	3E442	900
3E404	2	3E417	36	3E429	300	3E443	1000
3E405	3	3E418	40	3E431	350	3E444	1250
3E406	4	3E419	50	3E433	400	3E445	1500
3E407	5	3E420	75	3E434	450	3E446	1750
3E408	6	3E421	100	3E435	500	3E447	2000
3E409	8	3E422	125	3E436	550	3E448	2250
3E410	10	3E423	150	3E437	600	3E449	2500
3E411	12	3E424	175	3E438	650	3E451	3000

ELECTRAD TRUVOLT Wire Wound Adjustable Resistors

High quality non-oxidizing low temperature co-efficient resistance wire, space wound on heat resisting asbestos insulated flexible core which in turn is wound on thread cut groove channels in special high tensile strength fire-proof white laminates. Advantages are high power dissipation due to natural air cooling design, easy connection of taps, and durability. Improved adjustable clip permits tapping at any desired point. Protective fiber insulating sleeve. Mounting brackets included.



Type B—25 Watts 1 1/2"x2" Long

Stock Num.	Resist. Ohms	Current M. A.	Max. Volts
3E112	100	500	
3E113	200	353	
3E114	250	320	
3E115	300	289	
3E116	400	250	
3E117	500	224	
3E118	750	182	
3E119	800	177	
3E120	850	165	
3E121	1000	158	
3E122	1,250	141	
3E123	1,500	129	
3E124	2,000	112	
3E125	2,250	105	
3E126	2,500	100	
3E127	3,000	91	
3E128	3,500	84	
3E129	4,000	79	
3E130	4,500	75	
3E131	5,000	70	
3E132	6,000	64	
3E133	7,000	60	
3E134	7,200	59	
3E135	7,500	58	
3E136	8,000	56	

List Price 90c
YOUR PRICE... 53c

List Price 95c
YOUR PRICE... 56c

List Price \$1.00
YOUR PRICE... 58c

List Price \$1.15
YOUR PRICE... 67c

List Price \$1.30
YOUR PRICE... 73c

List Price \$1.25
YOUR PRICE... 76c

List Price \$1.40
YOUR PRICE... 82c

Center Tapped Resistor
Each 8c
Ten For 75c

Stock Number	Ohms	Stock Number	Ohms
3E490	6	3E494	25
3E491	10	3E495	30
3E492	15	3E496	40
3E493	20	3E497	50

Wire Wound Resistors—Pigtail Types Wound on genuine Bakelite Strips

1 1/2" long, 1/2" wide, 1/8" thick, wire leads 1/2" long. Wire May Be Unwound for Special Values of Grid Bias Resistance.

Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms
3E400	1/2	3E412	15	3E425	200	3E439	700
3E401	3/4	3E414	20	3E426	225	3E440	750
3E402	1	3E415	25	3E427	250	3E441	800
3E403	1 1/2	3E416	30	3E428	275	3E442	900
3E404	2	3E417	36	3E429	300	3E443	1000
3E405	3	3E418	40	3E431	350	3E444	1250
3E406	4	3E419	50	3E433	400	3E445	1500
3E407	5	3E420	75	3E434	450	3E446	1750
3E408	6	3E421	100	3E435	500	3E447	2000
3E409	8	3E422	125	3E436	550	3E448	2250
3E410	10	3E423	150	3E437	600	3E449	2500
3E411	12	3E424	175	3E438	650	3E451	3000

Sectional View of Electrad Truvolt Adjustable Resistor

Type D—75 Watts 1 1/4"x6" Long

Stock Num.	Resist. Ohms	Current M. A.	Max. Volts
3E190	100	865	
3E191	200	610	
3E192	300	500	
3E193	400	432	
3E194	500	387	
3E195	750	316	
3E196	800	306	
3E197	1,000	274	
3E198	1,250	245	
3E199	1,500	224	
3E200	2,000	194	
3E201	2,250	182	
3E202	2,500	173	
3E203	3,000	158	
3E204	3,500	146	
3E205	4,000	137	
3E206	4,500	129	
3E207	5,000	122	
3E208	6,000	112	
3E209	7,000	103	
3E210	7,200	102	

List Price \$1.65
YOUR PRICE... 96c

List Price \$1.90
YOUR PRICE... \$1.12

List Price \$2.15
YOUR PRICE... \$1.26

List Price \$2.25
YOUR PRICE... \$1.32

List Price \$2.50
YOUR PRICE... \$1.47

List Price \$2.75
YOUR PRICE... \$1.62

15 Ohm Resistor
3E396— 5c
EACH... 5c

10 For 45c
For Type 30 Tube on 2.9 Volts.
Wound on a 1/2" wide 1 1/2" long fibre strip. Will dissipate approximately 1 watt. Terminals can be used for mounting. Can be bent for mounting in practically any position. Mounting hole centers on strip are 7/8".

OHMITE

WIRE WOUND RESISTORS

RED DEVIL

1500 DEGREES F

115 Volts

460 MA

250 Ohm Resistor

SAFE!
OVER 50 WATTS

Resistance wire units wound on refractory porcelain core. Covered with Ohmite high temperature cement. 100% efficient at rated wattage. Will safely carry temporary loads of 50 watts. Especially suited for P. A. amplifiers, for repairing sections of voltage dividers in power pack of receivers and for transmitters. Cannot deteriorate with age nor change in resistance value. Accuracy guaranteed plus or minus 10%, and actually average about 6%. 1 1/2 inch thick

10 WATT

Size 1 1/2 x 3/4 inches. List, Each 35c. **21c**

Stock Num.	Ohms	Stock Num.	Ohms	Stock Num.	Ohms	Stock Num.	Ohms
3C1599	1	3C1610	25	3C1621	300	3C1632	3,500
3C1600	1	3C1611	30	3C1622	400	3C1633	4,000
3C1601	2	3C1612	35	3C1623	500	3C1634	5,000
3C1602	3	3C1613	40	3C1624	600	3C1635	6,000
3C1603	4	3C1614	50	3C1625	750	3C1636	7,500
3C1604	5	3C1615	75	3C1626	1,000	3C1637	10,000
3C1605	7.5	3C1616	100	3C1627	1,200	3C1638	12,000
3C1606	10	3C1617	125	3C1628	1,500	3C1639	15,000
3C1607	12	3C1618	150	3C1629	2,000	3C1640	20,000
3C1608	15	3C1619	200	3C1630	2,500	3C1641	25,000
3C1609	20	3C1620	250	3C1631	3,000		

Center Tapped 10 WATT

Stock Num.	Ohms	Stock Num.	Ohms	Stock Num.	Ohms
3E1657	10	3E1660	30	3E1663	75
3E1658	15	3E1661	40	3E1664	100
3E1659	20	3E1662	50	3E1665	200

List, 45c
YOUR PRICE 27c

20 WATT

Size 2 x 3/4 inches. List 75c. **44c**

Stock Num.	Ohms	Stock Num.	Ohms	Stock Num.	Ohms
3C1642	30,000	3C1647	55,000	3C1652	80,000
3C1643	35,000	3C1648	60,000	3C1653	85,000
3C1644	40,000	3C1649	65,000	3C1654	90,000
3C1645	45,000	3C1650	70,000	3C1655	95,000
3C1646	50,000	3C1651	75,000	3C1656	100,000

OHMITE Wire-Watt

List, 20c. **12c**

YOUR PRICE, Each

"WIRE-WATT" 1 WATT RESISTOR

One Watt Wire Wound Resistors

Especially designed as a replacement for burned out or noisy resistors. Wire wound—absolutely free from noise. RMA color coded. Size 1 1/4 x 1/2—1 1/2" Allied Leads. Accuracy guaranteed within 5%.

Stock Number	Resist. Ohms	Stock Number	Resist. Ohms
3D8250	100	3D8271	2,250
3D8251	125	3D8272	2,500
3D8252	150	3D8273	3,000
3D8253	200	3D8274	3,500
3D8254	250	3D8275	4,000
3D8255	300	3D8276	1,500
3D8256	350	3D8277	5,000
3D8257	400	3D8278	6,000
3D8258	500	3D8279	7,000
3D8259	600	3D8280	7,500
3D8260	700	3D8281	8,000
3D8261	750	3D8282	9,000
3D8262	800	3D8283	10,000
3D8263	900	3D8284	12,500
3D8264	1,000	3D8285	15,000
3D8265	1,100	3D8286	16,000
3D8266	1,200	3D8287	17,500
3D8267	1,250	3D8288	18,000
3D8268	1,500	3D8289	20,000
3D8269	1,750	3D8290	22,500
3D8270	2,000	3D8291	25,000

3D8292 30,000 List Price ...30c
3D8293 35,000 YOUR PRICE
3D8294 40,000
3D8295 45,000 PRICE ...18c
3D8296 50,000

Center Tapped Wire-Watt

Stock Num.	Resist. Ohms	Stock Num.	Resist. Ohms
3E8240	10	3E8245	40
3E8241	15	3E8246	50
3E8242	20	3E8247	75
3E8243	25	3E8248	100
3E8244	30	3E8249	200

List, 35c.
YOUR PRICE 21c

Power Cords

Line Cord Resistor For AC-DC Sets

Replacement for voltage resistor in older AC-DC sets. Consists of a line cord and plug in which is built the resistor for dropping the line voltage to the correct value for the tube filaments. External position dissipates heat readily and protects condensers and other set parts from the degenerative heat effects of poorly ventilated internal resistors.

Stock Number	Total Resistance	Filament Voltage Drop
3D1815	290	25.2 to 31.5
3D1816	160	56.5 to 68.9
3D1817	135	68.9 to 75.2

List Price, \$1.50.
YOUR PRICE 48c

"Dual-Scale" Resistance Indicator

Two accurate resistance ranges with scales 0-1000 and 0-100,000 ohms. Determines values of burned out resistors. Connect the two clips across the burned out resistor and run the contact slowly along the resistance scale. When the set plays properly the correct value for the replacement resistor is read directly on the scale. Complete unit is built into a polished fibre case. Directions included.

3D1820—List \$4.00.
YOUR PRICE \$2.35

New Candohm Replacement

Armoured Resistors Wire Wound

Used by leading set manufacturers. Designed especially for replacement of ordinary type resistors. Wound on genuine bakelite core, covered with 1500 volt insulation—outer steel case protects unit from breakage or abrasion. Guaranteed 5% accurate.

1 Watt

Below 12,500 ohms. Size 1/2x1"—Above 10,000 ohms. Size 1/2x1 1/2".

Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms
3E4900	100	3E4909	700	3E4918	3000
3E4901	150	3E4910	750	3E4919	3500
3E4902	200	3E4911	800	3E4920	4000
3E4903	250	3E4912	1000	3E4921	5000
3E4904	300	3E4913	1250	3E4922	8000
3E4905	350	3E4914	1500	3E4923	10000
3E4906	400	3E4915	2000	3E4924	15000
3E4907	500	3E4916	2250	3E4925	20000
3E4908	600	3E4917	2500	3E4926	25000

List Price, 25c. **12c**

2 1/2 Watt

Stock Number	Ohms	Stock Number	Ohms
3E4927	30000	3E4932	10
3E4928	35000	3E4933	20
3E4929	40000	3E4934	20
3E4930	45000	3E4935	60
3E4931	50000	3E4936	80
		3E4937	100

Size 1 1/2 x 2 1/2 List 35c
YOUR PRICE 17c

1 1/2 Watt Center Tapped

Stock Number	Ohms	Stock Number	Ohms
3E4932	10	3E4937	100
3E4933	20		
3E4934	20		
3E4935	60		
3E4936	80		
3E4937	100		

Size 1 1/2 x 1 1/2 List 25c
YOUR PRICE 12c

10 Watt

Size 2 1/2 x 1 3/4"

Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms
3E4940	10	3E4950	500	3E4960	4000
3E4941	20	3E4951	600	3E4961	4500
3E4942	50	3E4952	750	3E4962	5000
3E4943	100	3E4953	1000	3E4963	6000
3E4944	150	3E4954	1200	3E4964	7500
3E4945	200	3E4955	1500	3E4965	10000
3E4946	250	3E4956	2000	3E4966	12000
3E4947	300	3E4957	2500	3E4967	15000
3E4948	350	3E4958	3000	3E4968	20000
3E4949	400	3E4959	3500	3E4969	25000

List Price, 40c. **20c**

Candohm Original Equipment Resistors

Exact duplicate of the original Candohm units used in the sets listed below. Candohm part number shown in listing is identical to number stamped on metal shell of original unit to be replaced. Where resistor to be replaced has no number send unit to us properly tagged with name of set manufacturer.

Part Num.	Resistance Each Section	Stock Num.	Your Price	Part Num.	Resistance Each Section	Stock Num.	Your Price
Belm ont				U. S.			
R258	350	3E4984	20c	1752	3500-8400	3E4988	\$1.56
R261	15000-2500	3E4985	69c	1959	10700 4700-8400	3E4989	1.56
Crosby Radio Corp.				2303	1000-2640	3E4990	39c
2076	10-10-10	3E4970	49c	2381	8000-8000	3E4991	69c
20152	10-860			2811	550-600-600	3E4992	69c
20152	320-225	3E4971	69c		1200-1000		
20909	1000				50-500		
21955	3250-3250	3E4972	49c	2811A	550-800-600	3E4993	69c
21950	3160	3E4986	49c		1300-1000-500	3E4994	78c
22471	25000-8500	3E4987	29c	3111	2500-425-600		
22574	3000-2150	3E4938	39c		1800-800		
	1220-45	3E4973	59c		300-10600	3E4998	59c
22574	1790-2150			3360	1100-3000	3E4995	88c
	1220-45	3E4974	59c		1100-3200-180	3E4996	78c
28755	246-28	3E4975	78c	3476	225-250-200	3E4997	78c
a				3621	200-290-225	3E4999	78c
Grigs by-Crunow				4145	1800-800		
7818	2000-140-500	3E4976	39c		300-10600	3E4998	59c
8292	2000-350-500	3E4977	39c		10000		
9239	7000-40	3E4978	69c	4353	850-850	3E4999	49c
	3000-300				5000-1600		
10145	408-134-1800	3E4979	69c	5463	400-1400	3E4995	59c
	360-9000-10000				1800-4200-250		
10252	10,000	3E4980	29c	5807	400-1400	3E4996	49c
10535	300-1500-500	3E4939	39c	6749	500-4200	3E4997	39c
					60-17500		
Inter national Kadette							
R302	1500	3E4981	29c				
R303	310	3E4982	78c				
RCA Victor							
67822	315	3E4983	78c				

Candohmeter Resistance Indicator

Dual Range

Two Candohm uniform wire wound resistors in a single mounting with accurately calibrated 0-10,000 and 0-100,000 ohm scales. Furnished with slide-contact prod with insulated handle and two alligator test clips. Quickly determines the value of any burned out or defective resistor.

3E4894—List, \$2.50.
YOUR PRICE \$1.23

Centralab

New Standard Replacement RADIOHM VOLUME CONTROLS

Centralab with its unequalled experience in the design and manufacture of over 18,000,000 volume controls for set manufacturers and replacement has developed a new Improved Radiohm. A newly designed patented non-rubbing contact turns smoothly with an absolute minimum of wear. New small size, with long shaft, easy to saw to fit practically every set application. Case diameter 1 3/8 in., depth 3/8 in., shaft 2 1/4 in., long milled flat. **The Switch Model** is equipped with C-H underwriters Approved Snap Switch mounted on back cover. Switch capacity 2 Amps., 125 V.; 1/2 Amp., 250 V. Switch depth 3/8 in., total depth switch type 1 1/8 in.

With Switch

Less Switch

List. \$1.70.

List. \$1.25.



Your Price
83c

Your Price
61c

Five for \$3.70

Five for \$2.70

Resistance	Taper	Curve	Number with Switch	Number Less Switch	Use in Circuit Number (See Page 68)
500	Unif.	1	62-118	72-118	9, 17, 20
1,000	Unif.	1	62-107	72-107	9, 17, 20
2,000	Unif.	1	62-101	72-101	4, 9, 17, 19, 20
3,000	Unif.	1	62-108	72-108	4, 9, 19, 20
4,000	Unif.	1	62-109	72-109	4, 9, 19, 20
5,000	Unif.	1	62-110	72-110	4, 9, 19, 20
5,000	L. H.	6	72-204	72-204	4, 19, 20
10,000	Unif.	1	62-114	72-114	4, 9, 10, 11, 19, 20
10,000	L. H.	3	62-113	72-113	5, 7, 8
10,000	R. H.	4	52-205	70-205	5, 7, 8
10,000	L. H.	6	62-100	72-100	4, 19, 20
15,000	L. H.	4	72-115	72-115	5, 7, 8
15,000	R. H.	4	99-006	75-006	5, 7, 8
20,000	L. H.	3	62-119	72-119	4, 9, 10, 11, 19, 20
25,000	Unif.	1	62-111	72-111	4, 9, 10, 11, 19, 20
25,000	R. H.	2	62-133	72-133	2, 5, 19
25,000	R. H.	4	52-206	70-206	2, 5, 7, 8
25,000	R. H.	3	62-102	72-102	5, 7, 8
50,000	Unif.	1	62-103	72-103	5, 7, 8
50,000	L. H.	5	62-117	72-117	4, 5, 6, 15, 16, 19, 20, 21
75,000	L. H.	5	62-123	72-123	4, 6, 15, 16, 19, 20, 21
75,000	R. H.	4	52-202	70-202	2, 18
100,000	Unif.	1	62-104	72-104	14
100,000	L. H.	5	62-122	72-122	6, 12, 13, 15, 16, 21
200,000	Unif.	1	62-120	72-120	14
200,000	R. H.	4	62-131	72-131	18
250,000	L. H.	5	62-121	72-121	6, 12, 13, 21
500,000	L. H.	5	62-105	72-105	6, 12, 13, 21
500,000	Unif.	2	62-106	72-106	14
500,000	R. H.	2	52-103	70-203	3
1 meg.	L. H.	6	62-116	72-116	12, 13, 21
3 meg.	L. H.	6	62-132	72-132	16

All standard Radiohms are 3 terminal (potentiometer) type. Where 2 terminal control is required use center and one outside terminal. Taper is more important than maximum resistance. The curve of each control listed is shown on the two charts on the opposite page. Typical circuit applications on Page 68.

New Switch Cover - Plate

For all Centralab Standard Radiohms. Any plain Radiohm listed above may be converted to the switch type by replacing the back cover with this new switch coverplate. Approved switch.

3E3000—List. 50c.

YOUR PRICE.....

24c



Latest Centralab

Volume Control Guide

32 pages of up-to-the-minute data. Includes type and resistance of Volume Controls and gives part number wherever possible. Also has standard RMA color code. Pocket size.

FREE With every order for 5 or more CENTRALAB Volume Controls.

3E3001—If ordered separately.

YOUR PRICE..... **10c**

Special ATWATER KENT Replacements

Models 82 and 82F Early and Late Models



RI-433P—List. \$2.25.
YOUR PRICE
\$1.09

Special 550 ohm volume control with switch. Exactly duplicates the original electrically and mechanically but not necessarily in appearance.

Volume Control Strips

Atwater Kent

Models 37, 37F, 38, 40, 40F, 41, D.C. 42, 42F, 43, 44, 45, 46, 47, 52, 53. 450 ohm strip.
R-1738—List. 75c.
YOUR PRICE..... **25c**

Early Models 55, 55C, 55F, 55FC, 60, 60C, 61, 61C. 600 ohm strip.
R-1742—List. 75c.
YOUR PRICE..... **25c**

RADOLEK REPLACEMENT

Electrad—Centralab and Radolek

This new Radolek Replacement Volume Control Guide has been prepared for you after months of investigation. We have carefully checked set manufacturers original circuit data and have compared the original specifications with Centralab and Electrad special replacement listings.

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
ALL AMERICAN-MOHAWK							
226 A. C. Improvement (Vol.)	75M	RI-203	\$0.59	72-116	\$0.61	3E3002	\$0.49
(Herokuk) (Vol.)	500M	RI-202	.59	72-105	.61	3E3003	.49
1st Mohawk-Kellogg, A. C.							
Lyric J3, J8, P4, P8, P9, C6, 550, (Vol.)	7500	RI-240	.59	72-114	.61	3E3004	.49
2D Mohawk-Kellogg A. C., Duet, Sextette, Forte, Lorraine, Sovereign, 7 Tube D. C., Lyric K, 115, 810, SW8, SW80, SA65, SA90, SA91, SA110, SA130, (Vol.)	500M	RI-203	.59	72-105	.61	3E3002	.49
Lyric K (Tone)	35M	RI-241	.59	72-117	.61	3E3002	.49
S10, SA90, SA91, SA110 (Tone)	500M	RI-203	.59	70-203	.61	3E3002	.49
SA91, 2d. SA90 (A. V. C. Adj.)	7500	RI-560	.59	72-114	.61	3E3011	.49
SA110 (A. V. C. Adj.)	2000	RI-232	.59	72-101	.61	3E3006	.49
2d. SA130 (A. V. C. Adj.)	10M	RI-283	.59	72-114	.61	3E3006	.49
60, 61, 62, 65, 66, 77, 80, 83, 84, 85, 86, 88, 99, 8 Tube D. C. (Vol.)	75M	R-166	.66	72-116	.61		
70, 73, 75, (Vol.)	12M						
	12M	R-1880-T	1.32	70-501	1.47	3E3007	1.04
90, 93, 94, 95, 96, (Vol.)	10M	RI-201	.59	72-106	.61	3E3008	.49
S6, S7, 88, DC65, 7 Tube S. G. D. C., (Vol.)	10M	RI-240	.59	79-014	.61	3E3004	.49
S7 (Tone)	30M	RI-241	.59	72-117	.61		
SS, S50, S63, SWS, SW80, SA65, SA130, (Tone)	10M	RI-240	.59	72-100	.61	3E3004	.49
Lyric D11, D19, D29, D39, D69, H19, H29, I160, B30, I31, I80, D. C. with 222 Tubes, (Vol.)	7500						
B50 (Tone)	10M	R-1802-T	1.32	74-601	1.22	3E3009	1.04
	25M	RI-280	.59	72-111	.61		
7 Tube D. C. Super (Vol.)	(7500)						
	10M	R-1802-T	1.32	74-615	1.47	3E3009	1.04
B7, (Vol.)	10M						
	50M	FB-479-T	2.10	74-602	1.22	3E3010	1.04
227 A. C. (Vol.)	500M	RI-203	.59	72-106	.61	3E3002	.49
S80, (Vol.)	15M	RI-201	.59	72-115	.61	3E3008	.49
S80, (Tone)	250M	RI-208	.59	72-121	.61	3E3012	.49
U55, (Vol.)	20M	RI-279	.59	72-119	.61	3E3013	.49
ATWATER KENT MFG. CO.							
37, 37C, 37F, 38, 40, 40F, 41DC, 42, 42F, 43, 44, 45, 46, 47, 52, 53, (Vol. Strip)	400	R-1738	.25	72-112	.61	3E3014	.49
1st. 55, 1st. 55C, 1st. 55F, 1st. 55FC, 1st. 60, 1st. 60C, 61, 61C, (Vol. Strip)	6000	R-1742	.25			3E3015	.22
80, 80F, 83, 83F, 90, 90F, (Vol.)	6000	RG-460P	.92	2011905	.98		
2d. 55, 2d. 55C, 2d. 60, 2d. 60C, 66, (Vol.)	6M						
2d. 55F, 2d. 55FC, (Vol.)	10M	RI-524T	1.76				
	6M						
	6M						
3d. 55F, 3d. 55FC, (Vol.)	10M					3E3016	1.47
	10M	RI-1880T	1.32	74-548	1.22	3E3007	1.04
3d. 60, 3d. 60C, 70D, 70D2, 74D, 74D2, 76D, 76D2, (Vol.)	2500						
67, 67C, 2d. 82Q, 85Q, 228Q, (Vol.)	6000	RI-385	.66				
70F, 70L, 70L2, 74F, 74L, 74L2, 75P, 76F, 76L, 76L2, 76F, 89P, (Vol.)	100M	RG-465	.66	72-104	.61	3E3017	.49
	2500						
	5000	FB-1T	2.10	74-521	1.22	3E3018	1.04
567, 567F, (Vol.)	6000	RI-278	.59	72-001	.98	3E3033	.49
70Q, 76Q, (Vol.)	2500						
	10M	RI-385	.66			3E3120	.49
72H, 72H2, (Vol.)	250M						
	100M	R-1757T	2.06	25-426	1.47	3E3019	1.24
81, 81B, 81C, 91, 91B, 91C, (Vol.)	650M	RI-203	.59	62-105	.83	3E3002	.49
89, 89F, 92, 92F, 96, 96F, 99, 99F, 155, 228, 228D, 228F, 246, 260, 260F, 469, 469D, 469F, 558D, 588, 612, 627, 812, (Vol.)	500M	RI-206	.59	62-105	.83	3E3025	.49
1st. 82Q, 1st. 84, 84D, 1st. 84F, 84Q, 1st. 85, 1st. 85F, 188, 188F, 469Q, 558Q, 756, 756B, (Vol.)	500M	RI-203	.59	72-105	.61	3E3002	.49
82D, (Vol.)	500M	RG-464P	.92	62-105	.83	3E3002	.49
82D, (Vol.)	500M	RI-203	.59	52-203	.83	3E3002	.49
85, 86F, (Vol.)	550	RI-433P	1.19	62-118	.83	3E3020	.49
2d. 85, 2d. 85F, (Vol.)	550	RG-463PG	1.19	62-118	.83	3E3020	.49
2d. 84, 2d. 84F, 87, 94, 94F, (Vol.)	3500	RI-277	.59	62-109	.83	3E3021	.49
87D, (Vol.)	(2500)						
	4000	R-1823T	1.32				
2d. 96, 96P, 1st. & 2d. 99, (Neon)	50M	RI-205	.59	72-103	.61	3E3022	.49
3d. 99, 99F, (Neon)	14M	RI-201	.59	70-006	.61	3E3008	.49
3d. 96, 1st. 469, 1st. 469F, 480, (Neon)	8000	RI-560	.59	72-114	.61	3E3011	.49
636, 756, 756B, (Vol.)	500M	RI-954	.73	51-122	.73		
1st. & 2d. 260, 1st. & 2d. 260F, (Neon)	15M	RI-201	.59	79-006	.61	3E3008	.49
3d. 260, 3d. 260F, 2d. 469, 2d. 469F, 612, 812, (Neon)	20M	RI-279	.59	72-119	.61	3E3013	.49
165, 217, 217D, 275, 310J, 310T, 427, 427D, 510, 667, 667D, 708, 711, 711B, 711T, 808A, (Vol.)	500M	RI-953P	.92	62-105	.83	3E3023	.49
2d. 188, 2d. 188F, 3d. 260, 3d. 260F, 2d. 469, 469D, 2d. 469F, 558D, 588, 612, 812, (Q. A. V. C. Adj.)	20M	RI-279	.59	72-119	.61	3E3013	.49

VOLUME CONTROL GUIDE

Volume, Tone, Sensitivity and Hum Controls

With the aid of your servicemen who have called to our attention errors in our former listings, we offer a more complete and accurate Guide. The Radolek Replacement Controls are made to our specifications by Centralab, Electrad, Carter, Clarostat, Stackpole and Frost.

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
AUDIOLA RADIO CO.							
4T31, 4T32, 5T31, 5T-Jr., 6T, 6T31, 6T-Jr., 7T31, 8T, 8T31, 9T45-31, 9T47-31, 10T31, 13T15, 23T5, 23T5-SW, 31, 31 Super. (Vol.)	10M	RI-204	\$.59	99-006	\$.83	3E3024	\$.49
8430, (Vol.)	75M	RI-202	\$.59	70-202	\$.61	3E3003	\$.49
889, 23-S8, (Vol.)	500	RI-282	\$.59	70-204	\$.61		
31, 31 Super, 9T45-31, 10T31, (Tone)							
5T-Jr., 6T31, 6T-Jr., (Tone)	1 Meg	RI-206	\$.59	72-116	\$.61	3E3025	\$.49
30B, 7330, (Vol.)	10M	RI-240	\$.59	72-100	\$.61	3E3004	\$.49
2388, 23810, 23812, (Tone)	2700	RI-233	\$.59	72-103	\$.61	3E3026	\$.49
	50M	RI-205	\$.59	72-117	\$.61	3E3022	\$.49
BELMONT RADIO CORP.							
40A, 50C, (Vol.)	12M	RI-573	\$.59	52-205	\$.83	3E3027	\$.49
41, 42, 41A, 42A, 45DC, 46DC, (Vol.)	10M	RI-202	\$.59	52-205	\$.83	3E3003	\$.49
50, 51A, 52A, 53A, 54A, 51B, 52B, 53B, 54B, 51C, 52C, 53C, 54C, 51D, 52D, 53D, 54D, 61, 62, 63, 64, (Vol.)	10M	RI-202	\$.59	62-113	\$.83	3E3003	\$.49
70, (Vol.)	10M	RI-202	\$.59	62-116	\$.83	3E3003	\$.49
525, (Vol.)	500M	RI-203	\$.59	62-105	\$.83	3E3002	\$.49
110, (Vol.)	1 Meg	RI-206	\$.59	62-116	\$.83	3E3002	\$.49
550, (Vol.)	500M	RI-203	\$.59	62-105	\$.83	3E3002	\$.49
1st. 600, (Vol.)	75M	RI-202	\$.59	52-202	\$.83	3E3003	\$.49
20, 600, 625, (Vol.)	500M	RI-203	\$.59	62-105	\$.83	3E3002	\$.49
750, 1050, (Vol.)	500M	RI-957	\$.66	72-105	\$.61	3E3028	\$.49
50F, 70A, 71C, 100, (Vol.)	75M	RI-202	\$.59	52-202	\$.83	3E3003	\$.49
71C, (Tone)	1 Meg	RI-206	\$.59	72-116	\$.61	3E3025	\$.49
BREMER-TULLY MFG. CO.							
6-40, 6-41, (Vol.)	25M	RI-203	\$.59	72-102	\$.61	3E3002	\$.49
Counterphase 8, BT6, (Vol.)	500M	RI-203	\$.59	70-203	\$.61	3E3002	\$.49
7-70, 7-71, (Vol.)	10M	RI-283	\$.59	72-169	\$.98	3E3006	\$.49
8-20, 8-21, 8-22, (Vol.)	10M	RI-283	\$.59	62-102	\$.83	3E3006	\$.49
83A, (Vol.)	3M	RI-233	\$.59	72-108	\$.61	3E3026	\$.49
81, 82, (Vol.)	25M	RI-642P	1.05	52-206	\$.83	3E3003	\$.49
14, 21, 31, 81A, (Vol.)	25M	RI-202	\$.59	52-206	\$.83	3E3003	\$.49
S-81, S-82, (Vol.)	1000	RI-233	\$.59	52-206	\$.83	3E3026	\$.49
BRUNSWICK RADIO CORP.							
BPR5, 1st. PR17-8, (Vol.)	2000	RI-401	\$.79	72-100	\$.61	3E3029	\$.49
RI, 2KR, 2KR0, 3KR0, 3KR6, 3KR8, 5KR, 5KR0, 5KR6, (Vol.)	2000	RI-402	\$.79	72-100	\$.61	3E3029	\$.49
3NC8, 5NC8, 5NO, (Vol.)	450	RI-404	\$.79	72-118	\$.61		
B17, BPR5, 2d. PR17-8, (Vol.)	60	R-1824T	1.32			3E3074	1.04
3NW8, (Sens.)	1200	RI-276	\$.59	72-107	\$.61	3E3026	\$.49
3NW8, (Vol.)	2750	RI-404	\$.79	72-108	\$.61		
S14, S21, S31, S81, S82, (Vol.)	3000	RI-424P	1.32	62-108	\$.83		
S14-25, S21-25, S81-25, S82-25, 15B, (Tone)	50M	RI-208	\$.59	72-103	\$.61	3E3012	\$.49
DC14, DC21, DC31, (Vol.)	4100	RI-234	\$.59	62-109	\$.83	3E3031	\$.49
11, 12, 16, 33, (Vol.)	15M	RI-365	\$.79	52-205	\$.61	3E3032	\$.49
10 Midget	4100	RI-234	\$.59	55-004	\$.98		
D11, D12, D16, D17, D18, D24, D25, D33, (Tone)	20M	RI-280	\$.59	72-119	\$.61		
D11, D12, D16, D17, D18, 1033, (Vol.)	500M	RI-203	\$.59	72-105	\$.61	3E3002	\$.49
17, 24, 25, 4A, 4PA, (Vol.)	500M	RI-203	\$.59	72-105	\$.61	3E3002	\$.49
11, 12, 16, 18, 33, (Tone)	200M	RI-281	\$.59	72-120	\$.61		
14, 21, 31, 81, 82, (Vol.)	25M	RI-280	\$.59	52-206	\$.83		
11, 12, 16, 33, (Vol.)	15M	RI-365	\$.79	99-006	\$.83		
CLAGO RADIO CO.							
4131, 5134, 8235, 9342, (Vol.)	3000	RI-233	\$.59	72-108	\$.61	3E3026	\$.49
31 Mayflower, (Vol.)	500M	RI-203	\$.59	62-106	\$.83	3E3002	\$.49
Cavalier Midget, (Vol.)	10M	RI-240	\$.59	62-114	\$.83	3E3004	\$.49
COLONIAL RADIO CORP.							
25, 56, (Vol.)	500M	RI-203	\$.59	62-105	\$.83	3E3002	\$.49
AC32, DC32, (Vol.)	75M						
44, 47, 48, 73, (Vol.)	10M	R-1651T	1.32	25-417	1.71		
	15M + 150BH	RI-240	\$.59	99-006	\$.83	3E3004	\$.49
46, (Vol.)	15M	RI-201	\$.59	62-115	\$.83	3E3008	\$.49
50, (Vol.)	15M	RI-201	\$.59	99-006	\$.83	3E3008	\$.49
52, (Vol.)	15M	RI-201	\$.59	72-115	\$.61	3E3008	\$.49
62, 76, (Vol.)	15M	RI-201	\$.59	76-006	\$.61	3E3008	\$.49
C399, C495, T345, T397, (Vol.)	15M	RI-201	\$.59	99-006	\$.83	3E3008	\$.49
51, 52, 56, 62, 69, 71, 76, (Tone)	500M	RI-203	\$.59	62-105	\$.83	3E3002	\$.49
C399, C495, C595, C695, C995, T345, T397, (Tone)	500M	RI-203	\$.59	72-105	\$.61	3E3002	\$.49
C595, C695, (Vol.)	1 Meg	RI-206	\$.59	72-116	\$.61	3E3025	\$.49
129, (Vol.)	725M	RI-792P	\$.92	72-116	\$.61		
106, 106B, (Vol.)	500M	RI-793	\$.66	72-106	\$.61		
150, (Vol.)	500M	RI-794P	\$.92	72-106	\$.61		
144, (Vol.)	500M	RI-795P	\$.92	72-106	\$.61		
173, (Vol.)	500M	RI-796P	\$.92	72-106	\$.61		
119, 128, (Vol.)	3000	RI-817P	\$.92	72-108	\$.61	3E3026	\$.49
COLUMBIA PHONO CO.							
C1, C2, C3, C4, C5, C6, C7, 920, 930, (Vol.)	1 Meg	RI-203	\$.59	72-116	\$.61	3E3002	\$.49
900, 901, 902, 930, 931, 950, 961, 980, (Phono)	50M	RI-384	\$.66	72-117	\$.61		
930 Combination, (Vol.)	50M	RI-280	\$.59	75-525	1.71		
950, (Vol.)	25M	RI-280	\$.59	72-100	\$.61	3E3029	\$.49
Columbia Phono. — Con't on next page							

Centralab

New Standard Twin Replacement Volume Controls



Two variable resistances on a common shaft completely insulated from each other and from the shaft and bushing. Many receivers giving troublesome operation with single controls may be improved considerably when a twin is used as described below:

74-601—For use where the original control was in the C-bias circuit. Panel resistance 10,000 ohms tapered for antenna. Rear section 25,000 ohms tapered for C-bias.

74-602—For use where the original was in the screen grid circuit. Panel resistance 10,000 ohms tapered for antenna. Rear section 50,000 ohms tapered as screen grid potentiometer.

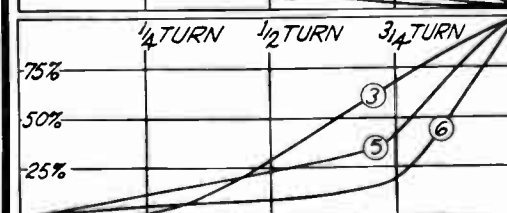
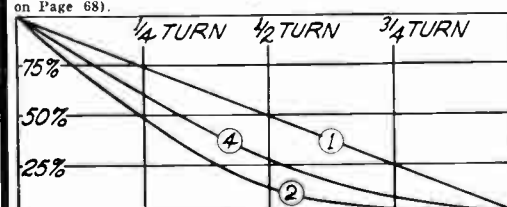
List Each, \$2.50.
YOUR \$1.22 PRICE.

TAPER CURVE CHARTS

For Standard Centralab Radiohm Controls

Correct choice of Volume Control permits smooth, even change of volume on any Radio Receiver:

Curve 1—Uniform Voltage Divider or S-G Potentiometer
Curve 2—C-Bias Control where low portion is important
Curve 3—For both Antenna shunt and C-bias of 3 tubes
Curve 4—For Antenna and C-bias of 2 tubes
Curve 5—Audio Pot. or Tone Control; also AVC and QAVC
Curve 6—Input to Grid, Ant. Shunt, or 1st audio Tone Control.
NOTE: All Volume controls are arranged to increase volume with clockwise rotation. Referring to diagrams below: The graphs given are arranged to indicate minimum volume at left (Designated terminal "A" in diagrams on Page 68). The Graph lines indicate the per cent of change of resistance for a given amount of rotation of the control shaft. Curve 1 is uniform. Curves 2 and 4 (L. H. taper) indicate volume controls used in circuits in which volume is increased by decreasing resistance in circuit. Curves 3, 5 and 6 (R. H. taper) indicate volume control used in circuits in which volume is increased by increasing resistance in circuit. In the diagrams the extreme right indicates maximum volume (designated terminal "C" in diagrams on Page 68).



C R L Radiohm Load Capacity

With this table you can choose the proper capacity Radiohm to handle the load of any circuit with ample margin of safety.

Control Number	Control Number	Resist. Ohms	Curve	Safe Milliampere Loads		
				Max. Volume 90% Rot.	50% Rot.	Min. Volume
62-118	72-118	500	1	70	70	60
62-107	72-107	1,000	1	50	50	40
62-101	72-101	2,000	1	50	40	25
62-108	72-108	3,000	1	50	35	20
62-109	72-109	4,000	1	50	35	18
62-110	72-110	5,000	1	50	35	15
62-114	72-114	10,000	1	35	25	10
62-113	72-113	10,000	3	20	14	7
62-205	70-205	10,000	4	40	30	13
62-115	72-115	15,000	3	20	12	6
99-006	79-006	15,000	4	40	30	12
62-119	72-119	20,000	3	18	10	5
62-104	72-104	25,000	4	30	18	7
62-102	70-202	25,000	4	30	18	7
62-103	72-103	50,000	1	20	10	4
52-202	70-202	75,000	4	30	10	5
62-104	72-104	100,000	1	10	7	3
62-131	72-131	200,000	4	20	10	1
62-206	70-206	500,000	1	10	2	1
52-203	70-203	500,000	2	15	10	2

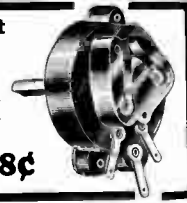
Brunswick Replacement Volume Control

Model 10 Midget

Special 4100 ohm replacement volume control. Identical value electrically and same overall size as original. Appearance may differ slightly.

Num-55-004—List, \$2.00.

YOUR PRICE... 98¢



Senior Potentiometers and Gain Controls

Where accuracy of control is important the Senior Gain Control is superior for uniform volume attenuation because of its large size and the care used in manufacturing. The Bakelite Case is made tight against dust or humidity and resistances are absolutely permanent. Shaft and bushing insulated from all terminals. Furnished with two lock-nuts for mounting and with large black Bakelite knob. Gain controls are potentiometers especially tapered for uniform volume attenuation of audio amplifier and may be calibrated in decibels by the user. Bakelite case $2\frac{1}{2} \times 1\frac{1}{2}$. Threaded bushing $\frac{1}{8} \times \frac{1}{2}$ long. Shaft $\frac{1}{8} \times \frac{1}{2}$ long.

Gain Controls

Potentiometers

Stock size and construction as above but with symmetrical resistance taper.

List Price, \$3.50. **\$1.71**
YOUR PRICE.....

Stock Number	Ohms Resist.	Attenuation	Stock Num.	Ohms	Stock Num.	Ohms
24-083	500,000		24-108	200	24-050	50,000
24-084	250,000	50 Db.	24-110	400	24-100	100,000
24-085	100,000	50 Db.	24-112	2,000	24-200	200,000
24-086	500,000	30 Db.	24-112	10,000	24-500	500,000

Giant Power Rheostat

50 Watt

Resistance wire wound on metal frame insulated with asbestos. Capable of operating at high temperature without damage. Will dissipate up to 50 watts. All resistances have 3 terminals and may be used as a potentiometer or rheostat. A convenient portable control for radio receivers, soldering irons, and other shop equipment. Contact lever is connected electrically with mounting sleeve. Insulating washers for mounting on metal panel furnished.

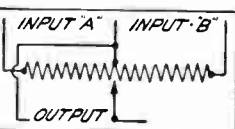
Stock Number	Ohms	YOUR PRICE
48-025	25	
48-060	60	
48-151	150	
48-501	500	
48-811	1,000	\$1.22
48-851	5,000	51.35

Centralab Straight Resistance Fader



A straight center tapped Potentiometer for simple pickup circuits that do not require constant impedance. Resistances given on a ratio of each half. Case $2\frac{1}{4} \times \frac{1}{2}$. Shaft $\frac{1}{8} \times \frac{1}{2}$ long. Mounts in $\frac{1}{8}$ hole. Furnished with insulated bushing and knob.

Stock Num.	Resist. Ohms	List \$1.00	YOUR PRICE
64-305	100,000		
64-301	50,000		
64-302	25,000		\$1.96



Special Crosley Replacements

Models 30S, 31S, 33S, 34S
Part W-7022
3E3288
YOUR PRICE **75¢**

MODEL 48 - Part W-22118-A
3E3290
YOUR PRICE **73¢**

MODELS 53, 54, 55, 56, 57, 58. Part W-20558.
3E3291
YOUR PRICE **64¢**

VOLUME CONTROLS
For Mod. 608, 609
GEM BOX

1800 ohm with fixed bias Resistor. 1 1/8" shaft.
1723-G
YOUR PRICE **65¢**

CROSLY 40S, 41S, 42S, 71A, 82S, Early and Late Models. Twin Volume Control
25,000-10,000 ohm. R-1711— Part W-6596.
YOUR PRICE **66¢**

CROSLY 122, 123 Vol. Control with Switch
Part W23112. (old No. 22597)
3E3294
YOUR PRICE **79¢**

CROSLY Model 26 Volume Control 125,000 ohm, long shaft Part W-20114
R1-504— YOUR PRICE **66¢**

CROSLY MODELS 70S, 706, Show Box
Part Number W-6352.
3E3295—YOUR PRICE **66¢**

CROSLY Model 804 3rd Jewel Box
10000 Ohm Volume Control Part W-5669
R-296— YOUR PRICE **66¢**

CROSLY Models 602, 2nd 604, 704A, 704B, 2nd Jewel Box
Part W-7564.
51-037— YOUR PRICE **73¢**

CROSLY Model 804 3rd Jewel Box
10000 Ohm Volume Control Part W-5669
R-296— YOUR PRICE **66¢**

RADOLEK REPLACEMENT

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
COLUMBIA PHONO.—Cont.							
960, (Vol.)	5000	R1-278	\$0.59	70-204	\$0.61	3E3033	\$0.49
940, 961, 980, C11, (Vol.)	25M	R1-203	.59	72-102	.61	3E3002	.49
31, 32, 25-31, 25-32, (Vol.)	4100	R1-277	.59	62-110	.83		
31, 34, 25-33, 25-34, (Vol.)	10500	R1-573	.59	52-205	.83	3E3027	.49
C80A, C80B, C800, (Vol.)	250M	R1-208	.59	72-121	.61	3E3012	.49
C80A, C80B, C800, (Tone)	50M	R1-205	.59	72-117	.61	3E3022	.49
C90, (Tone)	250M	R1-208	.59	72-121	.61	3E3012	.49
C90, (Vol.)	200M	R1-281	.59	72-131	.61		
C100, (Vol.)	300M	R1-208	.59	62-104	.83	3E3012	.49
120B, (Vol.)	10M						
	10M	R1-772T	1.32				
COLUMBIA RADIO CORP.							
SC5, (Vol.)	75M	R1-202	.59	70-202	.61	3E3003	.49
1st. SC8, (Vol.)	30M	R1-240	.59	82-028	1.22	3E3004	.49
2d. SC8, (Vol.)	6000	R-1827P	1.19	72-100	.61	3E3029	
SG9, (Vol.)	1500						
	10M	R1-1745TP	1.59				
SG9, (Tone)	500M	R1-203	.59	72-105	.61	3E3002	.49
SC-10, (Vol.)	60M	R1-205	.59	70-202	.61	3E3022	.49
CROSLY RADIO CORP.							
AC7, AC7C, (F.H.)	500	R1-282	.59	72-118	.61	3E3034	.56
608, 609, Genbox, (Vol.)	500	R1-1723G	.65	51-039	.73	3E3035	.56
804, 3d. Jewelbox, (Vol.)	10M	R-296	.66			3E3036	.56
610, (Vol.)	1500	R-1712	.79	51-039	.73	3E3036	.56
1st. 704, 1st. Jewelbox, (Vol.)	10M	R1-348	.66	70-113	.98	3E3037	.56
1st. 706, 1st. Showbox, (Vol.)	10M	R1-347	.79	70-113	.98	3E3038	.67
32, 40, 41, 41A, 42, 61, 62, 70S, 2d. 706, 2d. Showbox, (Vol.)	350	R-1725	.79	51-037	.73	3E3039	.65
602, 2d. 704, 704A, 704B, 2d. Jewelbox, (Vol.)	350	R-1839	.66	51-037	.73	3E3040	.56
Buddy, Chum, (Vol.)	400	R1-274	.59	70-118	.98	3E3131	.49
20, 21, 22, 23, (Vol.)	75M	R1-202	.59	70-202	.61	3E3003	.49
26, (Vol.)	150M	R1-504	.66	72-045	.73	3E3042	.56
27, 28, (Vol.)	40M	R1-203	.59	72-019	.73	3E3002	.49
27, 28, 63F, 53M, (Vol.)	25M	R1-242	.59	72-111	.61	3E3043	.49
51, 55, 56, 57, 57V, 58, (Vol.)	45M	R1-686	.66	72-019	.73	3E3044	.56
30S, 31S, 33S, 34S, (Vol.)	3250M	R-1687	.66	72-019	.73	3E3044	.56
1st. 40S, 1st. 41S, 1st. 42S, 21A, 1st. 82S, (Vol.)	25M						
2d. 40S, 2d. 41S, 2d. 42S, 2d. 82S, (Vol.)	15M	R-1711	.66	74-511	1.22	3E3045	.56
1st. 4S, 59, (Vol.)	40M	R1-592G	.79	79-006	.61	3E3046	.49
2d. 4S, (Vol.)	40M	R1-205	.59	52-206	.83	3E3022	.49
60S, 61S, 62S, 63S, (Vol.)	25M	R1-279	.59	72-111	.61	3E3013	.49
74, (Vol.)	50M	R1-205	.59	72-103	.61	3E3022	.49
75, 76, 77A, 77B, 77L, 84C, 84D, (Vol.)	300M	R1-203	.59	72-047	.73	3E3002	.49
77-1, (Vol.)	15M	R1-592G	.79	79-006	.61	3E3046	.49
90 Auto, (Vol.)	60M	R1-205	.59	72-117	.61	3E3022	.49
91 Auto, 92 Auto, (Vol.)	300M	R1-203	.59	72-103	.61	3E3002	.49
95 Auto, 96 Auto, Reamlin, (Vol.)	3 Meg	RG-489	.79	62-132	.83		
120, (Vol.)	10M	R1-201	.59	99-006	.83	3E3008	.49
120, 121A, 121-1, 121-B, (Tone)	100M	R1-242	.59	99-006	.83	3E3069	.49
121A, (Vol.)	650	R1-282	.59	72-118	.61	3E3021	.49
121-1, 121-B, (Vol.)	650	R1-282	.59	72-118	.61	3E3021	.49
1st. 122, Smoker, (Vol.)	250M	R1-278	.59	72-117	.61	3E3033	.49
2d. 122, (Vol.)	3000	R1-278	.59	72-108	.61	3E3033	.49
122, 123, (Tone)	40M	FB-557	1.27	72-117	.61	3E3047	.49
123, (Vol.)	10M	R1-240	.59	52-205	.83	3E3004	.49
124, (Vol.)	10M	R1-616P	.92	52-205	.83	3E3031	.69
125, (Vol.)	10M	R1-616P	.92	52-205	.83	3E3031	.69
124, 125, (Tone)	25M	FB-556	1.27	72-117	.61	3E3047	.49
124-1, (Vol.)	4500	R1-616P	.92	72-110	.61	3E3047	.49
124-1, (Tone)	80M	R1-202	.59	72-123	.61	3E3003	.49
126, (Vol.)	650	R1-282	.59	72-055	.73		
126, (Tone)	100M	FB-558	1.27	72-129	.61		
126-1, (Vol.)	650	R1-282	.59	72-055	.73		
126-1, 128, (Tone)	300M	R1-203	.59	62-121	.83	3E3002	.49
127, (Vol.)	500M	R1-203	.59	62-121	.83	3E3002	.49
127-1, (Tone)	500M	R1-203	.59	72-121	.61	3E3002	.49
127, (Vol.)	1 Meg	R1-206	.59	72-116	.61	3E3025	.49
127-1, 129, 129-1, 132-1, 136-1, 146, (Tone)	80M	FB-558	1.27	52-202	.83		
128, (Vol.)	1500	R1-232	.59	72-101	.61	3E3055	.49
131, (Vol.)	1500	R1-232	.59	72-101	.61	3E3055	.49
129, (Vol.)	4500	R1-278	.59	72-115	.61	3E3033	.49
133, (Vol.)	15M	R1-201	.59	72-115	.61	3E3008	.49
129-1, (Vol.)	4500	R1-278	.59	72-115	.61	3E3033	.49
132-1, 146, 150, (Q. A. V. C. Adj.)	400M	R1-203	.59	72-121	.61	3E3002	.49
143-1, (Vol.)	10M	R1-340	.59	2013901	.98	3E3004	.49
133, 134, 134-1, 135, (Tone)	400M	R1-203	.59	62-105	.83	3E3002	.49
134, 134-1, 143-1, 146, 146-1, 150, 157, 158, 160, 164, 168D, 170, 171, (Tone)	80M	FB-558	1.27	52-202	.83		
133-1, 135, 141, 146-1, (Vol.)	4500	R1-278	.59	62-110	.83	3E3033	.49
132-1, 136-1, (Vol.)	500M						
	500M	R1-950T	1.32				
137, (Vol.)	500	R1-282	.59	72-118	.61		
147, (Vol.)	4500	R1-278	.59	62-110	.83	3E3033	.49
148, (Vol.)	4600	R1-278	.59	62-110	.83	3E3033	.49
155, (Vol.)	4000	R1-278	.59	62-110	.83	3E3033	.49
156, (Vol.)	10M	R1-240	.59	52-205	.83	3E3004	.49
160, (Q. A. V. C. Adj.)	5000	R1-278	.59	70-202	.61		
154, (Vol.)	10M	R1-283	.59	62-100	.83	3E3006	.49
9 Auto, (Vol.)	3 Meg	RG-489	.66	62-132	.83		
9 Auto, (Vol.)	3 Meg	RG-489	.66	62-132	.83		
160, (Vol.)	4800	R1-234	.59	52-110	.83	3E3032	.49
163, 166, 176, (Vol.)	80M	FB-558	1.27	70-202	.61		
99 Auto, (Tone)	4600	R1-278	.59	52-204	.83	3E3033	.49
159, (Vol.)	10M	R1-283	.59	52-205	.83	3E3006	.49
169, (Vol.)	10M	R1-283	.59	52-205	.83	3E3006	.49

VOLUME CONTROL GUIDE

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
THOS. A. EDISON, INC. R200 (Vol.)	50M	RI-205	\$0.59	70-203	\$0.61	3E3022	\$0.49
C1, C2, M1, R1, R2, JC, JR, SC, (Vol.)	2000	R-1675	.66	26-021	.98	3E3048	.56
C1, C2, M1, R1, R2, JC, JR, SC, (Regen.)	3000	R-1713	.66	24-008	.98	3E3049	.56
C4, R4, R5, (Vol.)	5M	R-1714TP	1.59	76-003	1.47		
R4-DC, R5-DC, (Vol.)	10M	R-1714TP	1.59	76-003	1.47	3E3002	.49
R6, R7, (Vol.)	500M	RI-203	.59	74-512	1.47	3E3002	.49
Abbey Jr., Abbey Bat., (Vol.)	300M	RI-203	.59	70-203	.61	3E3002	.49
R6, R7, Early Model (Phono)	500M	RI-203	.59	64-306	1.47	3E3002	.49
ELECTRICAL RESEARCH LABS., INC. R1, (Vol.)	10M	RI-203	.59	72-100	.61	3E3002	.49
30, 31, 32, R2, R3, AR3, (Vol.)	10M	RI-201	.59	72-115	.61	3E3008	.49
74, 76, 210, (Vol.)	10M	R-1714TP	1.59	74-601	1.22	3E3050	1.04
225, (Vol.)	20M	R-1714TP	1.59	75-506	1.71	3E3050	1.24
10M	R-1714TP	1.59	75-506	1.71	3E3050	1.24	
71, 72, 73, 271, 271A, (Vol.)	10M	R-1714TP	1.59	75-506	1.71	3E3050	1.24
224AC, 224B, (Vol.)	50M	RI-205	.59	72-110	.61	3E3022	.49
35, 37, 38, 39, 225, 230, (Tone)	1 Meg	RI-206	.59	72-116	.61	3E3025	.49
35, 37, 38, 39, 230, (Vol.)	250M	RI-208	.59	72-121	.61	3E3012	.49
75, 77, 231, (Vol.)	75M	RI-202	.59	70-202	.61	3E3003	.49
30, 81, 81P, 82, 82P, 245, 248, (Vol.)	10M	RI-240	.59	52-205	.83	3E3004	.49
81, 82, 245, (Tone)	500M	RI-202	.59	72-105	.61	3E3003	.49
30, 81P, 82P, 248, (Tone)	500M	RI-202	.59	72-105	.61	3E3003	.49
61, 62, 63, 250, (Vol.)	25M	RI-240	.59	62-111	.83	3E3004	.49
271A, 335, (Tone)	500M	RI-203	.59	72-105	.61	3E3002	.49
335, (Vol.)	10M	RI-234	.59	52-205	.83	3E3032	.49
336, (Vol.)	10M	RI-240	.59	62-100	.83	3E3004	.49
550, (Vol.)	15M	RI-201	.59	62-113	.83	3E3008	.49
263, (Vol.)	10M	RI-240	.59	62-113	.83	3E3004	.49
264C, (Vol.)	500M	RI-203	.59	62-105	.83	3E3002	.49
264, (Vol.)	500M	RI-203	.59	62-105	.83	3E3002	.49
265, (Vol.)	10M	RI-206	.59	62-113	.83	3E3004	.49
267, (Vol.)	1 Meg	RI-206	.59	72-116	.61	3E3025	.49
620, 630, (Tone)	50M	RI-205	.59	72-117	.61	3E3022	.49
602, (Vol.)	500M	RI-203	.59	201045	1.22	3E3002	.49
EVEREADY 50, 52, 53, 54, (Vol.)	500M	FR-478T	2.10	74-503	1.47	3E3051	1.24
10M	FR-478T	2.10	74-503	1.47	3E3051	1.24	
FADA RADIO & ELECT. CORP. 10, 10Z, 11, 11Z, 30, 30Z, 31, 31Z, D, (Vol.)	20M	R-147	.66	70-017	.98	3E3052	.56
50, 50Z, 70, 70Z, 71, 72, 1st E, (Vol.)	20M	R-147	.66	70-059	.98	3E3052	.56
35B, 35BZ, 2d. K., (Vol.)	12M 3000	RI-747T	1.30	74-513	1.47		
40, P, (Vol.)	10M	FR-570T	1.59	74-513	1.47		
40, P, (Tone)	25M	RI-206	.59	72-116	.61	3E3025	.49
41, 42, 44, 46, 47, KA, (Vol.)	1 Meg	RI-206	.59	72-116	.61	3E3025	.49
43, 761, 762, 764, 766, 767, KF, KG, (Vol.)	10M 3M	RI-633T	1.59	74-541	1.47		
1st. 45, 1st. 45Z, 51, 251, KO, KO-220, KU, (Vol.)	7500	RI-278	.59	62-114	.83	3E3033	.49
2d. 45, 2d. 45Z, 53, 57, 57 Phono, 61, 63, 171, 173, 253, 257, 257 Phono, KOC, KOC-DC, KOC-110, KOC-220, KX, (Vol.)	7500	RI-560	.59	52-205	.83	3E3011	.49
48, 48Z, 49, 49Z, 65, 65Z, KW, (Vol.)	500M	RI-203	.59	62-105	.83	3E3002	.49
48, 48Z, 49, 49Z, 65, 65Z, KW, (Neon)	7500	RI-560	.59	72-114	.61	3E3011	.49
55, RG, (Vol.)	25M	RI-280	.59	62-100	.83	3E3127	.49
122, KE, (Vol.)	25M	RI-280	.59	72-111	.61		
66, 73, 73Z, 74, 76, 83, 85, 85Z, 87, 88, 89, 512, 532, 572, KOF, KY, RA, RE, RI-110, RI-220, (Vol.)	1 Meg	RI-203	.59	72-116	.61	3E3002	.49
74, 76, 78, 78Z, 79, 79Z, 83, 87, 88, 89, 97, RA, RC, (Neon)	30M 25M	RI-241 RI-279	.59 .59	72-111 79-019	.61 .98	3E3043 3E3013	.49 .49
75, 77, 2d. E., (Vol.)							
78, 79, RC, (Vol.)	500M	RI-848T	1.32	62-132	.83		
78, 79, RC, (Q. A. V. C. Adj.)	1 Meg	RI-283	.59	72-114	.61	3E3006	.49
81, 82, 84, 86, KB, (Vol.)	10M	RI-206	.59	72-113	.61	3E3025	.49
81, 82, 84, 86, KB, (Seus.)	6000	RI-278	.59	70-204	.61	3E3033	.49
104, KK, RO, RV, Motoset, (Vol.)	1 Meg	RI-821P	.92	62-115	.83		
103, RL, Rachalette, (Vol.)	10M	RI-240	.59	62-113	.83	3E3004	.49
93, 95, 106, 107, RN, RP, RY, RX, (Vol.)	1 Meg	RI-824P	.92	72-116	.61		
RU, (Vol.)	1 Meg	RI-820P	.92	72-116	.61		
101, 102, RW, (Vol.)	1 Meg	RI-822P	.92	72-116	.61		
NA, (Vol.)	1 Meg	RI-823P	.92	72-116	.61		
NA, (Tone)	250M	RI-825	.66	72-121	.61		
NF, (Tone)	150M	RI-826	.66	1010033	.73		
RU, (Tone)	250M	RI-827	.66	72-121	.61		
FEDERAL RADIO CORP. K10-25, K10-60, K40-25, K40-60, K41-25, K41-60, (Vol.)	7500 25M 30M	RI-203	.59	72-116 74-514	.61 1.47	3E3002 3E3053	.49 1.24

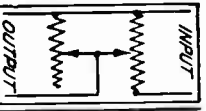
How to Select the Proper Attenuator
Resistance of "Pad" should equal Impedance of Circuit or Line. Where possible use a "T" or Constant Imp. Fader type control to maintain best audio tone quality. If tone is not important as in individual speaker control on a multi-speaker circuit, use a combination "L" Pad. Straight Resistance Faders are used with high impedance inputs such as radio or phono pickup circuits

Constance Impedance "L" Pad



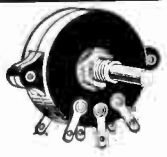
A 4-watt attenuator for individually controlling moderate power, low impedance Speakers operating from a central system. Wire wound. Bakelite case 3 1/2" x 1 3/4" deep.
List Price, \$4.00.
YOUR PRICE, Each..... \$1.96

Stock Num.	Resist. Ohms	Imped. Ohms
96-003	10,000	10,000
96-002	5,000	5,000
96-007	500	500
96-006	200	200
96-005	50	50
96-001	15	15



Junior Twin "L" Pad-1 Watt

Stock No. Ohms List, \$3.00.
74-544 10,000 YOUR PRICE **\$1.47**
74-543 5,000 PRICE



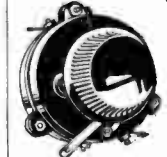
For individual control of magnetic speakers from centralized system. Provides smooth, individual volume control for each speaker. No switch. Bushing diam. 3/8" x 1/2" long. Shaft diam. 1/4" extends 1/2". Bakelite case diam. 1 1/4" x 3/4" deep. Shaft and bushing insulated. With knob.

Constant Impedance Fader



List price \$8.00
YOUR PRICE \$3.92

Constant Impedance "T" Pad

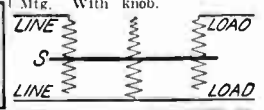
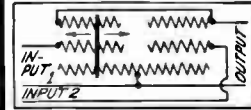


List price \$7.00
YOUR PRICE \$3.43

Stock Num.	Resist. Ohms	Stock Num.	Resist. Ohms	Stock Num.	Resist. Ohms	Stock Num.	Resist. Ohms
83-006	5,000	83-003	500	93-008	5,000	93-004	100
83-001	3,000	83-004	200	93-001	1,500	93-005	50
83-002	1,500	83-005	50	93-002	500	93-006	15
				93-003	200		

Used to fade from film to film, pickup to pickup, microphone to microphone or line to line. Bakelite case 3 1/2" x 1 3/4" deep, single or three hole Mtg. With knob.

A network of 3 resistances. Provides smooth attenuation while maintaining constant impedance. Bakelite case 3 1/2" x 1 3/4" deep, single or three hole Mtg. With knob.



Dial Plate and Knob for Above Controls



For use with constant impedance or gain controls. Heavy brass silver finish with etched black callibrations, 0-10. Diam. 3". Use 60-60-490-255° rotation for 1-watt "L" Pad 60-489-325° rotation, for all others
List, 50c.
YOUR PRICE, EACH..... 25c
66-487-Black Pointer Knob, EACH..... 13c

EDISON Models C1, C2, M1, M5, M6, R1, R12, JC, JR, SC Abbey Junior, Regenerative Volume Control.



24-008—
List, \$2.00.
YOUR PRICE 98c

EDISON MODELS R6, R7 Phonograph

64-306—
List, \$3.00.
YOUR PRICE \$1.47

EDISON Models C4, R4, R5, R6, R7 Twin Volume Control.



74-512—
List, \$3.00.
YOUR PRICE \$1.47

ERLA MODELS 10,000-20,000 Ohm Twin Volume Control

74-601—
List, \$2.50.
YOUR PRICE \$1.22

EVEREADY 50 SERIES Twin Volume Control



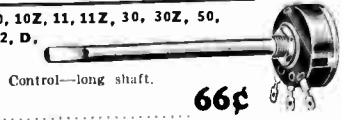
74-503—
List, \$3.00.
YOUR PRICE \$1.47

ERLA MODELS 71, 72, 73, 225, 271, 271A Twin Volume Control

75-506—
List, \$3.50.
YOUR PRICE \$1.71

FADA MODELS 10, 10Z, 11, 11Z, 30, 30Z, 50, 50Z, 70, 70Z, 71, 72, D, 1st E

20,000 ohm Volume Control—long shaft.
R147—List, \$1.25.
YOUR PRICE..... 66c



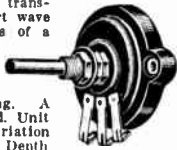
Special RCA Reference Chart Of General Electric, Graybar and Westinghouse Receivers Built By RCA Victor

You can easily find the correct control for any General Electric, Graybar or Westinghouse receiver. Locate on this chart the model number of the equivalent RCA Victor receiver and refer to the RCA Victor listing on pages 69 and 70 of the Radolek replacement volume control guide.

General Electric Model Num.	Graybar Model Number	Westinghouse Model Number	Identical to R.C.A.-Victor Model Num.
K50, K51 K50P, K51P K60 K65 K54P S42B H32			R28 R28P R37 R38 RE40 R43 R50
H72 J72 J82 J86 J100 J105	GB100		R55 RAE59 R70 R71 R72 R74 R76
J107 J125 J109 K106 K107 A90 A60 B40 A81	GT10-99		R77 R78 RE81 R90 R90P M32 M34 P31
	GB 311 GB 500 GB 555 GB 678 GB 340 GB 600 GB 700 GB 770	WR 4	33 44 46 48 62 66 80 82
H31 H51		WR 5	
H71 K43 K52, K53 K63 K64 K80, K85 B81, B86 K66	GB 900	WR 6 WR 7	86 100 110 120 121 140 142B 220
K126 K48 K58 K79 K79		WR 9	280 300 310 331 T5 R4 R5 R5X
J70 T12 T12E	GT 7 GB 4		
J75 S22 S22A J80 S42 S132	GG15 GBR GBSA GT8	WR14 WR10A	R6 R7 R7A R8 R9
K62 J85 B3X K40A L50, L51 K40	GB989 GB9 GC14	WR12 WR15	R10 R11 R12 R17M R18W R22 R27

Electrad Model "B" Super Tonatrol Capacity 3 Watts

Variable Resistance units for use as volume controls in radio receivers, attenuators in transmitters, and regeneration controls for short wave receivers. The resistance element consists of a carbonaceous material fused to the surface of a vitreous enamel coated metal strip. Enclosed in a moulded bakelite case. Resistance is varied by means of a revolving self-aligning phosphor spring. A smooth, stepless flow of current is insured. Unit has extra long life with practically no variation in resistance value. Case is 2" diameter. Depth in single $\frac{3}{8}$ " diameter, $1\frac{3}{8}$ " long. Mount in single $\frac{3}{8}$ " hole on any panel not over $\frac{1}{8}$ " thick. All units are potentiometer type and have no switches.



Single Unit Super Tonatrols

Stock Number	Resistance Ohms	Taper	List Price, Each
FB551	500	Uniform	\$2.40
FB552	1,000	"	
FB553	2,000	"	
FB554	5,000	Reverse	
FB555	10,000	"	
FB556	25,000	"	
FB557	50,000	"	
FB558	100,000	Uniform	

YOUR NET PRICE
\$1.41

Dual Unit Super Tonatrols

Case Diameter 2"; Depth $1\frac{3}{8}$ "; Shaft $2\frac{3}{8}$ " long.

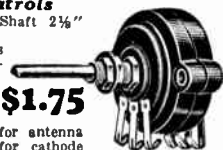
FB222T. Panel unit 50,000 ohms for antenna control. Rear unit 50,000 ohms for screen control.
List Price, \$3.00.

YOUR PRICE..... \$1.75

FB478T. Panel unit 15,000 ohms for antenna control. Rear unit 75,000 ohms for cathode control.

FB479T. Panel unit 15,000 ohms for antenna control. Rear unit 50,000 ohms for screen-grid control.
List Price, \$4.00.

YOUR PRICE. EACH..... \$2.35



RADOLEK REPLACEMENT

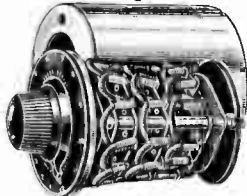
Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
FREO-EISEMANN CO. NR55DC, NR56DC, NR60, NR60DC, NR70, NR78DC, NR79-DC, (Vol.) NR55, NR56, (Vol.) NR90S, (Vol.) NR95, (Vol.)	250M 250M 10M 50M 50M	RI-201 R-1748T R-1833TG RI-202	\$0.59 1.32 1.45 \$.59	72-116 74-506 74-506 70-202	\$0.61 1.47 1.47 .61	3E3008 3E3003	\$0.49 .49
NR80, NR80DC, NR85, NR85DC, (Vol. Strip) 50DC, 58, (Vol.) 58, (Tone) 54, 56, 59, 72, 74, 90, 91DC, 92, MB5, MB7, MB9, (Vol.) 98, (Vol.) 98, (Tone)	1300 20M 50M 10M 15M 500M	R-1891 RI-279 FB-557 RI-204 RI-201 RI-203	.24 1.59 \$.27 \$.59 \$.59 \$.59	72-119 72-117 72-114 72-115 72-105	.61 .61 .61 .61 .61	3E3013 3E3047 3E3024 3E3008 3E3002	.49 .49 .49 .49 .49
JESSE FRENCH & SONS PIANO CO. AC8, 5093, H2DC, (Vol.) G-Jr., H2Jr., H2Pent., (Vol.) H2 Special, (Vol.) H2 Jr., S2, (Tone) U1, (Vol.) U1, (Tone) 87, (Vol.)	2000 2000 10M 10M 5000 1 Mec. 2000 50M 75M	RI-201 RI-1745TP RI-240 RI-278 RI-206 RI-232 RI-205 RI-202	.59 1.59 .59 .59 .59 .59 .59	72-103 75-507 62-113 72-110 72-116 62-101 72-117 70-202	.61 1.71 .83 .61 .61 .83 .61	3E3008 3E3054 3E3004 3E3033 3E3055 3E3003	.49 1.24 .49 .49 .49 .49
CHARLES FRESHMAN CO. INC. G, 2H, N, Q15, Q16, (Vol.) 2N, 3Q15, 3Q16, QD16S, (Vol.) M, (Vol.) G60, H, K, K60S, L, LS, (Vol.) 21, 22, (Vol.) 21DC, 24DC, 31DC, 33DC, (Vol.) 31, 32, 33, (Vol.) 31, 32, 41, (Vol.)	2000 2000 2000 500M 10M 250M 50M 50M 75M	RI-201 RI-201 RI-201 RI-203 R-1833TG	.59 .59 .59 .59 1.45	72-101 41-200 72-105 72-105 70-202	.61 .73 .61 .61 .61	3E3008 3E3008 3E3008 3E3002 3E3025	.49 .49 .49 .49 .49
GALVIN MFG. CO. Motorola 5, (Vol.) 5T71, (Vol.) 6T12P1, Motorola 6, (Vol.) 7T38, (Vol.) 7T38A, 7T47A, 88, 61, (Vol.) S10, Lazy Boy, (Vol.) 44, 77, 86, (Vol.)	15M 20M 300M 100M 500M 500M 500M	RI-242 RI-203 RI-958P RI-959P	.59 .59 .92 1.05	99-006 62-119 70-036 72-104 62-105 62-105 62-105	.83 .83 .98 .61 .83 .83 .83	3E3147 3E3147 3E3147 3E3069 3E3002 3E3023 3E3023	.59 .59 .59 .49 .49 .49 .49
GENERAL MOTORS RADIO CORP. AC5, (Bias) AC6, AC6 Jr., 32DC6, 110DC6, AC6-80, 5051 M, C, Set, 5052, 5057, 5060, 5065, 5066, (Vol.) 25, 26, 27, 28, 43, 48, A5003, A5010, 5069, 5091, (Vol.) AC8, 5077, 5080, (Vol.) 93, 94, A5005, A5020, 120, 130, 140, (Vol.) 120, 130, 140, 150, 160, 170, A Chas., B Chas., E Chas., (Tone)	400 20M 15M 15M 15M 1 Mec.	RI-274 RI-279 RI-201 RI-206	.59 .59 .59 .59	72-118 72-111 72-100 74-602 72-116	.61 .61 .61 1.22 .61	3E3131 3E3013 3E3008 3E3025	.49 .49 .49 .49
110, 180, 190, MA, MB, Little General, (Tone) 110, 180, 190, (Vol.) MA, Little General, (Vol.)	15M 15M 5000 15M 5000	R-1387	.59	72-114 74-602 62-117	.61 1.22 .83	3E3071	.49
216, 217, 219, S1A, S1B, S5A, S5B, (Vol.) S21, S2A, S2B, (Vol.) 252, S3A, S3B, (Vol.) 253, 254, 255, 256, 257, 258, (Vol.) 290, 291, S4A, S4B, (Vol.)	50M 10M 10M 10M 200M	RI-111P RI-156P RI-156P RI-156P RI-132P	1.05 1.05 1.05 1.05 1.05	62-103 52-205 62-114 62-103 62-114	.83 .83 .83 .83 .83	3E3056 3E3056 3E3056 3E3056	.89 .89 .89 .89
200, 201, E2, (Vol.) 111, 89A, S9B, (Vol.) 220, S10A, S10B, (Vol.) 281, R1A, (Vol.) 250, (Vol.)	50M 45M 12500 10M 50	RI-205 RI-238P RI-255P RI-111P	.59 1.05 1.05 1.05	62-103 62-103 62-115 74-552 62-117	.83 .83 .83 1.47 .83	3E3022 3E3022 3E3057	.49 .49 .49
GRIGSBY-GRUNOW CO. 70, 70B, 71, 72, (Vol.) 180, 181, (Vol.) 100, 101, (Vol.) 90, 90B, 91, 92, 93, (Vol.) 90, 90B, 91, 92, 93, 100, 100B, 101, 102, 103, (Equalizer) 100B, 102, 103, (Vol.) 130, 130A, 131, 132, (Vol.) 230, 233, (Vol.)	10M 10M 30M 75M 30M 75M 500 to 2500 75M 500M 1260 500M	RI-240 R-1809T R-1809T RI-202 R-1688 RI-715T RI-438 RI-739T R-1513PG R-1741TP R-1810T RI-441 RI-440PG	.59 1.32 1.32 .59 .79 1.32 .66 1.32 .92 1.59 1.19 .66 1.19	72-180 74-561 74-561 70-063 78-007 74-562 72-181 74-563 52-205 75-537 74-523 72-073 55-010	.73 1.47 1.47 .73 .98 1.22 .73 1.22 .83 1.47 1.22 .73 .88	3E3004 3E3003 3E3058 3E3031 3E3059 3E3060	.49 .49 .67 .69 .97 .72

VOLUME CONTROL GUIDE

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
GRIGSBY-GRUNOW CO. 15B, 154, Fyewood, (Vol.) 15, 55, 56, 57, 58, 150, 151, 153, 155, 156, Ardmore, Berkshire, Castlewood, Ellswood, Haven- wood, Sherwood, Viking, (Tone) 15B, 154, Fyewood, (Tone) 25, 251, 253, 254, 1st. Brent- wood, 1st. Brucewood, 1st. Cheltenham, (Vol.)	Con't 50M 30M (6500 + 160B)	RI-553 RI-553 RI-444PG	\$0.66 .66 1.19	41-060 41-060 55-014	\$0.73 .73 .88	3E3061 3E3061 3E3062	\$0.56 .56 .72
150, 155, 160, 163, Castlewood, (Phono.)	90	RI-439	.66	72-117	.61		
25, 251, 253, 254, 1st. Brent- wood, 1st. Brucewood, 1st. Cheltenham, (Tone)	85M	RI-240P	.79	55-014	.88	3E3065	.72
25B, 251B, 253B, 254B, 2d. Brentwood, 2d. Brucewood, 2d. Cheltenham, (Vol.) 25B, 251B, 233B, 254B, 2d. Brentwood, 2d. Brucewood, 2d. Cheltenham, (Tone)	6000 85M	RI-278P RI-240P	.79 .79	62-110 55-014	.83 .88	3E3065	.72
35, 351, 353, 1st. Abbeywood, 1st. Collingwood, (Vol.) 35, 351, 353, 1st. Abbeywood, 1st. Collingwood, (Tone) 55, 56, 57, 58, Ardmore, Berk- shire, Viking, (Vol.)	6000 10M 11500+ 264B	RI-278P FB-555 RI-440PG	.69 1.27 1.19	62-110 72-110 55-010	.83 .61 .88	3E3066 3E3060	.69 .97
110 Auto, (Vol.) 111 Ford Auto, 114 Auto, (Vol.) 66 Auto, (Vol.) 116 Auto, 116A Auto, (Vol.) 120, 121, (Vol.)	100M 250M 200M 250M 10M 10M	RI-242 RI-551 RI-903P RI-551 R-1880T	.59 .66 .92 .66 1.32	72-088 72-121 62-121 62-121 74-548	.73 .61 .83 .83 1.22	3E3067 3E3067 3E3067 3E3007	.97 .97 .56 1.04
120B, 123, (Vol.)	10M 10M	R-1880T	1.32	74-548	1.22	3E3007	1.04
200, 201, 203, 204, Explorer, Fairfax, Shemeld, (Vol.) 210, 211, 214, 215, Croydon Stratford, Whitehall, (Vol.)	500M 200M	RI-549 RI-551	.66 .66	72-105 72-121	.61 .51	3E3028 3E3067	.49 .49
220, 221, 223, 2d. Abbeywood, 2d. Collingwood, (Vol.) 290, 291, 293, 294, 300, 300A, 303, 304, 307, 310A, 310B, 311, 314, 315, 320, 324, 330, 331, 336, 77, Adams, Madison, Monroe, (Vol.)	200M 250M	RI-551 RI-551	.66 .66	72-121 72-121	.61 .61	3E3067	.49 .49
290, 291, 293, 294, Adams, Mad- ison, Monroe, (Q.A.V.C. Adj.) 300, 300A, 303, 304, 307, 320, 324, (Q.A.V.C. Adj.)	6000 20M	RI-278P RI-279	.79 .59	72-110 72-119	.61 .61	3E3066 3E3013	.49 .49
300, 300A, 303, 304, 307, 320, 324, 330, 331, 336, 77, (Tone)	250M	RI-551	.66	62-121	.83	3E3067	.49
340, 344, 360, 363, 390, 393, (Vol.) 340, 344, 360, 363, 390, 393, (Tone) 340, 344, 360, 363, (Q.A.V.C. Adj.)	200M 250M 20M	RI-551 RI-551 RI-27	.66 .66 .59	72-121 62-121 72-119	.61 .83 .61	3E3067 3E3067 3E3013	.49 .49 .49
370, 371, 373, (Vol.)	20MX 250B 50MX 250B	RI-904PG RI-205	.92 .59	37-006 62-103	.98 .83	3E3022	.49
380, 381, (Vol.)	20MX 250B	RI-904PG	.92	37-006	.98		
400, 400A, 411, 411A, 413, 412A, (Vol.)	250M	RI-900PG	.92	62-114	.83		
41, 49, 194, 440, (Vol.) 67, 68, 69, 161, 196, 460, 461, 463, 666, 776, 886, Century 6, Master 6, Lido, Park Ave., Ritz, Riviera, (Vol.)	7500 200M	RI-900PG RI-889	.92 .66	62-114 72-121	.83 .61		
67, 68, 69, 161, 196, 460, 461, 463, 666, 776, 886, Century 6, Master 6, Lido, Park Ave., Ritz, Riviera, (Tone)	250M	RI-551	.66	62-121	.83	3E3067	.49
490, 491, 493, (Vol.) 490, 491, 492, (Tone) 55, 59, 75, 195, 500, 560, 566, 599, (Vol.)	200M 200M 300M	RI-902 RI-551 RI-901P	.66 .66 .92	72-121 62-121 62-121	.61 .83 .83	3E3067 3E3067 3E3068	.49 .49 .69
85, 86, 800, 908, (Vol.) 85, 86, 800, 998, (Tone)	200M 250M	RI-902 RI-551	.66 .66	72-121 62-121	.61 .83	3E3067 3E3067	.49 .49
HOWARD RADIO CO. 135DC, (Vol.) 310, S1245, Green Diamond 8, (Vol.) SGA, SGC, (Vol.)	5000 50M 6000 50M 10M	RI-278 R-179 RI-201	.59 .66 .59	70-204 72-117 74-601	.61 .61 1.22		
6GB, Miniature, (Vol.) 35, 35-47, 40, 40-47, EX, H, H-47, (Vol.) 35, 35-47, 40, 40-47, 400, 420, H, H-47, K, L, M, (Tone) 45, 60, AVII, EX, (Tone) 35A, 45, 60, AVH, AVO, (Vol.) 20, 25, 30, 32, (Vol.) 10, T, (Vol.) 420, K, L, M, (Vol.) 400, K, L, M, (Vol.) 35A, AVO, (Tone) J3, (Vol.)	10M 10M 1 Meg. 500M 500M 9M 10M 500M 100M 500M 500M 10M	RI-201 RI-278 RI-206 RI-203 RI-203 RI-201 RI-201 RI-203 RI-203 RI-203 RI-203 RI-201	.59 .66 .59 .59 .59 .59 .59 .59 .59 .59 .59 .59	70-204 72-117 62-116 62-105 62-105 72-113 62-114 72-106 72-106 72-106 72-106 62-113	.61 .61 .83 .83 .83 .61 .83 .61 .61 .61 .83	3E3008 3E3033 3E3002 3E3002 3E3008 3E3008 3E3002 3E3069 3E3002 3E3008	.49 .49 .49 .49 .49 .49 .49 .49 .49 .49 .49
INTERNAT'L KADETTE C, CS, J, JS, M, TS, (Vol.)	8020X 120B	RI-240	.59	62-113	.83	3E3004	.49
Internat'l Kadette—Con't	on next page						

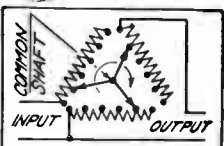
New ELECTRAD Tapped "T" Attenuator Constant Impedance

New high quality T Pad utilizing wire wound non-inductive resistors with a triple gang tap-switch of new design with self cleaning contacts. Absolute quiet attenuation is obtainable in 11 steps. Ideal for high quality P. A. and broadcast application. 8 watt capacity.

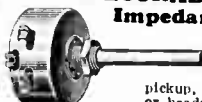


List Price, \$12.50.
YOUR PRICE, EACH..... \$7.35

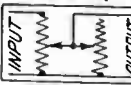
Stock Number	Imped. Ohms	D. B. per Step	Max. D. B. Attenu.
8AT50	50	4	44
8AT52	50	2	44
8AT200	200	4	22
8AT202	200	2	22
8AT500	500	4	14
8AT502	500	2	22



ELECTRAD Model U Constant Impedance Volume Control



Simple inexpensive method for controlling volume of electric pickup, individual control of magnetic speakers or headphones operating on the same line where relatively constant impedance is required. Case 1 1/2" diam. 3/8" depth, 1/4" shaft 2" long. Single 3/8" mounting.

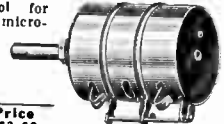


Stock Number	Ohms Line Imped.	List Price
U500	500	\$2.00
U4000	4000	YOUR PRICE
U10000	10000	EACH

\$1.18

Royalty "T" Pad Attenuator

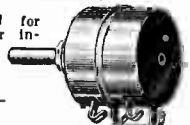
Constant impedance volume control for individual control of 2 or more microphones, speakers, or electric pick-ups without disturbing the impedance of the input system. Case diam. 1 1/2", depth 1 1/2", shaft 1 1/4" long. Single 3/8" hole.



Stock Number	Impedance in Ohms	List Price Each \$3.50
TR-15	15	YOUR PRICE
TR-200	200	\$2.06
TR-500	500	
TR-3000	3000	
TR-5000	5000	

Royalty "L" Pad Attenuator

Constant impedance volume control for variable series and shunt resistor. For individual control of one or more units on a common line maintaining relatively constant impedance.



Stock Number	Impedance in Ohms	List Price \$2.50
LR-15	15	YOUR PRICE
LR-200	200	\$1.47
LR-500	500	
LR-3000	3000	
LR-5000	5000	

Exact Replacements for Majestic

Majestic Models 15, 15B, 150, 151, 153, 154, 155, 156, Castlewood, Ellswood, Fyewood, Havenwood, Sherwood. Volume Control 11,500 ohms plus 264 ohm bias resistor with switch. 55-010. List, \$1.80.



88¢
YOUR PRICE

Volume Control—Models 25, 251, 253, 251. 1st Models Brentwood, Brucewood, Cheltenham 154, Fyewood, 10,000 ohm control with switch. 55-014. List, \$1.80.

88¢
YOUR PRICE

Majestic Models 90, 90B, 91, 92, 93. 75,000 ohm volume control. RI-202. List, \$1.00.

59¢
YOUR PRICE

Majestic Models 70, 70B, 71, 72. 10,000 ohm volume control. RI-240. List, \$1.00.

59¢
YOUR PRICE

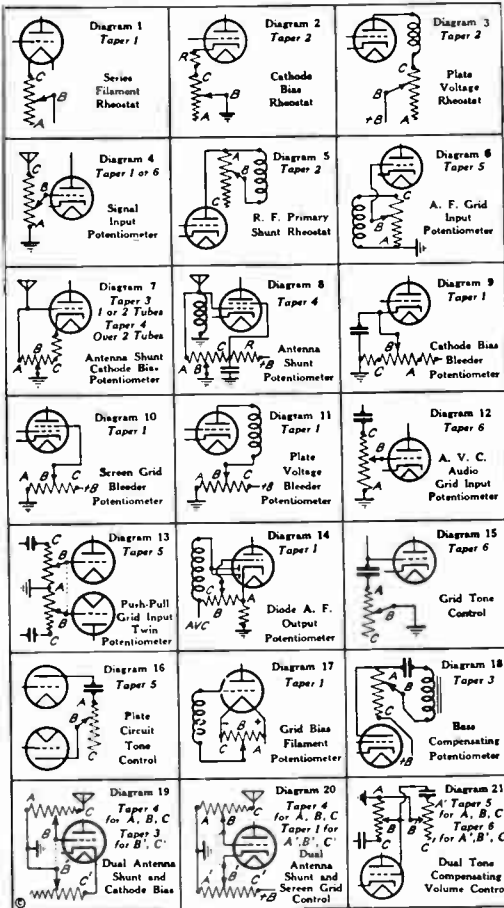
Majestic Models 50, 51, 52. 645-10,000 ohm dual volume control.

Majestic Models 90, 90B, 91, 92, 93, 100, 100B, 101, 102, 103. Equalizer-5000 ohms. R-1688. List, \$1.50.

79¢
YOUR PRICE

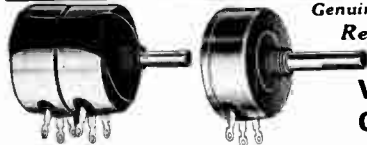
RI810T. List, \$2.50.
YOUR PRICE \$1.32

Volume Control Hook-up Diagrams



See page 63 for volume control taper curve charts.

Genuine PHILCO Replacement



Volume Controls

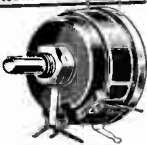
Philco Model Number	Stock Number	Dealers Net Price	Philco Model Number	Stock Number	Deal's Net Price
3 (Trans.)	L-4463	\$1.06	65	L-3528	\$0.71
6 (Trans.)	L-7525	1.06	70	L-5039	1.06
7 (Trans.)	L-6109	1.06	70 (A.V.C.)	L-6015	.59
9 (Trans.)	L-7525	1.06	71	L-6499	.59
12 (Trans.)	L-7525	1.06	76	L-3879	.59
14	L-8054	.88	77	L-4094	1.06
15	L-8054	.88	80	L-33-5005	.85
	L-7050	.59	81	L-33-5002	.59
19	L-33-5000	.85	86	L-3076	.82
20	L-4094	1.06	87	L-3076	.82
21	L-4094	1.06	89	L-8003	.85
30	L-4093	.82	90 (2-45)	L-5039	1.06
35 (Batt.)	L-5317	1.06	90 (1-47)	L-5724	.59
37 (Batt.)	L-7239	1.06	90 (2-47)	L-6015	.59
40 (D. C.)	L-4056	.59	91	L-8054*	.88
41 (D. C.)	L-4094	1.06	95	L-5039	.59
42 (D. C.)	L-4094	1.06	95	L-3790	.31
43	L-6892	.85	96	L-4093	.82
46 (D. C.)	L-4141	1.06	111	L-4093	.82
47 (D. C.)	L-6499	.59	112 (2-45)	L-4093	.82
48 (D. C.)	L-5839	.59	112 (2-47)	L-4093	1.06
50	L-5232	1.06	470	L-5366	.73
51	L-5839	.59	490	L-3076	.82
52	L-5839	.59	511	L-3076	.82
53	L-33-5001	.85	*Used in models with Bass Compensation.		

Special Philco Replacements

For Models 20, 20A, 21, 220, 40DC, 41DC, 42DC, 77, 77A. Philco Part No. 4094
\$4.094 YOUR PRICE ... 73¢

Philco Models 70, 70A, 270A, 570, 90 (2-45), 80A (2-45), 470, 470A.
\$1.5039—Philco Part No. 5039.

\$1.50 YOUR PRICE ... 88¢



RADOLEK REPLACEMENT

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centrabal No.	Your Price	Radolek Control Number	Your Price
INTERNAT'L KADETTE							
J. JS, (Tone)	100M	RI-242	\$0.59	72-122	\$0.61	3E3069	\$0.49
KS, (Vol.)	8000	RI-560	.59	72-114	.61	3E3011	.49
KS, (Tone)	10M	RI-240	.59	72-100	.61	3E3004	.49
Kadette, (Vol.)	200M	RI-281	.59	72-131	.61		
Kadette Jr., (Vol.)	2 Meg.	RG-489	.66	62-132	.83		.48
AW55, (Vol.)	15M	RI-201	.59	99-106	.83	3E3008	
A, B, (Vol.)	10M	RI-798P	.92	62-113	.83		
A, B, (Tone)	20M	RI-799	.66	72-119	.61		
T, (Vol.)	15M	RI-201	.59	99-006	.83	3E3008	.49
KOLSTER							
K42, K43, K44, K45	(25M 10M)	RI-670T	1.32	76-006	1.47	3E3070	1.12
MONTGOMERY WARD & CO.							
26W, 26WX, 27W, 27WX, 29W, 32W, 1500, 14000, 15000, 62000, 62-030, 62-232, Cavalier, Collegian, Commander, Lafayette, Troubadour, (Vol.)	8000	RI-240	.59	62-114	.83	3E3004	.49
1800, 3035, 3037, 3065, 3067, 62-060, 62-070, Challenger, Jr., Coronado, Cortez, Princess, (Vol.)	8000	RI-240	.59	79-006	.61	3E3004	.49
27W, 1500, 15000, Collegian, (Tone)	50M	RI-205	.59	72-103	.61	3E3022	.49
26W, 26WX, 29W, 29WX, 32W, 3035, 3037, 3065, 3067, 62-030, 62-232, Cavalier, Commander, Coronado, Cortez, Lafayette, Troubadour, (Tone)	500M	RI-203	.59	72-105	.61	3E3002	.49
62-040, 62-181, Commodore, Sovereign, (Vol.)	2500	RI-233	.59	62-108	.83	3E3026	.49
181, 187, (Vol.)	2500	RI-278	.59	52-204	.83	3E3033	.49
51, 1522, 1562, 11000, 62-020, Challenger, Jr. (Vol.)	11500	RI-240	.59	79-006	.61	3E3004	.49
2955, 2955X, 2957, 2957X, Fantasy, Solo, (Vol.)	(15M 11500)	RI-573	.59	74-602	1.22	3E3027	.49
811, 811X, 1111, 1111X, 62-1611, 62-1711, (Vol.)	700M	RI-202	.59	99-006	.83	3E3003	.49
49, 811, 811X, 181, 187, 1111, 1111X, 1522, 1562, 1922, 2955, 2955X, 2957, 2957X, 62-040, 62-055, 62-181, 62-1611, 62-1711, 11000, Challenger, Commodore, Fantasy, Solo, Sovereign, (Tone)	1 Meg.	RI-206	.59	72-116	.61	3E3205	.49
49, 1922, 62-055, (Vol.)	10M	RI-240	.59	52-205	.83	3E3004	.49
1238, 1355, 62-1838, 62-1955, Minstrel, Recltal, (Vol.)	1 Meg.	RI-206	.59	62-116	.83	3E3025	.49
500, 2800, 2822, 2827, 2895, 2897, 10000, Balboa, DeSota, Dictator, Serenader, (Vol.)	400	RI-274	.59	72-118	.61	3E3131	.49
2622, 2827, 2895, 2897, Balboa, DeSota, Minstrel, (Tone)	150M	RI-281	.59	72-131	.61		
1st. 2622, 1st. 2655, 1st. 2775, 1st. AE10, (Vol.)	10M	RI-240	.59	52-205	.83	3E3004	.49
2d. 2622, 2d. 2655, 2d. 2775, 2d. AE10, (Vol.)	10M 500M			74-509	1.47		
62-11, 62-12, 62-14, 62-19, 62-27, Grenadier, Recltal, (Vol.)	5000	RI-234	.59	52-204	.83	3E3032	.49
62-20, 62-25, 62-26, 62-26X, (Vol.)	300 500M	RI-274 RI-203	.59 .59	62-105	.83	3E3002	.49
62-21, 62-22, 62-30, (Vol.)							
62-11, 62-12, 62-14, 62-19, 62-20, 62-21, 62-22, 62-25, 62-26, 62-26X, 62-27, 62-30, 1238, 1355, 62-1838, 62-1955, Grenadier, Recltal, (Tone)	150M	RI-281	.59	72-131	.61		
1st. 11-12, 62-7, 62-8, 62-9, 1st. 62-29, (Vol.)	15M 200M	RI-201 RI-208	.59 .59	62-115 72-131	.83 .61	3E3008 3E3012	.49 .49
1st. 11-12, 1st. 62-29, (Tone)	500M	RI-203	.59	62-105	.83	3E3002	.49
2d. 11-12, 2d. 62-29, (Vol.)	20M	RI-208	.59	72-119	.61	3E3012	.49
2d. 11-12, 2d. 62-29, (Tone)							
13, 15, 16, 16X, 17, 18, 18X, (Vol.)	3000	RI-233	.59	62-108	.83	3E3026	.49
62-40, (Vol.)	25M	RI-279	.59	62-133	.83	3E3013	.49
62-38, 62-40, 62-50, (Vol.)	1 Meg.	RI-206	.59	62-116	.83	3E3025	.49
62-38, 62-40, 62-50, (Tone)	200M	RI-208	.59	72-131	.61	3E3002	.49
Auto Radio Super 6, (Vol.)	500M	RI-203	.59	70-206	.61	3E3002	.49
62-7, 62-8, (Tone)	25M	RI-280	.59	70-206	.61		
4G, 20W, 26P, 26PX, (Vol.)	10M	RI-240	.59	79-006	.61	3E3004	.49
PHILCO RADIO & TELEVISION CO.							
3, 1st. Transistone Auto, (Vol.)	500M	RI-203	.59	72-106	.61	3E3002	.49
5, 2d. Transistone Auto, (Vol.)	10M	R-1664	.59	72-100	.61	3E3023	.49
6, 9, 3d. & 6th. Transistone Auto, (Vol.)	500M	RI-203	.59	72-105	.61	3E3002	.49
7, 4th. Transistone Auto, (Vol.)	100M	RI-242	.59	72-122	.61	3E3069	.49
8, 12, 5th. & 8th. Transistone Auto, (Vol.)	500M	RI-203	.59	72-105	.61	3E3062	.49
10, 7th. Transistone Auto, (Vol.)	500M	RI-203	.59	72-105	.61	3E3062	.49
1st. 14, 14-126, 14-226, 141ZX, 15, 15A, 23X, 1st. 91, 91-121, 91-221, 91X, 911X, 911ZX, (Vol.)	350M	RI-833P	.92	72-105	.61	3E3028	.49
2d. 14, 16, 16X, 17, 17X, 2d. 91, (Vol. Tone Tapped)	350M + 30M	RI-834P	.92	2211900	.98		
16, (Q.A.V.C. Adj.)	10M	R-1664	.53	72-114	.61	3E3071	.49
17, (Tapped Q.A.V.C. Adj.)	(6600 +) 3400M	R-1664	.59	72-114	.61	3E3071	.49
1st. 19, 19-121, 19-122, (Vol.)	350M	RI-914	.66	72-105	.61	3E3028	.49

VOLUME CONTROL GUIDE

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
PHILCO—Con't							
2d. 19, 19LX, 19LZX, (Vol.) 41, 41E, 42, 220A, (Vol.)	500M (5000 250)	RI-203	\$0.59	72-106	\$0.61	3E3002	\$0.49
30, 96, 96A, 296, 296A, 111, 111A, 211, 211A, 112, 112A, 112E, 112X, 212, 212E, 112-2-45, 112-2-47, (Vol.)	500M	R-1735T	1.32	74-560	.93	3E3072	.79
37, (Vol.)	500M	RI-479	.66	72-177	.64	3E3073	.56
38, (Vol.)	5000 210	RI-1824T	1.32	74-579	.93	3E3074	.69
40, (Vol.)	20M	RI-832P	.92	72-119	.61		
18, (Vol. Tone Tapped)	1750 350M+ 75M+	RI-232	.59	72-118	.61	3E3055	.49
		RI-834P	.92	2211900	.98		
25X, 43, 43-121, 43-221, (Vol.) 44, (Vol.)	500M	RI-203	.59	72-106	.61	3E3002	.49
46, 46E, (Vol.)	350M 5000	RI-833P	.92	62-105	.83		
	210	R-1824T	1.32	74-579	.93	3E3074	.69
221, 47, 47-121, 47-221, 71, 71-12, 71-221, 71-125, 71-225, 71-226B, (Vol.)	1 Meg.	RI-206	.59	51-095	.49	3E3025	.41
48, 51, 51A, 52, (Vol.) 50, 50A, (Vol.)	5000 5000	RI-201	.59	51-076	.49	3E3008	.41
	1750	R-1823T	1.32	74-55	.93		
53, (Vol.)	20M	RI-832P	.92	62-119	.83	3E3075	.69
54, (Vol.)	500M	RI-203	.59	72-106	.61	3E3002	.49
57, (Vol.)	20M	RI-835P	.92	62-119	.83	3E3075	.69
80, 261, (Vol.)	350M	RI-833P	.92	62-105	.83	3E3023	.69
85, (Vol.)	3000	RI-233	.59	72-108	.61	3E3026	.49
70, 70A, 270, 270A, 570, 90-2-45, 100-2-45, 470, 470A, (Vol.)	5000						
80, 2d. 81, (Vol.)	210	R-1824T	1.32	74-579	.93	3E3074	.69
1st. 81, (Vol.)	20M	RI-832P	.92	62-119	.83	3E3075	.69
	20M	RI-832P	.92	62-119	.83	3E3075	.69
82, 86, 87, (Vol.)	10M	R-1664	.53	24-016	.73	3E3076	.45
1st. 89, 89-121, 89-122, (Vol.) 2d. 89, (Vol.)	350M	RI-915	.66	72-106	.61		
90-47, 90A-47, 90E-47, 490, (Vol.)	500M	RI-203	.59	72-106	.61	3E3002	.49
90-2-47, 90A-2-47, 90X, 70-A.V.C., (Vol.)	500M	RI-203	.59	72-106	.61	3E3002	.49
	1 Meg.	RI-203	.59	51-095	.49	3E3002	.49
95, (Vol.)	500M	RI-480	.66	24-264	.73	3E3077	.56
77, 77A, (Vol.)	5000 250						
90, 20A, 21, 220, (Vol.)	5000	R-1735T	1.32	74-602	1.22	3E3072	1.04
	250	R-1735T	1.32	74-579	.93	3E3072	.79
11, 521, 531, 541, 551, 561, 571, 581, (Vol.)	10M	R-1664	.53	24-016	.73	3E3076	.45
THE RAADOLEK CO.							
Marvelo AC6-7, Monroe AC6-7, Keystone AC6-7, Marvelo AC8-1, Monroe AC8-9, Marvelo Tri-Dynamic 10, Marvelo Bat. 8, Monroe Bat. 8, (Vol.)	3000	RI-233	.59	72-108	.61	3E3026	.49
Marvelo 30, Little Giant 6, Trio one Dynamic 9, Special TRP, (Vol.)	6000	RI-278	.59	72-001	.98	3E3033	.49
R. C. A.—VICTOR INC.							
36, AR, VI, VII, VIII, IX, (Vol.)	400	RI-274	.59	72-118	.61	3E3021	.49
38, R28AC, R30, R30AC, R32, R30A I & H, Cromwell, Hyerion, Tuscan, (Vol.)	375	RI-274	.59	48-400	.98	3E3131	.49
-11, 7-26X, 9-16X, R18AC, 51AC, (Vol.)	10M	RI-401	.79	72-100	.61	3E3029	.49
-26, (Vol.)	10M	RI-402	.79	72-100	.61	3E3029	.49
-25, 9-55, 12-15C, 12-15X, (Vol.)	250	RI-273	.59	72-103	.61	3E3003	.49
-40, (Vol.)	50M	RI-202	.59	72-103	.61	3E3003	.49
-25, R17, R41AC, R41DC, (Vol.)	10M	RI-401	.79	72-100	.61	3E3029	.49
50, (Vol.)	60	RI-384	.66	48-050	.98		
E66, (Vol.)	1250	RI-405	.79	72-181	.73	3E3078	.62
18X, 9-54, 9-56, R64, R67, (Vol.)	2000	RI-406	.79	72-101	.61	3E3079	.49
54, R64, (Sens.)	500M	RI-203	.59	70-203	.67	3E3002	.49
67, (Tone)	10M	RI-402	.79	72-100	.61	3E3029	.49
18AC, R18DC, R33AC, 33DC, R51DC, (Vol.)	4550+ 150B1	RI-383G	.66	72-110	.61		
4, R6, (Vol.)							
5, R5DC, R5X, (Vol.)	20M	RI-382	.79	72-115	.61		
5X, (Tegen, Cont.)	28M	RI-241	.55	72-100	.61	3E3005	.49
4, R6, R8, R10, R12, R19, (Vol.)	50M	RI-205	.59	62-117	.83	3E3022	.49
7, R9, R10DC, RE16A, 1st. Superette, (Vol.)	3800	RI-383G	.79	72-110	.61		
7LW, (Vol.)	3800	RI-383G	.79	72-110	.61		
7, R7DC, R7LW, R9, R9DC, R10DC, RE16, 1st. Superette, (Vol.)	500M	RI-379	.66	72-105	.61	3E3028	.49
7A, 2d. Superette, (Vol.)	4350	RI-383G	.79	72-110	.61		
7DC, R9DC, (Vol.)	4500	RI-383G	.79	72-110	.61		
8, R10, R11, R12, R18, R18A, E19, R21, R23, R023, RAE-1, (Tapped Vol.)	3000 +10M	RI-385	.66	1210900	.73	3E3120	.62
7A, R11, RE16A, RE18, RE-A, R21, R023, RAE26, (Tone) E20, R50, R55, RAE59, RAE-1, (Vol.)	200M	RI-380P	1.05	62-121	.83		
E20, R50, R55, RAE59, AE79, (Tone)	50M	RI-413	.66	72-103	.61	3E3121	.49
	500M	RI-379	.66	72-105	.61	3E3028	.49
AE26, RAE79, (Phono.)	60	RI-384	.66	48-050	.98		
AE59, (Phono.)	60	RI-661P	.92	48-050	.98		
C. A.—Victor—Con't on next page							

ELECTRAD Replacement Volume Controls



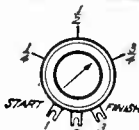
With Long Shafts

Wire wound Type up to 5,000 ohms Carbon Resistance Type over 5,000 ohms

Snap-on Switch

Underwriters approved. Converts any plain Standard Electrad control to switch type control. **3E3030—** List Price, 50c. **YOUR PRICE**

25¢



Easy to select the proper value and Taper for most satisfactory operation. Wire wound types wound on fibre, carbon types covered with separate wire segments on which smooth contact is made, thereby reducing wear to a minimum and providing quiet operation. Shaft insulated—may be mounted on metal panels. Standard controls have plain back covers and may easily be converted to switch type by substituting Electrad Snap-On Switch Cover. Case diam. 1 1/8", Depth 1 1/2". Bushing fits 3/8" hole. Shaft 1/4" diam., 1 1/2" long.

Electrad announces that a new bakelite case control slightly smaller in depth will be ready within the next few months. We will supply the new type as soon as it is in production. The value and type numbers will be the same as listed below.

Standard Electrad Controls Without Switch

List Price, \$1.00. **YOUR PRICE**

59¢

Stock Num.	Used in Circuit Number (See page 68)	Taper Curve Num.	Taper Indicated by Ohmage Readings in Sections				
			Start	1/4	1/2	3/4	Finish
RI-204	1	1	Open	8	5	2.5	0
	1	1	0	Unif.	Unif.	Unif.	20
	1	1	0	Unif.	Unif.	Unif.	30
	1	1	0	Unif.	Unif.	Unif.	50
	17	1	0	Unif.	Unif.	Unif.	100
RI-273	17	1	0	Unif.	Unif.	Unif.	200
RI-274	9, 17, 20	1	0	Unif.	Unif.	Unif.	400
RI-282	9, 17, 20	1	0	Unif.	Unif.	Unif.	600
RI-275	9, 17, 20	1	0	Unif.	Unif.	Unif.	800
RI-276	9, 17, 20	1	0	Unif.	Unif.	Unif.	1000
RI-232	4, 9, 17, 19, 20	1	0	Unif.	Unif.	Unif.	2000
RI-233	4, 9, 19, 20	1	0	Unif.	Unif.	Unif.	3000
RI-277	4, 9, 19, 20	1	0	Unif.	Unif.	Unif.	4000
RI-234	4, 9, 19, 20	1	0	Unif.	Unif.	Unif.	5000
RI-278	4, 19, 20	5	0	300	1200	2500	5000
RI-560	5, 7	3	0	350	1500	3750	7500
RI-283	4, 9, 10, 11, 19, 20	1	0	Unif.	Unif.	Unif.	10,000
RI-240	5, 7, 8	3	0	20	2000	9000	10,000
RI-573	2, 5, 7, 8	4	12M	5M	1M	200	0
RI-201	5, 7, 8	3	0	100	2M	10M	15,000
RI-279	4, 10, 11, 19, 20	1	0	Unif.	Unif.	Unif.	25,000
RI-280	4, 16	5	0	1500	6M	12,500	25,000
RI-241	2, 5, 19	2	0	800	2M	15M	30,000
RI-205	4, 19, 20	4	0	Unif.	Unif.	Unif.	50,000
RI-202	2, 3, 18	4	75M	25M	2M	200	0
RI-242	6, 12, 13, 15, 16, 21	6	0	6M	25M	50M	100,000
RI-281	14	1	0	Unif.	Unif.	Unif.	200,000
RI-208	6, 12, 13, 21	6	0	15M	60M	125M	250,000
RI-203	3	2	0	2M	20M	200M	500,000
RI-206	12, 13, 21	6	0	60M	250M	500M	1 Me

(Taper Curves on Page 63)

All above controls except RI-204 are potentiometer type. Where rheostat is wanted use center and one outside terminal. Uniform controls in values to 5,000 ohms are wire wound.

Special Replacement Controls for PHILCO Receivers

Models 82, 86, 87, 511, 521, 531, 541, 551, 561, 571, 581, 10,000 ohm volume control.

20, 20A, 21, 37, 46, 46E, 70, 70A, 90 (2-45), 90A (2-45), 220, 270

List, \$1.50.

YOUR PRICE

Philco Models

73¢

Philco Model 95, 500,000 ohm volume control.

24-264—List, \$1.50.

YOUR PRICE

Philco Models

49¢

Philco Model 95, 500,000 ohm volume control.

24-264—List, \$1.50.

YOUR PRICE

Philco Models

73¢

Models 22L, 47, 47-121, 47-221, 71, 71-121, 71-221, 71-125 Special 1 meg. Volume Control.

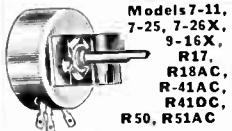
51-095—List, \$1.00.

YOUR PRICE

Philco Models

49¢

Special Replacement Controls for RCA-VICTOR-RADIOLA

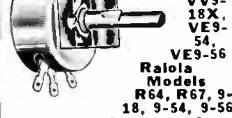


Special 2,000 ohm wire wound volume control. Exactly duplicates the original electrical and mechanical specifications. Slightly different appearance. RI-401—List. \$1.50.

YOUR PRICE 79¢

Radiola R44, R46AC, R47
Tapped volume control 1500+1400 ohms.
RI-403—List. \$1.50.

YOUR PRICE 79¢



1,200 ohm volume control.
RI-405—List. \$1.50.

YOUR PRICE 79¢

Radiola Models R18AC, R18DC, R33AC, R33DC, R51AC, R51DC, 7-26
2,000 ohm volume control.
RI-402—List. \$1.50.

YOUR PRICE 79¢



Special 50,000 ohm volume control with identical taper and electrical specifications to original part number 6019 different appearance slightly different.

72-013—List. \$1.50.

YOUR PRICE 73¢



Special twin volume control 50,000 ohms each section. Exactly replaces the original RCA Victor part 62940.

3E3080—List. \$3.00.

YOUR PRICE \$1.18



13,000 ohm volume control tapped at 3,000 ohms. Exactly replaces original part number 3092.

RI-385—List. \$1.25.

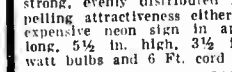
YOUR PRICE 66¢



50,000 ohm volume control. Duplicates electrical specifications of original control.

RI-408—List. \$1.25.

YOUR PRICE 66¢



will bring you. Just the thing for window or show case. Substantial metal case, antique gold finished frame, glass panel with transparent red lettering against opaque black background. Two 6 inch tubular bulbs inside case provide strong, evenly distributed illumination. Has attention compelling attractiveness either day or night. Closely resembles expensive neon sign in appearance. Overall size 14 1/2 in. long, 5 1/2 in. high, 3 1/2 in. deep. Complete with two 25 watt bulbs and 6 Ft. cord with plug.

A GENUINE NEON SIGN IS LISTED ON PAGE 16.

Victor Models VV9-18X, VE9-54 Radiola R64, 9-54



2,000 ohm sensitivity control.
RI-406—List. \$1.50.

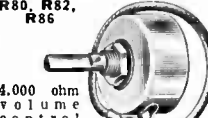
YOUR PRICE 79¢

Radiola Model R66
550 ohm volume control.
RI-407—List. \$1.50.

YOUR PRICE 79¢

Radiola Models R60 and R62
450 ohm volume control.
RI-404—List. \$1.50.

YOUR PRICE 79¢



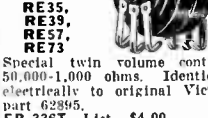
4,000 ohm volume control complete with special wire wound shunt resistor.
RI-381G—List. \$1.50.

YOUR PRICE 79¢

Victor Model R34
Special twin volume control 50,000-1,000 ohms. Identical electrically to original Victor part 62985.

FB-336T—List. \$4.00.

YOUR PRICE \$2.10



Special twin volume control. An improved type, exactly replaces the original unit and will provide smoother, more satisfactory service.

3E3081—List. \$2.50.

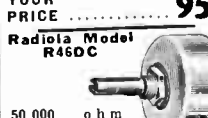
YOUR PRICE 95¢



50,000 ohm volume control. Duplicates electrical specifications of original control.

RI-408—List. \$1.25.

YOUR PRICE 66¢



13,000 ohm volume control tapped at 3,000 ohms. Exactly replaces original part number 3092.

RI-385—List. \$1.25.

YOUR PRICE 66¢



will bring you. Just the thing for window or show case. Substantial metal case, antique gold finished frame, glass panel with transparent red lettering against opaque black background. Two 6 inch tubular bulbs inside case provide strong, evenly distributed illumination. Has attention compelling attractiveness either day or night. Closely resembles expensive neon sign in appearance. Overall size 14 1/2 in. long, 5 1/2 in. high, 3 1/2 in. deep. Complete with two 25 watt bulbs and 6 Ft. cord with plug.

A GENUINE NEON SIGN IS LISTED ON PAGE 16.

RADOLEK REPLACEMENT

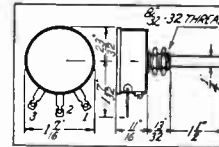
Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
R. C. A. - VICTOR, INC. —							
RAE68, (Vol.)	Con't	RI-205	\$0.59	72-103	\$0.61	3E3022	\$0.49
T5, RE16, RE16A, RE17, RE57, RAE68, (Phono.) R14, For 60 cy., (Vol.)	50M	RI-384	.66	48-050	.98		
	60	FB-271T	1.59				
R15, RE17, R42, R48, For 60 cy. (Vol.)	50M	FB-228T	1.59	74-526	1.22	3E3122	1.04
R14, R42, (Tone)	10M	RI-280	.59	62-111	.83		
R16, 7-10, (Vol.)	50M	RI-400	.92	48-006	.98		
	22500						
	5						
RAE68, R80, R82, R86, (Vol.)	4000	RI-381G	.79	72-109	.61	3E3123	.49
RAE68, R80, R82, R86, (Tone)	40M	RI-205	.59	72-117	.61	3E3022	.49
R42, For 60 cy., (Vol.)	25M	FB-570T	1.59				
	10M						
R47, (Tapped Vol.)	1500 + 1400	RI-403	.79	72-108	.61	3E3124	
RE34, RE35, RE39, RE57, RE73, (Tone)	2 Meg.	RG-489	.79	72-132	.61		
RE73, R80, R82, R86, (Phono.)	60	RI-384	.66	48-050	.98		
R80, R82, R86, Remote Control Models, (Vol.)	3500	RI-724	.66	72-109	.61		
R44, R46AC, (Vol.)	2900	RI-403	.79	72-108	.61	3E3124	.49
R46DC, (Vol.)	50M	RI-408	.66	72-103	.61	3E3121	.49
RE34, RE35, RE39, RE57, RE73, (Vol.)	50M	FB-336T	2.10	74-524	1.22	3E3125	1.04
RE35, RE39, RE57, (Remote Vol.)	1000	RI-725T	1.32				
R60, R62, (Vol.)	60	RI-404	.79	72-118	.61	3E3021	.49
R66, (Vol.)	450	RI-407	.79	72-118	.61	3E3021	.49
R21, R22, (Vol.)	550	RI-205	.59	72-103	.73	3E3022	.49
	50M						
P31, (Vol.)	1 Meg.	RI-206	.59	72-116	.61	3E3025	.49
R78, (Tone Tapped Twin Vol.)	400						
	6000 + 30M			1220900	1.47		
	6000 + 30M						
R78A, RAE84, (Tone Tapped Vol.)	6000 + 30M			1210902	.86		
	500M	RI-203	.59	72-105	.61	3E3002	.49
R78, RAE84, (Tone)	4500	RI-383G	.79	72-110	.61		
R90, (Trebble Tone)	200M	RI-281	.59	62-120	.83		
R90, (Bass Tone)	4 Meg.			72-132	.61		
SW3, R24, R71, R72, R74, R76, R77, RE81, (Vol.)	50M	RI-205	.59	62-103	.83	3E3022	.49
SW3, R24, R71, R72, (Tone)	50M	RI-205	.59	72-103	.61	3E3022	.49
R74, (Tone)	200M	RI-281	.59	62-121	.83		
R70, (Vol.)	5000	RI-278	.59	72-110	.61	3E3033	.49
R70, R76, R77, RE81, (Tone)	500M	RI-203	.59	62-105	.83	3E3002	.49
R71B, (Tone)	150M	RI-251	.59	72-120	.61		
R73, R75, RE80, (Vol.)	10M	RI-240	.59	70-205	.61	3E3004	.49
R73, R75, RE80, (Tone)	10M	RI-240	.59	70-205	.65	3E3004	.49
RE80, (Phono.)	60	RI-384	.66	48-050	.98		
SWA, SW10, (Vol.)	25M	RI-280	.59	70-206	.61	3E3022	.49
R43, (Vol.)	50M	RI-205	.59	72-103	.67	3E3022	.49
R43, (Tone)	50M	RI-205	.59	62-117	.83		
CE29, (Vol.)	200M	RI-384	.66	48-050	.98		
CE29, (Tone)	60M	RI-281	.59	62-121	.83		
8-60, 9-40, CE29, (Phono.)	10M	RI-240	.59	72-100	.61	3E3004	.49
R32, RE45, R52, RE75, RE154, RE156, (Vol.)	3800	RI-1706T	1.05	74-600	1.22	3E3146	.89
R32, E35, RE45, R52, RE75, RE135, RE154, RE156, (Tone)	3900						
E35, RE45, RE75, E135, (Phono.)	1 Meg.	RI-863	.66	72-116	.61		
R37, R38, (Tapped Vol.)	500	RI-282	.59	72-118	.61		
	500M + 250M			1210901	.86		
R37, R38, (Tone)	500M	RI-203	.59	62-105	.83	3E3002	.49
R28, RE40, (Vol.)	3000 + 1001B	RI-743PG	.92	62-108	.83		
RE40, (Phono.)	5000	RI-278	.59	72-110	.61	3E3033	.49
RE45, (Phono.)	500	RI-773	.66	72-118	.61	3E3021	.49
RC98, (Vol.)	300M	RG-783PG	.92	72-108	.61	3E3124	.49
RI00, RC100, (Vol.)	4000	RI-836P	.92	72-019	.73	3E3126	.62
RC104, (Vol.)	4000	RI-782PG	.92	72-109	.61	3E3123	.49
RC84, (Vol.)	36M	RI-861	.66	72-103	.61	3E3121	.49
75, (Vol.)	2 Meg.	RI-862	.66	72-132	.61		
77, (Tone)	1 Meg.	RI-863	.66	72-116	.61		
M30, (Vol.)	50M	RI-205	.59	72-103	.61	3E3022	.49
M32, (Vol.)	1 Meg.	RI-206	.59	72-116	.61	3E3025	.49
M34, (Vol.)	180M	RI-281	.59	62-120	.83		
RC106, R240, (Vol.)	250M	RI-916	.66				
RC106, R240, (Tone)	1 Meg.	RI-921P	.92				
RC112, R121, (Vol.)	250M	RI-917	.66				
RC112, R121, (Tone)	100M	RI-919P	.92				
RC122, R220, (Vol.)	250M	RI-918	.66				
RC122, R220, (Tone)	100M	RI-920P	.92				
R. K. RADIO LABS.							
RKB4, RH4C, RKP4, (Vol.)	10M	RI-963PG	.92	52-205	.83	3E3027	.49
RK84, RHT4, (Vol.)	10M	RI-964PG	.92	62-100	.83	3E3127	.49
Arkayola, (Vol.)	500M	RI-966P	.92	62-105	.83	3E3023	.69
SEARS ROEBUCK & CO.							
1370, (Vol.)	15M	RI-573	.59	52-205	.83	3E3027	.49
1430, 1580, 1582, 1584, 1590, 1592, 1630, (Vol.)	15M	RI-202	.59	70-205	.61	3E3008	.49
1320, 1322, 1324, 1390, 1400, 1402, 1404, 1406, 1450, (Vol.)	5000 + 1501B	RI-573	.59	99-006	.83	3E3027	.49
1480, 1482, 1484, (Vol.)	15M	RI-201	.59	70-205	.61	3E3008	.49
1462, 1480, 1482, 1484, 1570, 1572, 1574, 1580, 1582, 1584, 1590, 1592, 1630, 1640, (Tone)	500M	RI-206	.59	72-105	.61	3E3025	.49
RA433, F. F. G. J. K, (Vol.)	15M	RI-201	.59	70-205	.61	3E3008	.49
218, 1404, 1406, 1430, (Vol.)	15M + 1501B	RI-573	.59	99-006	.83	3E3027	.49
218, (Tone)	50M	RI-205	.59	72-117	.61	3E3022	.49

VOLUME CONTROL GUIDE

New RADOLEK Replacement Volume Controls With Long Shafts—Insulated

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
SEARS ROEBUCK—Con't							
H. Mentor, (Vol.)	2000	RC-1812TP	\$1.59				
110, (Vol.)	10M	RI-277	.59	62-110	\$0.83		
111, (Vol.)	4000	RI-573	.59	72-106	.61	3E3027	\$0.49
111A, (Vol.)	15M	RI-242	.59	72-104	.61	3E3069	.49
112, (Vol.)	100M	RI-242	.59	98-003	.98		
1620, 1622, (FH.)	15M	RI-573	.59	48-015	.98		
1703, 7064, (Vol.)	28	RI-270	.59	72-121	.61		
1703, 1706, 1707, 7070, 7071, 7072, (Vol.)	250M	RG-930P	.92	72-106	.61		
1705, (Vol.)	500M	RG-929P	.92				
1705, (Tone)	500M	RI-925TP	1.59				
1708, 1709, 1720, 1725, 7065, (Vol.)	1 Meg. 500M	RG-932	.66	72-116	.61		
1708, 1709, 1712, 1713, 1714, 1721, 1722, 1732, (Tone)	1000	RI-926T	1.32				
1710, (Vol.)	500M	RG-928	.66	72-105	.61	3E3028	.49
1711, 7000, (Vol.)	35	RG-931	.66	48-050	.98		
1714, (Vol.)	15	RG-933	.66	48-050	.98		
1721, 1722, 1732, (Vol.)	1 Meg. 500M	RG-932	.66	72-116	.61		
1725, 1750, (Tone)	1000	RI-924T	1.32				
1750, (Vol.)	500M	RG-934P	.92	72-106	.61		
7074, 7075, 7076, 7077, 7078, 7091, 7092, 7093, 7094, (Vol.)	500M	RG-928	.66	72-106	.61		
500M	500M	RG-927P	.92	72-106	.61		
SENTINEL RADIO CORP.							
8, 9, (Vol.)	11P.2	12N		62-115	.83		
11, 15, 16, (Vol.)	10N	RI-201	.59	62-115	.83	3E3008	.49
29, 30, (Vol.)	10N	RI-242	.59	79-006	.83	3E3069	.49
103, 104, (Vol.)	10N	RI-242	.59	98-006	.83	3E3069	.49
108, (Vol.)	100M	RI-242	.59	72-122	.61		
99, 108A, 109, 110, 111, (Vol.)	7M	RI-560	.59	62-114	.83	3E3011	.49
108B, 117, (Vol.)	10M	RI-560	.59	72-100	.61	3E3011	.49
20, 118, 261, 106B, 108, 108A, 108B, 109, 110, 114, (Tone)	50M	RI-205	.59	72-117	.61	3E3022	.49
513, (Vol.)	10M+50	RI-240	.59	52-205	.83	3E3004	.49
31, 32, (Vol.)	3000	RI-233	.59	72-108	.61	3E3026	.49
550, 560, 561, (Vol.)	14750+2501H	RI-201	.59	62-115	.83	3E3008	.49
614, (Vol.)	500M	RI-573	.59	62-115	.83	3E3002	.49
440, (Vol.)	10M	RI-203	.59	62-115	.83	3E3008	.49
1061b, 444, 660, 666C, (Vol.)	10M	RI-201	.59	72-115	.61	3E3008	.49
1020, 1030, (Vol.)	500M	RI-203	.59	62-105	.83	3E3002	.49
1020, 1030, (Q. A. V. C. Adj.)	30M	RI-241	.59	72-117	.61		
1020, 1030, (Q. A. V. C. Adj.)	10M	RI-240	.59	62-113	.83	3E3033	.49
K, 70, (Vol.)	5000	RI-278	.59	52-204	.83	3E3004	.49
Courier 65, (Vol.)	800	RI-275	.59	72-107	.61		
106, 606, (Vol.)	10M	RI-240	.59	72-113	.61	3E3004	.49
SIMPLEX RADIO CO.							
D, (Vol.)	15M	RI-201	.59	62-115	.83	3E3008	.49
6A, 2d, P, (Vol.)	500M	RG-726C	.79	62-105	.83	3E3023	.49
F, L, (Vol.)	50M	RI-205	.59	62-103	.83	3E3022	.49
H, (Vol.)	3000	RI-205	.59	62-108	.83	3E3022	.49
H, (Tone)	500M	RI-203	.59	72-105	.61	3E3002	.49
J, (Vol.)	3500	RI-233	.59	62-108	.83	3E3026	.49
K, N, (Vol.)	8000	RI-283	.59	72-113	.61	3E3006	.49
R, (Vol.)	8350	RI-936PG	.92	62-113	.83		
32 V, P, Bat. P, Q, (Vol.)	8350	RI-935P	.92	62-113	.83		
T, W, (Vol.)	8350	RI-938P	.92	62-105	.83	3E3023	.49
SPARKS-WITHINGTON							
7, (Vol.)	15M	RI-201	.59	72-115	.61	3E3008	.49
62, 63, (Vol.)	75M	RI-202	.59	72-202	.61	3E3003	.49
5, 9, (Vol.)	15M	RI-361P	1.05	52-205	.83		
9A, 410, 420AC, 420DC, 430, 750DC, 870, Junior, Jewell, (Vol.)	30M	R-1717TP	1.59	75-543	1.47	3E3128	1.25
10, 56, (Vol.)	50M	RI-360P	1.05	62-101	.83		
14, 34, 40, 54, (Vol.)	250M	RI-694	.66	72-121	.61		
14, 54, (Tone)	50M	RI-205	.59	62-117	.83	3E3022	.49
52, 56, (Tone)	50M	RI-205	.59	72-117	.61	3E3022	.49
14, (Q. A. V. C. Adj.)	2500	RI-233	.59	72-101	.61	3E3026	.49
16, 16AW, 18, 27A, (Vol.)	10M	RI-240	.59	52-205	.83	3E3004	.49
16, 16AW, 18, 27A, (Vol.)	10M	RI-240	.59	52-205	.83	3E3004	.49
18, 27, 27A, (Q. A. V. C. Adj.)	900M	RI-206	.59	72-116	.61	3E3025	.49
27, (Vol.)	16M	RI-201	.59			3E3008	.49
31, 32, 51, 53, (Vol.)	500M	RI-203	.59	72-116	.61	3E3002	.49
39, (Vol.)	500M	RI-203	.59	70-203	.61	3E3002	.49
69, 79A, 89, 301, 301DC, 589, (Vol.)	50M	RI-357	.66	79-006	.61	3E3046	.49
55, 99, 101, 109 DeLux, 930, 931, 931DC, (Vol.)	50M	RI-357	.66	70-206	.61	3E3129	.49
110, 111, (Vol.)	75M	RI-357	.66	70-202	.61	3E3124	.49
600, 610, 620, 740, 750, (Vol.)	15M	RI-655	.66	70-202	.61		
1st, 41, (Vol.)	200M	RI-281	.59	72-131	.61		
2d, 41, (Vol.)	30M	RI-241	.59	30-010	.73	3E3005	.49
591, 593, (Vol.)	50M	RI-357	.66	70-202	.61	3E3129	.49
546DC, 570DC, 574, 600DC, 610DC, 620DC, 737, 740DC, 750DC, (Vol.)	15M	RI-655	.66	79-006	.61	3E3130	.49
130, (Vol.)	500M	RI-774	.66	70-202	.61	3E3130	.49
88A, 103, (Vol.)	15M	RI-655	.66	70-202	.61	3E3130	.49
870, (Vol.)	15M	RI-655	.66	75-543	1.47	3E3130	.49
STEWART-WARNER							
300, 310, 330, 335, 345, (Vol.)	500	RI-274	.59	79-006	.61	3E3131	.49
305, 315, 330, 340, 350, 355, (Vol.)	500	RI-274	.59	72-118	.61	3E3131	.49
360, 363, (Vol.)	500	RI-274	.59	70-204	.61	3E3131	.49
385, 390, (Vol.)	500	RI-274	.59	72-118	.61	3E3131	.49
500, 520, 525, 700, 705, 710, 806, 806B, (Vol.)	500	RI-202P	.59	72-118	.61	3E3003	.49
Stewart-Warner—Con't on next page							

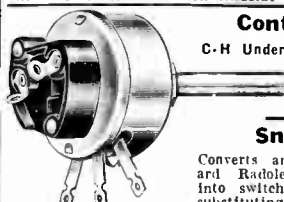

Wire wound type up to 10,000 ohms. Carbon resistance type over 10,000 ohms. A new high quality series of replacement volume controls made for us by one of the oldest and foremost variable resistance manufacturers in the industry. Both wire wound and carbon types will safely dissipate 2 watts. Wire wound type precisely wound on fibre with constant tension phosphor bronze spring contact. High resistant carbon type has ingeniously designed contact consisting of three tapered phosphor bronze fingers which contact the element directly to insure quiet operation and minimum wear. A phosphor bronze shoe rides on a separate brass segment terminating resistance to center lug. All controls are potentiometer type. Use center and one outside terminal when rheostat is required.



Standard Radolek Controls Less Switch
YOUR PRICE **29c**

Control With Switch
C-H Underwriters' approved snap switch
List, \$1.75.
YOUR PRICE **42c**

Snap-On Switch
Converts any Standard Radolek control into switch type by substituting switch cover for plain cover. C-H underwriters' approved switch.
3E3450
List, 50c.
YOUR PRICE **17c**

Taper Curve Numbers Refer to Graph on Page 63. Circuit Numbers Refer to Diagrams on Page 68.

Resistance Ohms	Number Without Switch	Number With Switch	Taper	Taper Curve Number	Used In Circuit Number
10	3E3451	3E3451S	Unif.	1	1
20	3E3452	3E3452S	Unif.	1	1
30	3E3453	3E3453S	Unif.	1	1
50	3E3454	3E3454S	Unif.	1	1
100	3E3455	3E3455S	Unif.	1	17
200	3E3456	3E3456S	Unif.	1	17
400	3E3457	3E3457S	Unif.	1	9, 17, 20
600	3E3458	3E3458S	Unif.	1	9, 17, 20
800	3E3459	3E3459S	Unif.	1	9, 17, 20
1,000	3E3460	3E3460S	Unif.	1	9, 17, 20
2,000	3E3461	3E3461S	Unif.	1	4, 9, 17, 19, 20
3,000	3E3462	3E3462S	Unif.	1	4, 9, 19, 20
4,000	3E3463	3E3463S	Unif.	1	4, 9, 19, 20
5,000	3E3464	3E3464S	Unif.	1	4, 9, 19, 20
5,000	3E3465	3E3465S	L. H.	5	4, 9, 19, 20
6,000	3E3466	3E3466S	Unif.	1	4, 9, 19, 20
10,000	3E3467	3E3467S	L. H.	5	4, 9, 19, 20
10,000	3E3468	3E3468S	Unif.	1	4, 9, 10, 11, 19, 20
15,000	3E3469	3E3469S	L. H.	3	5, 7, 8
20,000	3E3470	3E3470S	L. H.	3	5, 7, 8
25,000	3E3471	3E3471S	Unif.	1	4, 10, 11
25,000	3E3472	3E3472S	L. H.	3	5, 7, 8
30,000	3E3473	3E3473S	L. H.	3	5, 7, 8
50,000	3E3474	3E3474S	Unif.	1	4, 20
75,000	3E3475	3E3475S	R. H.	2	2, 3, 18, 19
100,000	3E3476	3E3476S	L. H.	6	6, 12, 13, 15, 16, 21, 14
300,000	3E3477	3E3477S	Unif.	1	14
250,000	3E3478	3E3478S	L. H.	6	6, 12, 13, 21
500,000	3E3479	3E3479S	L. H.	6	6, 12, 13, 21
1,000,000	3E3480	3E3480S	L. H.	6	12, 13, 21

Special Sparton Volume Controls

Models 9A, 410, 420AC, 420DC, 430, 750DC, 870, Junior, Jewell.
Twin volume control 30,000-50,000 ohms.
1717TP—List, \$3.00.
YOUR PRICE **\$1.59**



Sparton Models 55, 69, 79A, 89, 99, 101, 103, 109, DeLux, 110, 111, 301, D. C. 591, 593, 930, 931, 931 D. C. 50,000 ohm volume control. Thin shaft type. RI-57—List, \$1.25.
YOUR PRICE **66c**



Sparton Models 89A, 103, 564DC, 570DC, 574, 600, 600DC, 610, 610DC, 620, 620DC, 737, 740, 740DC, 750, 870, 15,000 ohm volume control.
RI-655—List, \$1.25. YOUR PRICE **66c**

Special Stewart Warner Control
Models R100A, R100B, R100E, R100F, R101A, R101B, Metropolitan, 950 AC, 951 AC, 952 AC, 953 AC, 961 AC, 962 AC, 963 AC. New improved type. 32,000 ohm volume control.
RI-298—List, \$1.25.
YOUR PRICE **66c**



Octave Tone Control

And Static Suppressor

Variable Capacity Control

Built on entirely new principle. Consists of a fixed condenser with 7 phosphor bronze contacts over which rotates a semicircular phosphor bronze plate which increases or decreases the capacity in circuit. At off position, control is entirely out of circuit. Max. cap. .005; Min. .0005.

A complete unit. No additional equipment necessary. Where a single power tube is used, terminals on control are connected to grid and ground. In push-out output, connect control to the two grids.

The tone control itself is positively noiseless and practically eliminates noise and static of all kinds. Housed in one piece bakelite shell with metal backplate 1/4" diam. Shaft length 1 1/2" including 1/2" long threaded bushing which fits 3/8" hole. Extends only 3/8" behind panel. 1 3/8" diameter.

3E3199—List. \$1.50. **YOUR PRICE**..... **42c**
TEN FOR..... **\$3.95**

Frost Wire Wound Volume Controls

Very smooth wiping contact made by high pressure slip cleaning contact arm. Straight line resistance, no taper. Case 1 1/2" diam., 3/8" deep, switch type 1" deep 1/2" shaft 2" long.



Rheostats—Without Switch

Ohms	Stock Num.	YOUR PRICE. 39c Each
6	3E3300	
10	3E3301	
20	3E3302	
30	3E3303	

Potentiometers

Stock Number	Ohms	Stock Number	YOUR PRICE
3E3312	200	3E3304	59c
3E3313	400	3E3305	
3E3315	2000	3E3307	
3E3317	5000	3E3309	

Frost 70 Volume and Tone Controls

Compact carbon resistance type control. Smooth wiping contact. Potentiometer type. Uniform taper. Very quiet operation. Switch type has electro static shield. Diam. 1 1/2" depth 3/8" shaft 1/4" by 2" long. Single 3/8" hole mounting.



Ohms	Stock Num.	List Ea.	YOUR PRICE
1,000	3E3345	\$1.50	59c
2,000	3E3346		
3,000	3E3347		
5,000	3E3348		
20,000	3E3350		
75,000	3E3352		40c
100,000	3E3353		
1 Meg.	3E3356		

Frost Series "2880" Controls

Carbon potentiometer type. Bakelite case. Roller type contact very smooth and quiet. Case diam. 1 1/2", 1/4" shaft 2" long.

Ohms	Less Switch	With Switch	YOUR PRICE
5,000	3E3382	3E3391	55c | 69c
25,000	3E3384	3E3394	
75,000	3E3387	3E3396	
100,000	3E3388	3E3397	
250,000	3E3389	3E3398	
500,000	3E3390	3E3399	

Frost Potentiometers

Shaft insulated to withstand high voltage. Positive smooth wiping action. Uniform taper. Bakelite case diam. 1 1/2" depth 1/4" shaft 2" long. Single 3/8" hole mtg. Graphite element.

Ohms	Stock Number	YOUR PRICE
1,000	3E3320	49c
2,000	3E3321	
3,000	3E3322	
50,000	3E3326	
75,000	3E3327	
100,000	3E3328	

RADOLEK REPLACEMENT

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
STEWART-WARNER — Con't							
530, 535, (Vol.)	75M	RI-203	\$0.59	70-202	\$0.61	3E3002	\$0.49
801, 801A, 801B, 802, 811A, 811B, (Vol.)	75M	RI-202	.59	70-202	.61	3E3003	.49
715, 720, (Vol.)	15M	RI-201	.59	72-115	.61	3E3008	.49
750, (Vol.)	10M	RI-240	.59	72-114	.61	3E3004	.49
950 Bat., 950DC, 951 Bat., 951 DC, 952 Bat., 952DC, 953 Bat., 953DC, 970AC, 970DC, 971DC, 972, DC, 973DC, 980 Bat., R-100C-DC, (Vol.)	100M 1000	R-1759T	1.32	74-602	1.22		
950AC, 951AC, 952AC, 953AC, 961AC, 962AC, 963AC, (Vol.)	32M	RI-298	.66	30-010	.73	3E3132	.56
900, 901, 902, 903, 911, 912, 913, (Vol.)	6000	RI-202	.59	28-031	.73	3E3023	.49
R100A, R100B, R100E, R100F, (Vol.)	32M	RI-298	.66	30-010	.73	3E3132	.49
R100A, R100B, R100C, R100E, R100F, (Tone)	60M	RI-201	.59	72-117	.61	3E3008	.49
R101A, R101B, Metropolitan, (Vol.)	5000	RI-298	.66	72-110	.61	3E3132	.49
R102A, R102B, R102E, (Vol.)	8500	RI-283	.59	62-105	.83	3E3006	.49
R103A, R104B, R104E, (Vol.)	400M	RI-612	.66	62-105	.83		
R105, 50, 59, (Vol.)	60M	RI-205	.59	72-117	.61	3E3022	.49
R106, (Vol.)	500M	RG-611P	.59	62-105	.83		
R106, (Sens.)	8000	RI-560	.52	62-113	.83	3E3011	.49
1st. 108, 1st. 108X, 1st. 10, 1st. 20, (Vol.)	250M	RI-208	.59	62-105	.83	3E3012	.49
2d. 108, 2d. 108X, 2d. 10, 2d. 20, (Vol.)	250M + 140B	RI-208	.59	62-105	.83	3E3012	.49
109, 1090, (Vol.)	500M	RI-203	.59	62-106	.83	3E3002	.49
1099, (Vol.)	500M	RI-203	.59	62-106	.83	3E3002	.49
R110, R110A, R110E, (Vol.)	500M	RI-682P	.92	62-106	.83		
R111, R115, R111I, R112, R113, R114, R116, R117, R118, R119, (Vol.)	500M	RI-939P	.92	62-106	.83		
R112 Auto, R112 Auto, (Vol.)	500M	RI-203	.59	62-106	.83	3E3002	.49
R116, R116A, R116AH, R116-AL, R116X, R116XH, R116-XL, (Vol.)	500M	RI-203	.59	62-106	.83	3E3002	.49
R119, R119EF, R119I, R1192, R1193, (Vol.)	500M	RI-203	.59	62-106	.83	3E3002	.49
R120, R120A, 120I, (Vol.)	500M	RI-203	.59	72-106	.61	3E3002	.49
R120EF, 1209, (Vol.)	500M	RI-203	.59	62-106	.83	3E3002	.49
STROMBERG-CARLSON							
635, 636, 638, (Short Shaft) (Double Shaft)	10000 10000	RI-32	.66	72-161	.73	3E3133	.62
641, 642, 652, 654, (Long Shaft) (Double Shaft)	20000 800	R-1437 RI-31 R-1436	.53 .66 .53	72-162 72-159 72-160	.73 .73 .73	3E3136 3E3134 3E3135	.45 .49 .45
TEMPLE							
8-61, 8-81, 8-91, 5-55, (Vol.)	(15M) 500M	R-1618T	1.32	74-515	1.47	3E3137	1.10
TRANSFORMER CORP. OF AMER.							
51, 53, 60, 60 Jr., 25-60, (Vol.)	25M	RI-205	.59	62-111	.83	3E3022	.49
55, 56, (Vol.)	25M	RI-205	.59	51-005	.73	3E3022	.49
40, (Vol.)	4100 + 1201B	RI-234	.59	55-004	.98	3E3032	.49
61, 70, (Vol.)	12M	RI-201	.59	79-006	.61	3E3008	.49
80, 25-80, 81, 25-81, 84, 25-84, 85, 25-85, (Vol.)	10500	RI-283	.59	72-114	.61	3E3006	.49
83, (Vol.)	75M	RI-202	.59	79-006	.61	3E3003	.49
90, 90A, 91, 92, 94, 94-25, 95, (Vol.)	435	RI-274	.59	62-118	.83	3E3131	.49
90, 90A, 91, 92, (Tone)	12M	RI-573	.59	62-113	.83	3E3027	.49
94, 25-94, 95, (Tone)	12M	RI-283	.59	62-114	.83	3E3006	.49
120, 121, 139, (Vol.)	10500	RI-733	.59	70-205	.61	3E3027	.49
120, 121, 139, 160, 25-160 (Tone)	100M	RI-242	.59	62-114	.83	3E3069	.49
1349, (Vol.)	1000	RI-276	.59	62-107	.83		
300, 320, (Vol.)	10500	RI-573	.59	306-001	.86	3E3027	.49
300, (Q. A. V. C. Adj.)	500M	RI-203	.59	72-105	.61	3E3002	.49
420, (Vol.)	500M	RI-790P	.92	62-105	.83		
422, (Vol.)	20M	RI-791P	.92	62-119	.83		
470, (Vol.)	750M	RI-785	.66				
UNITED AMERICAN BOSCH CORP.							
4, AC5, 7, 7A, 7C, 20, 20J, 20K, 20L, 31, 32, Essex 4, (Vol.)	10M	RG-493P	.92	72-114	.61	3E3071	.49
36, 37, (Vol.)	10M	RG-493P	.92	62-114	.83	3E3138	.69
73, 74, (Vol.)	10M	RG-493P	.92	62-100	.83	3E3127	.69
20, 20J, 20K, 20L, 60, 60D, 60E, 61, 62C, 62DC, 63DC, (Tone)	500M	RI-203	.59	72-105	.61	3E3002	.49
10, 40, 41, 91, 92, (Vol.)	500M	RI-203	.59	72-105	.61	3E3002	.49
28, 29, (Vol.)	500M	RI-1747	.92	72-207	1.22	3E3139	.79
226, 242, 243, (Tone)	500M	RI-203	.59	70-203	.61	3E3002	.49
73, 74, (Tone)	50M	RI-205	.59	72-117	.61	3E3022	.49
5A, 5B, 205, 205B, 305A, (Vol.)	10M	RI-409P	1.05	99-006	.83		
200, 201, 206, 210, 211, 224, 236, 237, 242, 243, (Vol.)	10M	RI-240	.59	70-205	.61	3E3004	.49
226, 250, 251, 312, 313, (Vol.)	500M	RI-203	.59	72-105	.61	3E3002	.49
260, 261, (Tone Tapped Vol.)	400M + 100M	RI-203	.59	99-006	.83	3E3002	.49
U. S. RADIO & TELEVISION CORP.							
5A, 7D, 25, 25A, 500, 700, (Vol.)	8000	RI-240	.59	72-113	.61	3E3004	.49
2d. 7, 2d. 27P, (Vol.)	8000	RG-678P	.92	99-006	.83	3E3140	.69
7, 7A, 7B, 69, 906, (Vol.)	500M	RI-203	.59	72-105	.61	3E3002	.49
7, 7A, 7B, (Q. A. V. C. Adj.)	200M	RI-281	.59	72-120	.61		
8, 8A, 8B, 10, 10C, 1000, 1001, (Vol.)	1 Meg.	RI-206	.59	72-116	.61	3E3025	.49
7D, 700, 10C, 1000, 1001, (Tone)	200M	RI-281	.59	72-131	.61	3E3025	.49
9, 12, 12B, 19, 120, 120B, 900, 902, 1006, 1007, 1200, (Vol.)	200M	RI-281	.59	72-131	.61		
9, 19, 900, 902, (Q. A. V. C. Adj.)	8000	RI-560	.59	72-114	.61	3E3011	.49
0, 1st. 12, 1st. 12B, 19, 1st. 120, 1st. 120B, 900, 902, 1st. 1200, (Tone)	100M	RI-242	.59	72-122	.61	3E3069	.49
U. S. Radio & Television — con't on next page							

Special Stromberg-Carlson Controls

For Models 635, 636, 638, 10,000 ohm short shaft Vol. Control

RI-32—List. \$1.25. **YOUR PRICE**..... **66c**

10,000 ohm Vol. control with rear extension (Dbl. shaft.) RI-1437—List. \$1.00. **YOUR PRICE**..... **53c**

Models 641, 642, 652, 654 20,000 ohm Vol. Control with long shaft. RI-31—List. \$1.25. **YOUR PRICE**..... **66c**

800 ohm Vol. Control with rear extension (double shaft). R-1436—List. \$1.00. **YOUR PRICE**..... **53c**

Temple Models

8-61, 8-81, 8-91, 5-55.

Twin volume control 15,000 ohms-500,000 ohms. Exactly replaces the original value.

74-515—List. \$3.00. **YOUR PRICE**..... **\$1.47**

United Bosch Models 28, 29.

250,000 ohm volume control with special threaded extended shaft. Identical electrically and mechanically to original.

R-1747—List. \$1.75. **YOUR PRICE**..... **92c**

VOLUME CONTROL GUIDE

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
U. S. RADIO—Cont.							
2D, 12, 2D, 12B, 2D, 120, 2D, 120B, 2D, 12pp, (Vol. Tone Tapped)	500M + 100M	RI-203	\$0.59	72-105	\$0.61	3E3002	\$0.49
2D, 12, 2D, 12B, 28, 29, 31, 31 Remote, 32, 32A, 32B, 48W, 2D, 120, 2D, 120B, 482, 2D, 1200, (Tone)	500M	RI-203	.59	72-105	.61	3E3002	.49
24, 36, 37, 50, 60, 90, 160, 400, (Vol.)	5M	RI-278	.59	70-204	.61	3E3033	.49
Case 80, Case 81, Case 81B, Case 81C, 250, 506, 3040, 3056, (Vol.)	20M	RI-201	.59	72-100	.61	3E3008	.49
1st, 27, 1st, 27P, (Vol.)	1000	RI-276	.59	62-107	.61	3E3011	.49
29, (Vol.)	8000	RI-560	.59	79-006	.61	3E3011	.49
31, 31 Remote, (Vol.)	8000	RI-560	.59	52-205	.61	3E3011	.49
30 Auto, 32, 32A, 32B, 33DC, 49 Auto, (Vol.)	10M	RI-560	.59	72-115	.61	3E3011	.49
11, 11A, 14, 14A, 28, 41, 42, 43, 44, 46, 46A, 47, 47A, 48, 48A, 48W, 482, (Vol.)	400	RI-274	.59	72-118	.61	3E3031	.49
99, 99A, 99B, (Vol.)	8000	RI-560	.59	72-113	.61	3E3011	.49
1006, 1007, (Tone)	50M	RI-205	.59	72-117	.61	3E3022	.49
1010, (Vol.)	500M	RI-203	.59	62-105	.61	3E3002	.49
1010, (Tone)	250M	RI-208	.59	72-121	.61	3E3012	.49
WELLS GARDNER							
WG24, 291, CG, 9 in Line (new) (Vol.)	150M	RI-232	.59	74-509	1.47	3E3141	.73
9 in Line (old)	500M			78-005	.98	3E3142	.49
ZENITH RADIO CORP.							
ZF3, (Vol.)	1000	RI-276	.59	72-107	.61		
35APX, 35PX, 37A, 341, 342, 342P, 352, 352A, 352APX, 352-PC, 362, 362X, (Vol.)	100M	RI-205	.59	62-104	.61	3E3022	.49
27, 39, 39A, 40A, 392, 392A, (Vol.)	100M	RI-771P	.92	62-104	.83		
41, 42, 422, (Vol.)	100M	RI-771P	.92	62-104	.83		
52, 53, 54, 55, 57, 522, 532, 542, (Vol.)	100M	RG-971P	.92	62-042	.98	3E3143	.79
60, 61, 62, 64, 67, (Vol.)	100M	RG-971P	.92	62-044	.98	3E3022	.49
602, 612, 622, 642, 672, (Vol.)	100M	RI-205	.59	62-104	.61	3E3022	.49
70, 71, 72, 73, 77, 712, 722, 732, 777, (Vol.)	11500	RI-1434TP	1.59	75-614	1.47	3E3144	.49
80, 81, 82, 89, 822, 892, Hypermetron, 10, 11, 12, 102, 112, 122, (Vol.)	50M	R-205P	.92	62-042	.98	3E3145	.79
80, 81, 82, 89, 822, 892, Hypermetron, (Tone)	50M	RI-205	.59	72-104	.61	3E3022	.49
1st, 91, 1st, 92, 1st, 912, 1st, 922, 1st, 103, 1st, 2017, 500, 501, 503, 514, 515, 516, 600, 604, 610, 616, 618, 2037, (Vol.)	250M	RI-705P	.92	62-121	.83		
91, 92, 912, 922, (Tone)	50M	RI-205	.59	72-104	.61	3E3022	.49
2d, & 3d, Models of 91, 92, 912, 922, 103, 2014, (Vol.)	250M	RG-706P	.92	62-121	.83		
102, 2014, (Tone)	500M	RI-206	.59	70-203	.61	3E3025	.49
AH, CH, RH, Zenette 8, (Vol.)	10M	RI-720P	.92	52-105	.61	3E3025	.49
AH, CH, RH, Zenette 8, (Tone)	1 Mex.	RI-206	.59	72-116	.61	3E3025	.49
BH, 2018, 2021, (Vol.)	11M	RI-573	.59	52-205	.61	3E3027	.49
LH, MH, WH, 210, 210-5, 211-5, 220, 221, 250, 260, 270-5, 272, 2022, 2024, 2031, (Vol.)	10M	RI-201	.59	52-205	.61	3E3008	.49
LP, (Vol.)	10M	RI-573	.59	52-205	.61	3E3027	.49
BH, LH, MH, WH, 210, 210-5, 211-5, 220, 221, 250, 260, 270-5, 272, 2020, 2021, 2022, 2023, 2024, 2031, (Tone)	500M	RI-205	.59	72-105	.61	3E3022	.49
A, B, C, D, Zenette 6, (Vol.)	50M	RI-205	.59	62-103	.61	3E3022	.49
A, B, C, D, Zenette 6, 2004, (Tone)	50M	RI-205	.59	72-117	.61	3E3022	.49
2009C, Zenette 5, (Vol.)	10M	RI-283	.59	62-100	.61	3E3006	.49
103, 1017, (Tone)	50M	RI-205	.59	72-117	.61	3E3022	.49
2d, & 3d, 103, 2d, & 3d, 2017, (Vol.)				75-503	1.47		
230, 240, 245, 500, 501, 503, 514, 515, 522, 600, 604, 606, 610, 616, 618, 2037, (Vol.)	500M	RI-203	.59	62-106	.83	3E3002	.49
230, 240, 245, 410, 411, 420, 430, 440, (Tone)	50M	RI-205	.59	72-117	.61	3E3022	.49
410, 411, 420, 430, 440, (Tone Tapped Vol.)	3000 + 10M	RI-385	.66				
583D, C, (Vol.)	50M	RI-205	.59	62-103	.83	3E3022	.49
701, (Vol.)	500M	RI-203	.59	62-106	.83	3E3002	.49
333, 353A, (Vol.)	100M	RI-771P	.92	62-104	.83		
27, Super Zenith, (Vol.)	2000	RI-232	.59	72-101	.61	3E3055	.49
3044, 2053, 2054, (Vol.)	500M	RI-948P	.92	62-105	.83		
2052, (Vol.)	500M	RI-947P	.92	62-105	.83		
A5D, L4D, N6S, V6, (Vol.)	500M	RI-812P	.92	62-105	.83		
2047, (Tone)	20M	RI-944P	.92	72-131	.61		
2051, (Vol.)	20M	RI-945	.92	72-131	.61		

Carter Midget Controls

Midget Potentiometer				Midget Rheostat			
Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms
3C3413	6	3C3418	400	3C3403	3	3C3407	20
3C3414	10	3C3419	500	3C3404	6	3C3408	25
3C3415	15	3C3420	1000	3C3405	10	3C3409	30
3C3416	20	3C3421	1500	3C3406	15	3C3410	40
3C3417	200			3C3411	50	3C3412	75

List, Each 50c. **YOUR PRICE** **28c** List Price, 50c. **YOUR PRICE** **28c**

Type M Dissipate 1 Watt

Rheostat Diameter 1 1/2". Potentiometer diam. 1 1/2". Projects back of panel 1/2". Mounts in single 3/4" hole on panels not over 1/4" thick. 1/4" diam. Shaft extends 1 1/2". No knob included.



RADOLEK Heavy Duty Replacement Volume Controls

New Fused Carbon Resistance Carries 5 Watts at Any Setting

Used by leading Set Manufacturers. Especially adapted for use in circuits where excessive dissipation is sufficiently ordinary types of Volume Controls. Will carry 5 watts continuously with arm set at any point of resistor segment. This is nearly 5 times the capacity of the conventional control.

Solid moulded resistor element of bakelite-carbon mixture, formed by baking under terrific pressure. Sliding disc contact of nickel-chrome steel provides perfect low resistance contact to elements. Dustproof rustless steel housing on genuine bakelite frame. Tinned soldering lugs. Dimensions: diameter, 1 1/2", depth back of panel, 1 1/2", hole mounting, 3/8" dia. Threaded shank 3/8" long. Standard 1/2" steel shaft 3" long.

Switch model has Approved AC Switch C-II underwriters mounted on back approved AC snap switch cover-plate. Switch capacity 2 Amp. 125 V., 1/2 Amp. 250 V.

Less Switch **42c** With Switch **58c**

Resist. Ohms	Number Less Switch	Number with Switch	Taper (See Pg. 63)	Taper Curve Num.	Used in Circuit Number (See page 68)
400	3E-3500	3E-3520	Unif.	1	9, 17, 20
1,000	3E-3501	3E-3521	Unif.	1	9, 17, 20
5,000	3E-3503	3E-3523	Unif.	1	4, 9, 8, 20
10,000	3E-3504	3E-3524	L. H.	3	5, 7, 8
10,000	3E-3505	3E-3525	R. H.	4	5, 7, 8
10,000	3E-3506	3E-3526	Unif.	1	4, 9, 10, 11, 19, 20
50,000	3E-3507	3E-3527	Unif.	1	4, 19, 20
100,000	3E-3508	3E-3528	Unif.	1	14
250,000	3E-3509	3E-3529	Unif.	1	14
500,000	3E-3510	3E-3530	Unif.	1	14

Frost Dual Controls High quality tandem units Controls two separate insulated circuits. Uniform taper. Bakelite case diam. 1 1/2", depth 1 1/2", 1 1/2" shaft. 2 1/2" long. Single 3/8" mtg. Without Switch.

Centralab Volume Controls Special value. 3000 ohm Radiolum two terminal type, Case 2 1/2" diam., 3/8" shaft 1 inch long. Single 3/8" mtg. **3E3095—YOUR PRICE..... 18c**

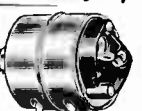
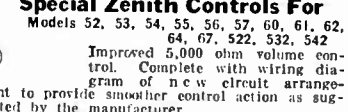
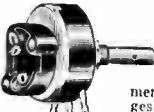
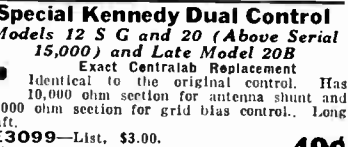
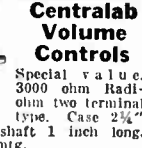
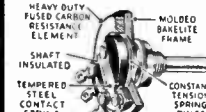
Frost Potentiometer 12,500 ohm. Roller contact. Carbon element. Diameter 1 1/2", depth 5/8", 3/8" shaft 1/2" in. long. Single 3/8" mtg. **3E3098—Your Price 39c**

Special Kennedy Dual Control Models 12 S G and 20 (Above Serial 15,000) and Late Model 20B Exact Centralab Replacement Identical to the original control. Has 10,000 ohm section for antenna shunt and 50,000 ohm section for grid bias control. Long shaft. **3E3099—List, \$3.00. YOUR SPECIAL PRICE..... 49c**

U. S. Radio and Television Corp. Replacement Volume Controls For Late Model Gloritone 27 and 27P Special 8000 ohm volume control with switch. Improved type—electrically identical to original—will give more satisfactory service. **RG678P—List, \$1.75. 92c**

Special Zenith Controls For Models 52, 53, 54, 55, 56, 57, 60, 61, 62, 64, 67, 622, 532, 542 Improved 5,000 ohm volume control. Complete with wiring diagram of new circuit arrangement to provide smoother control action as suggested by the manufacturer. **RG971-P—List, \$1.75. YOUR PRICE..... 92c**

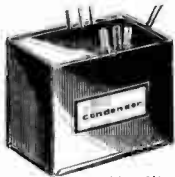
Improved dual volume control 11,500 ohms, 110,000 ohms. Same electrical characteristics as original unit—designed to give improved service. **RI-1434TP—List, \$3.00. YOUR PRICE..... \$1.59**



Exact Duplicate Replacement Condensers

Paper Foil Type Unless Otherwise Specified

ATWATER KENT Condenser Blocks



Models
37 and 38
Including
Chokes
P5100
YOUR
PRICE
\$1.69

Contains 3 mfd. filter block and 3 chokes. Two high voltage filter chokes and one speaker choke. Six color coded insulated leads and ground terminal. Size 5x1 1/2x3 1/2".

Part No. 9575 for Battery Set 25 mfd. bypass condenser size 3x2 3/4x3/4. Two leads.

P5180—List. \$1.25.
YOUR PRICE **71¢**

Part No. 9497 for Models 37, 38, 39, 40, 42, 46, 52

25-25-25 mfd. bypass condenser size 3x2 3/4x3/4. Three leads.

P6497—List. \$1.50.
YOUR PRICE **59¢**

Part No. 14097 for Models 55, 55C, 55F

25 mfd. bypass condenser size 3 1/2x1 1/2x1 1/2. Two lug terminals.

P5930—List. \$1.25.
YOUR PRICE **71¢**

Part No. 16318

.35 mfd. bypass size 3 1/2x1 1/2x1 1/2. Two lug terminals.

P2767—List. \$1.15.
YOUR PRICE **65¢**

Bypass for Model 35

2 mfd. bypass size 3 1/2x1 1/2x1 1/2. One insulated flexible lead.

P7507—List. \$1.25.
YOUR PRICE **71¢**

EVEREADY Model 50 AC

Part No. 2832



P5698—List. \$1.75.
YOUR PRICE **86¢**

25-25-25 mfd. bypass condenser. Will exactly replace part number 2832 in Model 50 AC—Size 2x2x1 inch. Three lug terminals.

PHILCO Filter Condenser



Model 87
Part 3401
P7237—YOUR PRICE **\$2.45**

Exact duplicate of original part with greater margin of safety. Has 8 sections as follows: 1-.01 Mfd. 600 V., 1-1 Mfd. 400 V., 1-2 Mfd. 200 V., 1-1 Mfd. 200 V., 1-1 Mfd. 400 V., 2-2 Mfd. 600 V., and 1-1 Mfd. 600 V. Rectangular metal container 5 1/2x1 1/2x2 3/4. Mounting centers 4-9.10x2 1/2.

Philco Midget Electrolytic

Part No. 10709

4-8 mfd. 350 working volts. Drawn rectangular metal container with mounting flange. Size 3 1/2x1 1/2x3/4 inches. Mounting centers 1 1/2". Three insulated 11" flexible leads, color coded.

3E9000—List. \$1.45.
YOUR PRICE **85¢**

FADA Filter Condenser



Models 70, 78
Duplicates the original Part No. 1492 MS. Total Capacity. 10.5 Mfd.

P1492MS—List. \$9.00
YOUR PRICE **\$3.15**

MAJESTIC Filter Condensers

Models
7P6
8P6
9P6



Exact duplicate Majestic replacement condenser block built to the original specifications they fit exactly and will give better service due to increased safety factors. All terminals plainly marked.

Part No. 7P6 for Model 70

Total 9 mfd. Five lug terminals. Container 9x1x2 1/2 inches.

7P6—List. \$9.00.
YOUR PRICE **\$1.90**

Part No. 8P6 for Model 180

Chassis 8P3 and 8P6 Power Packs

Total 9 mfd. Six lug terminals. Container 9x4x2 1/4 inches.

8P6—List. \$12.00.
YOUR PRICE **\$3.70**

Part No. 9P6 for Model 90

Power Packs

Total 7 mfd. Six lug terminals. Container 9x1x2 1/2 inches.

9P6—List. \$9.00.
YOUR PRICE **\$1.90**

Majestic By-Pass 350 D. C. Working Volts

Part 5047—.05 mfd. bypass 1 1/2x1 1/2x1 1/2. P1382—List. \$0.50.
YOUR PRICE **28¢**

Part 5049—.4 mfd. bypass. 1 1/2x1 1/2x1 1/2. P1398—List. \$0.65.
YOUR PRICE **27¢**

Part 5050—.6 mfd. bypass. 2x1 1/2x1 1/2. P1393—List. \$0.85.
YOUR PRICE **54¢**

Part 5140—.2 mfd. bypass. 1 1/2x1 1/2x1 1/2. P1394—List. \$0.55.
YOUR PRICE **31¢**

Part 5230—.01 mfd. bypass. 2x1 1/2x1 1/2. P1406—List. \$0.20.
YOUR PRICE **11¢**

Part 5231—.005 mfd. bypass. 2x1 1/2x1 1/2. P1405—List. \$0.20.
YOUR PRICE **11¢**

Part 5233—.1 mfd. bypass. 2x1 1/2x1 1/2. P1409—List. \$0.20.
YOUR PRICE **11¢**

Part 5234—.1 mfd. bypass. 2x1 1/2x1 1/2. P1408—List. \$0.20.
YOUR PRICE **11¢**

Part 5236—.02 mfd. bypass. 2x1 1/2x1 1/2. P1407—List. \$0.20.
YOUR PRICE **11¢**

Majestic Replacement Electrolytic

Part No. 10662

6-8 mfd. 450 V.W. Cardboard Container 4 1/2x1 1/2x1 1/2. Three lug terminals. Exact duplicate of the dual section used in the late Majestic.

3E9000—List. \$1.50.
YOUR PRICE **88¢**

Majestic Pirate Chest

Models 380-381

Part No. 8755

1-8 mfd. 450 V.W. electrolytic condenser. Cardboard container 4 1/2x1 1/2x1 1/2. Four lug terminals.

3E9002—List. \$1.35.
YOUR PRICE **79¢**

Majestic Electrolytic Replacement

6-8 mfd. 450 V.W. Round aluminum container. Inverted stud mounting; container neg. Mounts in single 3" hole. Large lock nut clamps securely to chassis. Container 1 1/2x1 1/2x1 1/2. Two 10" insulated flexible leads.

3E9003—List. \$1.55.
YOUR PRICE **91¢**

CROSLLEY Replacements

Midget
Electrolytic
Travette 95, 163
Part W25857B



Two sections 8 mfd., 200 volts—8 mfd. 25 volts. Cardboard container 2 1/2x1 1/2x1 1/2. Three lug terminals.

3E9004—List. \$1.10.
YOUR PRICE **53¢**

Crosley Fiver 148, 167, 187
Part W27488

Two section 6 mfd. 300 volts—8 mfd. 25 volts. Cardboard container 2 1/2x1 1/2x1 1/2. Three lug terminals.

3E9005—List. \$1.10.
YOUR PRICE **56¢**

Crosley Travette and
Dual Travette
Part W26870A

8 mfd. 25 volts. Cardboard container 2 1/2x1 1/2x1 1/2. Two lug terminals.

3E9006—List. \$0.60.
YOUR PRICE **35¢**

Crosley Models
163, 400, 402
Part W28068

12 mfd. 200 volts. Cardboard container 2 1/2x1 1/2x1 1/2. Two lug terminals.

3E9007—List. \$0.95.
YOUR PRICE **56¢**

Crosley Model 167, 169
Part W29150A

Triple section 7 mfd. 450 V.W., 6 mfd.—400 V.W., 8 mfd. 25 V.W. Inverted aluminum container, stud mounting for single 7/8" hole. Container common negative. Size 1 1/2x1 1/2. Three lug terminal.

3E9008—List. \$1.90.
YOUR PRICE **\$1.12**

Part W30419

Dual section electrolytic 8 mfd. 250 V.W.—8 mfd. 25 V.W. Inverted aluminum container, stud mounting for single 7/8" hole. Container insulated. Size 3 1/2x1 1/2. Two positive lug terminals; one common negative lug terminal.

3E9009—List. \$1.10.
YOUR PRICE **65¢**

U. S. Radio & Television Filter

Part No. 733 for Model 41 Receiver

Total capacity 4.5 mfd. Insulated color coded leads. Dimensions: height 5", width 2 1/2", depth 2 1/2". 4 mounting bolts at bottom, 1/2" long for 1 1/2"x1 1/2" mounting hole centers.

P733—List. \$1.95.
YOUR PRICE **\$1.95**

U. S. Radio Apex Model 37

Part 854

5.5 mfd. filter condenser size 5x3 1/2x2. Eight lug terminals. Exactly duplicates the original condenser block—built with a greater safety factor.

P4322—List. \$5.00.
YOUR PRICE **\$2.82**

U. S. Radio Model 26 Apex Gloritone

Part 2235

Special multiple section bypass, 1-1-1-4-1-1-1. Size 4 1/2x2 1/2x1 1/2. Exact duplicate of the original part. Eight insulated flexible leads and one lug terminal.

P7530—List. \$3.00.
YOUR PRICE **\$1.69**

U. S. Radio and Television Models 46, 47—Part No. 975

Total capacity 5.6 mfd. 5 insulated color coded 12" leads. Appearance and dimensions exactly the same as the above filter condenser.

P975—List. \$1.75.
YOUR PRICE **\$1.75**

Crosley Part B30017

Dual section 4-8 mfd. electrolytic condenser. Round aluminum container. Insulated. Size 4 1/2x1 1/2. Complete with mounting ring. Two positive lug terminals; one common negative lug terminal.

3E9010—List. \$1.45.
YOUR PRICE **85¢**

Crosley Paper and Foil Replacement Condensers

Model 77 Part W20446

1-.5-1 filter size 2x2x1 1/2. Three lug terminals.

P5754—List. \$1.50.
YOUR PRICE **63¢**

Model 54 Part W7753

1-.5-1 Bypass size 2x2x1 1/2. Three lug terminals.

P5832—List. \$1.50.
YOUR PRICE **48¢**

Part W6428—.5-5 Bypass 2x1 1/2x1 1/2. Three lug terminals.

P5896—List. \$1.25.
YOUR PRICE **52¢**

Part W21456—1-1-1-1 Bypass 2x1 1/2x1 1/2. Three lugs and one lead.

P5897—List. \$1.00.
YOUR PRICE **56¢**

Part W5496—.1 Bypass 1 1/2x1 1/2. Two lug terminals.

P5898—List. \$0.50.
YOUR PRICE **28¢**

Part W20186—.25-3-.25 Bypass 2x2 1/2x1 1/2. Three lug terminals.

P7088—List. \$1.75.
YOUR PRICE **75¢**

Part W22412—1-1-1-1-1 Bypass 2x1 1/2x1 1/2. Four lug terminals.

P7399—List. \$1.10.
YOUR PRICE **46¢**

Part W23736—.25-.5-.25 Bypass 2 1/2x2 1/2. Four lug terminals.

P7536—List. \$1.50.
YOUR PRICE **75¢**

SPARTON Filter Condenser Blocks

Constructed to duplicate the specifications of the original blocks. Equal or superior to the original units. Wherever possible, the safety margins have been increased.

AC62—(Illustrated) for receivers AC62, AC7 and AC63. Total capacity 9 mfd. 7 color coded 15" leads. Dimensions: Length 7", width 3 1/2", depth 2 1/2". Mounting screws are 1/2"x3/4" for 3/4"x2" mounting hole centers.

P79A—For models AC69A, 79A, 89, and 78A. Total capacity 6.1 mfd. 8 color coded 10" leads. Dimensions: 5 1/2" high, 3 1/2" wide, 2 1/2" deep. 2 1/2" mounting hole centers.

P79A—For models AC69A, 79A, 89, and 78A. Total capacity 6.1 mfd. 8 color coded 10" leads. Dimensions: 5 1/2" high, 3 1/2" wide, 2 1/2" deep. 2 1/2" mounting hole centers.

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P79A—For models AC69A, 79A, 89, and 78A. Total capacity 6.1 mfd. 8 color coded 10" leads. Dimensions: 5 1/2" high, 3 1/2" wide, 2 1/2" deep. 2 1/2" mounting hole centers.

P79A—For models AC69A, 79A, 89, and 78A. Total capacity 6.1 mfd. 8 color coded 10" leads. Dimensions: 5 1/2" high, 3 1/2" wide, 2 1/2" deep. 2 1/2" mounting hole centers.

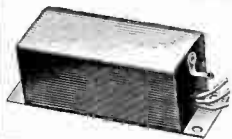
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Exact Duplicate Replacement Electrolytic Condensers for Midget Sets



Part Num. 6487, for Victor Models 37, 38, 120, 220; Gen-Elec., K63.
An exact duplicate of the original in electrical and physical specifications. 4-4 mfd., 350 volts; 10 mfd., 150 volts; 4 mfd., 25 volts. Cardboard container. $3\frac{3}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$ " with mounting flange, 3 leads, 2 lugs.
3E9012—List. \$3.10.
YOUR PRICE \$1.82

Part Num. 7589, for Victor Models 28, 110, 111, 115; G-E Models K52, K53, K58.

3E9013—
List. \$1.75
Your Price
\$1.03



Greater safety factor than the original. Will stand up. 3 mfd., 150 V.; 4 mfd., 450 v. Cardboard container with mounting tabs. $3\frac{3}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$ ".

Part Num. 6518, for Victor Models 22W, 22S; G-E Models L50, L51

3E9014—
List. \$1.55
Your Price
93¢

Six inch flexible leads, color coded same as original. 8 Mfd., 250 V. Cardboard container with mounting tab. $3\frac{3}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$ ".

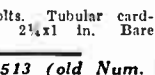
Part Num. 6118 RCA Victor 22W, 22S G-E Models L50, L51

3E9015—List. \$1.60.
Your Price
94¢

10-8 mfd. 35 v. 4 mfd. 250 v. Cardboard container. $3\frac{3}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Single mounting tab. Five inch color coded flexible leads, insulated.

Part Num. 3538 RCA Victor 17M, 18W, 27 G-E Model K40A

3E9016—
List. \$1.00.
Your Price
59¢



4-4 mfd. 140 volts. Tubular cardboard container. $2\frac{1}{2} \times 1$ in. Bare flexible leads.

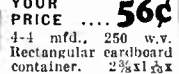
Part Num. 6513 (old Num. 3536) RCA Victor 17M, 18W, 27 General Electric K40A

3E9017—List. 75¢.
Your Price
44¢

5-5 mfd. 35 volts. Tubular cardboard container, $2\frac{1}{2} \times 1$ in. Bare flexible leads.

Part Num. 66143, for RCA Victor Model R28P

3E9018—
List. 90¢.
Your Price
53¢



4 mfd. 150 v. 4 mfd. 300 v. Cardboard container. $2\frac{3}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. with mounting tabs. Lug terminals.

RCA Victor Part Num. 10711

3E9019—List 95¢.
Your Price
56¢

4-4 mfd., 250 v.w. Rectangular cardboard container. $2\frac{3}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Lug terminals.

RCA Victor Part Num. 66140

3E9020—List. \$1.55.
Your Price
91¢

4-4 mfd., 175 v.w. Tubular cardboard container. $1\frac{1}{2} \times 3\frac{1}{2}$ in. long. Flexible bare wire leads. Used in a number of RCA Victor A.C.-D.C. and compact receivers.

RCA Victor Part Num. 66140-2

3E9021—List Price, \$1.15.
Your Price
67¢

5-5 mfd. 35 v.w. Tubular cardboard container. $1\frac{1}{2} \times 3\frac{1}{2}$ in. long. Flexible bare wire leads.

Gillfillian Part Num. 10267

3E9031—
List. \$1.35.
Your Price
79¢

16-8 mfd. 150 working volts. Cardboard container with mounting tabs. $4\frac{1}{2} \times 2\frac{1}{2}$ in.

Part Num. A407, for International Kadette Standard Model

3E9022—
List. \$1.00.
Your Price
59¢



4-4 mfd., 175 v. Cardboard container. $3\frac{3}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Color coded insulated flexible wire leads.

Part Num. A408, for Kadette Standard Model

3E9023—
List. 75¢.
Your Price
44¢



5-5 mfd. 35 volt. Cardboard container. Color coded flexible insulated leads. Exactly duplicates the original part.

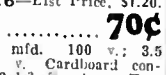
Part Num. A424, for International Kadette Models A and B

3E9024—
List. \$2.10.
Your Price
\$1.23

4-10-10 mfd.—175 v. Cardboard container. $3\frac{3}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Color coded flexible insulated leads.

Kadette Part Num. 10627

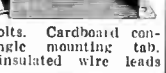
3E9025—List Price, \$1.20.
Your Price
70¢



3-3 mfd. 100 v.w. 3 mfd. 15 v. Cardboard container. $2\frac{3}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Color coded flexible insulated 12" leads.

Part Num. HC31 for Emerson Models 20A, 25, 25A.

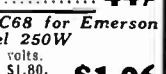
3E9027—
List. \$1.00.
Your Price
59¢



3-5-3.5 mfd. 100 v.; 3.5 mfd. 25 v. Cardboard container. $2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Four color coded 5 inch flexible insulated wire leads.

Part Num. HC32 for Emerson Models 20A, 25, 25A

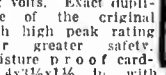
3E9028—List. 75¢.
Your Price
44¢



4-4 mfd. 200 volts. Cardboard container with single mounting tab. Three flexible insulated wire leads color coded.

Part Num. KC68 for Emerson Model 250W

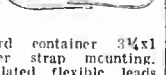
3E9035—List. \$1.80.
Your Price
\$1.06



4-8-16 mfd. 175 volts. Three insulated flexible leads, color coded.

Colonial Model R9150

3E9029—
List. \$2.35.
Your Price
\$1.38



8-8-8 mfd. 200 working volts. Exact duplicate of the original with high peak rating for greater safety. Moisture proof cardboard container. $4\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ in. with mounting lugs identical to the original unit. Six insulated flexible color coded leads.

Colonial Model R9181

3E9030—
List. \$1.00.
Your Price
59¢

16 mfd. 150 working volts. Tubular cardboard container. $3\frac{3}{4} \times 1\frac{1}{2}$ inch with center strap mounting. Seven inch insulated flexible leads each end.

MALLORY MELKON



Dry Electrolytic Replacement Condensers

Surge-proof and "self-healing." Withstand high operating temperatures—absolutely dry—may be mounted in any position.

Tubular Aluminum Containers

A Type for Every Replacement Job

High capacity available in the minimum amount of space. Furnished in universal upright or inverted containers. Dry electrolytic.

Negative terminals grounded to can. Standard container size for all capacities. Inverted types furnished with lugs or 6" leads, mounted in $\frac{3}{4}$ " hole. D. C. working voltage 450 V.

Stock Number	Cap. Mfd.	List Price	Your Price
3D5640	4-4	\$0.76	94
3D5641	8-8	1.60	94
3D5642	8-8-8	2.70	1.59
3D5643	9-9-18	3.75	2.20
	8-8-8-8	3.60	2.12

Multiple Section Filters

Working Voltage 450 V. D. C.

Round Aluminum Containers

Binding post and lug connections for positive and negative. Container is common negative. All are 4 3/8" high. 8-8 size is 2 1/2" diam. All others are 3" diam.

Stock Number	Capac. Mfd.	List Price	Your Price
3D5652	4-4	\$1.30	\$0.76
3D5653	8-8	1.60	94
3D5654	8-8-8	2.70	1.59
3D5655	9-9-18	3.75	2.20
3D5656	8-8-8-8	3.60	2.12

Dry Electrolytic By-Pass Condensers

Cardboard Containers

Especially suitable to replace "blown" paper by-pass filter sections. Very compact. Container dimensions 1 1/2" thick; 1 1/2" wide; 2 3/8" long. Solder lug connections.

Stock Number	Cap. Mfd.	Working Volts D. C.	Your Price Each
3D5671	.5	450	29¢
3D5672	1.0	450	32¢
3D5673	2.0	450	38¢
3D5674	4.0	450	38¢
3D5675	8.0	150	43¢
3D5676	8.0	200	47¢
3D5677	10.0	100	47¢
3D5678	25.0	50	47¢
3D5679	10.0	25	29¢
3D5680	20.0	25	35¢

Dry Electrolytic Filter Condensers

Cardboard Containers Working Voltage 450 Volts D. C.

Length of single units 4 1/4" by 1 1/2" wide. Dual units 4 1/4" long by 1 1/2" wide. Six inch, color coded, flexible insulated wire leads.

Stock Number	Cap. Mfd.	Container Depth	Your Price Each
3D5662	2	1 1/2"	38¢
3D5663	6	1 1/2"	44¢
3D5664	6	1 1/2"	63¢
3D5665	8	1 1/2"	66¢
3D5666	4-4	1 1/2"	70¢
3D5667	4-8	1 1/2"	79¢
3D5668	6-8	2	88¢
3D5669	8-8	2	88¢

Tubular By-Pass Condensers

In Cardboard Tubes

Replacement cartridge type dry electrolytic condensers. Sealed with special wax to withstand high temperature. 2 inch flined leads will not pull out. Length 2 1/2". Diameter 5/8" to 1 1/4".

Stock Number	Cap. Mfd.	Volts D. C.	Your Price
3D5681	50	5	44¢
3D5682	10	25	29¢
3D5683	25	25	38¢
3D5684	10	50	38¢
3D5685	25	50	47¢
3D5686	5	100	32¢
3D5687	10	100	41¢
3D5688	25	100	56¢
3D5689	4	150	35¢

Wurlitzer Part Num. 11007

3E9032—
Your Price
44¢

10-10 mfd. 25 v.w. Round aluminum container with center mounting stud. Common negative. Lug terminals. Container $1\frac{1}{2} \times 1\frac{1}{2}$ in.

Wurlitzer Part 10656

3E9033—
Your Price
\$1.12

12-16 mfd. 150 v.w.; 10 mfd. 25 v.w. Cardboard container. $2\frac{3}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Four flexible insulated leads.

Lyric Part No. 10678PE

3E9034—List. \$1.25.
Your Price
72¢

4-8 mfd. 300 working volts. Cardboard container. $3\frac{1}{2} \times 1\frac{1}{4}$ in. Three flexible insulated leads color coded.

Keystone Dry Electrolytic Condensers

Fully Guaranteed—Built to Give Constant Capacity

Keystone is the Radolek Trademark for Selected Quality Products built by Prominent Manufacturers to Radolek Laboratory Specifications. Keystone Condensers are Fresh New Dry Electrolytic capacity units guaranteed for Full Capacity and Rated Voltage. Each type and size has been selected after careful test to have the lowest power factor, the greatest safety factor, and the longest life under extreme conditions. From the many production samples submitted for test, Radolek Engineers selected the best type in each size. Samples of each shipment are tested to maintain the highest standards. When you buy Keystone Condensers you receive the "cream" of the best manufactured products at the lowest honest prices.

New Universal Replacement

Aluminum Case and Leads Insulated

450 D.C. Working Volts
500 D.C. V. Peak Surge
Suitable for all replacements where inverted aluminum container type is required. If grounded container is desired the negative lead may be connected directly to the chassis.

3E5701—4 Mfd. Can size, 1 3/8"x2 1/2" List. 85c.
YOUR PRICE 40c

3E5703—8 Mfd. Can size, 1 3/8"x4 1/2" List. \$1.05.
YOUR PRICE 47c

Dry Electrolytic

In New Tab Type Fibreboard Cases

450 D.C. Working V.
500 D.C. V. Peak.

Mounting tab at each end facilitates installation. Tabs may be cut off without damage to unit, if not needed. 2 wire leads, 1-Neg., 1-Pos.

3E5760—4 Mfd. 1-3/16"x1 1/2"x5/8" List. 75c.
YOUR PRICE 35c

3E5762—8 Mfd. Case 1 3/8"x1 1/2"x3/4" List. 95c.
YOUR PRICE 42c



Multiple Section Dry Replacements

Top Connected—475 D.C. Working Volts

Universal replacement for upright, top-connected wet electrolytics. Aluminum Container. Complete with Mtg. rings.

Capy. Mfd. at Anodes	Container Size Inches	Stock Number	Your Price
8-8	2 1/2"x4 1/2"	3E5740	\$0.87
5-15	2 1/2"x4 1/2"	3E5742	1.10
8-8-8	3"x4 1/2"	3E5744	1.28
9-9-18	3"x4 1/2"	3E5745	1.78

Dry Electrolytics with Lugs

In New Tab Type Fibreboard Cases

450 D.C. Working Volts—500 D.C. V. Peak

Moisture-proof containers. Mounting tabs at each end simplify installation. Soldering lug terminals—1-Pos., 1-Neg.

Cap. Mfd.	Size of Container	Stock Number	List Price	Your Price	Ten For
2	2 1/2"x1 1/2"x3/4"	3E5755	\$0.65	\$0.28	\$2.65
4	4 1/2"x1 1/2"x3/4"	3E5756	.75	.35	3.30
6	4 1/2"x1 1/2"x3/4"	3E5757	.90	.39	3.70
8	4 1/2"x1 1/2"x3/4"	3E5758	.95	.42	3.95

Dry Electrolytics with Leads

In New Tab Type Fibreboard Cases

450 D.C. Working Volts—500 D.C. V. Peak

Moisture proof containers with mounting tabs on each end. 6" No. 18 wire leads with high voltage insulation. 1-Pos., 1-Neg.

Cap. Mfd.	Depth Container	Stock Number	List Price	Your Price	Ten For
2	2 1/2"x1 1/2"x3/4"	3E5759	\$0.65	\$0.28	\$2.65
4	4 1/2"x1 1/2"x3/4"	3E5760	.75	.35	3.30
6	4 1/2"x1 1/2"x3/4"	3E5761	.90	.39	3.70
8	4 1/2"x1 1/2"x3/4"	3E5762	.95	.42	3.95
12	4 1/2"x1 1/2"x1/2"	3E5763	1.40	.62	5.90

Aluminum Case Inverted Stud Mounting

Case Negative—450 D.C. Working Volts—500 D.C. Volts Peak
Hermetically sealed. Unaffected by temperature. For single 5/8" hole mounting. Anode projects through threaded insulated terminal.

Cap. Mfd.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
2	1 3/8"x2 1/2"	3E5705	\$0.75	\$0.35	\$3.39
4	1 3/8"x2 1/2"	3E5706	.85	.39	3.85
6	1 3/8"x4 1/2"	3E5707	1.00	.45	4.27
8	1 3/8"x4 1/2"	3E5708	1.05	.47	4.47
12	1 3/8"x4 1/2"	3E5709	1.60	.67	6.40

Dual Sections—Container Common Negative

Two Positive lug terminals project from insulated nipple.

Cap. Mfd.	Total Cap.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
4-4	8	1 3/8"x4 1/2"	3E5710	\$1.30	\$0.60	\$5.75
6-6	12	1 3/8"x4 1/2"	3E5711	1.55	.73	6.95
8-8	16	2 1/2"x4 1/2"	3E5712	1.60	.91	8.64

All-Purpose Dry Electrolytic, Aluminum Case

450 D.C. Working Voltage—500 D.C. Volt Peak—Container and Leads Insulated
Both positive and negative leads are brought out through insulated threaded nipple. If grounded container is required Neg. lead may be soldered to chassis. For single 5/8" hole Mtg. Locknut for clamping to chassis.

Cap. Mfd.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
2	1 3/8"x2 1/2"	3E5700	\$0.75	\$0.36	\$3.45
4	1 3/8"x2 1/2"	3E5701	.85	.40	3.85
6	1 3/8"x4 1/2"	3E5702	1.00	.46	4.35
8	1 3/8"x4 1/2"	3E5703	1.05	.47	4.47
12	1 3/8"x4 1/2"	3E5704	1.60	.69	6.55

Dual Sections—Container Insulated

Three insulated leads: two positive, one common negative

Cap. Mfd. at Anodes	Total Cap.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
4-4	8	1 3/8"x4 1/2"	3E5713	\$1.30	\$0.62	\$5.90
6-6	12	1 3/8"x4 1/2"	3E5714	1.55	.75	7.15
8-8	16	2 1/2"x4 1/2"	3E5715	1.60	.99	9.49

New One-Inch Diameter Aluminum Cases

Compact for Small Receivers

450 D.C. Working Volts 500 Volts D.C. Peak

For use where mounting space is limited. The one-inch diameter containers will fit most midjet and compact receivers. Inverted container for single 5/8" hole mounting. Container negative. Positive lug terminal.

Cap. Mfd.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
2	1x2 1/2"	3E5716	\$0.75	\$0.35	\$3.39
4	1x2 1/2"	3E5717	.85	.40	3.85
6	1x4 1/2"	3E5718	1.00	.46	4.35
8	1x4 1/2"	3E5719	1.05	.48	4.60

Low Voltage Electrolytic Condensers

For C Bias Circuits

Aluminum container with mounting bolt and nut at bottom. Fits 1/4" hole. Container negative. Positive connection on top with soldering lug.

Cap. Mfd.	Work Volt	Peak Volt	Container Size	Stock Number	List Price	Your Price	Ten For
5	25	35	1 3/8"x3/4"	3E5730	\$0.60	\$0.25	\$2.34
5	50	75	1 3/8"x3/4"	3E5731	.65	.29	2.72
10	25	35	1 3/8"x1 1/2"	3E5732	.70	.29	2.72
10	50	75	1 3/8"x1 1/2"	3E5733	.80	.31	2.90
20	25	35	1 3/8"x1 3/4"	3E5734	.95	.35	3.29
20	30	50	1 3/8"x1 3/4"	3E5735	1.05	.41	3.85
30	30	50	1 3/8"x1 3/4"	3E5736	1.20	.41	4.20



Multiple Dry Electrolytics—Metal Containers

Inverted rectangular metal cases, completely insulated. Each section is separate and each has separate positive and negative leads. Leads are No. 18 flexible stranded 6 in. long; high voltage insulation. Condensers hermetically sealed—not affected by temperature variations.

Capacity Sections	Total Cap.	Depth Container	Stock Number	List Price	Your Price	Ten For
4-4	8	4 1/2"x1 1/2"x3/4"	3E5780	\$1.30	\$0.67	\$6.35
4-6	10	4 1/2"x1 1/2"x1/2"	3E5781	1.40	.72	6.80
4-8	12	4 1/2"x1 1/2"x1/2"	3E5782	1.45	.77	7.30
6-6	12	4 1/2"x1 1/2"x1/2"	3E5783	1.55	.79	7.45
6-8	14	4 1/2"x1 1/2"x1/2"	3E5784	1.60	.82	7.75
8-8	16	4 1/2"x1 1/2"x1/2"	3E5785	1.60	.87	8.25
4-4-4	12	4 1/2"x2 1/2"x1/2"	3E5786	2.55	.95	8.95
4-6-6	18	4 1/2"x2 1/2"x1/2"	3E5787	2.65	1.15	10.90
8-8-8	24	4 1/2"x2 1/2"x1/2"	3E5788	2.70	1.29	12.15

Small Ribbed Aluminum Container

450 D.C. Working Volts—600 Volt D.C. Peak

Corrugated surface provides a greater heat dissipating area for cooler operation and higher efficiency. Smaller containers and higher working voltage are possible with this unique design. For single 3/16" hole mounting. Container negative.

Cap. Mfd.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
4	1 1/8"x2	3E5720	\$1.05	\$0.44	\$4.15
6	1 1/8"x3 1/2"	3E5721	1.20	.53	4.70
8	1 1/8"x3 1/2"	3E5722	1.25	.56	5.30

Voltage Doubling Dual Sections

Fibreboard Cases—220 Volt D.C. Peak

Especially designed and matched for voltage doubling circuits employing 2525 or similar type tubes. Have pos.-neg. (neutral) common lead. Flexible 6 inch insulated wire leads.

Capacity Sections	Container Size	Stock Number	List Price	Your Price	Ten For
10-10	4 1/2"x1 1/2"x1 1/2"	3E5789	\$1.35	\$0.67	\$6.36
12-12	4 1/2"x1 1/2"x1 1/2"	3E5790	1.45	.72	6.84
16-16	4 1/2"x1 1/2"x1 1/2"	3E5791	1.65	.85	8.07

KEYSTONE Electrolytic Condensers

All Dry—Built to Give Constant Capacity

Dry Electrolytics in Round Metal Cases With Flush Lug-Type Mounting Screws

450 D.C. Working Volts—500 Volt Peak
Container Insulated—Leads Insulated

Round aluminum container with lug type $\frac{1}{2}$ stud riveted flush with sides of case. Mounting centers $1\frac{1}{4}$ ". For inverted mounting where studs must clear material beneath chassis. Container insulated. Six inch flexible leads; high voltage rubber and braid insulation. Where grounded container is desired the negative lead should be grounded direct to chassis.

Cap. Mfd.	Polarity Leads	Container Size Inches	Stock Number	List Price	Your Price	Ten For
2	1N-1P	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5723	\$0.85	\$0.39	\$3.70
4	1N-1P	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5724	.95	.44	4.17
4	1N-1P	1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5725	1.25	.51	4.85
4-4	1N-2P	1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5726	1.50	.64	6.12
4-8	1N-2P	1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5727	1.65	.77	7.30
8-8	1N-2P	2 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5728	1.80	1.02	9.76



Dry Electrolytics in Tubular Fibreboard Case With Flush Lug-Type Mounting Screws

450 D.C. Working Volts—500 Volt Peak

Moisture-proof tough fibre board tubular containers sealed with high melting point compound. Stranded flexible 6 inch leads with high voltage rubber and braid insulation. Leads fitted for easy soldering. Lug type $\frac{1}{2}$ mounting studs riveted flush with sides of container. Mounting centers $1\frac{1}{4}$ ".

Cap. Mfd.	Polarity Leads	Container Size Inches	Stock Number	List Price	Your Price	Ten For
2	1N-1P	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5749	\$0.75	32c	\$3.04
4	1N-1P	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5750	.85	39c	3.70
4	1N-1P	1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5751	1.50	45c	4.33
4-4	1N-2P	1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5752	1.30	57c	5.45
4-8	1N-2P	1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5753	1.45	69c	6.62
8-8	1N-2P	2 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5754	1.60	77c	7.40



Dry Replacement Electrolytics—Universal Upright

Top Connected—Complete with Mounting Brackets

450 D.C. Working Volts—500 Volt Peak
These multiple section dry electrolytics are very popular for replacement of wet electrolytics used in earlier model receivers. Each section is a separate condenser and all negative terminals are grounded to the aluminum container. Hermetically sealed against moisture. Unaffected by wide temperature variations. Solder-lug terminals. Complete with mounting bracket.

Capacity Section	Total Cap.	Container Size	Stock Number	List Price	Your Price	Ten For
4	4	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5737	\$0.85	\$0.39	\$ 3.77
8	8	1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5738	1.05	.47	4.47
12	12	1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5739	1.60	.72	6.80

Dual Sections

8-8	16	2 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5740	1.80	.87	8.25
9-9	18	2 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5741	2.00	1.05	9.95
5-15	20	2 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5742	2.30	1.10	10.40

Triple Sections

2-4-8	14	1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5743	2.00	1.05	9.95
8-8-8	24	3" x4 $\frac{1}{2}$ "	3E5744	2.70	1.29	12.15
9-9-18	36	3" x4 $\frac{1}{2}$ "	3E5745	3.75	1.79	16.90

Quadruple Sections

8-8-8-8	32	3" x4 $\frac{1}{2}$ "	3E5746	3.60	1.65	15.65
8-8-18-18	52	3" x4 $\frac{1}{2}$ "	3E5747	4.75	2.49	23.60
9-9-18-18	54	3" x4 $\frac{1}{2}$ "	3E5748	5.25	2.55	24.25

Dry Electrolytic Condensers In Tubular Fibreboard Containers

Wax impregnated moisture-proof tubes hermetically sealed. 2" bare solid wire flexible leads. One lead negative, one positive. For bypass, filter and C Bias these tubulars provide high capacity at low cost.

Cap. Mfd.	Work Volts	D.C. Peak	Size Lgth.-Dia.	Stock Number	List Price	Your Price	Ten For
0.5	300	400	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5792	\$0.45	\$0.16	\$1.50
0.5	400	500	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5793	.55	.19	1.82
1	300	400	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5794	.50	.24	2.20
1	400	500	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5795	.65	.27	2.57
2	400	500	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5796	.65	.31	2.85
2	500	600	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5797	.75	.33	3.19
4	400	500	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5798	.75	.35	3.34
1	200	250	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5799	.50	.22	2.10
2	200	250	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5800	.55	.24	2.28
2	125	175	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5801	.55	.22	2.95
4	125	175	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5802	.60	.24	2.20
6	125	175	1" x2 $\frac{1}{2}$ "	3E5803	.70	.29	2.76
8	125	175	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5804	.75	.31	2.95
10	125	175	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5805	.85	.33	3.15



Special Dry Electrolytic Condensers

In Fibreboard Containers
450 D.C. Working Voltage

Special value dry electrolytics of considerably better quality than usually offered at these prices. Full capacity and safely rated but not the same grade as Keystone Condensers. Moisture-proof containers. Six inch insulated wire leads.

Cap. Mfd.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
2	2 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5860	\$0.65	\$0.23	\$2.15
4	4 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5861	.75	.26	2.50
4	4 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5862	.95	.30	2.90
4-4	4 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5863	1.20	.47	4.45
8-8	4 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5864	1.50	.55	5.25
8-8-8	4 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5865	1.90	.89	8.40



Low Voltage Tubular Dry Electrolytics



Cap. Mfd.	Work Volts	D.C. Peak	Size Lgth.-Dia.	Stock Number	List Price	Your Price	Ten For
25	75	100	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5806	\$0.95	\$0.45	\$4.25
50	75	100	2 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5807	1.35	.59	5.60
5	50	75	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5808	.50	.24	2.20
10	50	75	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5809	.65	.26	2.40
25	50	75	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5810	.80	.36	3.30
50	50	75	2 $\frac{1}{2}$ "x1	3E5811	1.20	.49	4.65
4	25	35	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5812	.45	.19	1.80
5	25	35	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5813	.50	.21	2.15
10	25	35	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5814	.55	.23	2.35
15	25	35	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5815	.60	.25	2.55
20	25	35	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5816	.65	.27	2.65
25	25	35	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5817	.70	.29	2.72
50	25	35	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5818	.95	.42	3.98

Compact Dry Electrolytics

In Fibreboard Cases

450 D.C. Working Volts—500 Volt Peak
This new series of compact high voltage dry electrolytics is a boon to the serviceman when repairing midget A.C. sets where space is at a premium. Standard quality.



Cap. Mfd.	Container Size	Stock Number	List Price	Your Price	Ten For
0.5	2 $\frac{1}{2}$ "x1" x 1 $\frac{1}{4}$ "	3E5820	\$0.80	\$0.22	\$2.10
1	2 $\frac{1}{2}$ "x1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ "	3E5821	.85	.26	2.45
2	2 $\frac{1}{2}$ "x1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ "	3E5822	.95	.29	2.75
4	2 $\frac{1}{2}$ "x1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ "	3E5823	1.15	.35	3.30
8	2 $\frac{1}{2}$ "x1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ "	3E5824	1.35	.47	4.55

Midget Filter and Bypass Dry Electrolytics

For Midget Sets



Low Voltage—Fibreboard Cases
Special low voltage compact multiple section dry electrolytics for midget and A.C.-D.C. receivers. Furnished with 6 inch insulated flexible leads in moisture-proof fibreboard containers with mounting tabs.

Cap. Mfd.	Peak Volts	Polarity of Leads	Container Size	Stock Number	List Price	Your Price	Ten For
4-4	200	1N-2P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5825	\$0.85	\$0.44	\$4.15
4-4	200	2N-1P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5826	.85	.44	4.15
5-8	200	1N-2P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5827	1.10	.51	4.80
8-8	200	1N-2P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5828	1.25	.63	5.97
8-8	200	2N-2P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5829	1.25	.63	5.97
12-4	200	1N-2P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5830	1.15	.59	5.62
12-8	200	1N-2P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5831	1.25	.65	6.23
16-8	200	1N-2P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	3E5832	1.50	.72	6.95
4-4	35	1N-2P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5833	.75	.27	2.52
6-5	35	1N-2P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "	3E5834	.80	.29	2.75
4-8	35	1N-2P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5835	.85	.31	3.11
8-8	35	1N-2P	1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5836	.90	.35	4.45

Tubular Condensers for Midget Sets

Low Voltage Dry Electrolytics

Multiple section dry electrolytics in moisture-proof fibreboard tubular containers. For midget set replacement. Container has tab at each end for mounting. Six inch insulated flexible leads.



Cap. Mfd.	Peak Volts	Polarity of Leads	Container Size	Stock Number	List Price	Your Price	Ten For
4-4	35	1N-2P	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5837	\$0.85	\$0.27	\$2.52
5-5	200	1N-2P	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5838	.90	.47	4.44
8-5	200	1N-2P	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5839	.95	.51	4.80
8-8	200	1N-2P	1 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "	3E5840	1.20	.63	5.97

Tubular Dry Electrolytics

Fibreboard Case—200 D.C. Working Volts

A.C.-D.C. midget set replacements. Tubular fibreboard containers, moisture-proof and hermetically sealed at each end. 6 inch insulated flexible leads fitted for easy soldering. Single units have one positive, one negative lead each end; dual sections have one negative and two positive leads. Especially designed with higher working voltage limits than condensers customarily used in the midget sets. 6 Inch Leads.

Cap. Mfd.	Container Size	Stock Number	List Price	Your Price	Ten For
4	1x2 $\frac{1}{2}$ "	3E5841	\$0.65	\$0.29	\$2.78
4	1x2 $\frac{1}{2}$ "	3E5842	.70	.33	3.15
8	1x2 $\frac{1}{2}$ "	3E5843	.80	.37	3.53
4-4	1x2 $\frac{1}{2}$ "	3E5844	.90	.44	4.15
4-8	1x2 $\frac{1}{2}$ "	3E5845	1.15	.56	5.30
8-8	1x2 $\frac{1}{2}$ "	3E5846	1.25	.62	5.94



Special Dry Electrolytic Replacements

Aluminum Containers—450 D.C. Working Volts

First quality condensers offered at a special low price. Conservatively rated and well-made but not quite equal to Keystone standards. Container negative. Single units have lug terminal, dual sections have six inch flexible insulated leads. For single $\frac{1}{2}$ " in. hole mounting. Large locknut clamps until securely to chassis base.

Keystone By-Pass Condensers

Tubular Condensers

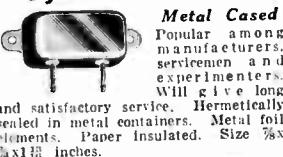


Linen Paper and Foil Type

These By-Pass Condensers represent an exceptional value at our new low prices. They are carefully made of the finest materials and in accordance with the most advanced principles of condenser manufacturing processes. We recommend this line to you for use wherever a strictly first-class unit at a moderate price is required. Metal foil and linen paper, wax impregnated. Hermetically sealed in tubular fibre cases. 1 1/2 inch tinne leads, securely anchored. Approx. 2" long, 3/8" to 1 1/4" Diam.

400 Volts D. C. Working Volts		600 Volts D. C. Working Volts	
Stock Num.	Cap. Mfd.	Stock Num.	Cap. Mfd.
3D5400	.0001	3D5425	.0001
3D5401	.0002	3D5426	.0002
3D5402	.00025	3D5427	.00025
3D5403	.0005	3D5428	.0005
3D5404	.001	3D5429	.001
3D5405	.002	3D5430	.002
3D5406	.003	3D5431	.003
3D5407	.004	3D5432	.004
3D5408	.005	3D5433	.005
3D5409	.006	3D5434	.006
3D5410	.007	3D5435	.007
3D5411	.008	3D5436	.008
3D5412	.01	3D5437	.01
3D5413	.02	3D5438	.02
3D5414	.03	3D5439	.03
3D5415	.04	3D5440	.04
3D5416	.05	3D5441	.05
3D5417	.06	3D5442	.06
3D5418	.07	3D5443	.07
3D5419	.08	3D5444	.08
3D5420	.1	3D5445	.1
3D5421	.2	3D5446	.2
3D5422	.25	3D5447	.25
3D5423	.3	3D5448	.3
3D5424	.5	3D5449	.5

Best Quality Paper Type By-Pass Condensers

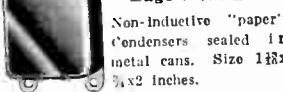


Metal Cased
Popular among manufacturers, servicemen and experimenters. Will give long and satisfactory service. Hermetically sealed in metal containers. Metal foil elements. Paper insulated. Size 3/8" x 1 1/2" inches.

Stock Number	Cap. Mfd.	D.C. Working Volts	Your Price
3E5206	.05	400	14c
3E5200	.1	400	19c
3E5201	.25	400	15c
3E5202	.5	400	22c
3E5207	.05	600	19c
3E5203	.1	600	20c
3E5204	.25	600	22c
3E5205	.5	600	32c
3E5208	.1	1000	29c

*Note—Supplied in size 2"x1"x2" cans.

By-Pass Condensers Lugs from End



Non-inductive "paper" condensers sealed in metal cans. Size 1 1/8" x 2 1/2" inches.

*Note—Supplied in size 2"x1"x2" cans.

Potter By-Pass Condensers



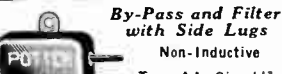
Metal Case By-Pass with Lugs
Compact, non-inductive units in metal cans. Designed to permit large capacities and high resistance in a minimum space. High resistance paper dielectric, chemically impregnated. Size of can 7/8" x 1 1/2" inches. Mounting centers 2 1/2" inches.

Stock Num.	Code Num.	Cap. Mfd.	D. C. Work. Volt.	Your Price
3E5030	A-401	.1	400	24c
3E5031	A-402	.25	400	27c
3E5032	A-403	.5	400	33c
3E5033	A-601	.1	600	27c
3E5034	A-602	.25	600	32c



By-Pass and Filter Condensers with End Lugs
Non-Inductive
Type A. Size: 1 1/8" x 2 1/2" inches. Mfg. Hole centers 1 1/4" and 2 1/2" inches.

Stock Num.	Code Num.	Cap. Mfd.	D. C. Work. Volt.	Your Price
3E5040	A-404	.1	400	44c
3E5041	A-403	.5	400	33c
3E5042	A-602	.25	600	27c
3E5043	A-603	.5	600	39c
3E5044	A-1002	.25	1000	47c



By-Pass and Filter with Side Lugs
Non-Inductive
Type AA. Size 1 1/8" x 2 1/2" inches (same size as Crosley RF by-pass condensers). Mfg. centers 2 1/4" inches.

Stock Num.	Code Num.	Cap. Mfd.	D. C. Work. Volt.	Your Price
3E5050	AA-104	.1	400	44c
3E5051	AA-203	.5	400	33c
3E5052	AA-302	.25	400	27c
3E5053	AA-303	.5	600	39c
3E5054	AA-402	.25	1000	47c

Master By-Pass



Easily wired in circuit. 2-inch securely anchored tinne wire leads. Covered with a tough durable "rubber-wax" insulation. Moisture proof. 1 1/2" to 2 1/2" Long. 3/8" to 1 1/4" Diam.

Stock Number	Capacity Mfd.	D. C. Working Voltage	Your Price
3D5000	.001	400	
3D5001	.002	400	12c
3D5002	.001	400	EACH
3D5003	.006	400	
3D5004	.006	600	
3D5005	.01	400	14c
3D5006	.01	600	14c
3D5007	.02	400	14c
3D5008	.02	600	17c
3D5009	.05	400	17c
3D5010	.05	600	19c
3D5011	1/10	200	15c
3D5012	1/10	300	19c
3D5013	1/10	400	20c
3D5014	1/10	600	30c
3D5015	1/4	200	19c
3D5016	1/4	400	27c
3D5017	1/2	300	30c
3D5018	1/2	400	30c
3D5019	1/2	600	33c
3D5020	1/2	200	31c



Compact Units in Metal Cans With 6-Inch Insulated Leads

Stock Num.	Code Num.	Cap. Mfd.	D. C. Work. Volts	Your Price
3E5075	XA-101	.1	200	15c
3E5076	XA-102	.25	200	19c
3E5077	XA-103	.5	200	22c
3E5078	XA-201	.1	300	18c
3E5079	XA-202	.25	300	20c
3E5080	XA-301	.1	400	20c
3E5081	XA-401	.1	600	26c



Filter or By-Pass 1 Mfd. 300 Volts
Metal can size 1 1/2 in. wide, 1 1/4 in. high, 3/8 in. deep.

3C5491
YOUR PRICE, EACH..... 19c
Lots of 10..... \$1.70

Special Value Tubular Condensers Paper and Foil Type

Stock Num.	Cap. Mfd.	Work. Volts	Your Price
3E5450	.006	400	Ten Ass't. for
3E5451	.01	400	47c
3E5452	.02	400	100 for
3E5453	.05	400	54.15
3E5454	.1	400	
3E5455	.25	200	6c
3E5456	.5	200	9c
3E5457	.25	400	10c
3E5458	.5	400	12c

Adjustable Mica Condensers

Stock Num.	Cap. Mfd.	Min.	Max.	List Price	Your Price
3C5635	5	25			
3C5636	5	50		50c	16c
3C5637	5	100			
3C5638	75	250		75c	27c
3C5639	75	350			Ea.

Multiple Tubular Condensers



Metal Foil and Linen Paper
Paraffin impregnated, hermetically sealed in fibre cases. One continuous non-inductive winding; each section remains non-inductive. 1 1/2" bare wire common leads. 1/2" insulated stranded wire section leads.

Stock Number	Container Size	Cap. Mfd. Each Sec.	Price Each
3E5460	1 1/2 x 1 1/2	01-01	16c
3E5461	1 1/2 x 1 1/2	01-01-01	19c
3E5462	1 1/2 x 1 1/2	1-1-1	21c
3E5463	1 1/2 x 1 1/2	1-1-1-1	26c
3E5464	1 1/2 x 2 1/4	1-1-1-1-1	34c
3E5465	1 1/2 x 2 1/4	1-1-1-1-1-1	41c
3E5466	1 1/2 x 2 1/4	25-25	26c

Stock Number	Container Size	Cap. Mfd. Each Sec.	Price Each
3E5470	1 1/2 x 3 1/2	01-01	21c
3E5471	1 1/2 x 3 1/2	01-01-01	26c
3E5472	1 1/2 x 3 1/2	1-1	24c
3E5473	1 1/2 x 3 1/2	1-1-1	34c
3E5474	2 1/4 x 3 1/2	1-1-1-1-1	41c
3E5475	2 1/4 x 3 1/2	1-1-1-1-1-1	51c
3E5476	2 1/4 x 3 1/2	25-25	34c

Special Value By-Pass and Filter Condensers 1/2 Mfd. 300V D.C.

300 V. D.C. working voltage. Metal can is 1 1/2 in. wide, 2 1/4 in. high, 3/8 in. deep. Three mounting hole centers 1 x 2 1/2". Solder lug terminals are pierced, making wiring and soldering easy.

3E5490—**PRICE, EACH..... 19c**
Lots of 10..... \$1.75

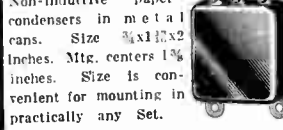
By-Pass Condensers Lugs from Side



Non-inductive "paper" condensers sealed in metal cans. Small size, convenient for mounting in practically all Sets. Size 1 1/8" x 1 1/2" inches. Mfg. Centers 2 1/4".

Stock Number	Cap. Mfd.	D.C. Working Voltage	Your Price
3E5220	.1	400	30c
3E5221	.5	400	32c
3E5222	.25	600	22c
3E5223	.5	600	31c
3E5224	.1	600	44c

Combination By-Pass Condensers



Non-inductive "paper" condensers in metal cans. Size 3/4" x 1 1/2" inches. Mfg. centers 1 1/4" inches. Size is convenient for mounting in practically any Set.

Stock Number	Cap. Mfd.	D. C. Volts	Your Price
3E5230	1-1	400	27c
3E5231	1-1-1	400	36c
3E5232	1-1-1-1	400	52c
3E5233	25-25	400	32c
3E5234	25-25-25	400	49c
3E5235	5-5-5	400	39c
3E5236	1-1	600	37c
3E5237	1-1-1	600	42c
3E5238	25-25	600	38c
3E5239	25-25-25	600	49c
3E5240	5-5-5	600	52c

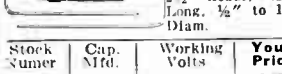
Cub Condensers



3" Leads, 2 3/4" Long, 1/2" to 1 1/4" Diam.

Stock Number	Cap. Mfd.	Volts	Your Price
3E5500	.0001	600	
3E5501	.00025	600	EACH
3E5502	.001	600	12c
3E5503	.001	600	
3E5504	.002	600	
3E5505	.004	600	
3E5506	.005	600	
3E5507	.006	600	
3E5508	.0075	600	
3E5509	.01	600	
3E5510	.02	600	
3E5511	.06	400	
3E5512	.1	200	12c
3E5513	.1	400	15c
3E5514	.25	200	15c
3E5515	.25	400	20c
3E5516	.5	200	20c
3E5517	.5	400	25c
3E5518	1	200	30c
3E5519	1	400	37c

CUB Combination By-Pass Condensers



Stock Number	Cap. Mfd.	Working Volts	Your Price
3E5525	1-1	200	25c
3E5526	25-25	200	37c
3E5527	01-01	400	20c
3E5528	05-05	400	25c
3E5529	1-1	400	28c
3E5530	2-2	400	33c
3E5531	25-25	400	42c
3E5532	1-1	600	32c

Certified Filter Sections and Mica Condensers

FLECHTHEIM

Non-Inductive Uncased Filter Condensers

Type N. U.—600 Volts D.C.

For continuous operating voltages up to 440 v. A. C., R. M. S.



The condenser winding is impregnated in a non-hygroscopic compound and the whole is wrapped in a waxed paper wrapper, thus making the condenser absolutely moisture-proof. Supplied with rubber covered wire leads that won't pull out.

Stock Number	Cap. Mfd.	Size Inches	Your Price
3C5365	.10	2 1/2 x 1 1/2 x 3/4	\$0.20
3C5366	.25	2 1/2 x 1 1/2 x 3/4	.25
3C5367	.50	2 1/2 x 1 1/2 x 3/4	.32
3C5368	1.0	2 1/2 x 1 1/2 x 3/4	.45
3C5369	2.0	2 1/2 x 1 1/2 x 3/4	.75
3C5370	2.0	4 x 1 1/2 x 3/4	.75
3C5371	4.0	2 1/2 x 1 1/2 x 3/4	1.30
3C5372	4.0	4 x 1 1/2 x 1 1/2	1.30

Flechtheim Type H. S. M.



For continuous operating voltages up to 600 V. A. C., R. M. S.—1000 volts D.C.

For all amplifiers using type "71", "95", "46", "47", "10", "50 and similar heavy duty amplifier tubes, metal containers, black finish. Fork type terminals. Conservative rating. Over 1000 megohms per mfd. Non-inductive. Flash breakdown over 3000 volts D.C.

Stock Number	Cap. Mfd.	Size Inches	Your Price
3D5350	.05	2 x 1 1/2 x 1 1/2	\$0.67
3D5351	.10	2 x 1 1/2 x 1 1/2	.73
3D5352	.25	2 x 1 1/2 x 1 1/2	.81
3D5353	.5	2 x 1 1/2 x 1 1/2	.90
3D5354	1.0	2 x 1 1/2 x 1 1/2	1.21
3D5355	2.0	3 x 2 x 2 1/2	1.89
3D5356	2.0	2 1/2 x 2 1/2	1.89
3D5357	4.0	4 x 2 x 2 1/2	3.02
3D5358	4.0	2 x 2 1/2 x 2 1/2	3.02

Flechtheim Type AZ Midget Tubular Condensers



1000 v. d.c. 660 v. a.c., r.m.s. Ideally suited for use as plate blocking condensers in low power transmitters; r.f. by-pass work; for coupling condensers in resistance coupled amplifiers. Moisture proof container.

Stock Num.	Cap. Mfd.	Your Price	Stock Num.	Cap. Mfd.	Your Price
3C5320	.00005	3C5334	.006	27c	
3C5321	.0001	3C5335	.0075	27c	
3C5322	.0002	3C5336	.01	27c	
3C5323	.00025	3C5337	.015	16c	
3C5324	.0004	3C5338	.02	16c	
3C5325	.0005	3C5339	.025	16c	
3C5326	.00075	3C5340	.03	16c	
3C5327	.001	3C5341	.04	16c	
3C5328	.0015	3C5342	.05	38c	
3C5329	.002	3C5343	.06	38c	
3C5330	.0025	3C5344	.07	27c	
3C5331	.003	3C5345	.08	27c	
3C5332	.004	3C5346	.09	27c	
3C5333	.005	3C5347	.1	27c	

BARGAIN Low Capacity Mica Condensers



Stock Number	Cap. Mfd.	Your Price
3D5478	.00007	5c
3D5479	.00006	5c
3D5480	.00005	5c
3D5481	.00004	5c
3D5482	.000035	5c
3D5483	.000025	5c
3D5484	.00015	5c

Potter Replacement Condensers Sections



The very highest quality line of condensers on the market. Only the finest materials used in their manufacturing. Processed in the most scientific manner in one of the best equipped factories of its kind in the world. Paper dielectric impregnated with enduring compounds sealed in moisture-proof metal containers. These condensers guaranteed for rated voltages under proper working conditions.

Stock Number	Code Number	Cap. Mfd.	D. C. Test	D. C. Working Voltage	Size	List Price	Your Price
3C5150	104	1.	400V	200	1 1/2 x 3/4 x 3/4	\$1.25	\$.69
3C5151	105	2.	400V	200	3/4 x 2 x 3/4	1.75	.99
3C5152	107	4.	400V	200	1 1/2 x 2 x 3/4	3.75	1.60
3C5154	305	2.	750V	400	1 x 2 x 4 1/4	3.00	1.20
3C5156	404	1.	1000V	600	1 1/2 x 2 1/2 x 3/4	2.00	1.30
3C5157	405	2.	1000V	600	1 1/2 x 3 3/4 x 3/4	3.50	1.95
3C5162	507	1.	2000V	1000	2 3/4 x 3 3/4 x 3/4	10.00	6.00
3C5163	603	.5	2500V	1250	1 1/2 x 2 1/2 x 3/4	2.75	1.85
3C5170	707	4.	3000V	1500	3 1/2 x 7 x 3/4	13.50	9.11
3C5171	803	.5	4000V	2000	1 1/2 x 3 1/2 x 3/4	4.50	3.31

Moulded Bakelite Condensers

Micamold—Aerovox—Polymet Tested at 750 volts D.C.



Combination Mounting Midget Type Case size 1 1/4" long, 1 1/8" wide. Lug centers in case 1 1/4". Insulated mounting hole

Stock Number	Cap. Mfd.	List Price	Your Price
3C5575	.0001	30c	9c
3C5576	.00025	30c	9c
3C5577	.00035	30c	9c
3C5578	.0005	30c	9c
3C5579	.00075	35c	11c
3C5580	.001	35c	11c
3C5581	.0015	35c	13c
3C5582	.002	40c	13c
3C5583	.0025	45c	15c
3C5584	.003	50c	16c
3C5585	.004	50c	21c
3C5586	.005	50c	18c
3C5587	.006	60c	22c

Sangamo Mica Condensers

Molded in smooth brown bakelite. Extremely fine limits of accuracy. Will retain their capacity under all conditions. Absolutely water and damp proof. 1000 v. D.C. Test.

Stock Number	Cap. Mfd.	List Price	Your Price
3C5605	.00005	\$.60	35c
3C5606	.0001	.80	35c
3C5609	.0002	.80	35c
3C5610	.00025	.60	35c
3C5612	.0005	.60	35c
3C5613	.001	.60	35c
3C5614	.0015	.60	35c
3C5615	.002	.65	38c
3C5617	.003	.85	50c
3C5618	.004	.85	50c
3C5619	.005	.85	50c
3C5620	.006	1.00	59c
3C5621	.008	1.20	71c
3C5622	.01	1.40	82c
3C5623	.015	1.60	84c

Condensers Resistor Clips

For mounting grid leak Resistors across Sangamo Condensers. 3C5629—PER PAIR 6c

A Complete Assortment! Mica Condenser Pad Kit

Micamold and Polymet Midget Type Mica Condensers as illustrated at left with mounting holes in addition to lugs. Suitable as "pad" condensers in critical Superheterodyne oscillator circuits. Moisture proof, airtight construction prevents oscillator "drift" and reduces effect of unwanted stations "drifting" in after receiver has been tuned to desired station. Kit contains five each of the following: .0007 Mfd. .00094 Mfd. .00015 Mfd. .0006 Mfd. .00035 Mfd. .0005 Mfd. .00025 Mfd. 3C5600—YOUR PRICE PER KIT (35 units) 96c

Uncased Replacement Condenser Sections



Wax-sealed, paper dielectric. Guaranteed for one full year—free replacement when used under proper conditions. Scientifically designed, carefully built. Safety factor in excess of that required to withstand both R. M. A. and N. E. M. A. test requirements. Pure linen paper dielectric.

"HANG-UP" TYPE

Compound Coated with 8 inch leads of timed "push back" wire:

Stock No.	Mfd.	Size In.	Price Each
3C5250	1/2	2 3/4 x 1 1/2 x 3/4	12c
3C5251	1	2 3/4 x 1 1/2 x 3/4	18c
3C5252	2	2 3/4 x 1 1/2 x 3/4	29c
500 D. C. Working Voltage			
Stock No.	Mfd.	Size In.	Price Each
3C5253	1/2	2 3/4 x 1 1/2 x 3/4	19c
3C5254	1	2 3/4 x 1 1/2 x 3/4	29c
3C5255	2	2 3/4 x 1 1/2 x 3/4	54c
600 D. C. Working Voltage			
Stock No.	Mfd.	Size In.	Price Each
3C5256	1/2	2 3/4 x 1 1/2 x 3/4	28c
3C5257	1	2 3/4 x 1 1/2 x 3/4	36c
3C5258	2	2 3/4 x 1 1/2 x 3/4	50c
1000 D. C. Working Voltage			
Stock No.	Mfd.	Size In.	Price Each
3C5261	1	4 x 2 1/4 x 1 1/2	\$0.75
3C5262	2	4 x 2 1/4 x 1 1/2	1.22

Case Renewal Condenser Sections

Consists of a wax sealed paper dielectric condenser section housed in a wax impregnated cardboard box which protects wax coating around condenser sections and prevents deterioration and damage when not used with mounting straps. Chipping and resultant short circuits are eliminated. Six inch insulated leads. Standard R.M.A. guarantee.

Stock Number	Cap. Mfd.	Dimensions In.	Your Price
3E3300	1.0	3 x 1 1/2 x 3/4	.25
3E3301	2.0	3 x 1 1/2 x 3/4	.42
400 D. C. Working Voltage			
3E3302	.5	3 x 1 1/2 x 3/4	.25
3E3303	1.0	3 x 1 1/2 x 3/4	.37
3E3304	2.0	3 x 1 1/2 x 3/4	.57
600 D. C. Working Voltage			
3E3305	.5	3 x 1 1/2 x 3/4	.43
3E3306	1.0	3 x 2 1/4 x 1 1/2	.62
3E3307	2.0	4 1/2 x 2 1/4 x 1 1/2	.83
800 D. C. Working Voltage			
3E3308	.5	3 x 2 1/4 x 1 1/2	.59
3E3309	1.0	4 1/2 x 2 1/4 x 1 1/2	.84
1000 D. C. Working Voltage			
3E3310	.5	3 x 2 1/4 x 1 1/2	.76
3E3311	1.0	4 1/2 x 2 1/4 x 1 1/2	1.24
3E3312	2.0	4 1/2 x 2 1/4 x 1 1/2	2.48

R.M.A. Standard Mica Condenser Color Code

Capacity of Mica Condensers is figured in terms of Micro-Microfarads. The first dot appearing on the condenser represents the first figure of the capacity; the second dot represents the second figure and the third dot represents the number of ephers following the first two figures.

Color	Figure	Color	Figure
Black	0	Green	5
Brown	1	Blue	6
Red	2	Violet	7
Orange	3	Gray	8
Yellow	4	White	9

Examples Illustrating the Standard

Decimals.	MMFDS	1st. Dot	2nd. Dot	3rd. Dot
.0001	100	Brown	Black	Brown
.0025	250	Red	Green	Brown
.005	500	Green	Black	Brown
.001	1000	Brown	Black	Red

New CONTINENTAL-IGRAD High Voltage Paper Condensers



New Type E Units
Cardboard Containers
For replacing defective electrolytic sections in filter systems. Cardboard containers, same size as standard electrolytic units. Non Inductive.
D. C. Working Voltage, 450—Peak, 600

Stock Num.	Capy. Mfds.	Size In. L. W. T.	Your Price
3E8900	4*	4 3/4 x 1 3/4 x 1 3/4	\$0.56
3E8901	8*	4 3/4 x 1 3/4 x 1 3/4	.68
3E8902	8-8*	4 3/4 x 1 3/4 x 1 3/4	1.12

D. C. Working Voltage, 500—Peak, 800

Stock Number	Capy. Mfds.	Size In. L. W. T.	List Price	Your Price
3E8903	2*	4 3/4 x 1 3/4 x 1 3/4	\$1.10	\$0.65
3E8904	4*	4 3/4 x 1 3/4 x 1 3/4	1.35	.79
3E8905	6*	4 3/4 x 1 3/4 x 1 3/4	1.60	.88
3E8906	8*	4 3/4 x 1 3/4 x 1 3/4	1.65	.97
3E8907	4-4*	4 3/4 x 1 3/4 x 1 3/4	2.25	1.32
3E8908	8-8*	4 3/4 x 1 3/4 x 1 3/4	2.75	1.62

All values are equivalent to electrolytic condenser capacities of the same rating, due to improved filter action.

To Replace Electrolytic Units

Improved reception and freedom from future break-downs can be assured by replacing defective electrolytics with CONTINENTAL-IGRAD high-voltage Paper Condensers. Higher voltage rating and great resistance to heat are some of the advantages they offer. They have the same outside dimensions as standard electrolytic units, thereby allowing easy change.

Type IE Inverted Stud Mounting

To replace Electrolytics. Same size and appearance as standard electrolytic units. Round aluminum containers. Non-inductive.



D. C. Working Voltage, 450—Peak, 600

Stock Number	Capy. Mfds.	Size In. Lgth. Dia.	Your Price
3E8909	4*	4 3/4 x 1 3/4	\$0.62
3E8910	8*	4 3/4 x 1 3/4	.76

D. C. Working Voltage, 500—Peak 800

Stock Number	Capy. Mfds.	Size In. Lgth. Dia.	Your Price
3E8912	4*	4 3/4 x 1 3/4	\$0.88
3E8913	8*	4 3/4 x 1 3/4	1.06

Type UE Universal Upright Units

For replacing Electrolytics. Round aluminum cans. Same size and appearance as standard electrolytics. Fits standard ring Mtg. clamps. Non-inductive.



D. C. Working Voltage, 450—Peak 600

Stock Num.	Capy. Mfds.	Size In. L. Dia.	Your Price
3E8916	8-8*	4 3/4 x 2 3/4	\$1.18
3E8917	5-15*	4 3/4 x 2 3/4	1.37
3E8918	8-8-8*	4 3/4 x 3	2.06
3E8919	9-9-18*	4 3/4 x 3	2.94

D. C. Working Voltage, 500—Peak 800

Stock Number	Capy. Mfds.	Size In. L. Dia.	List Price	Your Price
3E8920	4*	4 3/4 x 1 3/4	\$1.50	\$0.88
3E8921	8*	4 3/4 x 1 3/4	1.80	1.06
3E8922	4-4*	4 3/4 x 1 3/4	2.40	1.41
3E8923	8-8*	4 3/4 x 1 3/4	2.90	1.70
3E8924	5-15*	4 3/4 x 2 3/4	4.75	2.79
3E8925	4-4-4*	4 3/4 x 2 3/4	3.50	2.06
3E8926	8-8-8*	4 3/4 x 3	5.00	2.94
3E8927	9-9-18*	4 3/4 x 3	7.00	4.12

Values are equivalent to electrolytic condenser capacities.

Replacement Condensers Uncased

Ideal for replacing "blown" condenser block sections in filter circuits or power units. Compact, rated safely.

400 Volt				
Stock Number	Cap. Mfd.	Dimensions Ht. Wd. D.	Your Price	
3D7524	1	1 1/4 x 3/4 x 3/4	\$0.20	
3D7525	.25	1 1/4 x 3/4 x 3/4	.36	
3D7526	.5	1 1/4 x 3/4 x 3/4	.59	
3D7527	1	1 1/4 x 3/4 x 3/4	.59	
3D7528	2	1 1/4 x 3/4 x 3/4	1.00	
3D7529	1	4 3/4 x 1 3/4 x 3/4	.50	
3D7530	2	4 3/4 x 1 3/4 x 3/4	.70	

600 Volt				
Stock Number	Cap. Mfd.	Dimensions Ht. Wd. D.	Your Price	
3D7531	.1	1 1/4 x 3/4 x 3/4	\$0.25	
3D7532	.25	1 1/4 x 3/4 x 3/4	.32	
3D7533	.5	1 1/4 x 3/4 x 3/4	.44	
3D7534	1	1 1/4 x 3/4 x 3/4	.68	
3D7535	2	1 1/4 x 3/4 x 3/4	1.15	
3D7536	1	4 3/4 x 1 3/4 x 3/4	.59	
3D7537	2	4 3/4 x 1 3/4 x 3/4	.88	

800 Volt				
Stock Number	Cap. Mfd.	Dimensions Ht. Wd. D.	Your Price	
3D7538	.1	1 1/4 x 3/4 x 3/4	.26	
3D7539	.25	1 1/4 x 3/4 x 3/4	.38	
3D7540	.5	1 1/4 x 3/4 x 3/4	.47	
3D7541	1	1 1/4 x 3/4 x 3/4	.65	



AEROVOX

Dry Electrolytic Condensers

Dry self healing. Dependable 525 volt D.C. peak voltage. Surge proof. May be mounted in any position. Complete with mounting rings.

Type E—Upright Mounting

Stock Number	Capacity Each Sec.	Size Dia. Ht.	List Price	Your Price
3D7547	2	1 3/4 x 2 3/4	\$1.35	\$0.44
3D7548	4	1 3/4 x 2 3/4	1.55	.50
3D7549	4-4	2 1/4 x 4 3/4	2.70	1.00
3D7550	5-15	2 1/4 x 4 3/4	4.10	1.35
3D7551	6	1 3/4 x 4 3/4	1.80	.59
3D7552	8	1 3/4 x 4 3/4	1.85	.62
3D7553	8-8	2 3/4 x 4 3/4	3.25	1.06
3D7554	8-16	2 3/4 x 4 3/4	4.10	1.62
3D7556	10	1 3/4 x 4 3/4	2.25	.91
3D7558	16	2 1/4 x 4 3/4	2.80	1.20
3D7561	2-4-8	3 x 4 3/4	4.10	1.70
3D7562	2-8-8	3 x 4 3/4	4.40	1.82
3D7563	4-4-4	3 x 4 3/4	3.95	1.50
3D7564	8-8-8	3 x 4 3/4	4.90	1.59
3D7565	8-8-16	3 x 4 3/4	5.85	1.88
3D7566	9-9-18	3 x 4 3/4	6.70	2.20
3D7567	8-8-8-8	3 x 4 3/4	6.55	2.12
3D7570	9-9-18-18	3 x 4 3/4	9.00	3.09

Inverted Mounting Container—525V.D.C. Peak
Insulated type—is provided with insulating boss segregating case from chassis. Grounded type—Case grounds to chassis.

INSULATED		GROUNDING		Mfd. Cap.	Can Size	List Price	Your Price
Stock Number	Stock Number	Stock Number	Stock Number				
3D7571	3D7580	2	1 3/4 x 1 3/4	\$0.75	\$0.44		
3D7572	3D7575	4	1 3/4 x 2 3/4	.85	.50		
3D7573	3D7576	6	1 3/4 x 2 3/4	1.00	.59		
3D7574	3D7577	8	1 3/4 x 3 3/4	1.05	.62		

Cartridge Condensers

Compact service replacement condensers. High quality and wide range of sizes available for practically all circuits. Non-inductive. High insulation resistance.

200 Volt				400 Volt			
Stock Num.	Your Price	Capy. Mfds.	Stock Num.	Your Price	Capy. Mfds.	Stock Num.	Your Price
3E8929	\$0.09	.001	3E8943	\$1.10			
3E8930	.09	.002	3E8944	.10			
3E8931	.09	.005	3E8945	.10			
3E8932	.09	.006	3E7634	.10			
3E8933	.09	.01	3E7635	.10			
3E8934	.09	.015	3E7636	.10			
3E8935	.10	.02	3E7637	.11			
3E8936	.10	.03	3E7638	.11			
3E8937	.11	.05	3E7639	.12			
3E8938	.12	.1	3E7640	.14			
3E8939	.14	.15	3E7641	.16			
3E8940	.16	.25	3E7642	.21			
3E8941	.24	.5	3E8947	.32			
3E8942	.28	.01-.01	3E8948	.19			

600 Volt				1000 Volt			
Stock Num.	Your Price	Capy. Mfds.	Stock Num.	Your Price	Capy. Mfds.	Stock Num.	Your Price
3E8949	\$1.11	.001	3E8953	\$1.12			
3E7643	.11	.006	3E7644	.12			
3E7645	.12	.01	3E7649	.12			
3E7645	.11	.02	3E7650	.14			
3E7646	.13	.05	3E7651	.21			
3E7647	.14	.1	3E8955	.29			
3E8951	.24	.25					
3E8952	.38	.5					

Replacement Electrolytics For A.C.-D.C. Midgrets

Identical to the original units. Cardboard containers (*) Denotes Common Terminal is Positive. On all others Common Terminal is negative.

Stock Number	Capy. Mfds.	Size In. D. W. L.	Your Price
3E8956	5-5	1 1/4 x 1 1/4 x 2 3/4	\$0.44
3E8957	10-10	1 1/4 x 1 1/4 x 2 3/4	.44

Working Voltage 150 Volts			
Stock Number	Capy. Mfds.	Size In. D. W. L.	Your Price
3E8955	4-4	1 3/4 x 1 3/4 x 2 3/4	.50
3E8957	4-4	1 3/4 x 1 3/4 x 2 3/4	.50
3E8960	4-8	1 3/4 x 1 3/4 x 2 3/4	.65
3E8961	12-4	1 3/4 x 1 3/4 x 2 3/4	.76
3E8962	12-4	1 3/4 x 1 3/4 x 2 3/4	.76

Working Voltage 200 Volts			
Stock Number	Capy. Mfds.	Size In. D. W. L.	Your Price
3E8963	4-4	1 3/4 x 1 3/4 x 2 3/4	.53
3E8964	4-4	1 3/4 x 1 3/4 x 2 3/4	.53
3E8965	4-8	1 3/4 x 1 3/4 x 2 3/4	.68
3E8966	8-8-4	1 3/4 x 1 3/4 x 2 3/4	1.06
3E8967	8-8-8	1 3/4 x 1 3/4 x 2 3/4	1.12
3E8968	8-8-16	1 3/4 x 1 3/4 x 2 3/4	1.23
3E8969	12-4	1 3/4 x 1 3/4 x 2 3/4	.76
3E8971	16-8	1 3/4 x 1 3/4 x 2 3/4	.85
3E8972	16-8	1 3/4 x 1 3/4 x 2 3/4	.85

Dry Electrolytic Condensers Cardboard Containers

Type P5. Peak voltage 525 volts D.C. Ideally suited for service replacement work. May be used in most standard filter circuits to replace broken down condenser sections. Compact and rugged. Electrostatically shielded.

Stock Number	Cap. Mfd.	Size, Inches L. W. D.	Your Price
3D7605	1.	2 1/2 x 1 3/4 x 3/4	32c
3D7606	2.	2 1/2 x 1 3/4 x 3/4	38c
3D7607	2-2.	2 1/2 x 1 3/4 x 1 1/4	65c
3D7608	2-4.	4 3/4 x 1 3/4 x 3/4	70c
3D7609	2-6.	4 3/4 x 1 3/4 x 3/4	85c
3D7610	2-6.	4 3/4 x 1 3/4 x 3/4	44c
3D7611	4-4.	4 3/4 x 1 3/4 x 3/4	70c
3D7612	6.	4 3/4 x 1 3/4 x 3/4	53c
3D7613	6-8.	4 3/4 x 1 3/4 x 3/4	85c
3D7614	8.	4 3/4 x 1 3/4 x 3/4	56c
3D7615	8-8.	4 3/4 x 1 3/4 x 3/4	88c

By Pass Condensers

Metal Case Hermetically sealed. Non-inductively wound. Size 2 1/2 x 1 1/2 x 1/2". Conservatively rated.

200 Volt				400 Volt			
Stock Num.	Your Price	Capy. Mfds.	Stock Num.	Your Price	Capy. Mfds.	Stock Num.	Your Price
3E8989	25c	.05	3E7550	27c			
3E8990	28c	.05	3E7551	29c			
3E8991	34c	.25	3E7502	35c			
3E8992	42c	.5	3E7503	44c			
3E8993	38c	-1-1	3E7504	40c			
3E8994	44c	.25-.25					
3E8995	50c	-1-1-1	3E7506	56c			

Metal Case By-pass Condensers

200 Volt				400 Volt			
Stock Num.	Your Price	Capy. Mfds.	Stock Num.	Your Price	Capy. Mfds.	Stock Num.	Your Price
3E7625	53c	1.0	3E7511	59c			
3E7626	59c	.5-.5	3E7632	56c			
3E7627	59c	1/4-1/4	3E7512	65c			
3E7628	85c	.5-.5-.5	3E7513	71c			
3E7629	62c	1-1-1					

600 Volt
3E7630-1. Your Price 79c
3E7631-.5.5 Your Price 97c

Sprague Emergency Kit

3E7729—List, \$5.50.
YOUR PRICE, Only...

\$3.27



Sprague "600" Emergency Kit contains five most useful values of electrolytic capacity. Dry cardboard case. Pigtail leads, type. One each of following: 8 Mfd., 6 Mfd., 4 Mfd., 2 Mfd., and 1 Mfd. Working voltage 475 peak 600 volts.

Double Emergency Kit

Contains two each of the following E.C. capacities; in separate cardboard cases with pigtail leads: 8 Mfd., 6 Mfd., 4 Mfd., 2 Mfd., and 1 Mfd. 475 volts working potential and 600 volts surge peak. Retail value, \$11.20.

3E7730—YOUR PRICE **\$6.58**

Individual Handy Units



As in Emergency Kit Mfg. type E.C. Small enough to be taped in pairs and occupy less space than original double units. May be connected in series for 850 volt working potential.

Stock Number	Cap. Mfd.	Size in Inches	List Price	Your Price
3E8450	0.5	2 1/4 x 1 7/8 x 1 1/2	\$0.80	\$0.47
3E8451	0.75	2 1/4 x 1 7/8 x 1 1/2	.85	.50
3E8452	1	2 1/4 x 1 7/8 x 1 1/2	.85	.50
3E8453	2	2 1/4 x 1 7/8 x 1 1/2	.95	.56
3E8454	4	2 1/4 x 1 7/8 x 1 1/2	1.15	.68
3E8455	6	2 1/4 x 1 7/8 x 1 1/2	1.35	.76
3E8456	8	2 1/4 x 1 7/8 x 1 1/2	1.35	.79

High Capacity, Low Voltage Cardboard Cased Condensers

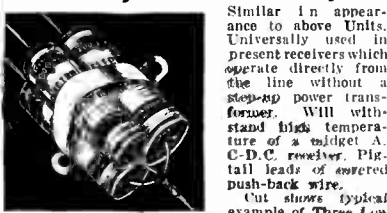


Tubular type, with pigtail leads color-coded. E.C. Designed to stand the high temperatures of midrange A.C.-D.C. receivers. Dry Electrolytic. Sprague type H.C.

Stock No.	Cap. Mfd.	D.C. Volts	Length & Dia. in Inches	List Price	Your Price
3E8457	10	25	2 1/4 L x 1 1/4 D	\$0.60	\$0.36
3E8458	10	50	2 1/4 x 1 1/4	.80	.48
3E8459	25	25	2 1/4 x 1 1/4	.85	.51
3E8460	25	50	2 1/4 x 1 1/4	1.10	.66

In rectangular packages for A.C.-D.C. sets
3E8461 4-4 150 2 1/4 x 1 1/4 x 1 1/4 \$1.05 .63
3E8462 5-5 60 2 1/4 x 1 1/4 x 1 1/4 .85 .51

AC-DC Dry Tubular Electrolytics



Similar in appearance to above Units. Universally used in present receivers which operate directly from the line without a step-up power transformer. Will withstand high temperature of a indoor A.C.-D.C. receiver. Pigtail leads of covered push-back wire.

Out shows typical example of Three Low Voltage Tubulars connected with mounting strap. Used as substitute for exact replacement.

Stock No.	Mfg. No.	Cap. Mfd.	Volts	List Price	Your Price
3E8470	ST-22	2	200	\$0.60	\$0.36
3E8471	ST-42	4	200	.70	.42
3E8472	ST-82	8	200	.90	.54
3E8473	ST-122	12	200	1.05	.63
3E8474	ST-162	16	200	1.20	.72
3E8475	ST-4	4	100	.40	.26
3E8476	ST-8	8	100	.75	.45
3E8477	ST-12	12	100	.90	.54

Famous Sprague Midgits

Twenty million sold. Unexcelled as general by-pass and grid condensers. Non-inductive. Mounting hole centers 2 inches.



TEST VOLTAGE—1000 VOLTS

Stock Number	Catalog Number	Capacity Mfd.	List Price	Your Price
3E7715	MC-31	.0001	\$0.25	\$0.16
3E7716	MC-325	.00025	.25	.15
3E7717	MC-34	.0004	.25	.15
3E7718	MC-35	.0005	.25	.15
3E7719	MC-21	.001	.25	.15
3E7720	MC-24	.004	.25	.15
3E7721	MC-25	.005	.25	.15
3E7722	MC-26	.006	.25	.15
3E7723	MC-11	.01	.25	.15
3E7724	MC-12	.02	.30	.18
3E7725	MC-15	.05	.30	.18
3E7726	MC-16	.06	.35	.21
3E7727	MC-1	.1	.35	.21

SPRAGUE 600 LINE

GUARANTEE

Sprague (E.C.) Electrolytic Condensers are Guaranteed

For use on continuous working voltage of 425 volts and will stand momentary surges as high as 600 volts. Power Factor (Watts divided by volts times amperes) in Sprague condensers is less than 10%. This means that you get the same filtering action with a Sprague 8 Mfd. E.C. unit as with 12 Mfd. of capacity in ordinary electrolytic condensers. Therefore the actual cost of Sprague capacity is 33 1/3% less than ordinary electrolytic condensers cost you.

Dry and Wet Electrolytics (E.C.) In Cylindrical Aluminum Cans



DRY—Manufacturer's Type A.C. Mount in any position—Working Voltage 475 Peak 600.

Stock Number	Cap. Mfd.	Dia. & Hgt., In.	List Price	Your Price
3E7655	2	1 x 3 1/4	\$1.10	\$0.66
3E7656	4	1 x 3 1/4	1.25	.75
3E7657	6	1 x 3 1/4	1.45	.87
3E7658	8	1 1/4 x 3 1/4	1.50	.90
3E7659	10	1 1/4 x 3 1/4	1.80	1.08
3E7660	12	1 1/4 x 3 1/4	2.05	1.23
3E7661	16	1 1/4 x 3 1/4	2.20	1.38

DRY—Multiple Section Single Can Type A.C.

3E7662	8-8	1 1/4 x 3 1/4	\$2.40	\$1.44
3E7663	4-4-4	1 3/8 x 3 1/4	2.80	1.68
3E7664	8-8-8	3 x 3 1/4	4.00	2.40
3E7665	5-15	2 1/2 x 3 1/4	3.35	2.01
3E7666	9-9-18	3 x 3 1/4	5.80	3.48
3E7667	9-9-18-18	3 x 4 1/2	8.15	4.89
3E7668	8-8-8-8	3 x 4 1/2	5.35	3.21
3E7669	8-8-18-18	3 x 4 1/2	7.55	4.53
3E7670	18-18	2 1/2 x 4 1/2	4.90	2.94

DRY—Inverted Screw Mtg. Type S.C.

3E7671	4	1 x 3	\$1.25	\$0.75
3E7672	6	1 x 3	1.45	.87
3E7673	8	1 1/4 x 3 1/4	1.50	.90

WET—500 Volt D.C. Peak—Type W.C. Aluminum can 4 1/2 inches high, with non-temperable vent. Self healing. Long life.

Stock Number	Cap. Mfd.	Dia. Inches	List Price	Your Price
3E8465	4	1	\$1.25	\$0.75
3E8466	6	1	1.40	.84
3E8467	8	1	1.45	.87
3E8468	10	1 1/4	1.50	.90
3E8469	12	1 1/4	1.55	.93

SPECIAL REPLACEMENT

Dry E.C. Multiple Units.

To be used where dual capacity units with special working voltages are employed. Aluminumized cardboard casings.

Stock No.	Mfg. No.	Cap. Mfd.	D.C. Volts	Size Inches	List Price	Your Price
3E8480	M-88	8-4	25-200	2 1/4 x 1 1/4 x 1 1/4	\$1.15	\$0.69
3E8481	M-44	4-4	140	3 x 1 1/4 x 1 1/4	1.05	.63
3E8482	M-55	5-5	135	2 1/2 x 1 1/4	.85	.51
3E8483	M-55	5-5	25-200	2 1/4 x 1 1/4 x 1 1/4	1.05	.62
3E8484	M-44	4-4	450-150	3 x 1 1/4 x 1 1/4	1.45	.87
3E8485	M-14	1-3.6	300-100	2 1/4 x 1 1/4	1.00	.60
3E8486	M-88	8-8	150	3 1/4 x 1 1/4 x 1 1/4	2.75	1.65

* These numbers are in tubular containers.

Auto Radio Filter Condenser

Sprague Type A.R.

A Steel Jacketed Noise Filter condenser with standard mounting bracket permanently welded to the jacket. For use where temperature and pressure ordinary condensers, 400 V.



Stock Number	Cap. Mfd.	Length & Dia.	List Price	Your Price
3E7731	1.0	2 1/4 x 1 1/4	\$0.80	\$0.48
3E7732	Word Radio Kit		.60	.36

Metal Cased By-Pass Condensers



400 volt working range, 600 peak. Enclosed in an inverted "bathtub" metal case, with special moisture proof impregnation protecting the condenser dielectric. Tinned lugs for handy soldering. Sprague type B.P.

Stock No.	Cap. Mfd.	Dimensions in Inches	Mtg. Cen.	1st Price	Your Price
3E7686	0.1	1 3/4 x 1 1/4 x 1 1/4	2 1/8	\$0.50	\$0.30
3E7687	0.25	1 3/4 x 1 1/4 x 1 1/4	2 1/8	.60	.36
3E7688	0.5	2 x 1 3/4 x 1 1/4	2 1/8	.75	.45
3E7689	1.0	2 x 1 3/4 x 1 1/4	2 1/8	1.00	.60
3E7690	1-1	1 3/4 x 1 1/4 x 1 1/4	2 1/8	.65	.39
3E7691	2-5	2 x 1 3/4 x 1 1/4	2 1/8	.80	.48
3E7692	5-5	2 x 1 3/4 x 1 1/4	2 1/8	1.00	.60
3E7693	1-1-1	2 x 1 3/4 x 1 1/4	2 1/8	.85	.51

Small Tubular Cartridge By-Pass

Non-Inductive "600" Peak Voltage. Tinned Pig-tail Leads.



Sprague's small tubular condensers are the most compact 600 volt condensers on the market. Made for use in spaces no other condenser of equal capacity and rating will fit. Impregnated moisture proof tube with ferruled caps 2nd secured pigtail leads.

Stock Number	Cap. Mfd.	Length & Dia. in Inches	List Price	Your Price
3E7695	.0001	1 1/2 L x 3/8 D.	\$0.25	\$0.15
3E7696	.00025	3/8 x 3/8	.25	.15
3E7697	.0004	3/8 x 3/8	.25	.15
3E7698	.0005	3/8 x 3/8	.25	.15
3E7699	.001	3/8 x 3/8	.25	.15
3E7700	.002	3/8 x 3/8	.25	.15
3E7701	.003	1 x 3/8	.25	.15
3E7702	.004	1 x 3/8	.25	.15
3E7703	.005	1 1/4 x 3/8	.25	.15
3E7704	.006	1 1/4 x 3/8	.25	.15
3E7705	.01	1 1/4 x 3/8	.25	.15
3E7706	.02	1 1/4 x 3/8	.30	.18
3E7707	.05	1 1/4 x 3/8	.30	.18
3E7708	.06	1 1/4 x 3/8	.35	.21
3E7709	1	1 1/4 x 3/8	.35	.21
3E7710	.25	1 1/4 x 3/8	.45	.27
3E7711	.5	1 1/4 x 3/8	.60	.36

Dry E.C. Cardboard Cased Condensers



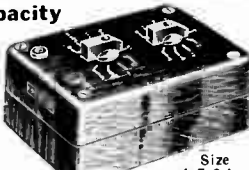
With special mounting flanges and tinned push-back insulated leads. In attractive aluminumized cardboard casings with orange and blue markings. Neat appearance makes selling of these condensers easy. Mfg. type D.C. (capacitance) Working Voltage 475. Surge Peak 600 volts Maximum.

Stock Number	Cap. Mfd.	Size in Inches	List Price	Your Price
3E7675	2	2 1/4 x 1 1/4 x 1 1/4	\$0.95	\$0.56
3E7676	4	4 x 1 1/4 x 1 1/4	1.15	.68
3E7677	6	4 x 1 1/4 x 1 1/4	1.30	.76
3E7678	8	4 x 1 1/4 x 1 1/4	1.35	.79
3E7679	2-4	4 x 1 1/4 x 1 1/4	1.65	.97
3E7680	4-4	4 x 1 1/4 x 1 1/4	1.80	1.06
3E7681	4-6	4 x 1 1/4 x 1 1/4	1.95	1.15
3E7682	4-8	4 x 1 1/4 x 1 1/4	2.00	1.18
3E7683	6-6	4 x 1 1/4 x 1 1/4	2.15	1.26
3E7684	6-8	4 x 1 1/4 x 1 1/4	2.20	1.29
3E7685	8-8	4 x 1 1/4 x 1 1/4	2.20	1.29

Sprague Capacity Indicator

From 16 to .00025 Mfd. in 56 Steps.

3E7733—Your Price, \$8.90



The Sprague Capacity Indicator increases the efficiency of any service laboratory. The Capacity Indicator, housed in a beautiful bakelite case with modern selector knobs, and convenient pin jacks, explains the popular sizes of standard capacities. The first selector switch connects the non-inductive paper-dielectric capacitors to the pin jacks. In the following order: 0.00025 Mfd., 0.001 Mfd., 0.005 Mfd., 0.01 Mfd., 0.05 Mfd., 0.1 Mfd., 0.25 Mfd., 0.5 Mfd., 1 Mfd., 2 Mfd., 4 Mfd., 6 Mfd., 8 Mfd., 10 Mfd., 12 Mfd., 16 Mfd. As any of the values available on either selector switch may be combined to 56 possible capacities, governing most capacities used in modern receivers may be obtained.

FREE With each order for ten or more request and as long as our supply lasts, include a Free copy of that handy volume: SPRAGUE TELL-U-HOW CONDENSER GUIDE

New Hammarlund Double Spaced Midget Condensers



Wide spacing, special bearings and Isolantite make these condensers particularly suitable for ultra short wave receivers and transmitters. Air gap between plates is .0715". Their small size adapts them to the compact types of transmitters now so much in vogue. For tuning amplifier stages in crystal controlled transmitters and for neutralizers up to 210's and 50 waters. Also as tuners for 5 meter oscillator power amplifiers.

Stock Num.	Code Num.	Max.	Min.	List Price	Your Price
3C7235	MC-35-X	35 mmf.	6 mmf.	\$2.25	\$1.32
3C7236	MC-50-X	50 mmf.	7 mmf.	2.75	1.62

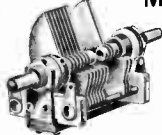
Double Spaced Dual Midget Condensers

Designed for efficiency at ultra high frequencies for either receiving or transmitting. Wide spacing between plates materially aids frequency stability. Isolantite for insulation assures the low loss factor so important in 5 meter work. An ideal condenser for compact 5 meter transmitters using tubes up to 243's or 210's at push-pull. Actual air gap between adjacent rotor and stator plates is .0715". Midline shaped plates and special bearings provide easy and accurate tuning. Other specifications are standard except for omission of the shield plate.

Stock Number	Code	List Price	Your Price
3C7238	Code MCD-35-X	\$3.50	\$2.06

(Capacity per section 33 mfd. max., 6 mmf. min.)

New Hammarlund Band Spread Midget Condensers



Designed for use as "band spread" tuning condensers for short wave receivers and for use in amateur band frequency meters. The "tank" section can be set and locked at any desired capacity permitting the tuning range over the entire dial, regardless of the range of the band or the coils used.

Stock Num.	Code	Tank Capac.	Tuning Capac.	List Price	Your Price
3C7240	MC-120-B	100 mmf.	20 mmf.	\$3.00	\$1.76
3C7241	MC-150-B	100 mmf.	50 mmf.	3.25	1.91
3C7242	MC-175-B	100 mmf.	75 mmf.	3.50	2.06

Compensating Neutralizing Condensers



For use in circuits where a small, variable capacity is needed for neutralizing, compensating or as a vernier or balancing condenser. Fine quality. Excellent design and construction. Rugged. Accurate. Aluminum plates. Supplied without knob. Shaft diameter 1/4 inch. Mounts in single 3/8" hole.

Stock Number	Plates	Max. Cap. Mfd.	List Price	Your Price
3E7301	3	15	\$0.60	\$0.35
3E7302	5	30	.65	.38
3E7303	7	45	.70	.41
3E7304	9	60	.75	.44
3E7255	11	80	.80	.47
3E7256	15	100	.85	.50
3E7257	18	125	.90	.53
3E7258	20	140	1.00	.59

Minimum Capacities from 3 to 5 mmfd.

Insulated Flexible Coupling



An insulated flexible coupling device for ganging condensers. Shpg. wt., 5 oz.
3C7265—List, 60c.
YOUR PRICE **23¢**

Equalizer



A small neutralizing or balancing condenser, having an exceptionally wide capacity range. For equalizing the units of a multiple-tuning condenser. Bakelite base, mica dielectric and heavy phosphor-bronze spring plate. Minimum capacity 2 mmfd. Shpg. wt., 6 oz.

3C7266	EC-35—2 to 35 mmfd.	14¢
List, 50c. YOUR PRICE		
3C7267	EC-80—20 to 100 mmfd.	15¢
List, 60c. YOUR PRICE		

Improved Hammarlund Midget Condensers



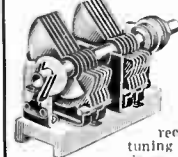
For use as short wave and ultra short wave tuning condensers. Designed to meet the strict demands of frequencies running up to 50 and 60 megacycles. Isolantite insulation reduces dielectric losses to a minimum and assures maximum and uniform efficiency under all conditions of temperature and humidity. A brush type four point wiping contact eliminates objectionable inductive reactance. Accurately fitted bearings at both ends of the condenser provide for long life, quiet operation and stability of calibration. Non-corrosive soldered brass plates eliminate vibration and effect lowest series resistance. All parts either soldered or riveted. End plates are of heavy aluminum and provisions are made for both single hole panel mounting and base mounting.

General Specifications: Plates are .0225" brass with .0245" airgap between plates. Standard condensers include stops and are made to increase capacity by clockwise rotation. Individually tested for breakdown on 500 volts A.C. and packed with 1 1/2" bakelite knob. Quality fully guaranteed.

Stock Number	Code Num. and Mfd. Capacity	Min. Plates (MMF.)	List Price	Your Price
3C7215	MC-325M	43	12 \$3.50	\$2.06
3C7216	MC-250M	31	10 3.00	1.76
3C7217	MC-200M	27	10 2.75	1.62
3C7218	MC-140M	19	7 2.50	1.47
3C7219	MC-100M	14	6 2.25	1.32
3C7220	MC-100S	11	6 2.25	1.32
3C7221	MC-75M	11	6 2.00	1.18
3C7222	MC-75S	11	6 1.60	.94
3C7223	MC-50S	7	5 1.80	1.06
3C7224	MC-35S	5	4 1.50	.89
3C7225	MC-20S	3	20 1.40	.82

"M"—Midline Plates. "S"—Semi-Circular Plates.

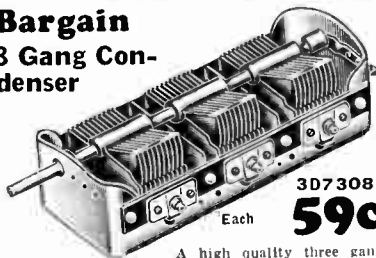
New Hammarlund Dual Midget Condensers



A high quality, small size two-gang condenser. Their rigidity, low losses and careful construction provide for greatest electrical and mechanical efficiency in all types of short wave receivers employing two-gang tuning condensers. The entire condenser is built on a strong Isolantite base, including a shield plate between the stators. Other specifications same as the single midget condensers. Single hole panel mounting. Overall length behind panel is 3 3/4".

Stock Number	Code No.	List Price	Your Price
3C7230	MCD-110-M (110 mmf. capacity per section)	\$4.00	\$2.35
3C7231	MCD-100-M (100 mmf. capacity per section)	3.50	2.05

Bargain 3 Gang Con- denser



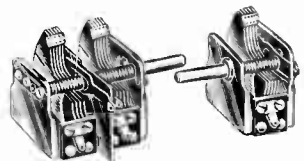
A high quality three gang condenser made in one of the best equipped plants by skilled workmen. Very accurate and unusually efficient. Each unit has separate neutralizing device for micrometric balancing. Rigid stamped steel frame, cadmium plated. Best quality aluminum plates. Each unit .00035 capacity. Body is 7 3/4 in. long, 3 3/8 in. wide.

"Star" Midget Condenser

Manufactured for the Rad-slek Company by Hammarlund. The most popular low priced nidget for set builders, experimenters and laboratories. Sizes for short wave tuning, regeneration, antenna coupling, verniers, etc. Light in weight, strong and compact in construction, smooth as velvet in operation. Low minimum capacity, low loss natural bakelite insulation, non-corrosive aluminum plates. Easy single hole mounting. 1/4" shaft. Individually packed with 1/2" bakelite knob. Size 1 1/2" deep behind panel, depending on capacity.

Stock Number	Capacity	Min.	List Price	Your Price
3D7286	.000015 mfd.	SM-25	\$0.85	\$0.49
3D7287	.000025 mfd.	SM-25	.85	.49
3D7288	.000050 mfd.	SM-50	.90	.54
3D7289	.000100 mfd.	SM-100	1.00	.59
3E7282	.000140 mfd.	SM-140	1.25	.74

Quality .00015 Mfd. Midget Condensers



A high quality small size condenser. Especially designed for all types of short wave receivers and converters employing either a one or two-gang condenser. Rigid construction provides for electrical and mechanical efficiency. Accurately fitted ball bearings at end of condenser shaft provide for long life, quiet operation and stability of calibration. Both models have counter clockwise rotation, trimmers on left side, and a 1 3/8" long, 1/4" diameter shaft.

3D7284	150 Mmf. Single Gang	Size: Height, 1 3/8"; width, 2 3/4"; depth, 1 3/8". Four threaded size 3/32 mounting holes in base. List Price, \$1.25.	59¢
YOUR PRICE			

3D7285	150 Mmf. Dual Gang	Size: Height, 1 3/8"; width, 3 1/4"; depth, 2 1/8". Three threaded size 3/32 mounting holes in base. List Price, \$2.25.	98¢
YOUR PRICE			

3 Gang .00015 Mfd. Midget Condensers

A high quality small size 3 gang condenser. Especially designed for the advanced short wave custom set builder. Allows maximum efficiency by tuning the antenna circuit, rigid in circuit at the same time. Is constructed exactly like the popular one and two gang condensers listed above. Counter-clockwise rotation, trimmers on left side, and a 1 3/8" long, 1/4" shaft.

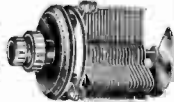


3E7283	150 Mmf. Three Gang	Size: Height 1 3/8", width 3 1/4", depth 3 1/4". Three threaded size 8/32" mounting holes in base. List Price, \$3.25.	\$1.48
YOUR PRICE			

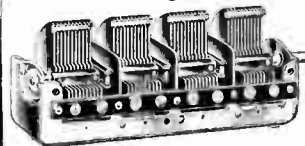
Thordarson Vernier Condenser Capacity .001 Mfd.

(43 plates)
3D7307
List Price, \$4.50
YOUR PRICE **39¢**

Completely shielded against body capacity. Dust shield protects plate. Double cone adjustable metal bearing. Bearing secured directly to the shielding base plate without any dielectric. Hard rubber insulation is used throughout. Lowest possible zero capacity and dielectric loss. Especially useful for the reception of long waves or for construction of wave traps. Supplied complete with vernier adjustment, knob and dial. Lifetime template included.



4-Gang Condenser



3D7306
List Price \$5.00.
YOUR PRICE **79¢**

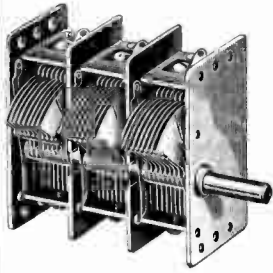
Shielded between sections. Heavy aluminum plates, 3/8 inch diam. steel shaft. Self adjusting bearings at both ends of the shaft. Smooth easy rotation. Heavy steel frame, cadmium plated. Width 3 1/2". Height 3 1/2". Length 6 1/2". Shaft, 1 3/8" long. Capacity .00035 Each Section.

Hammarlund Padding Condensers

For trimming, aligning, compensating and padding purposes. A compact, adjustable condenser. The higher capacity units are used as oscillator series condensers. Bases are Isolantite. The phosphor bronze flexible plate is shaped to provide straight-line-capacity increase. Adjusting screws have machine cut threads and self-aligning conical seats. Solder dipped terminals. Fixed plates are securely anchored.

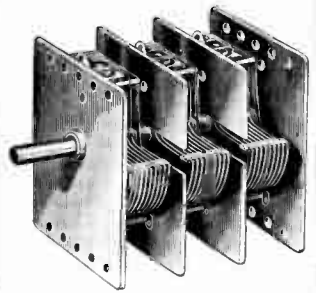
Stock Number	Capacity Min.	Mmf. Max.	List Price	Your Price
3E7260	10	70	\$0.50	29¢
3E7261	70	140	.60	35¢
3E7262	140	220	.70	41¢
3E7263	600	1000	1.00	59¢
3E7264	1000	1300	1.25	73¢

Quality Variable Condensers



The Condensers described on this page are the finest made. They are the first quality product of the originators of the variable Gang Condenser carrying a section with specially shaped plates for tuning the oscillator of Superheterodyne circuits, and the Company which supplies the majority of the largest nationally known Radio Set Manufacturers. Their long experience in this field is reflected in the superior workmanship and advanced mechanical and electrical features to be found in these fine units: Frames and shields of heavy cold rolled steel finished in bright cadmium plate, heavy aluminum plates, ball bearing shafts, new vernier mechanism; and extremely accurate calibration—capacity variation between gangs plus or minus 1%. There is a type for every replacement or constructional need available.

Note: All Condensers Illustrated are of Clockwise Rotation.



Low Shield Superheterodyne Model

Special oscillator section at rear of condenser for tuning the oscillator of superheterodyne receivers without the use of a padding system. For use with a 175 K.C. intermediate frequency. Maximum capacity of R.F. section .000365 mfd. Minimum capac-

ity .00020 mfd. Maximum capacity of oscillator section .000354 mfd. Minimum capacity .00020 mfd. Size of end plate: 2 1/2" x 3 1/2". Length: 2-gang 2 1/2", 3-gang 4", 3/8" ball bearing shaft.

High Shield Superheterodyne Model

Has special section at rear for tuning oscillator of superheterodyne circuits without the use of a "padding" system. Designed for 175 K.C. intermediate frequency. Capacity of R.F. sections, maximum: 000365 mfd.,

minimum: .00020 mfd. Capacity of oscillator section, maximum: .000354 mfd., minimum: .00020 mfd. Size of end plate: 4x3 1/2". Length: 2-gang: 2 1/2", 3-gang: 4", 4-gang 5 1/4". 3/8" ball bearing shaft.

Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7350	2	Right	\$1.11
3D7351	2	Left	
3D7352	3	Right	1.67
3D7353	3	Left	

Counter-Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7356	2	Right	\$1.11
3D7357	2	Left	
3D7358	3	Right	1.67
3D7359	3	Left	

Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7374	2	Right	\$1.18
3D7375	2	Left	
3D7376	3	Right	1.76
3D7377	3	Left	
3D7378	4	Right	2.35
3D7379	4	Left	

Counter-Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7380	2	Right	\$1.18
3D7381	2	Left	
3D7382	3	Right	1.76
3D7383	3	Left	
3D7384	4	Right	2.35
3D7385	4	Left	

Low Shield T.R.F. Models (Capacity: .000365 mfd. Max., .00020 mfd. Min.)

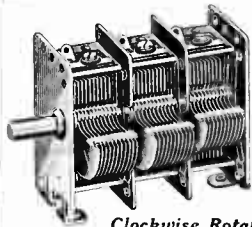
Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7362	2	Right	\$1.11
3D7363	2	Left	
3D7364	3	Right	1.67
3D7365	3	Left	

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7368	2	Right	\$1.11
3D7369	2	Left	
3D7370	3	Right	1.67
3D7371	3	Left	

High Shield T.R.F. Models (Capacity: .000365 mfd. Max., .00020 mfd. Min.)

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7386	2	Right	\$1.18
3D7387	2	Left	
3D7388	3	Right	1.76
3D7389	3	Left	
3D7390	4	Right	2.35
3D7391	4	Left	

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7392	2	Right	\$1.18
3D7393	2	Left	
3D7394	3	Right	1.76
3D7395	3	Left	
3D7396	4	Right	2.35
3D7397	4	Left	



New Compact Condensers Superheterodyne and T.R.F. Models

SUPERHETERODYNE MODELS for use with 175 KC i.f. Maximum capacity of r.f. section .000365 mfd., minimum .00016 mfd. Maximum of oscillator section .000275 mfd., minimum .00013 mfd. Covers 1800 to 535 K.C. When used to cover this range the r.f. inductances should be 210 M.H. and oscillator inductance 166.5 M.H. Size of end plates 3 1/2 x 1 1/2". Length, 2-gang 2 1/2", 3-gang 3 1/2". Ball bearing shaft 3/8" diameter.

Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7310	2	Right	\$1.00
3D7311	2	Left	
3D7312	3	Right	1.47
3D7313	3	Left	

Counter-Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7314	2	Right	\$1.00
3D7315	2	Left	
3D7316	3	Right	1.47
3D7317	3	Left	

T. R. F. Models

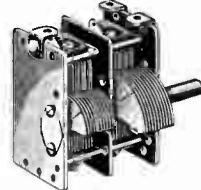
Maximum capacity .000365 mfd. Minimum capacity .00016 mfd.

Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7318	2	Right	\$1.00
3D7319	2	Left	
3D7320	3	Right	1.47
3D7321	3	Left	

Counter-Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7322	2	Right	\$1.00
3D7323	2	Left	
3D7324	3	Right	1.47
3D7325	3	Left	



New 456 K. C. Condenser

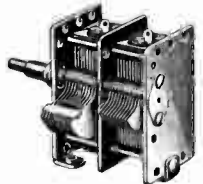
Tunes from 1800 to 535 K.C.
Two Gang

Shaft 3/8" diam. 1 1/2" long. 3 tapped mounting holes in bottom and in mounting feet on slides to fit 5/16" thread. 2 1/2" long, 3 3/8" wide, 1 1/2" high. Maximum capacity of R.F. section .000365 mfd. Minimum capacity .00016 mfd. Maximum of oscillator section .000176 mfd. Minimum .00016 mfd.

Stock No.	Trim-mers On	Rotation	Your Price Each
3D7327	Left	Clockwise	\$1.00
3D7326	Right	Clockwise	
3D7329	Left	Counter Clockwise	
3D7328	Right	Counter Clockwise	

2 Gang 456 K. C. Model Vernier 6 to 1 Ratio

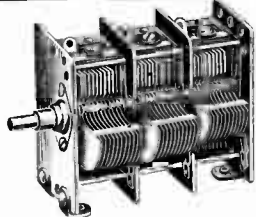
Has an extended range of 1800 to 535 K.C. The high ratio vernier device on the shaft allows for fine tuning on the low waves as well as on the regular broadcast band. 1/2" shaft.



Stock No.	Trim-mers On	Rotation	Your Price Each
3D7331	Left	Clockwise	\$1.13
3D7330	Right	Clockwise	
3D7333	Left	Counter Clockwise	
3D7332	Right	Counter Clockwise	

New 6 to 1 Ratio Vernier Variable Condensers

A new ingenious arrangement in the shaft of these condensers provides for a vernier drive which eliminates the use of costly vernier dials and still allows for critical tuning which is most essential with modern broadcast or short wave receivers. Ball bearing 3/8" shaft extends 3/8" distance from end of shaft to shield 1 1/2". Construction details, physical dimensions, electrical specifications and applications same as those of the New Compact Variable Condensers listed above.



Superheterodyne Models

Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7334	2	Right	\$1.13
3D7335	2	Left	
3D7336	3	Right	1.60
3D7337	3	Left	

Counter-Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7338	2	Right	\$1.13
3D7339	2	Left	
3D7340	3	Right	1.60
3D7341	3	Left	

T. R. F. Models

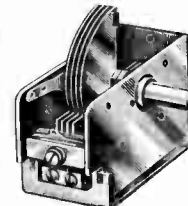
Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7342	2	Right	\$1.13
3D7343	2	Left	
3D7344	3	Right	1.60
3D7345	3	Left	

Counter-Clockwise Rotation

Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7346	2	Right	\$1.13
3D7347	2	Left	
3D7348	3	Right	1.60
3D7349	3	Left	

Note. See page 76 for dials and escutcheons for Vernier condensers.



Single Gang Condensers

Low Minimum

Cadmium plated. End plate 3 1/2 x 2 1/2". Heavy aluminum plates. Wiping phosphor bronze rotor connections. Shielded minimum compensators with grounded adjusting screw. Steel shaft 3/8 inch diameter—ball bearings.

Stock Number	Cap. Mfd.	Plates	Price Each
3D7250	.0001	6	59c
3D7251	.00015	8	69c
3D7252	.00025	12	74c
3D7253	.00036	17	78c
3D7254	.00046	21	89c

Short-Wave Plug-In Coils

Short wave coils are not just cylinders wound with wire. These new Coils are the result of research by competent engineers. Wire correctly spaced on each individual coil for efficiency—outperform other coils. A form with a solid backing for the winding insures the wire staying on the form as originally wound and prevents a change of inductance. Higher frequency coils have plated wire. All coils are for use with a 140 or 150 mmfd. short-wave condenser.



Four Prong

3E6680— Set of 4, YOUR PRICE **\$1.18**

Regular standard 2-circuit 4 prong base coils. Primary and secondary on each coil. 15-200 meters. 4 coils to a set.

3E6688—Ultra Short Wave Coil. Range 9.5 to 21 meters. 4 prong. **YOUR PRICE** **53¢**

3E6681—Broadcast coils same as above but tune 190-550 meters. 4 prong bases. **YOUR PRICE, Set of 2 Coils** **88¢**

5 Prong Coils

Regular standard 2-circuit 5-prong base. Primary and secondary on each same as above but 5-prong base interchangeable with band spread coils. 15 to 200 meters.

3E6670—Set of 4 coils. **YOUR PRICE** **\$1.47**

3E6671—Broadcast coils same as above but tune 190-550 meters. 5 prong bases. **YOUR PRICE, Set of 2 coils** **\$1.03**

6 Prong Coils

Regular standard 3-circuit 6-prong coils. Primary and secondary and tickler on each coil. 15-200 meters.

3E6672—Set of 4 coils. **YOUR PRICE** **\$2.04**

3E6669—Ultra Short Wave Coil. Range 9.5 to 21 meters. 6 prong. **YOUR PRICE** **59¢**

3E6673—Broadcast coils same as above but tune 190-550 meters. 6 prong bases. **YOUR PRICE, Set of 2 coils** **\$1.18**

Band Spread Coils

Short Wave. Low loss ceramic padding condenser mounted on each coil. For use on the congested "ham" bands. Spreads all bands for convenient tuning with usual 140-150 mmfd. condenser.

5 prong bases.

Stock Number	Range in Megacycles	Stock Number	Range in Megacycles
3E6674	14.0-14.4	3E6676	3.5-4.0
3E6675	7.0-7.3	3E6677	1.7-2.0

YOUR PRICE **59¢**

Each coil **Set of 4 coils** **\$2.35**

Long Wave. Highly efficient hand windings. Used in any short wave receiver using .0014 S.W. tuning condenser. For use on the interesting transatlantic cable, ship traffic, European broadcast, airplane and weather report bands, etc.

5 prong bases.

Stock Number	Range in Megacycles	Stock Number	Range in Megacycles
3E6759	15.1-15.4	3E6761	9.5-9.6
3E6760	11.7-11.9	3E6762	5.95-6.15

YOUR PRICE **59¢**

Each Coil **Set of 4 coils** **\$2.35**

Plug-In Coil Forms

Without Windings

Moulded black bakelite. In top flange is groove with colored bands of red, yellow, green, blue. One of each color form included in set. Hand rim on top of coil form makes removal form socket easy. Diam. 1 1/4". Winding Length 2 inches.

Stock Number	Number Prongs	List Price Per Set of 4	Your Price Per Set of 4
3E6682	4	\$.80	47¢
3E6683	5	.80	47¢
3E6684	6	.80	47¢
3E6687	7	1.20	71¢
3E6688	8	1.20	71¢

New Band Spreading 5 Prong Coil Forms

A high quality ceramic adjustable padding condenser is mounted on top of each coil form. Size of form is the same as those listed above.

3E6695—5 prong form with 80 mmfd. cond. **3E6696—5 prong form** with 180 " **List Price, 50¢.**

YOUR PRICE **29¢**

NEW ALDEN SHORT-WAVE Coil Selector Unit

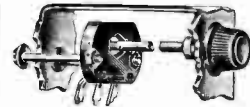
For All 4, 5 and 6 Prong Coils

Use this new model coil selector in any receiver new or old and secure the utmost convenience in changing coils. Any coil instantly swings into circuit by turning the knob. All 4, 5 and 6 prong coils are rigidly held by the specially constructed multiple combination 4, 5, and 6 hoe sockets without adjustment of any kind.

Compact and Efficient

Knob and indicator plate mounted on the face of the panel show what coil is in circuit. Single units have sockets for 4 coils. Two units can be mounted in tandem so that 8 coils can be individually thrown into circuit a pair at a time. Reliable self-cleaning pressure contacts provide trouble-free operation at all times. Two size 6/32 threaded mounting holes in bottom of unit allow unit to be firmly mounted. 8 1/4" knob shaft on unit has a 3/8" threaded bushing for panel mounting. Shaft extends 1/2" beyond bushing. See Page 200 August '34 Radio Craft.

New Antenna Trimmer Assembly



3E6698—

List Price, 75¢. **YOUR PRICE** **44¢**

7 to 80 mmfd.

Insulated Shaft Extension

Complete assembly for placing the antenna adjustment where it belongs—on the front panel. 7" long insulated extension shaft fits adjustment screw of trimmer condenser which mounts on back of chassis near antenna binding post. Collar and knob supplied. Entire assembly is 8 1/4" long. A high quality 7 to 80 mmfd. trimming condenser is used. Best grade of mica and porcelain for base is used. The handiest thing in short wave.

Isolantite Short-Wave Coils



Wound on a non-hygroscopic ceramic material. High frequency losses are kept to a minimum. Eight moulded ribs on coil forms hold the windings so they are practically air core wound. Coils are for use with a 150 mmfd. tuning condenser.

4 Prong Short-Wave Coils

3E8085—Set of 4 coils. Covering from 16 to 217 meters. Individual Ranges of individual coils are 16-36, 33-65, 57-115, 108-217. 2 windings. List, \$4.00.

YOUR PRICE **\$2.35**

4 Prong Broadcast Coils

3E8086—Set of 2 coils. 190 to 550 meters. Ranges of individual coils are: 190-310; 300, 550. 2 windings. List, \$2.50.

YOUR PRICE **\$1.47**

4 Prong Ultra Short-Wave Coil

3E8087—One coil with a range of from 9.5 to 23 meters. 3 windings. List, \$1.35.

YOUR PRICE **79¢**

6 Prong Short-Wave Coils

3E8088—Set of 4 coils. 16 to 200 meters. Ranges of individual coils are: 16-38, 35-75, 73-137, 135-200. 3 windings. List, \$5.00.

YOUR PRICE **\$2.94**

6 Prong Broadcast Coils

3E8089—Set of 2 coils. 190 to 550 meters. Ranges of individual coils are: 190-310, 300-550. 3 windings. List, \$3.00.

YOUR PRICE **\$1.76**

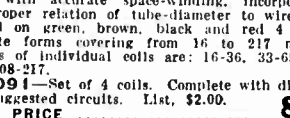
6 Prong Ultra Short-Wave Coil

3E8090—One coil with a range from 9.5 to 21 meters. 3 windings. List, \$1.50.

YOUR PRICE **88¢**

SPECIAL VALUE

Short-Wave Plug-In Coil Kit



Supplied in matched sets having uniform inductance with accurate space-winding. Incorporating the proper relation of tube-diameter to wire size. Wound on green, brown, black and red 4 prong bakelite forms covering from 16 to 217 meters. Ranges of individual coils are: 16-36, 33-65, 57-115, 108-217.

3E8091—Set of 4 coils. Complete with diagram and suggested circuits. List, \$2.00.

YOUR PRICE **89¢**

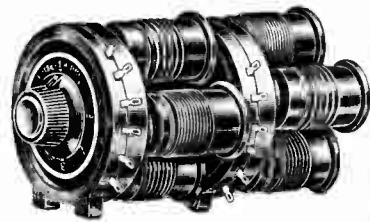


Illustration shows two units combined in Tandem. Price is for single unit.

Single Unit Price

3E6697—Coil Selector. Complete with es-cutechon and knob. No coils included. **YOUR PRICE** **\$2.06**

Short-Wave Plug-In Coil Kit

4 Prong Base



Four coils wound on low loss moulded bakelite. Cover wave band of 16 to 217 meters when tuned with a .0015 condenser. Supplied with 16 different circuit diagrams, instructions, and parts list.

3E2274—Ultra Short-Wave Coil. Range from 9 1/2 to 21 meters. List, \$1.00.

YOUR PRICE **59¢**

Broadcast Coils. Range 190 to 550 meters. Individual ranges are 190-310, 300-550.

3E2276—Set of 2 Coils. List, \$1.85.

YOUR PRICE **\$1.09**

6 Prong, 3 Windings

Have primary, secondary and tickler windings. 16 to 200 meters. Supplied with 16 circuit diagrams and instructions.

3E2272—List Price, \$3.75. **YOUR PRICE, Set of 4 Coils** **\$2.19**

3E2270—Ultra Short Wave Coil. Range from 9.5 to 21 meters. List, \$1.25.

YOUR PRICE **74¢**

3E2271—Broadcast Coils. Range 190 to 550 meters. Individual Ranges 190-310, 300-550. List Price, \$2.25.

YOUR PRICE **\$1.32**

Plug-In Coil Forms

Ribbed

Made of special low loss moulded bakelite with prongs set in to fit either 4 or 5 prong standard tube sockets.

Size of form overall 2 3/4" x 1 1/4" inches. Winding space 2 1/4" inches high. Colors: Black, brown, red, green, and orange. Order by number to indicate color wanted.

	4 Prong	5 Prong	6 Prong	7 Prong
Color	Stock Number	Stock Number	Stock Number	Stock Number
Black	3C2277	3C2282	3C2287	3E2292
Brown	3C2278	3C2283	3C2288	3E2293
Red	3C2279	3C2284	3C2289	3E2294
Green	3C2280	3C2285	3C2290	3E2295
Orange	3C2281	3C2286	3C2291	3E2296

Net Each **18c 20c 22c 26c**

Isolantite Coil Forms

Ribbed

Lowest loss. Especially effective on short waves. Has prongs in base which fit standard tube socket. Permit instant change in circuit of coils for different wave lengths. Diameter 1 1/4" inches. Overall length 3 inches. Winding space 2 1/4" inches long. Holes in body for leads and taps.

Stock Number	Base	List Price	Your Price
3C2488	4 prong	50¢	29 c
3C2489	5 prong	55¢	32 c
3C2490	6 prong	60¢	35 c
3C2487	7S prong	60¢	35 c

YOUR PRICE **58¢**

Hammarlund Isolantite Coil Forms

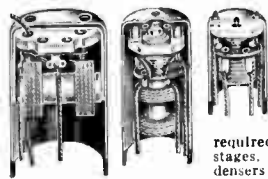
Especially efficient for short wave (high frequency coils). Lower leakage, less moisture absorption. Very rugged. Diameter 1 1/4" inches. 1/4" wide moulded depression for primary. 2 inch winding space for secondary with moulded holes in form for tapping at any desired point. Convenient etched cap.

List, \$1.00. **YOUR PRICE** **58¢**

3E7205 4 pin | **3E7206** 5 pin | **3E7207** 6 pin |

R. F., I. F., and Antenna Coils, Chokes and Transformers

I. F. Transformers



A complete line of all I. F. transformers necessary for replacement or new set design. Can be used in any combination required for the I. F. stages. The tuning condensers are of the mica compression type, on Isolantite bases and are adjustable from the top of the shield can. Leads are color coded. Diagram is furnished with each unit. The inductances are the lattice wound type mounted on dehydrated wood forms specially impregnated and impervious to moisture.

I. F. Coils in Large Size Shield

Can Size 2 1/2" x 3" high
Mtg. Hole Centers 1 1/2"

Double Tuned	Peak Frequency in Kilocycles	Frequency Range	Single Tuned
3E6600	465	442-470	3E6604
3E6601	262	248-277	3E6605
3E6602	175	168-180	3E6606
3E6603	115	100-130	3E6607

YOUR PRICE EACH... **84¢** YOUR PRICE EACH... **64¢**

Center-Tapped

For use with Wunderlich, 55's, 75's, 85's, 2A6's, etc.

Double Tuned	Peak Frequency in Kilocycles	Frequency Range	Single Tuned
3E6609	465	442-470	3E6613
3E6610	262	248-277	3E6614
3E6611	175	168-180	3E6615
3E6612	115	100-130	3E6616

YOUR PRICE EACH... **90¢** YOUR PRICE EACH... **70¢**

I. F. Coils Regular Size Shield

Can size 1 1/2" x 2 3/4" high Mtg. hole centers 1 1/2"	Can size 1 1/2" x 1 1/2" high Mtg. hole centers 1 1/2"
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Double Tuned	Peak Frequency in Kilocycles	Frequency Range	Single Tuned
3E6617	465	442-470	3E6621
3E6618	262	248-277	3E6622
3E6619	175	168-180	3E6623
3E6620	115	100-130	3E6624

YOUR PRICE EACH... **84¢** YOUR PRICE EACH... **64¢**

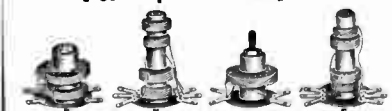
Center-Tapped

For use with Wunderlich, 55's, 75's, 85's, 2A6's, etc.

Double Tuned	Peak Frequency in Kilocycles	Frequency Range	Single Tuned
3E6625	465	442-470	3E6629
3E6626	262	248-277	3E6630
3E6627	175	168-180	3E6631
3E6628	115	100-130	3E6632

YOUR PRICE EACH... **88¢** YOUR PRICE EACH... **70¢**

Antenna and Oscillator Coils For Superheterodynes



Lateral wound antenna, and oscillator coils for superheterodyne use. These can be used in pairs or the oscillator coil can be used in conjunction with antenna and R. F. coils shown in other listings. The windings are dipped and have a 1" round bakelite terminal mounting panel. The broadcast coils are wound on a 1/2" x 3/4" special dowel while the combination short wave and broadcast coils are wound on a special 3/8" x 1 1/2" dowel. For use with a .000365 mfd. (.00035) tuning condenser.

3E6633—Antenna Broadcast Coil (1750 to 550 meters)..... **42¢**

YOUR PRICE, Each Coil.....

3E6634—Antenna Shortwave and Broadcast Coil (550 to 1500 and 1500 to 4000 K.C.)..... **57¢**

YOUR PRICE, Each Coil.....

Oscillator Coils

Broadcast 550 to 1500 K.C.	Broadcast and Shortwave 550 to 1500 and 1500 to 4000 K.C.
Stock Number	To Secure I.F. Specified Below
3E6635	465 Kilocycles
3E6636	262 Kilocycles
3E6637	175 Kilocycles
3E6638	115 Kilocycles

YOUR PRICE, EA. **50¢** YOUR PRICE, EA. **65¢**

Litz Wound Antenna and R. F. Amplifier Coils



We are showing a complete line of coils systematically listed so that the particular needs of the service man or set builder can be readily filled. Matched to a .000365 mfd. (.00035) variable condenser. This value condenser is used in the majority of sets that are in operation today. We recommend that a complete set of coils be replaced in a receiver in order to obtain maximum efficiency as it is impossible to have best results by just substituting one coil where the original inductance cannot be matched. In selecting coils of a particular classification, i. e., one Antenna and one R. F., two R. F. only, or one Antenna and two R. F., whatever combination desired will be shipped in perfectly matched set of coils. Coils are precision machine wound and use the best of materials. Thoroughly impregnated and impervious to moisture. The proper relation between tube diameter and wire size has been efficiently chosen and, regardless of the size of the coil to be substituted, the particular size difference between low impedance and high impedance coils is in the primary windings. Instead of having a primary with comparatively few turns wound over the secondary as furnished in all low impedance coils, the high impedance antenna coil has a lateral or honey-comb winding directly adjacent to the secondary. The high impedance R. F. has the lateral winding wound on a dowel inside the coil form. High impedance coils are the necessary where screen-grid tubes are used in the circuits and furnish a maximum gain throughout the entire wave band. Litz coils can be readily substituted for Enamel and furnish approximately 20 per cent higher gain and increased selectivity over the broadcast band.

Shielded Litz Coils

The proper relation between the shielding and the coil insures a minimum of loss.
Can Size 1 1/2" x 2 1/4" high.
Mtg. hole Centers 1 1/2".

3E6643—Low Impedance Antenna Coil.
3E6644—Low Impedance R. F. Coil
YOUR PRICE..... **34¢**
EACH

3E6645—High Impedance Antenna Coil.
3E6646—High Impedance R. F. Coil.
YOUR PRICE..... **40¢**
EACH

Unshielded Ant. and R. F. Coils



The same as those listed above except without shield. Supplied on a standard 3/8" outside diameter by 2 1/4" high coil form. Mounting bracket and dowel with mounting screws supplied enable mounting of coil in any position.

3E7150—Low Impedance Antenna Coil.
3E7151—Low Impedance R. F. Coil.
YOUR PRICE..... **27¢**
EACH

3E7152—High Impedance Antenna Coil.
3E7153—High Impedance R. F. Coil.
YOUR PRICE..... **34¢**
EACH

Solenoid Plain Enamelled Coils

The same as above coils except have a plain enamelled single layer winding. All dimensions are the same as for similar litz wound coils listed above.

3E7154—Low Impedance Antenna Coil.
3E7155—Low Impedance R. F. Coil.
YOUR PRICE..... **27¢**
EACH

3E7156—High Impedance Antenna Coil.
3E7157—High Impedance R. F. Coil.
YOUR PRICE..... **34¢**
EACH

Unshielded Coils

3E7158—Low Impedance Antenna Coil.
3E7159—Low Impedance R. F. Coil.
YOUR PRICE..... **20¢**
EACH

3E7160—High Impedance Antenna Coil.
3E7161—High Impedance R. F. Coil.
YOUR PRICE..... **27¢**
EACH

Combination Short Wave and Broadcast Antenna and R. F. Amplifier Coils

We are showing the five most popular types of short wave coils for R. F. sets which will give sufficient variety to accomplish the majority of uses required in building combination short wave and broadcast sets. In all cases circuit diagrams are included with each coil to give a clear and concise method for replacing in old sets or building and changing over new short wave amplifiers. In cases where shunts are specified, this means an additional winding adjacent to the secondary to cover the short wave band. These are recommended for maximum efficiency in comparison to the tapped coils where the secondary winding, itself, has been tapped to provide a lower inductance for short wave tuning. All these cover the wave lengths specified with a standard .000365 mfd. (economically designated .00035 mfd.) variable condenser.

Unshielded Plain Enamel

75 to 550 Meters
Unshielded high impedance primary plain enamel secondary with additional plain enamel short wave shunt to cover wave bands 75 to 200 meters and 200 to 550 meters complete with wiring diagram. Coil size 3/8" O. D. x 2 1/4" long.
3E7162—Antenna Coil.
3E7163—R. F. Coil.
YOUR PRICE..... **33¢**
Each Coil

Unshielded Bank Wound

80 to 550 Meters
Unshielded high impedance primary bank wound litz secondary with tap on secondary for short wave covering wave lengths 80 to 200 meters and 200 to 550 meters complete with wiring diagram. Coil size 3/8" O. D. x 2 1/4" long.
3E7164—Antenna Coil } Your Price
3E7165—R. F. Coil } Each Coil.... **42¢**

Shielded Bank Wound

120 to 550 Meters
Shielded high impedance primary bank wound litz secondary tap on coil for short wave coverage covering 120 to 200 meters and 200 to 550 meters complete with wiring diagram. Coil size 1" O. D. x 2 3/4" long. Size of shield can 3/4" diameter x 2 1/4" high, two 3/8" spade bolts for mounting with centers 1 3/4".
3E7166—Antenna Coil } Your Price
3E7167—R. F. Coil } Each Coil.... **47¢**

Shielded Bank Wound

75 to 550 Meters
Shielded high impedance primary bank wound litz secondary with shunt winding of primary for short wave coverage. Wave length range 75 to 200 meters and 200 to 550 meters complete with wiring diagram. Size of coil form 1" O. D. x 2 1/4" long. Size of shield can 1 1/2" O. D. x 2 1/4" high with two 3/8" spade bolts for mounting centers 1 3/4". Wiring diagram included.
3E7168—Antenna Coil } Your Price
3E7169—R. F. Coil } Each Coil.... **52¢**

High Gain Coil

80 to 550 Meters
High impedance special short wave coil both primary and secondary for lateral winding secondary and short wave shunt using litz wire exceptionally high gain covering 80 to 200 meters and 200 to 550 meters wound on special dowels 1/2" diameter x 1 1/2" long with 1" round bakelite lug panel, one screw mounting. Wiring diagram included.
3E7170—Antenna Coil } Your Price
3E7171—R. F. Coil } Each Coil.... **59¢**

S. W. Plug-In Octo Coils

Finest quality S. W. Coils. Moulded bakelite forms. Careful accurate design. Fit standard 4-prong UX sockets. Four coils, covering bands 16 to 30, 29 to 58, 54 to 110, 103 to 225 meters.
3C6685—List, \$5.00.
YOUR PRICE, Set Four Coils..... **\$1.47**

3C6686—Broadcast coil range 200 to 550 meters.
YOUR PRICE..... **45¢**

Coil and Matched Condenser Kits

Scientifically Engineered

Radolek has correctly engineered the receiver that can be constructed from each coil kit listed on this page. Our engineers in collaboration with the engineers of leading coil and variable condenser manufacturers have scientifically designed these kits and actually built laboratory models of the completed receivers. Our tests have proved that these sets are the finest obtainable in their class. The coils have been especially wound and designed for the variable condensers specified for use

with each set of coils. Satisfactory performance can only be assured when the variable condenser we supply is used. Our organization realizes that coils are of no use to the set builder unless they are made up in matched kits and constructed to the exact specifications of the variable condenser with which they are used. We have done this and in addition are supplying all the information and listing all the parts necessary to properly complete the receivers.

Instructions—Diagrams—List of Materials Cut Out and Drilling Template

Three drawings are supplied with each coil kit. A Schematic wiring diagram, Pictorial wiring diagram and Chassis layout diagram. The pictorial wiring diagram, supplied shows the connection of every wire in its exact position and relation to each part. All wiring is done under the chassis. The chassis layout diagram shows the exact position for

mounting each part on the chassis base. A drilling template is supplied. A list of the parts giving all their electrical values and specifications is also included in every coil kit. The diagrams supplied can be followed with such ease that even a novice can properly construct these receivers with little or no supervision.

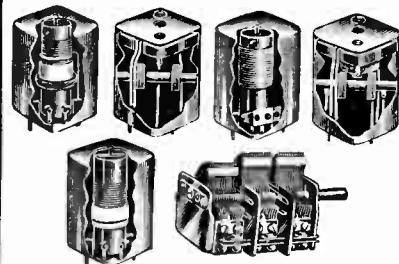
8 or 11 Tube Superhet Kit

175 to 550 Meters
(1720 to 540 K.C.)

3D8616
\$5.95

Complete with Variable Condenser and 2 sets of diagrams for building either an 8 or 11 tube receiver.

Kit of 5 litz wound coils consisting of 1-Antenna coil, 1-Oscillator coil and 2-Intermediate Frequency transformers peaked at 175 K.C. These coils are precision machine wound and with them a receiver of unusual sensitivity and selectivity can be constructed. Coast to coast reception under favorable conditions can be obtained on the regular broadcast band. Foreign broadcast, police calls, ship to shore communication and amateur transmissions are all instantly available on the short wave band.



and with them a receiver of less than 1 microvolt sensitivity and perfect 10 K.C. selectivity can be constructed.

Great Distance Range

The receivers that can be built from these coils are truly masters of the air. They are capable of bringing in far distant stations with magic ease and at full volume. In addition to all the powerful stations located throughout the entire Western Hemisphere you will enjoy the thrill of pulling in the faintest of radio signals broadcast by hundreds of smaller and less powerful stations; police calls from all over the country can be easily received. The unusual selectivity of this receiver eliminates interference from even high powered local stations. A colossal achievement of engineering skill.

Tubes Used in 11 Tube Kit

Designed for use with 1-56, 2-57, 4-58, 1-55, 2-2A5, 1-5Z3 type tubes. A type 58 is used in the first R.F. stage and one as a first detector and another as an I.F. tube. A type 56 is used as an oscillator tube. A 55 as a second detector and A.V.C. tube operating as a full wave rectifier. A 57 as a first A.F. tube. A 57 as a squelch control and a type 58 used as a phase reverser for operating the 2-2A5's resistance-coupled in push-pull. The 5Z3 is a full wave power rectifier. Send for list of other parts required.

Added Features on 11 Tube Receiver

1. SQUELCH CONTROL—noise suppressor for quiet tuning. Eliminates noises encountered between stations when tuning.
2. Resistance Coupled Push-Pull Amplification—Allows for an unusually wide audio frequency response.
3. Phase Reverser for Push-Pull stage.

Tubes Used in 8 Tube Kit

Designed for use with 1-56, 3-58, 1-55, 2-2A5, 1-5Z3 type tubes. A type 58 is employed in the R.F. stage, also one is used as a first detector and another as an I.F. tube. A type 56 is the oscillator. A 55 is used as a 2nd detector and A.V.C. tube operating as a full wave rectifier and in addition as a first stage A.F. tube. 2 type 2A5 Pentode power output tubes and a 5Z3 rectifier.

A.V.C., Tone Control, Meter Tuning

The coils and circuits for both receivers are designed to incorporate automatic volume control, tone control and visible meter tuning. These features in addition to the expertly engineered chassis make these receivers the finest radio it is possible to build.

3D8616—Kit of 5 coils .000400 mfd., 3 gang variable condenser, list of parts and 2 sets of diagrams for building either an 8 or 11 tube receiver.

YOUR PRICE \$5.95
Designed for construction on a size 17" long, 10" wide, 3" deep chassis base.

7 Tube Shortwave and Broadcast Superheterodyne

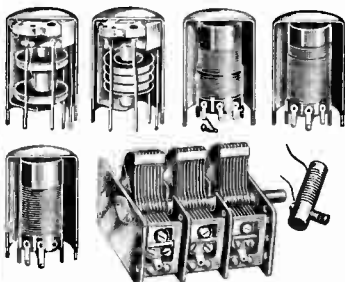
75 to 500 Meters
(540 to 4000 K.C.)

3D8613
\$4.05

Complete with Variable Condenser

Tubes Used: 1-56, 1-57, 2-58, 1-55, 1-2A5, 1-80.

75 to 550 meters (540 to 4000 K.C.). Kit of 6 coils consisting of 1-Antenna and Preselector coil, 1-Detector Input coil, 1-Oscillator coil, 2-Intermediate Frequency coils peaked at 175 K.C., and 1-Short Wave Choke. These coils are all precision machine wound and with them a receiver of unusual sensitivity and selectivity can be constructed. Coast to coast reception can be obtained on the regular broadcast band. Foreign broadcast, police calls, ship to shore communications and amateur transmissions are all instantly available on the short wave band.



A.V.C. and Tone Control

Circuits are designed for automatic volume control and tone control. Both the features are easily built into this receiver.

3D8613—Kit of 6 coils, .000365 mfd., 3 gang variable condenser, list of parts and all diagrams.

YOUR PRICE \$4.05
Designed for construction on a Chassis Base 12 1/2" long, 9" wide, 2 1/4" deep.

5 Tube Shortwave and Broadcast Superheterodyne

75 to 550 meters
(540 to 4000 K.C.)

3D8610
\$3.75

Complete with Variable Condenser Tubes Used

1-57, 1-58, 1-55,

1-2A5, 1-80.

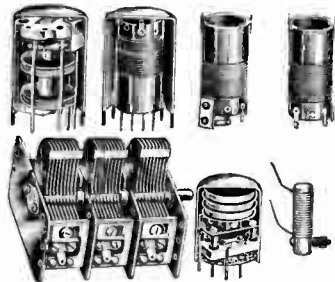
Tunes from 75 to 550 meters (510 to 4000 K.C.). Kit of 6 coils consisting of 1-Antenna and Preselector coil, 1-Detector Input coil, 1-Oscillator coil, 2-Intermediate Frequency coils peaked at 175 K.C., and 1-Short Wave Choke. These coils are all precision machine wound and with them a receiver of unusual sensitivity and selectivity can be constructed. Coast to coast reception under favorable conditions can be obtained on the regular broadcast band. Foreign broadcast, police calls, ship to shore communication and amateur transmissions are all instantly available on the short wave band.

A.V.C. and Tone Control

Circuits are designed for automatic volume control and tone control. Both these features are easily built into the receiver.

3D8610—Kit of 6 coils, .000365 mfd., 3 gang Variable Condenser, list of parts and all diagrams.

YOUR PRICE \$3.75
Designed for construction on a Chassis base 12 1/2" long, 8" wide and 2 1/4" deep.



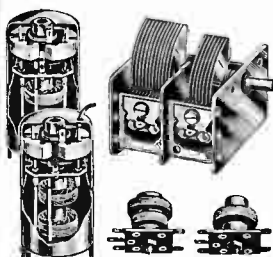
5 Tube A. C., D. C. Superhet

175 to 550 Meters
(1720 to 540 K.C.)

Tubes Used: 2-6D6, 1-75, 1-43, 1-25Z5.

Kit of 4 coils consists of 1 Antenna Coil, 1 Oscillator Coil and 2 Double Tuned Intermediate Frequency coils peaked at 456 K.C. These coils are precision machine wound and with them a receiver of unusual sensitivity and selectivity can be constructed. Coast to coast reception under average conditions can be obtained. Police calls of many of the larger cities are available. In order to obtain the best results the condenser we supply with the coil kit must be used.

3D8608—Kit of 4 coils, 2 Gang .000365 mfd. special superhet variable condenser, schematic diagram, and list of materials.



YOUR PRICE \$2.95

4 Tube A. C.—D. C. T. R. F.

175 to 550 Meters
(1720 to 540 K.C.)

Tubes Used: 1-6D7, 1-6E7, 1-43, 1-25Z5.

A Schematic Diagram, and List of Parts are supplied with the 4 tube and 5 tube A.C., D.C. coil kits. No other diagrams are included, neither can they be supplied.

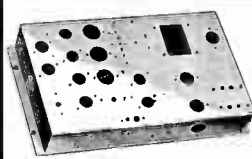
Kit of 2 coils consists of 1 Antenna Coil and 1 Radio Frequency coil. These coils are precision machine wound and with them a receiver the equal of many 6 and 7 tube models can be constructed. Under very favorable condition coast to coast reception can be obtained. Distance reception under practically any conditions can be received. Police calls of many of the larger cities are available. In order to obtain the best results the condenser we supply with the coil kit must be used.

3D8607—Kit of 2 coils, 2 gang, .000365 T.R.F. Variable Condenser, Schematic diagram and list of materials.

YOUR PRICE \$1.65

Cut and Drilled Chassis Bases

Made of 18 gauge terne plate lead coated steel. Sides spot welded to corner posts. Each size listed laid out, punched and drilled to fit component parts specified in lists of parts furnished with matched Condenser and Coil Kits listed above. The bright rust-proof finish of these Bases give them a very professional appearance, especially suitable for custom-Set builders.



11 TUBE		8 TUBE		7 TUBE		5 TUBE	
Size 10x17x3"	Size 10x17x3"	Size 9x12 1/2 x 2 1/2"	Size 8x12 1/2 x 2 1/2"				
4D10905	4D10906	4D10907	4D10908				
Your Price \$2.75	Your Price \$2.45	Your Price \$2.25	Your Price \$1.95				

HAMMARLUND

Isolantite R.F. Choke

This low-loss radio frequency choke is designed particularly for short wave and ultra short wave receivers and transmitters, but its efficiency actually extends well above the regular broadcast band. Its compactness permits mounting in isolated positions well removed from stray R.F. fields, which, together with its load characteristics, specially recommend it as a grid choke for multi-stage transmitters. A sectionalized Isolantite spool carries the four windings which are moisture proofed and protected by radio frequency lacquer and a covering of Cellophane. Flexible leads and removable brackets permit any desired style of mounting. No metal screw passes through the choke to increase losses and distributed capacity. The choke measures 1 1/2" x 3/4", has an inductance of 8 millihenries, a D.C. resistance of 70 ohms, a distributed capacity of 3 mmf., and a current carrying capacity of 125 milliamperes.

3D7203—Code CH-8
List, \$1.10
YOUR PRICE

65c

HAMMARLUND

Heavy Duty Transmitting Choke

Designed for a parallel resonant circuit in high power transmitters operating in the 20, 40, 80 and 160 meter amateur bands. In these bands it has the exceptionally high equivalent impedance of more than 500,000 ohms. Losses are negligible. Equally effective from 150 to 15,000 kc. with the exception of frequencies between 5300 and 5400 and between 8000 and 9000 kc. Inductance 2.5 mh. Distributed capacity less than 1.5 mmf. D.C. resistance 8 ohms. Maximum recommended D.C. (continuous) 500 milliamperes. Over-all size (without brackets) 1 3/8" diameter by 2 3/4" long.

3E7204—Code CH500.
List, \$1.75.
YOUR PRICE

\$1.03

New HAMMARLUND

Midget R.F. Choke

Invaluable for use where space is at a premium. So small in size and so light in weight that it can be supported by its own leads. For use in any position where radio frequency filtering is desirable such as detector plate circuits, all B plus leads and all grid return leads. Mounted on a 3/4" Isolantite core. Coils are impregnated to insure ruggedness as well as to minimize the effects of atmospheric changes. Tinned copper wire leads. Length across caps is 1 1/2". Diameter 3/8". Maximum recommended D.C. 125 milliamperes.

3E7200—Code CH-X.
List, 50.75.
YOUR PRICE

44c

HAMMARLUND

Improved Shielded R.F. Choke

A new shielded choke for general use in high gain circuits. The coil unit is completely shielded in an aluminum shell resulting in minimum external field and permitting compact receiver design without stray coupling to cause instability or feedback. The universal wound pies are thoroughly impregnated to prevent moisture effects. The multiplicity of pies provides both high inductance and low distributed capacity resulting in extremely high impedance to all frequencies within the short wave and broadcast bands. The mounting legs provided are on 1 1/2" centers. When mounting space is limited the legs can be removed and the choke mounted by means of two tapped holes on 1" centers in the aluminum bottom plate of the choke. The shield can measure 1 1/2" high by 1 1/2" diameter. Connections made to terminals on side of can. Inductance 10 m.h.; D.C. resistance 65 ohms, current carrying capacity 100 milliamperes.

Stock Number Code List Price \$1.00.
3D7208 CH-10-S YOUR PRICE

59c

HAMMARLUND

High Impedance R.F. Chokes

Have a large inductance with a very low distributed capacity. Very effective in both broadcast and short wave receivers. Suitable for detector plate circuits, B-plus and grid return leads and for R.F. filtering in general. Current carrying capacity 60 milliamperes. Bakelite case is 1 1/8" high by 1 1/8" diameter.

Stock Number	Induc.	Capac.	D. C. Res.	Your Price
3E7201	85 m. h.	3 mmf.	215 ohms	\$1.18
3E7202	250 m. h.	2 mmf.	420 ohms	1.32

HAMMARLUND Intermediate Transformers



Specially designed for experimental and replacement purposes. Their sensitivity, selectivity, and other characteristics are such as to make them equally satisfactory in superheterodynes employing either one or two stages of I.F. in connection with any type of second detector. Made in six special types for broadcast wave, short wave and long wave receivers. All transformers are of the tuned grid, wound plate type with lattice wound coils impregnated to prevent moisture effects. Litz windings are used in the 465 K.C. short wave transformers. Tuning condensers are the highest grade mica compression type mounted on Isolantite bases and adjustable from the top of the shield can. Leads are R.M.A. color coded and tagged for easy installation. Secondaries are either plain for tubes requiring split tubes or center tapped for tubes requiring split input circuits such as Wunderlich tubes, 55's, 75's, 85's, 2A6's, etc. Aluminum shield cans measure 2 1/2" outside diameter by 3 1/2" high. Mounting is by means of threaded lugs on 2" centers. Screen grid cap and mounting nuts included. Will tune 10 K.C. + or -.

Stock Number	Code	Peak	List Price	Your Price
3D7270	T-465	465 K.C.	\$1.65	97c
3D7271	T-175	175 K.C.	1.65	
3D7272	T-115	115 K.C.	1.65	

Center Tapped

3D7275	T-465-CT	465 K.C.	\$1.65	97c
3D7276	T-175-CT	175 K.C.	1.65	
3D7277	T-115-CT	115 K.C.	1.65	

Beat Oscillator

3E7185	7BO-465 I	465 K.C.	2.00	\$1.18
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HAMMARLUND "Air Tuned"

Will Tune 5 K.C. Each Side of Peak

Intermediate Transformers

Where 100% efficiency and absolute stability are essential requirements, these new laboratory type "air tuned" units are an absolute necessity. Tuned primary, tuned secondary type with both plate and grid coils of Litz wire. They are tuned to resonance by means of air dielectric variable condensers of special design. The coils have the exceptional "Q" of 115, a coupling coefficient of 0.775. The transformers are winding a coil in excess of 200 per stage together with unequalled selectivity. "Air-tuned" units actually provide increased selectivity and sensitivity since the peak setting is constant regardless of temperature or atmospheric conditions and the I.F. amplifier is functioning at peak efficiency at all times. As used in the famous Comet and "Pro" these transformers provide a sensitivity better than one quarter microvolt per meter and selectivity of better than 10 kc. at 1000 times input. Standard transformers are designed for 57's and 58's and other tubes of this type such as 21's and 35's. Center tapped units are available for tubes requiring split input circuits such as Wunderlich tubes, 55's, 75's, 85's, 2A6's, etc. The shield can is 2 1/2" diameter by 5 1/2" high mounted by two screws through the bottom of shield.

As used in the famous Comet and "Pro" these transformers provide a sensitivity better than one quarter microvolt per meter and selectivity of better than 10 kc. at 1000 times input. Standard transformers are designed for 57's and 58's and other tubes of this type such as 21's and 35's. Center tapped units are available for tubes requiring split input circuits such as Wunderlich tubes, 55's, 75's, 85's, 2A6's, etc. The shield can is 2 1/2" diameter by 5 1/2" high mounted by two screws through the bottom of shield.

Stock Number	Code	Peak	List Price	Your Price
3E7186	ATT-175	175 K. C.	\$1.50	\$2.65
3E7187	ATT-465	465 K. C.	4.50	2.65
3E7188	ATT-525	525 K. C.	4.50	2.65

Center Tapped

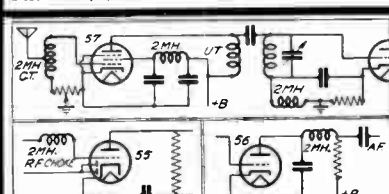
3E7189	ATT-175-CT	175 K. C.	\$4.50	\$2.65
3E7190	ATT-465-CT	465 K. C.	4.50	2.65
3E7191	ATT-525-CT	525 K. C.	4.50	2.65

"Air Tuned"

Beat Frequency Oscillator

Employs air dielectric condensers and is tunable by means of a vernier condenser to which is attached a lever. By moving the lever one way or the other, a 1000 or 1500 cycle beat note (assuming the carrier is tuned precisely) on the peak of the I.F. amplifier is produced. When so adjusted a receiver will provide a remarkable degree of "single signal" selectivity for C.W. reception.

3E7193—Code ATO 465 K.C.
List Price, \$4.50. YOUR PRICE ... \$2.65



Circuit Showing Application of R.F. Chokes Listed in Column at Right.

"Imp" Miniature Size R. F. Coils



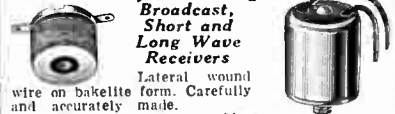
1 7/16" Square 1 3/4" High

Unusually small aluminum shielded coils with spade bolt mounting. Designed for superheterodyne and tuned radio frequency receivers and is being supplied at the present time for AC and DC receivers. Entirely new four bank "Litz" winding is used. Although these coils are extremely small there is no sacrifice of efficiency and they compare favorably with all coils regardless of size. At 600 K.C. the interstage coil when measured in a single stage gain test with a type 58 tube proved a gain of 110 times input and at 1500 K.C. a gain of 65 times input. The four bank winding produces a low distributed capacity and permits a coverage of 540 to 1700 K.C. Especially constructed for use with .000365 condensers.

Stock Number YOUR PRICE
3D8600—One R.F. coil, One Ant. coil \$0.95
3D8601—Two " " " " One " " 1.35
3D8602—Three " " " " One " " 1.75

Radio Frequency Chokes

For use on any Wave Length



Laterally wound wire on bakelite form. Carefully and accurately made. Unshielded coils have solder lugs securely anchored to bakelite form. Shielded coils are completely shielded in aluminum case 1 1/2" diam., 1 1/2" long. Insulated wire leads. Single mount screw projects 3/8".

Unshielded		Shielded	
Stock Number	Millihenries	Stock Number	Millihenries
3D6650	80	3D6660	80
3D6651	60	3D6661	60
3D6652	30	3D6662	30
			52c
3D6653	10	3D6663	10
3D6654	5 1/2	3D6664	5 1/2
3D6655	3 1/2	3D6665	3 1/2
3D6656	2 1/2	3D6666	2 1/2
			42c

Lattice Wound Mounted Chokes

An R.F. Choke mounted on a bakelite washer with two lugs for installation and provided with an eyelet large enough for a 6/32 screw to be used as a center mounting.

Stock Num.	Millihenries	Stock Num.	Millihenries	Stock Num.
3E8635	.88	3E8641	7.98	3E8647-30 mh.
3E8636	1.33	3E8642	9.25	3E8648-60 mh.
3E8637	2.40	3E8643	10.62	3E8649-80 mh.
3E8638	3.18	3E8644	13.90	3E8648-80 mh.
3E8639	4.00	3E8645	16.80	3E8649-80 mh.
3E8640	5.70	3E8646	17.80	

Your Price Ea. 15c Your Price Ea. 22c Your Price Ea. 59c

Radio Frequency Chokes and Untuned Transformer

Unshielded chokes and transformers are wound on a 1/4" by 3/4" special impregnated dowl form with a 1" round bakelite wafer to hold the mounting lugs. The untuned transformer is supplied with four 5" coiled leads. Shielded coils are in a 1 1/2" x 1 1/2" high shield can. Spade bolts have 1 1/2" mounting centers. Single hole mounting by use of extra length screw at the top of the can. Shielded coils supplied with 5" flexible coded leads. See Diagram at left.

Stock Number	Inductance	For Circuit Frequency	Your Price
3E8655	700 Microh'y	4000-15000 KC	11c
3E8656	2 MHH'y	1500-4000 KC	14c
3E8657	2 MHH'y	Gen. Tap. Ant.	15c
3E8658	4 MHH'y	450-1500 KC	16c
3E8659	50 MHH'y	175-202 KC	34c
3E8660	85 MHH'y	142 KC	62c
3E8661	15 MHH'y	(UT) Untuned	38c

Shielded R.F. Chokes

Stock Number	Inductance	For Circuit Frequency	Your Price
3E8662	700 Microh'y	4000-15000 KC	19c
3E8663	2 MHH'y	1500-4000 KC	20c
3E8664	2 MHH'y	Gen. Tap. Ant.	24c
3E8665	4 MHH'y	450-1500 KC	24c
3E8666	50 MHH'y	175 KC	42c
3E8667	85 MHH'y	142 KC	82c
3E8668	15 MHH'y	(UT) Untuned	46c

RCA Licensed ICA Complete Short Wave and Broadcast Kits

Scientifically Engineered

A new line which incorporates every Latest Engineering Development in short wave practice. All ICA short wave kits are designed to give maximum efficiency over the entire short wave and broadcast band. The stations are spread over the entire dial by use of a new principle of band pass spread mechanical tuning. A stock

model of each of these receivers has been subjected to rigid tests in our own laboratory as well as in outlying districts and have actually brought in European, South American and other foreign stations. The latest type tubes are utilized in these circuits to insure highest sensitivity and the best audio quality.

All necessary instructions and diagrams are supplied with each kit. A schematic diagram, pictorial diagram and chassis layout diagram are all included. The pictorial diagram will help the radio serviceman or dealer who has had no experience in the construction of short-wave receivers. This diagram gives an illustration of each part and the connections

Instructions — Diagrams

of each part in its correct place on the chassis. The point to point instructions with each kit should enable almost anyone to properly construct and wire the ICA short-wave receivers in only one or two hours. Radio dealers display one kit partially assembled in your window. Sell these kits to the short-wave enthusiasts in your vicinity.

Universal Mascot "1"

1-Tube Battery Operated



Tunes from 16 to 200 Meters.

4E10775—
List Price, \$9.95.

YOUR PRICE

\$5.85

Complete kit of all parts including chassis base and cabinet and four 6 prong coils. Less tube and batteries.

An efficient one tube receiver designed for battery operation. An attractive highly polished black bakelite cabinet is included with this kit. The tuning range can be extended to cover the entire broadcast band by the use of the additional coils listed below.

Efficiency and Compactness

The one tube receiver incorporates a new non-inductive regenerative control. The tuning is easy and allows a high degree of sensitivity over the entire short wave band. Brings in short-wave stations including police calls, airplane calls, ships at sea, etc. Complete kit of parts includes bakelite cabinet, four 6 prong coils with three windings covering wave lengths from 16 to 200 meters. All necessary parts, hardware and wire. Packed in an attractive display box. Size of set 6 1/2" high, 5 1/4" wide, 2 3/8" deep.

Extra Coils for Above Kit

3E7175—Ultra short-wave coil. Wave length range 9 1/2 to 21 meters. List Price, \$1.00. **59¢**

3E7176—Broadcast Coils. Set of 2. Wave length range 19 to 310 and 300 to 550 meters. List Price, \$1.85. **\$1.09**

Batteries and Tube

4E10776—1 No. 6 Dry Cell, 1-45 Volt "B" battery and 1-type 30 tube. **\$1.64**

Universal Mascot "2"

2-Tube Battery Operated



Tunes from 16 to 200 meters.

4E10777—
List Price \$17.50.

YOUR PRICE

\$10.29

Complete kit of parts, 4 4 1/2 prong coils, chassis base, and panel. Less tubes and batteries. One of the finest battery operated two tube short-wave receivers. Although designed especially for headphone reception, when conditions are favorable moderate loud speaker reception is possible. Requires only two milliamperes from 135 volts of "B" Battery which permits use of the smallest "B" cells and longest possible battery life. Less than 1/4 ampere filament consumption from two No. 6 dry cells. Coils with convenient handle grips plug in from the front of the panel.

Band Spread Tuning Control! Permits accurate tuning on the crowded Foreign bands. Controlled regeneration permits extraordinary sensitivity for weak signals. Uses 1-32 and 1-19 dual Triode giving the equivalent of 3 tubes.

Tubes and Batteries

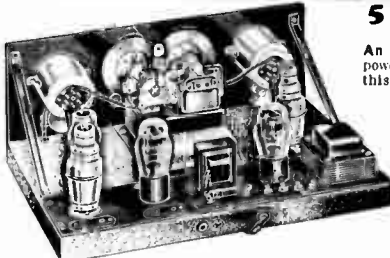
4E10778—1-32, 1-19, 2 No. 6 dry cells, 1-4 1/2 V. "C", and 3-45 volt "B" batteries. **\$4.79**

Tuning Range Extension Coils For Mascot 2, 3, 4, Tube Sets

Addition of these coils to the Mascot Kit Sets gives a range of 540 to 31500 K.C. With Special Shields and Panel Grips:

3E7179—Two Coils for Broadcast Ranges, 190 to 310 and 300 to 550 meters. List Price, \$4.00. **\$2.35**

3E7180—Two Coils for Broadcast Ranges, 190 to 310 and 300 to 550 meters. List Price, \$7.50. **\$4.41**



5 Tube Universal Mascot Kit

105-130 Volt 60 Cycle A.C. Operated

An A.C. all-electric set that combines receiver and power pack all in one unit. After completion of this receiver it is only necessary to plug into regular A.C. socket for operation. The Mascot "5" requires greater tuning ability than the less powerful receivers but the results which will be secured will equal the reception usually attributed to far more expensive and complicated receivers. This set is recommended for the short wave enthusiast who revels in the enjoyment which only perfect short wave can bring. Chassis size 7" high, 17" wide, 12" deep.

Tubes Used

This De Luxe Model Receiver uses one type '78 Variable Mu Screen Grid Pentode as I.F. Amplifier, one type '37 Triode as sensitive regenerator detector, resistance capacity coupled to one '77 high gain screen grid pentode audio amplifier which in turn is again resistance capacity coupled to one type '42 Pentode Power Output tube. One '80 type full wave rectifier is used in the power supply which is an integral part of the receiver.

Price List

14E10783—Complete kit of parts consisting of: Cut and drilled chassis base, 8-prong prong coils with 3 windings, all necessary parts, hardware and wire. Less Tubes. Packed in an attractive display box. List Price, \$39.75. **\$22.49**

YOUR PRICE

Optional Accessories

3E7183—Ultra Short Wave Coils. Set of 2. Wave length range 9.5 to 21 meters. List Price, \$4.00. **\$2.35**

3E7184—Broadcast Coils. Set of 4. Wave length range of coils 190-310 and 300 to 550 meters. List Price, \$7.50. **\$4.41**

4E10784—Kit of 5 Tubes, 1-'78, 1-'37, 1-'77, 1-'42, 1-'80. **\$2.89**

YOUR PRICE

Masterful Performance

Single dial control of the R.F. and detector circuits is featured as well as band spread tuning for both stages also operated from one dial. An antenna compensating condenser is provided to insure perfect tracking of the antenna and detector circuits. Regeneration control is also incorporated in this receiver by use of a non-inductive resistance in series with a fixed capacity. This system gives very smooth and precise control of regeneration. Connections are provided for phonograph pick-up to allow the reproduction of phonograph records from the loud speaker of this receiver. A head phone jack is also provided in the plate circuit of the '77 audio amplifier. The receiver can be used with either a magnetic speaker or dynamic speaker having a field resistance of 2500 ohms and a pentode '42 input transformer.

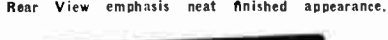
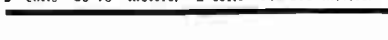
High Quality Audio Amplification

The arrangement of the circuit is such that even feeble foreign signals can be built up to great volume. European as well as reception from many other parts of the world is consistently possible with this receiver. The type '42 tube with a gain of 220 delivers an output of 3000 milliwatts of undistorted power.

8 Coils Included

The eight coils supplied plug in from the front panel into specially shielded cans, which thoroughly isolate coils from the tube elements. A set of 2 coils for each of the following wave bands are furnished:

2 coils—16-38 meters, 2 coils—73-137 meters.
2 coils—35-75 meters, 2 coils—135-200 meters.



Universal Mascot "4" Kit

For 16 to 200 Meter Short Waves Requires 2500 ohm field Dynamic Speaker with output transformer for '42 tube.

All Electric—105-130 Volt 50/60 Cycle A.C.

A fascinating receiver kit to build—educational for a boy, entertaining for an adult. This kit includes all the latest improvements in amplification assuring best short wave reception. (See the Radolek Trans Atlantic Aerial Kit especially suited for this receiver.) Illustrations show the professional appearance of the finished Mascot "4" receiver. One 6F7 Dual Pentode-Triode Tube, one 77, one powerful 42 Pentode output, with an 80 rectifier constitute the modern tube assortment in this receiver. While headphones may be used with this receiver, it is intended for use with a small dynamic speaker! Panels size 7"x14" Chassis Depth 6 3/4".....

14E10781—Complete Kit of Parts consisting of all parts for the 4 tube model. List, \$30.00. Less Tubes. **\$17.64**

4E10782—Tubes for Mascot "4", 1-6F7, 1-77, 1-42, and 1-80. **\$2.51**

YOUR PRICE

Universal Mascot "3"

For 16 to 200 Meter Short Waves Uses Magnetic Speaker or Headphones All Electric—105-130 volt 50 60 Cycle A.C.

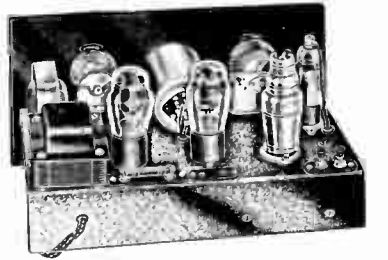
Appearance similar to the Mascot "4". Employs 1-6F7, 1-79, and 1-80 tubes. Panel size 7"x14" Chassis depth 6 3/4" **\$13.23**

14E10779—Complete Kit of Parts, Less Tubes. List Price, \$22.50. **\$2.10**

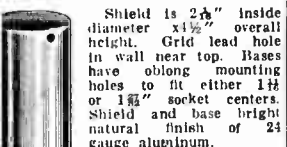
4E10780—Tubes for Mascot "3", 1-6F7, 1-79, 1-80. **\$2.10**

YOUR PRICE

Front View showing convenient plug in coil. Rear View showing neat finished appearance.



Coil Shield with Base

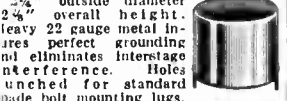


Shield is 2 1/2" inside diameter x 1 1/2" overall height. Grid lead hole in wall near top. Bases have oblong mounting holes to fit either 1 1/2 or 1 3/8" socket centers. Shield and base bright natural finish of 24 gauge aluminum.

3C6958—Coil Shield
Code 0781—Basecode 0720.
PER SET **10¢**

TEN FOR **85c**
PER HUNDRED **\$7.95**

Aluminum Coil Shields



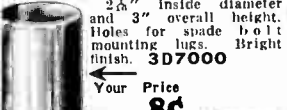
2 1/2" outside diameter 2 1/2" overall height. Heavy 22 gauge metal in-sets perfect grounding and eliminates interference. Holes punched for standard base bolt mounting lugs. Lugs not included. Bright natural finish.

3C6959—Coil Shield
Code 0319.
PRICE EACH **10¢**
TEN FOR **79c**
Per Hundred **\$6.50**

3C6960—Same as above except 4" high for longer coils.
Coil Shield—Code 0318.

PRICE EACH **12¢**
TEN FOR **98c**
PER HUNDRED **\$8.50**

Aluminum Coil Shields



2 1/2" inside diameter and 3" overall height. Holes for spade bolt mounting. Bright finish. **3D7000**

Your Price Each **8¢**
Ten for **65c**

3D7001—YOUR PRICE EACH **6¢**
Ten for **45c**

Coil Shield with Bayonet Lock Base



Base locks to can forming connection that will never vibrate nor come apart. Can is 2 1/2" diam., and 2 3/4" overall height with base. No holes in can but base perforated on bottom and side for leads. Bright natural finish, 22 gauge aluminum.

3C6961—Coil Shield
Code 0579—0580.
PRICE EACH **10¢**
TEN FOR **85c**
PER HUNDRED **\$7.95**

Universal Coil Shield



A shield of many uses. Heavy drawn aluminum top. Height 1". Diameter 2 3/4". Base diameter 3 3/8" with 3 mounting holes. Solid friction fit between top and base. 6 holes in base center for leads, etc.

3C6964—Your Price
EACH **19¢**
Ten for **\$1.48**
Per Hun. **\$12.25**

8 Tube Chassis Base



Drilled for an 8 tube set. Reinforced welded corners. Bright rust proof finish. Size 1 3/8" long, 1 1/4" wide and 2 3/8" deep.
4D10909
YOUR SPECIAL NET PRICE **29c**

New Ventilated Tube Shields



For 55, 57, 58 Tubes
Improved Non-Rattle Type
Ventilated shell has three formed ribs which press against the side of the tube to hold it rigidly—dampens vibration and micro-phonics disturbances. Natural finish aluminum metal. A wide range of base mounting sizes. Cap height 1 1/4" slotted for grid lead. Shell diameter 1 1/2", height 3 3/4". Overall height assembled 4 1/2".

Aluminum Stock Number	Base Mounting Centers	Price Each
3D7110	1 1/2"	Ten for 95c
3D7111	1 3/4"	Hund'd \$7.75
3D7112	1 7/8"	

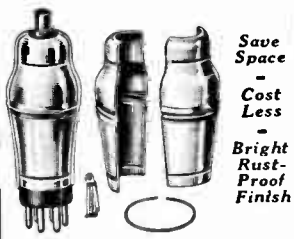
Standard Type Ventilated Tube Shields

For 55, 57, 58 Tubes
Same specifications as type shield described above except that ventilated shell does not have the extruded rib features for holding tube. Complete with base and slotted cap.

Aluminum Stock Number	Base Mounting Centers	Radio Metal Stock Number	Price Each
3D6950	1 1/2"	3D6967	8c
3D6951	1 3/4"	3D6968	
3D6952	1 7/8"	3D6969	

Price Each **10c** Price Each **8c**
Ten for **\$0.80** Ten for **65c**
Hundred **6.70** Hundred **55.75**

Close Fitting Tube Shields



For use where space is limited or to replace spray-shield type tubes. Provides magnetic as well as electrostatic shielding. Made for both small and large size bulbs. Two parts of shield fit snugly around the tube and are firmly held in place by a clamp ring. Clamp ring and grounding clip furnished with each shield. Supplied with a chimney where shielding of grid cap is desired. A small slot in chimney admits grid lead.

Type ST-12
For new dome type (2A6, 2A7, 2B7, 6A7, 6B7, 6C6, 6D6, 6F7, 55, 56, 58, 75, 77, 78, 79, 89, etc.) tubes.
3E7107—With Chimney.
3E7108—Without Chimney.

Type ST-14
For large diameter dome type (24, 27, 32, 33, 34, 35, etc.) tubes.
3E7108—With Chimney. **7¢**

YOUR PRICE, EACH **7¢**
10 FOR **60c**
100 FOR **\$5.00**

One-Piece Shields with Base

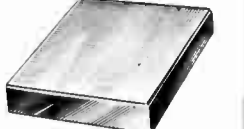


For 82 Tubes
Ventilating holes in top and base. Height 4 1/2". Diam. 2 1/2". Base mounting holes for 1 1/2" and 1 3/8" sockets.
3C6955—Tube Shield
Code 0132. EACH **11¢**
TEN FOR **95c**
PER HUNDRED **\$7.58**

Radio Metal Chassis Bases

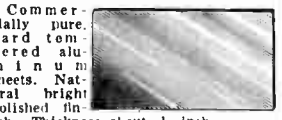
Rustless—Stainless
Extraordinary Low Price for this Quality

Stock Number	Size Inches	YOUR PRICE Each
4E10912	10x12	50.89
4E10913	10x17	1.14
4E10914	10x23	1.45



Ideal for building power amplifiers, Broadcast or shortwave receivers, auto radios or test equipment. Special aluminum Radio alloy, with clean rustless non-tarnishing lustrous finish. Non-magnetic. Easy to work, drill and tap. Solders readily.
Do not confuse these high grade chassis with ordinary plated sheet steel jobs which are hard to work. These are brand new, clean undrilled bases made to our special design and order. All sizes are 3 inches deep and open on bottom. Enclosed top and four sides.

Aluminum Panels



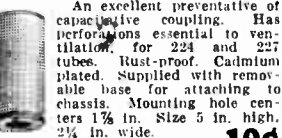
Commercially pure hard tempered aluminum sheets. Natural bright polished finish. Thickness about 1/8 inch.

Stock Number	Size Inches	Your Price
3C7475	7x10	\$0.49
3C7476	7x12	1.26
3C7477	7x14	1.50
3C7478	7x18	1.98
3C7479	7x21	2.28
3C7480	7x21	2.10
3C7481	7x30	3.00
3C7482	24x36	11.10

Special size aluminum panels cut to your specifications. Any width or length. Thickness about 1/8 inch.
104E7485—Per Square Foot.

YOUR PRICE **\$1.25**
NOTE: Minimum charge for specially cut aluminum panels per order \$1.25.

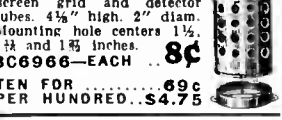
Perforated Steel Shield



An excellent preventative of capacitive coupling. Has perforations essential to ventilation, for 224 and 227 tubes. Rust-proof. Cadmium plated. Supplied with removable base for attaching to chassis. Mounting hole centers 1 1/2 in. Size 5 in. high, 2 1/4 in. wide.

3C6965—Your Price, Each
Ten for **79c**

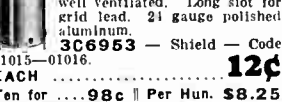
Radio Metal Shield



Provides superior shielding. Non-rusting. Fits all screen grid and detector tubes. 4 1/2" high, 2" diam. Mounting hole centers 1 1/2, 1 3/4 and 1 7/8 inches.

3C6966—EACH 8¢
TEN FOR **69c**
PER HUNDRED **\$4.75**

Two-Piece Tube Shields



For 24 and 27 Tubes.
5" high when assembled. 1 1/2" diameter. Not to be punched for spade bolts but bolts not furnished. Fits standard 1 3/8" mounting hole center socket. Top and bottom well ventilated. Long slot for grid lead. 21 gauge polished aluminum.

3C6963—Shield—Code
01015—01016. EACH **12¢**
Ten for **98c** || Per Hun. **\$8.25**

Copper Foil

Thin copper foil for shielding panels, cabinets, automobile bulkheads, etc. .005 inches thick. Any length supplied.

3C6997—6 in. wide.
YOUR PRICE, Per Foot **10¢**

3C6998—8 1/2 in. wide.
YOUR PRICE, Per Foot **15¢**

3C6999—12 in. wide.
YOUR PRICE, Per Foot **20¢**

NOTE: This foil will be cut to any length. Minimum billing price on any order is 50c, so order your money's worth.

Steel Chassis Bases



A high quality lead coated steel chassis base. As easy to cut or drill as other bases offered at competitive prices. Does not have the lustrous finish and is not as easy to work with as the Radio Metal bases listed above. Ferronite is heavy and substantial. Supplied undrilled. All sizes are 3 inches deep and open on bottom.

Stock Num.	Size Inches	Your Price Each
4E10915	10x12	59c
4E10916	10x17	77c
4E10917	10x23	86c

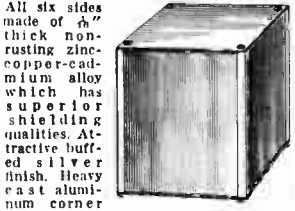
Corner Posts



For use with Chassis Bases.
3D6993. Per Set, Posts, Screws and Nuts.
YOUR PRICE **29¢**

Heavy cast corner posts. Mount in corners of above chassis. They close the corners perfectly and make the entire job very solid and without the slightest "give". Three tapped holes on each side. Drill holes in chassis and mount with 5/32 screws supplied. Base of post also tapped to take screw coming through base on which chassis is mounted. Complete set includes: 4 Corner Posts; 21 5/32 screws; and 4-1/4" long 1/2" screws for anchoring to any base.

Radio Alloy Shield Cans



All six sides made of 1/8" thick non-rusting zinc-copper-cadmium alloy which has superior shielding qualities. Attractive buffed silver finish. Heavy cast aluminum corner posts drilled and tapped for 5/32 screws which are included. Shipped knocked down. Easily assembled in a few minutes. Height each can 6 inches.

Stock Number	Size Inches	List Price	Your Price
3C6983	4x5	\$2.00	1.18
3C6984	5x5	2.25	1.32
3C6985	5x9	3.00	1.67
3C6986	6x6	2.75	1.62
3C6986	8x8	3.00	1.76
3C6987	6x12	2.75	1.62
3C6988	8x10	3.50	2.06
3C6989	7x14	3.50	2.06

Aluminum Corner Posts



Build your own shield boxes. 6 in. long aluminum corner posts grooved on two sides to fit 5/8 in. thick aluminum pieces and tapped at each end to fit 5/16 in. machine screws. Thickness of metal overall 1/4 in.

3C6979—YOUR PRICE, 18¢
Each Piece

3C6980—Same as above but not tapped. We ship any length specified by you. You tap ends to suit your own requirements.
YOUR PRICE Per Foot **20¢**

NOTE: Minimum size order billing for special length aluminum corner posts is 50c 1/2. —Four 15-inch pieces would be billed at 50c, same as a single 12 inch piece.

RADIO Convenience Outlets

Brown bakelite plates in attractive, soft finish. Metal parts finished in nickel or bronze. Finest quality material and workmanship. Fits standard outlet boxes. Mounting screws included.

Aerial and Ground Provides a neat convenient and efficient outlet for aerial and ground wires. Jack springs have exceptionally long contact surface to tightly hold the tip plug.

3E2415—List, 75c.
YOUR PRICE 39¢

Aerial and Ground With A.C. Outlet

Combining the popular aerial and ground terminals with a single electrical A.C. outlet. Extensively used in rewiring jobs in homes, apartments, hotels or offices.

3E2416—List, \$1.35.
YOUR PRICE 62¢

DUPLEX A.C. Outlet with Aerial and Ground Connections

Aerial and ground outlet jacks with duplex electrical receptacle—an A.C. outlet for the set and one for lamp, clock or utility requirements. Adaptable to any installation.

3E2417—List, \$1.25.
YOUR PRICE 76¢

Spring Clamp Binding Posts

3C6204—Plain (not marked)
3C6205—"Ant."
3C6206—"Gnd."

EACH 5¢
10 for 50c.
Per hundred, \$4.50.
Per thousand, \$43.50.
Insulated top. Spring clamp holds wire securely. $\frac{1}{2}$ " screw projects $\frac{1}{4}$ ". Length over all 1".

Spring Clamp Binding Post Assembly

3C6207 EACH 12¢

Ten for \$1.10
Two automatic, spring clamps, insulated top centered, mounting posts mounted on bakelite strip 2" long, $\frac{1}{4}$ " wide, with mounting holes $\frac{1}{8}$ " centers. Completely equipped with soldering lugs—one grounded to chassis. Posts marked "ant." and "gnd."

Non-Removable Bakelite Top Binding Posts

3C6113—Plain. EACH 9¢
3C6114—Ant.
3C6115—Gnd.
3C6116—+
3C6117—-
3C6118—Input.
3C6119—Output.
Per Dozen 95c

Captions engraved on polished black bakelite top. Diameter, $\frac{1}{2}$ inch. Size, $\frac{1}{2}$ " screw, $\frac{1}{2}$ inch long.

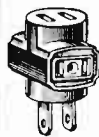
Polarized Aerial-Ground Outlet

A convenient device for connecting set to aerial and ground lead-in wires. Impossible to reverse connections. Black bakelite cap.

3C2245—List Price, Each 50c.
YOUR PRICE 24¢

Double Binding Posts

3C6598 EACH 8¢
Dozen 95c
Made of brass, polished nickel finish. Has two holes for wires or cord tips. Fits any thickness of cord panel.



Bakelite Trio-Tap

Three connections from one outlet. Bakelite body. Very strong, sturdy connection. Retails at 25c.

3D7027 Brown EACH 6¢ Ten for 56c

Outlet Plug Cap

Plugs cord in receptacle and has an additional receptacle on top for connecting another cap into it. Wired same as ordinary cap. Body of brown bakelite.

3D7032 EACH 4¢ Ten for 35c

Edison Socket Adapter

Edison screw shell receptacle and pin type connector. Permits inserting lamp or screw plug at flush receptacle.

3D7033 EACH 11¢ Ten for 95c

Two-Piece Attachment Plug

A sturdy, well designed, good quality composition plug. Brass blades with beveled ends.

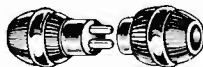
3D7019—EA. 5¢
3D7020—Caps Only EACH 2¢

Soft Rubber Cord Connector

Unbreakable. Easily wired into cord. For 110 volt lines. Standard size pin cap.

3D7035—Each 18¢ Ten for \$1.59

Cord Connectors



For 110 volt service. Screw caps protect connections. Composition body. Overall length 2 1/2".

3D7036—Each 16¢ Ten for \$1.49

Rubber Handle Cap

Strong, durable and convenient. Scientifically designed finger grip. Still, pliable, unbreakable rubber body.

3D7025—Black, Each Ten for 35c 4¢

Green Back Bulb

50 Watt 115 Volt Very rugged. Recommended for use where light is subject to vibration. Top of bulb is finished in green. Protects the eyes and throws the light down.

3D7149—YOUR PRICE, EACH 10c
10 for 75c

Laundry Iron Elements

Standard replacement element for all 6 pound electric irons such as Westinghouse, Eagle, Sunbeam, etc. Fits 90% of irons.

3E7091—NET EACH 22¢

Double Flush Receptacle



Bakelite body. Finest quality phosphor bronze contacts. Takes two standard pin caps.

3D7037 Brown EACH 10c Ten for \$0.95

Bakelite Flush Plates

Guaranteed genuine bakelite beautiful egg shell finish. Screws to match.

3D7039. For toggle switch.

3D7040. Duplex flush receptacle. EACH 6¢ Ten for 55c

Plug Fuses

Underwriters approved. Tested finest quality. Porcelain body. Clear mica window in top shows at a glance if fuse is blown. For 110-125 volt current. The amperage of each fuse is clearly stamped on the top.

Stock Num. Amps. Carton of Five
3D7101 10 18¢
3D7102 15
3D7103 20 Per 100
3D7104 25 \$2.94
3D7105 30

Insulated Staples

1/4 inch sharp pointed insulated staples for wire work. 100 in box. Shpg. wt., 8 oz.

3D7099—Per Box 11¢

Bell Wire

Size 18 copper wire insulated with paraffined cotton braid. Shpg. wt., 1 lb.

3C2153 50 ft. coil 12c
3C2154 100 ft. coil 22c

Friction Tape

Best quality. Cotton fabric. Free from pinholes. Impregnated with adhesive rubber compound. Holds fast.

3C7125—Four Ounce Roll. YOUR PRICE 9¢

3C7126—Eight Ounce Roll. YOUR PRICE 17¢

Nichrome Wire Lengths

3D7096—EACH 8¢ Ten for 75c
Coiled nichrome wire, round size 22. Each length is 400 watts at 110 volts. Requires no further cutting and may be stretched to any lengths required.

Heater Element

3D7097 EACH 22¢ Ten for \$2.10
Fits all screw type heaters. Best grade coiled nichrome wire wound on ceramic form. 110-120 volts, 400-660 watts.

Terminal Strip Assemblies

With "Screw and Collar" Terminals and Single Unit Lug



Genuine laminated bakelite strip $\frac{1}{2}$ " thick, $\frac{3}{4}$ " wide. Latest type screw and collar terminals with right-non-shift lug. Collar and lug is one single piece and mounted rigidly and securely through the terminal strip. Screws are brass nickel plated.

Stock Number	Terminals	Mount. Centers	Your Price
3D8150	2	2"	10c
3D8151	3	2 1/4"	15c
3D8152	4	2 1/2"	18c
3D8153	5	3 1/4"	23c
3D8154	6	4"	28c
3D8155	7	4 1/4"	30c

New Lug Terminal Strip

Bakelite Insulation
3D8160 YOUR PRICE 8¢ Ten for 36c

Simplifies wiring and provides a ready means of mounting resistors. Center terminal may be grounded by mounting directly to chassis. May be used in several combinations as 2 insulated, 1 grounded terminal; or 2 insulated; or 1 grounded—1 insulated. 1 1/2 inch long. Lugs tinned.

5 Terminal Strip

Five tinned lugs mounted securely on laminated bakelite strip 2 1/2" long. High insulation factor. Lugs widely spaced. Two lug mounting provides a simple, secure means of grounding any terminal by soldering short wire from either mounting lug to any terminal on the strip.

3D8161 YOUR PRICE 10¢ Ten for 45c

Screw and Lug Assembly

Genuine bakelite strip $\frac{1}{2}$ " thick, 2" long, $\frac{3}{4}$ " wide. Mounting holes 1 1/4" centers. Wide head cadmium plated screws on $\frac{1}{4}$ " centers. Solder lugs riveted on, extend $\frac{1}{2}$ inch.

3C6208 PRICE EACH 7¢ Ten for 59c Per Hundred \$3.95

Bakelite Current Tap

Two side outlets for attachment plugs and one Edison screw receptacle with unthread shade holder.

3D7031 EACH 11¢ Ten for \$1.05

Carter Speaker Plugs

Made of steel. Cadmium plated. Fibre top is held by spring ring, with hole in center for wire leads. Supplied only in 4 and 5 prong.

3E6151—5 prong. YOUR PRICE 10¢

AIRPLANE TYPE 2 1/2" Dial

With Escutcheon and Lamp Socket
6-1 Ratio

COMPLETE EACH **89c**

With Amber Face

3E6772—Clockwise.

3E6773—Counterclock.

With Green Face

3E6774—Clockwise.

3E6775—Counterclock.

"Airplane" type pointer.

Positive acting, friction drive,

no backlash. Illuminated

translucent amber or green colored face with dis-

tinct indicating figures. Convex crystal lens. 3 3/4"

diameter embossed escutcheon. Bronze finished. Fits

3/8" shaft. (Clockwise scale is marked 0-10 in up-

per portion with lower portion for Kilocycles 550-

1500. Counterclockwise is marked 10-0 and 1500-

550 respectively.

29c

YOUR PRICE

3 1/2" Airplane Dial

For Broadcast and Short-wave

With Escutcheon and Lamp Sockets

Ratio 21-1

3E6792—

Complete

EACH **\$1.45**

Short-wave and Broadcast

scales on dial face can

be illuminated separately

and independently of

each other.

Mounts on condenser permitting

a full floating dial mounting.

"Airplane" type pointer. Convex

crystal lens. Translucent

amber scale. Two lamp sockets

are supplied. This permits broadcast and short-

wave scale to be illuminated independently by con-

necting pilot lights to a section on the coil change

switch. Unusually smooth drive, no backlash. 4 3/4"

bronze finish escutcheon. Fits 3/8" shaft. Sup-

plied with 0-100 marking on broadcast scale. Lower

portion or short-wave scale is marked only with

divisions and can be accurately calibrated, by the

builder.

Ratio 30:1

and **6:1**

Your Price

97c

Complete with Escutcheon

and Lamp Socket

3E6780—Scale 100-0.

3E6781—Scale 0-100.

Ratio of dial can be altered

from 30-1 to 6-1 by simply

pushing in or pulling out en

gineer knob shaft. Supplied for use with a 3/8" shaft con-

denser and 1/2" knob. Tan celluloid scale 4"

diameter. Mounting centers between dial center

and knob shaft are 2 3/4".

Full Vision Dial for Long and

Short Wave Work

3E6782—

Clockwise

3E6783—

Counterclock

Complete

with pilot light

socket. Extra high ratio 12 to 1. Friction

drive. Full vision illuminated scale

with traveling pointer. Bronze finish escutcheon

plate 4 3/4" wide, 2 3/4" high. Takes 3/8" shaft.

42c

Dial Only

3E6784—

Clockwise

3E6785—

Counterclock

3E6786—Escutcheon plate.

Extra

Tuning Ratio 4 1/2 to 1. For very

small sets. Scale 3" wide. Bronze finish. Escutcheon

2 1/2" wide, 2 1/4" high. Pilot light socket. Takes

3/8" condenser shaft.

Spot Light Full Vision

Complete

68c

3E6787—

Clockwise

3E6788—

Counterclock

Tuning Ratio,

4 1/2 to 1. Light

travels with light

pointer. Pilot

light socket in-

cluded. Takes 3/8" condenser shaft. Knob shaft

1/4". Bronze finished. Escutcheon 4 1/4" wide; 3 3/4"

high. Amber celluloid scale.

Spring Friction Drive

Dial

only. Each

47c

3E6789—

Clockwise

3E6790—

Counterclock

3E6791—Escutcheon

plate extra.

EACH **14c**

Tuning Ratio 6 to 1. Outside

diameter dial 4 3/4". Shaft hole for

3/8" shaft. Knob shaft 1/4". Cell-

uloid scale. Pilot light socket. Bronze finish.

Escutcheon plate 2 3/4" high, 2 3/4" wide.

3E6771—As above with hole for 1/4" shaft and

dial scale calibration 55 to 150.

34c

YOUR PRICE

DRUM DIAL

3E6800

Without

Plate

81c

3E6801—Escutcheon

Plate.

Extra each **17c**

Full Vision. Illuminated. Insulated

socket included but no bulb. Tuning

ratio 7 1/2 to 1. 1/4 inch shaft for knob;

3/8 inch hole for condenser shaft.

Celluloid scale 0-100. Bronze finish escutcheon plate

3 3/4" high, 2 1/2" wide. Fits Marvelo Model 30.

Note—"C" (Clockwise) reads 0-100; "CC" (Counter-Clockwise) reads 100-0. Both scales are also marked with kilocycle calibrations.

Dial Illuminators

A

B

C

D

Miniature base sockets for pilot lamps. Carefully

insulated. Lug connections mountings as used in

various types sets. No bulbs included.

A. 3E6796—Right clip mount.

B. 3E6797—Rivet mounting.

C. 3E6798—Reverse clip mount.

D. 3E6799—With rubber grommet.

Ten for **78c**—Per 100 **\$7.25**

Each

10c

Genuine G. E. Mazda Pilot

Light Bulbs

Guaranteed quality. Consume minimum

of current. Miniature screw base. Diam-

eter about 5/8 inch. Abbreviations: Tub.—

Tubular; Rd.—Round.

Article Number	Shape	Volts	Amrs.	TEN FOR
3E6900	Tub.	2.5	0.50	54c
3E6906	Tub.	3.2	0.35	
3E6901	Rd.	3.8	0.30	
3E6902	Tub.	6.3	0.15	
3E6913	Tub.	6-8.	0.20	65c

Low Drain Pilot Lamps

Article Number	Shape	Volts	Amps	Price Each	TEN FOR
3E6903	Tub.	2.	0.06	20c	51.47
3E6904	Tub.	2.	0.05	24c	1.65

Imported Pilot Light Bulbs

Not equal to domestic bulbs in length of life nor efficiency. All tubular shape.

Article Number	Volts	Ten For	Per Hundred
3E6812	2.5	33c	\$2.45
3E6813	3.9	33c	2.45
3E6814	6.3	33c	2.45

Victor R-32 Pilot Lamp

110 Volt, 10 Watt Inside Frosted

Especially for Victor R-32 and Colonial

Receivers. May also be used in con-

tinuity tests to indicate open or short

circuits. Intermediate base.

3E6909—

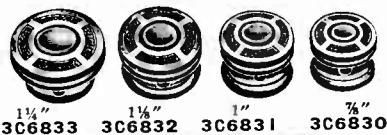
YOUR PRICE EACH **20c**

Walnut Knobs

Finest Quality. Rich Looking

Turned out of solid end cut genuine Walnut. All one piece. Finely finished. Solid brass, bushing with set screw. Fit all 1/4 inch shaft controls, including those with flattened side for push-on spring type knobs. Dimensions given are diameters. Heights all about 3/4 inch.

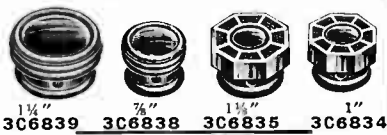
Futuristic



3C6833 3C6832 3C6831 3C6830

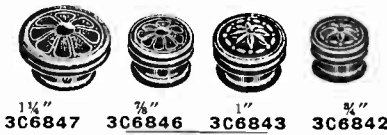
Plain

Hexagonal



3C6839 3C6838 3C6835 3C6834

La Rose



3C6847 3C6846 3C6843 3C6842

EACH **9c** Ten for **76c**

Per Hundred **\$7.25**

(May be assorted)

Bakelite Knobs



3E6828— 3E6827— 3E6829—

Each **6c** Ten for **55c** Each **4c**

Per Hundred

Finished in beautiful two-tone Ten for **34c**

walnut. Will harmonize well Polished black

with wooden panels. 1/4" shaft bakelite. White

hole. Set screw. arrow pointer.

Newest Bakelite Knobs



Newest patterns. Cleanly moulded of best quality

genuine bakelite. All for 1/4" shafts.

3D6855 Style A 1" across. 3/8" high. Walnut

finish.

3D6856 Style B 1 1/4" diameter. 3/8" high.

For Midget Sets. Polished black finish.

3D6857 Style C 1" across. 3/8" high. Polished

black finish.

3D6858 Style D with Pointer. 1 1/4" across in-

cluding pointer. 3/8" high. For smallest midgets.

Fine Walnut finish.

EACH **7c**

Ten for **48c**

Drive Cables, Bands, Belts

For Standard Receiver Dials-Condensers

Make of Set	Model	Stock Num.	Your Price
Atwater Kent	35, 37	3E6862	18c
Crosley	40s, 60s, 80s	3E6876	18c
Crosley	601, 602, 607	3E6877	24c
Najestie No. 1	70, 71, 72	3E6885	14c
Najestie No. 2	70, 71, 72	3E6886	14c
Philco	All	3E6890	9c
RCA Cord	16, 17, 18, 33	3E6893	12c

We can supply dial cables for All Receivers. Many

not in our listing are in stock and available for

immediate shipment.

Bakelite Vernier Dial



Requires only one hole for

condenser shaft and two small

holes to secure dial to panel.

No gears to strip. No back-

lash. Ratio 14 to 1. Size

2 1/4" wide. Translucent scale

marked 100-0-100. Fits 1/4"

shaft.

3E6825—Walnut.

3E6826—Black.

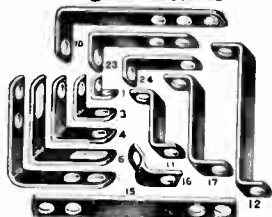
List, \$1.00.

YOUR PRICE, Each **42c**

Ten for **\$3.95**

Indispensable Hardware for Servicemen

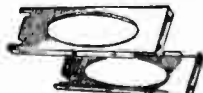
Angle Brackets



Brass nickel plated. For mounting panels, tubes, coils, grid leaks, etc. Width $\frac{3}{8}$ inches.

Stock Number	Code Num.	Size Inches	Ten For	Price Per
3C4810	1	$\frac{1}{2} \times \frac{1}{2}$	10	36c
3C4811	2	$\frac{3}{8} \times \frac{3}{8}$	10	19c
3C4812	3	$\frac{3}{8} \times \frac{1}{2}$	10	19c
3C4813	4	$1 \frac{1}{4} \times \frac{1}{4}$	10	26c
3C4814	7	$1 \frac{1}{2} \times 1 \frac{1}{4}$	10	35c
3C4815	10	$1 \frac{1}{2} \times 2 \frac{1}{2}$	10	36c
3C4816	11	$\frac{3}{4}$ high	10	19c
3C4817	12	2 high	10	39c
3C4818	15	3 long	10	29c
3C4819	16	$\frac{3}{8} \times \frac{3}{8}$	10	19c
3C4820	17	1 high	25	25c
3C4821	23	$1 \frac{1}{2} \times 1 \frac{1}{2}$	10	29c
3C4822	24	$\frac{1}{2} \times \frac{3}{8}$	10	15c

Sub-Panel Brackets



Strong light weight aluminum brackets designed to accommodate sub-panel transformers. Two sizes.

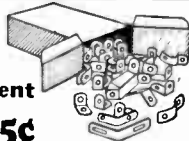
3C4823	— $\frac{1}{2}$ in. high x 6 $\frac{1}{2}$ in. long.	YOUR PRICE, Pair	24c
3C4824	— $\frac{1}{2}$ in. high x 11 in. long.	YOUR PRICE, Pair	39c

Transformer Mounting Brackets

Nickel plate brass brackets especially suitable for mounting power or audio transformers, chokes and condensers.

3C4825	Type 18. Mounting hole centers $2 \frac{1}{2}$ in.	YOUR PRICE, 4 for	20c
3C4826	Type 25. Mounting hole centers $3 \frac{1}{2}$ in.	YOUR PRICE, 4 for	30c
3C4827	Type 26. Mounting hole centers $1 \frac{1}{2}$ in.	YOUR PRICE, 4 for	40c

Service Angle Bracket Assortment



Contains 28 pieces of brass, nickel plated angles and brackets in a variety of sizes most suited for service work. Consists of six $\frac{1}{2} \times \frac{1}{2}$ angles, four $\frac{3}{8} \times \frac{3}{8}$ angles, two 1×1 angles, two $1 \frac{1}{4} \times 1 \frac{1}{4}$ oval hole angles, six grid leak brackets, four $\frac{3}{8} \times \frac{1}{2}$ brackets, two $1 \times \frac{1}{4}$ brackets and two $\frac{3}{8}$ Z type brackets.

Fibre Washer Assortment

3D4830
YOUR PRICE 27c
100 piece assortment of fibre washers and grommets. A complete range of sizes. Plain and shoulder types to fit number 1-6-8-10 screws and $\frac{1}{8}$ ", $\frac{3}{16}$ " and $\frac{1}{2}$ " holes.

Metal Tapping Screws Gimlet Point—Round Head

Self-tapping metal screws that cut their own thread in metal of any gauge and drive home as securely as a machine screw in a machined thread. Just drill a hole and drive in the screw—no nut or tapping required. Ideal for replacing rivets, set screws in stripped castings, repairing torn spot welds or any type of construction.



Size No. 6		Size No. 7	
Stock Number	Price Per Gross	Stock Number	Price Per Gross
3D8175	30c	3D8185	32c
3D8176	32c	3D8186	34c
3D8177	35c	3D8187	36c
3D8178	37c	3D8188	38c
3D8179	40c	3D8189	41c

Size No. 8		Size No. 10	
Stock Number	Price Per Gross	Stock Number	Price Per Gross
3D8180	34c	3D8190	40c
3D8181	36c	3D8191	42c
3D8182	38c	3D8192	45c
3D8183	40c	3D8193	50c
3D8184	42c	3D8194	55c

Self-Tapping Screw Assortment

Most popular sizes used by set manufacturers. Can be used for replacement on Atwater-Kent, Bosch, Crosley, Fada, Majestic, Philco, etc. Ideal for general work. Does not require a nut. Consists of 21 screws of assorted sizes.

3D8195—1st. Price, 50c
YOUR PRICE 29c

Rubber Grommets

For insulating holes in metal plates on chassis, transformers and other radio and electrical parts. Tough strong vulcanized black rubber. All for metal about $\frac{1}{8}$ " thick.

Stock Num.	Fit Inside	Per Doz.	Per Hun.
3D4806	$\frac{1}{8}$ "	15c	59c
3D4807	$\frac{3}{16}$ "	17c	64c
3D4808	$\frac{1}{4}$ "	19c	69c
3D4809	$\frac{5}{16}$ "	21c	74c

3D4828. Assortment of 48 Rubber Grommets. 12 each of above size.
YOUR PRICE 42c

Rubber "Feet—Bumpers"

For use on bottom of cabinets, amplifiers, speakers, etc. Have recessed cavity for head of screw. Cannot scratch. Will support heavy weight without marring ordinary surface. For use with 6/32 or 8/32 machine screw and sizes 6 or 8 wood screws.

3D4792	$\frac{3}{8}$ " diam., $\frac{1}{8}$ " high	YOUR PRICE 19c
3D4793	$\frac{1}{2}$ " diam., $\frac{1}{8}$ " high	

Per Dozen 19c
Per Hundred .95c

Machine Screw Washer and Nut Assortment

Contains assortment of 100 6/32 Round head machine screws from $\frac{1}{4}$ " to $\frac{1}{2}$ " long. 100 sets of nuts and washers included. A very handy assortment for it contains the most necessary sizes of machine screws—furnished in the proportions most commonly used.

3D4837.
YOUR PRICE 27c

Ornamental Head Screws

For fastening Speakers to Grilles, etc.
Attractively embossed. Wide flat head, $\frac{3}{8}$ inch diameter. Will not pull through wood. 6/32 screws. Antique or Statuary Bronze finish.

Stock Number	Length	Per Dozen	Per Hundred
3D4794	$\frac{1}{4}$ "	15c	47c
3D4795	$\frac{3}{8}$ "	17c	61c
3D4796	$1 \frac{1}{4}$ "	17c	75c

Stranded Phosphor Bronze Dial Cable



3C6850
25 foot coil
74c
3C6851
100 foot spool \$2.65
High size flexibility, and strength for any make drum dial. Six individual cables each consisting of seven fine strands of phosphor bronze wire are scientifically braided together and around a strong center fibre cord making a cable $\frac{3}{16}$ " diameter. Best quality cable made.

Braided Bronze Dial Cable
Fourteen number 36 bronze wires braided over strong linen thread center. Of better quality than cable usually offered at a low price.
3C6852—25 foot coil 28c
3C6853—100 foot spool 87c

Spade Lug For Anchoring Shield Cans to Chassis, etc.

Steel Cadmium plated. Flat end with size hole for rivet or screw; threaded end size 6/32. Illustration is actual size.
3C6592
TEN FOR 9c
PER GROSS 42c
PER 1000 \$2.45

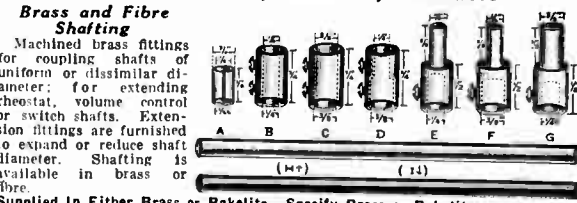
Tubular Rivets

Rivets for replacement and repair are necessary for every serviceman. How often have you hesitated to drill out a rivet for a necessary repair because you were unable to replace it in a workmanlike manner. You can now replace rivets and make a clean professional job of it by using the special clinching tool listed below. These are the most popular sizes. Body diameter $\frac{1}{8}$ ".
3D6565— $\frac{1}{8}$ " long.
3D6566— $\frac{1}{4}$ " long.
Ten for 9c
Per Gross 45c
Per 1000 \$2.25

Rivet Clinching Tool For Tubular Rivets

Every serviceman needs this handy tool for "driving home" tubular rivets. Tool is $\frac{3}{4}$ " long— $\frac{1}{2}$ " diameter, tapered at one end. Has special machined face which centers on rivet and when driven with hammer will turn the rivet body back against the material and clinches as securely as a power driven rivet. For $\frac{1}{8}$ " and $\frac{1}{4}$ " body diameter tubular rivets.
3D4710.
YOUR PRICE, Each 59c

Shaft Couplings, Reducers, Extenders



Stock Number	Style	Length	Description	Your Price
3D7290	A	$\frac{3}{4}$ " Long	$\frac{1}{4}$ " Hole I.D. $\frac{3}{8}$ " O.D. Dial Bushing	4c
3D7291	B	$\frac{3}{4}$ " Long	$\frac{1}{4}$ " Hole I.D. $\frac{1}{2}$ " O.D. Coupling	12c
3D7292	C	$\frac{3}{4}$ " Long	$\frac{1}{4}$ " Hole I.D. $\frac{3}{8}$ " O.D. Coupling	12c
3D7293	D	$\frac{3}{4}$ " Long	$\frac{1}{4}$ " Hole I.D. $\frac{1}{2}$ " O.D. Coupling	12c
3D7294	E	$\frac{3}{4}$ " Long	$\frac{1}{4}$ " Hole I.D. $\frac{3}{8}$ " O.D. Extender	12c
3D7295	F	$1 \frac{1}{4}$ " Long	$\frac{1}{4}$ " Hole I.D. $\frac{1}{2}$ " O.D. Reducer	12c
3D7296	G	$1 \frac{1}{4}$ " Long	$\frac{1}{4}$ " Hole I.D. $\frac{3}{8}$ " O.D. Reducer	12c
3D7297	H	6" Long	$\frac{1}{4}$ " Diameter Brass Shafting	12c
3D7298	H	12" Long	$\frac{1}{4}$ " Diameter Brass Shafting	18c
3D7299	H	6" Long	$\frac{3}{8}$ " Diameter Fibre Shafting	18c
3D7300	I	12" Long	$\frac{3}{8}$ " Diameter Fibre Shafting	28c

Nickel Plated Cap Screws

Highly polished hexagonal head $\frac{3}{16}$ " across and $\frac{1}{4}$ " thick. Screw is $\frac{3}{16}$ " long with standard $\frac{3}{32}$ " thread.
3E6571—16c
Package of 100

Escutcheon Plate Screws

Especially suited for use in attaching escutcheon plates to cabinets. The size offered is used most commonly and will fit with practically no exception every style of escutcheon plate. Length $\frac{1}{4}$ inch.
3D6570. No. 1 Round Head Wood Screws.
Per Gross 29c

Push Button Switch

3D6358. Open Circuit.
YOUR PRICE 27c
Ten for \$2.50

Machine and Wood Screw Assortment
Contains 85 assorted lengths 6/32 nickel plated brass machine screws. Available in round head, flat or oval head styles. Consists of 30— $\frac{3}{8}$ ", 20— $\frac{1}{2}$ ", 15— $\frac{3}{4}$ ", 10— $\frac{1}{2}$ " 10-1" lengths.
3D4831. Round Head. PRICE 24c
3D4832. Flat Head. PRICE 24c
Wood Screw Assortment
Contains 85 assorted sizes round head, flat and oval head wood screws, nickel plated.
3D4834
YOUR PRICE 24c

Condenser Sealing Compound

For "sealing" in" paper insulated or dry electrolytic condensers on repair or special work. The proper compound chemically same as used by leading condenser manufacturers. Low melting point. Cools hard. Positively excludes moisture. Put up in a convenient size 1-lb. cake size $1 \frac{1}{2} \times 1 \frac{1}{2}$ ".
3D4838—Per Package 16c
5 for 75c

Transformer Sealing Compound

Good thermo conductivity. Has the quality of displacing developed heat in transformers. Put up in a convenient size 2-lb. cake size $1 \frac{1}{2} \times 1 \frac{1}{2}$ ".
3D4839
Per Package 5 for \$1.05
YOUR PRICE 24c

Screws-Nuts

Round Head Machine

Screws

Brass—Nickel Plated

Size 6-32

Stock Number	Length Inches	Price Gross
3C6500	1/4"	\$0.30
3C6501	1/2"	.42
3C6502	3/4"	.55
3C6503	1"	.63
3C6504	1 1/2"	.76
3C6505	2"	1.08
3D6485	assortment equal quantities of each above lengths.	.69c

Steel—Cadmium Plated

Size 4-36

Stock Number	Length Inches	Price Gross
3C6525	1/4"	.19
3C6526	3/8"	.21
3C6527	1/2"	.21
3C6528	3/4"	.24
3C6529	1"	.27
3D6486	assortment equal quantities of each above lengths.	.24c

Size 6-32

Stock Number	Length Inches	Price Gross
3C6530	1/4"	.15
3C6531	3/8"	.16
3C6532	1/2"	.17
3C6533	3/4"	.18
3C6534	1"	.19
3C6535	1 1/2"	.20
3C6536	2"	.22
3C6537	1"	.24
3C6538	1 1/4"	.31
3C6539	1 1/2"	.35
3C6540	1 3/4"	.42
3C6541	2"	.45
3D6487	assortment equal quantities of each above lengths.	.36c

Size 8-32

Stock Number	Length Inches	Price Gross
3C6542	1/4"	.25
3C6543	3/8"	.28
3C6544	1/2"	.33
3C6545	3/4"	.35
3D6492	1 1/8"	.39
3D6493	1 1/2"	.41
3C6522	2"	.52
3C6523	3"	1.39
3C6524	4"	1.39
3D6488	assortment equal quantities of each above lengths.	.69c

Size 10-32

Stock Number	Length Inches	Price Gross
3C6546	1 1/4"	.30
3C6547	1 3/4"	.45

Flat-Head Machine Screws

Brass—Nickel Plated

Size 6-32

Stock Number	Length Inches	Price Gross
3C6506	1/4"	\$0.30
3C6507	1/2"	.42
3C6508	3/4"	.55
3C6509	1"	.63
3C6510	1 1/2"	.76
3C6511	2"	1.08
3D6489	assortment equal quantities of each above lengths.	.69c

Steel—Cadmium Plated

Size 6-32

Stock Number	Length Inches	Price Gross
3C6548	1/4"	.15
3C6549	3/8"	.18
3C6550	1/2"	.20
3C6551	3/4"	.22
3C6552	1"	.26
3D6490	assortment equal quantities of each above lengths.	.22c

Round Head Wood Screws

Brass, Nickel Plated

Proper thickness for radio work.

Stock Number	Length Inches	Size Diam.	Price Gross
3C6512	5/8"	5	24c
3C6513	3/4"	5	36c
3C6514	1"	6	45c
3C6515	1 1/4"	6	45c
3D6491	assortment equal quantities of each above lengths.		.42c

JUMBO 900 RADIO HARDWARE ASSORTMENT



Handy Hardware Assortment, 900 assorted nuts, screws, bolts, washers, eyelets, lock washers and grommets.

3C6584 YOUR PRICE **95c**

A real Bargain! Purchased separately, this assortment would cost over \$2.50. Contains all these type items the busiest serviceman would ordinarily use. Included are approximately: 125 assorted 3/32 machine screws 1/4" to 2" length; 100 1/2 nuts; 100 assorted 8/32 machine screws 1/4" to 2" length; 75 8/32 nuts; 100 assorted wood screws.

escutcheon screws, set screws, etc.; 150 assorted rivets and eyelets; 100 assorted fiber washers, and rubber grommets; 150 assorted brass washers, lock washers, solder lugs, eyelet lugs. Packed in neat box with removable compartments for each assortment.

Bakelite Tubing



Genuine bakelite or mica tubing. Smooth polished surface. Natural finish. All tubing listed has 1/8" wall which makes the inside diameter 1/8" less than the outside diameter.

Length 3 Inches

Stock Number	Outside Diam.	Price Each	Ten For
3C7435	1"	10c	\$0.95
3C7436	1 1/4"	13c	1.15
3C7437	2"	15c	1.35
3C7438	2 1/2"	17c	1.60
3C7439	3"	19c	1.80

Cut to Length

Any length may be specified. Minimum charge is price quoted per foot.

Stock Number	Outside Diam.	Price Foot	Four Feet
3C7444	1"	35c	\$1.30
3C7445	1 1/4"	40c	1.50
3C7446	1 1/2"	45c	1.70
3C7447	1 3/4"	50c	1.90
3C7448	2"	55c	2.10
3C7449	2 1/4"	60c	2.30
3C7450	2 1/2"	65c	2.50
3C7451	2 3/4"	70c	2.65
3C7452	3"	75c	2.80
3C7453	3 1/2"	80c	2.95
3C7454	4"	85c	3.25
3C7455	5"	92c	3.50
3C7456	6"	98c	3.75

Hollow Bakelite Rods

Genuine Bakelite. Concentric hole. Supplied in 18 inch lengths. Longer lengths supplied at proportionate prices.

Stock Number	Overall Diam.	Center Hole	Thick-18 inch Wall	Length Each
3C7465	3/8"	3/16"	3/16"	49c
3C7466	1/2"	3/16"	3/16"	59c
3C7467	3/4"	3/16"	3/16"	49c
3C7468	1"	3/16"	3/16"	59c
3C7469	1 1/4"	3/16"	3/16"	49c
3C7470	1 1/2"	3/16"	3/16"	59c

Other sizes supplied to order at proportionate prices. \$1.50 Minimum Order.

Solid Bakelite Rods

Solid bakelite rods. Polished black finish. Supplied in 18 inch lengths. Longer lengths supplied at proportionate prices. \$1.50 Minimum Order.

Stock Number	Diam. Inches	Price Each	Ten For
3C7457	1/8"	50c	\$4.25
3C7458	3/16"	50c	4.25
3C7459	1/4"	50c	4.25
3C7460	5/16"	55c	4.75
3C7461	3/8"	65c	6.00
3C7462	1/2"	70c	6.90
3C7463	3/4"	90c	8.10

Combination Rivet—Solder Lug



Rivet fits 3/8" hole. Illustration exact size. Plated with solder coating.

3C6585 PER HUNDRED... **29c**
Per Thousand... **\$1.95**

Bakelite Panels



We supply best grade bakelite panels. Machine well without chipping. Black finish.

Stock No.	Size Each In.	Thick No.	Price Each
3C7420	0.59 7x10	3C7424	\$0.98
3C7421	.75 7x12	3C7425	1.18
3C7422	.89 7x14	3C7426	1.38
3C7423	1.15 7x18	3C7427	1.77
	7x21	3C7428	1.95
	7x24	3C7429	2.15
	7x26	3C7430	2.35
	7x28	3C7431	2.55
	7x30	3C7432	2.70
	7x36	3C7433	3.20

Supplied only in 3/16" in. size.

Special Size Panels

We can supply bakelite panels in any size or thickness, either black or walnut finish. Remit full value of panel with order. Cannot be exchanged.

603C7417	1 1/2" inch thick.	1 1/2" inch. Net.	1 1/2" inch. Net.
603C7418	1 1/4" inch thick.	1 1/4" inch. Net.	1 1/4" inch. Net.
603C7419	1 1/8" inch thick.	1 1/8" inch. Net.	1 1/8" inch. Net.

NOTE: Minimum charge \$1.50 per order.

Hard Rubber Panels

Made of special compound having a rubber base. Can be drilled or cut without chipping. Will not warp. A perfect insulator for radio use. Smooth, clean edges. Thickness 1/8" inch. Average shipping weight, 3 pounds.

Stock Number	Price Each	Walnut Price Each
3C7400	\$0.56	7x10 3C7408 \$0.68
3C7401	.69	7x12 3C7409 .82
3C7402	.82	7x14 3C7410 .94
3C7403	1.03	7x18 3C7411 1.24
3C7404	1.19	7x21 3C7412 1.45
3C7405	1.35	7x24 3C7413 1.63
3C7406	1.51	7x26 3C7414 1.76
3C7407	1.76	7x30 3C7415 2.06

Insulating Washers

For insulating equipment mounted on flat metal panels or chassis.

Flat Washers

Stock Number	Outside Diameter	Hole Diameter	Thickness	Ten For
3C6450	1 1/4"	3/8"	1/16"	8c
3C6451	1 1/2"	3/8"	1/16"	8c
3C6453	1 3/4"	3/8"	1/16"	8c
3C6454	2"	3/8"	1/16"	8c
3C6455	2 1/4"	3/8"	1/16"	8c
3C6456	2 1/2"	3/8"	1/16"	8c

Extruded Washers

Shoulders fit into panel holes, insulating shaft, etc. in passing through panel.

Stock Number	Outside Diam.	Hole Diam.	Shoulder Diam.	Washer Thick.	Shoulder Raise	Ten for
3C6458	1"	3/8"	3/8"	1/16"	1/16"	12c
3C6459	1 1/4"	3/8"	3/8"	1/16"	1/16"	12c
3C6460	1 1/2"	3/8"	3/8"	1/16"	1/16"	12c
3C6461	1 3/4"	3/8"	3/8"	1/16"	1/16"	12c
3C6462	2"	3/8"	3/8"	1/16"	1/16"	12c

Lugs-Washers

Hexagon Nuts

Made of brass, nickel plated. Chamfered and countersunk for quick assembly work. Size 3/8".



3C6520—Per hundred 22c
Steel—Cadmium Plated

Stock Number	Size	Price Hundred
3C6555	3/8"	18c
3C6556	1/2"	18c
3C6557	3/4"	20c
3C6558	1 1/2"	35c

Flat Washers

Made of brass, nickel plated. Fit size 6 screws.

3C6521—Per hundred 21c
Steel—Cadmium Plated

Stock Number	Size	Price Hundred
3C6560	1/4"	18c
3C6561	3/8"	19c
3C6562	1/2"	20c
3C6563	3/4"	26c

Locking Lugs and Washers



Insure permanent tight connections. When nut is tightened down they will not loosen regardless of vibration or shaking. Tinned.

3C6588—3/8" lug with #6 hole.
3C6589—3/4" lug with #8 hole.
3C6590—3/8" washer with #6 hole.
3C6591—3/4" washer with #8 hole.
Per Hundred 25c. **\$1.75 PER THOUSAND**

Flat Lugs

3C6586 **18c**
PER 100 **\$1.55**
Per Thousand **\$1.55**

Flat lug with two holes. Illustration is actual size. Best tinned lug on the market; makes soldering easy. Punctured from sheet copper—evenly hot tinned; no bare spots. Vastly superior to electro plated or flashed lugs quoted at competitive prices.

Similar to above, but smaller. Very handy for small connections.

3C6587 **18c**
PER 100 **\$1.45**
Per Thousand **\$1.45**

Shield Grid Clips—Lugs

Slips over grid terminal on top of shield grid tubes. Lug type solders, and clip type clips to grid. Made of spring steel to insure close contact with terminal. White metal coated to prevent rust.

3C2247	Clip type.	Ten for	12c
3C2248	Lug type.	Ten for	10c
3C2249	Loop type.	Per 100	59c
		Ten for	10c

Shield Grid Clips—Lugs

3C2247	Clip type.	Ten for	12c
3C2248	Lug type.	Ten for	10c
3C2249	Loop type.	Per 100	59c
		Ten for	10c

Shield Grid Clips—Lugs

3C2247	Clip type.	Ten for	12c
3C2248	Lug type.	Ten for	10c
3C2249	Loop type.	Per 100	59c
		Ten for	10c

Servicemen's Supplies—Jacks—Plugs—Switches

Molded Bakelite Twin Tip Jacks



Fully insulated finest quality tip jacks molded in genuine bakelite. Phosphor bronze positive contact for any standard phone type. Widely spaced solder lugs flanged and pierced. Overall length 2", width 1 1/2". Mounting centers 1 1/4". Will mount in cut out 1 1/2" x 1 1/2". Engraved "Speaker" or "Phone." Priced far below its actual value.

3D6356 Engraved "Speaker."
3D6357 Engraved "Phono."
YOUR PRICE 4¢
Each TEN FOR 35¢

Yaxley Push Button Switches

Same construction as Jack switches except that in place of turn knob an insulated push button is provided. Contacts made and broken by pressure on knob. No indicating plate included. Non-locking type returns to original position when pressure released. Locking type, is automatically locked in depressed position and must be pulled back to return to original position.



Single Pole-Single Throw
Makes Contact in Single Circuit.
3C6430—Code 2001. Non-locking.
3C6440—Code 2001L. Locking.
List Price \$0.90.
YOUR PRICE 53¢

Single Pole-Single Throw
Breaks Contact in Single Circuit.
3C6431—Code 2002. Non-locking.
3C6441—Code 2002L. Locking.
List Price \$0.90.
YOUR PRICE 53¢

Single Pole-Double Throw
One circuit completed in up position. In depressed position, first circuit broken and one of contacts switched to second circuit.
3C6432—Code 2003. Non-locking.
3C6442—Code 2003L. Locking.
List Price \$1.00.
YOUR PRICE 59¢

Double Pole-Single Throw; Open
Makes contact in two separate circuits when depressed. Both circuits open in "up" position.
3C6433—Code 2001. Non-locking.
3C6443—Code 2001L. Locking.
List Price \$1.20.
YOUR PRICE 70¢

Double Pole-Single Throw; Closed
Breaks contact in two separate circuits when depressed. Both circuits closed in "up" position.
3C6434—Code 2005. Non-locking.
3C6444—Code 2005L. Locking.
List Price \$1.20.
YOUR PRICE 70¢

Double Pole-Double Throw
Two separate circuits closed in "up" position. In depressed position, one contact from each circuit is connected to a second set of separate circuits.
3C6435—Code 2006. Non-locking.
3C6445—Code 2006L. Locking.
List Price \$1.50.
YOUR PRICE 88¢

Double Pole-Double Throw
6 springs—makes and breaks both leads of two separate circuits. Connects in second circuit before breaking first circuit and vice versa.
3C6437—Code 2008. Non-locking.
3C6447—Code 2008L. Locking.
List Price \$1.65.
YOUR PRICE 97¢

Three Circuit
Breaks one circuit into two circuits. 4 springs. When button is up, two center springs contact; when depressed, 2 center springs break and each makes contact with an outside spring completing two new circuits.
3C6436—Code 2007. Non-locking. (Also known as Code 2880.)
3C6446—Code 2007L. Locking.
List Price \$1.30.
YOUR PRICE 76¢

New Insulated Tip Jacks

Fine quality tip jacks with positive contact phosphor bronze spring. For any standard phone tip. Especially suitable for terminal strip and for making quick, easy connections to test equipment. Bakelite color coded caps.

Mounts in 1/4 inch hole or will fit 3/8" hole if used with extruded mounting washer listed below. Solder lug terminal.

3D6345 Green
3D6346 Red
3D6347 Black
3D6348 Brown

YOUR PRICE, Each 5¢
TEN FOR 40¢
Per Hundred \$3.75



Fibre Washers to Insulate Jacks when mounting on metal panel or chassis
3D6461. Ten for 12¢

Short Jacks



Smallest made. Solder lugs widely spaced. Heavy bakelite insulators eliminate leakage. Mount in 3/8 inch hole on 3/8 to 1/2 inch panels. Take any standard plug.

3C6366—No. 1—Open Circuit. List. 25c. Net. 15¢

3C6367—No. 2A—Single, Closed Circuit. List. 30c YOUR PRICE 18¢

Frost Gem Jacks

Very compact. Extend 1 inch back of panel. Mount in single 3/8" hole on any panel not over 3/8" thick. Nickel plated. Solder lug connections. Two washers included.
3C6396—Code 953—Open circuit. EACH 17¢
3C6397—Code 951—Closed circuit. EACH 17¢
3C6398—Code 951—Double circuit. EACH 19¢
3C6399—Code 955—Single circuit filament control. EACH 20¢



3C6396—Code 953—Open circuit. EACH 17¢

3C6397—Code 951—Closed circuit. EACH 17¢

3C6398—Code 951—Double circuit. EACH 19¢

3C6399—Code 955—Single circuit filament control. EACH 20¢

Extension Connector
Eyelet anchors securely fasten cords and relieve strain from terminals.
3C2300—YOUR PRICE, Each 6¢
Ten for 55¢ Per hundred \$4.95

Fahnestock Connectors
Wires held firmly in spring grip. may be instantly released.
3C2243—Single connector. Turn down corners prevent turning.
Dozen 12¢
Per Hundred 65¢
3C2244—Double connector.
Dozen 28¢
Per Hundred \$1.59

Flat Jack Plug
3C6364 List Price 50c.
YOUR PRICE 29¢

Body 1 1/8 in. diameter, 1/4 in. thick. Best for wall plate connection. Polarity indicated.

Standard Jack Plug
3C6362 List Price 35c.
Each 10¢
Ten for 95¢

Moulded body 1 1/8 inch diameter with eyelet for anchoring cord.

Two Way Jack Plug
3C6363 List Price 50c.
YOUR PRICE 26¢

Ten for \$2.35

Screw connections for two sets of cords with either tip or loop ends. Has loop for attaching stay cord. Unbreakable fiber barrel.

Standard Jack Plug
3C6362 List Price 35c.
Each 10¢
Ten for 95¢

Moulded body 1 1/8 inch diameter with eyelet for anchoring cord.

Two Way Jack Plug
3C6363 List Price 50c.
YOUR PRICE 26¢

Ten for \$2.35

Screw connections for two sets of cords with either tip or loop ends. Has loop for attaching stay cord. Unbreakable fiber barrel.

Standard Tip Jacks

Solid brass, nickel plated. Takes any phone tip. Positive connection. Not insulated from panel. Requires 1/4" hole on panels of thickness up to 1/4". With nut and solder lug.



3C6370 EACH 4¢
Ten for 35c. Per Hundred \$2.75

Fibre washers to Insulate Jacks when mounting on metal panel or chassis. Diameter 3/8 inch, extruded to fit 3/8 inch hole.
3D6461. Ten for 12¢

Yaxley Jack Switches

Small and compact. Mount in 3/8 inch hole on panels up to 3/8 inch thick. Insulated knob with indicating pin set screw.
Lock nut, washer, etched indicating plate included. 1/4 inch diam shaft. Including lugs, they project 1 1/4 inches back of panel. 1 1/2 inches wide. 1 1/2 to 1 3/4 inches high. Rugged steel frame. Nickel plated. Perfect insulation. Suitable for all apparatus in low wattage circuits.

Single Pole-Single Throw
3C6420—Code 720. 2 spring. "On" and "Off." Makes and breaks one circuit. List Price 70c.
YOUR PRICE 40¢

Single Pole-Double Throw
3C6421—Code 730. 3 spring. Connects input circuit to either one of two output circuits. List Price 85c.
YOUR PRICE 50¢

Double Pole-Single Throw
3C6422—Code 732. 3 spring. Same as Code 730, except has center neutral position. List, 90c.
YOUR PRICE 50¢

Double Pole-Single Throw
3C6423—Code 710. 4 spring. Makes and breaks two circuits. List, 95c.
YOUR PRICE 55¢

Three Circuit
3C6424—Code 745. Five spring, two position contact. Two input circuits. Both connect to output in first position; in second position, circuit one is broken, circuit two is also broken but input spring is connected to fifth spring, closing third circuit. List, \$1.10.
YOUR PRICE 65¢

Double Pole-Double Throw
3C6425—Code 760. Six spring. Connects two input circuits to either of two pairs of outputs. List \$1.20.
YOUR PRICE 72¢

Double Pole-Double Throw
3C6426—Code 762. Double pole, double throw. Same as Code 760, but with center neutral position. List, \$1.20.
YOUR PRICE 71¢

Triple Pole-Double Throw
3C6427—Code 763. With center neutral position. List, \$1.55.
YOUR PRICE 91¢

Four Pole-Double Throw
3C6428—Code 764. With center neutral position. List, \$1.95.
YOUR PRICE \$1.15

D. P. D. T.

Push Button Switch

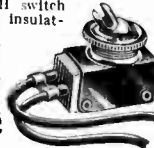


6-Springs Fully Insulated Non-corrosive positive contacts. Uniformly tempered steel springs retain their tension permanently. Double Throw—double pole opens two circuits and closes two other circuits. Mounts in 3/8" hole. Terminal lugs widely spaced.

3C6354 Non-locking } Price
3C6355 Locking } Each 50¢

S. P. S. T. Toggle Switch

A quality H & H switch with 8" stranded insulated leads. Standard 3/8" pushing rod is 3/8" long and fitted with a locking ring.
3E6344—YOUR PRICE 10¢
Ten for 75c



Rotating Type "Panel" Switch

Single Pole. Single Throw. Shaft takes knob. Threaded 3/8" diam. mounting sleeve 1/4" long. Shaft extends 1/2" beyond sleeve. Locknut included.
3E6325—YOUR PRICE 15¢
Ten for \$1.35

Solder Cord Tips
Brass. Nickel Plated
3C6371—FIFTY FOR 14¢
Per hundred 25¢

Solderless Tip Plug
3C6368 YOUR PRICE, Each 4¢
Ten for 35c. Per hundred, \$3.25

Attached to cord or wire without soldering or use of tools. Positive connection. Fit above jack or any standard tip jack or jack assembly made of brass nickel finish.

Twin Tip Jacks
3C6200—Plain (not marked).
3C6201—Marked "Phono."
3C6202—Marked "Speaker."
Each, 6c. Ten for 55¢

Three Jack Assembly
3C6203—Plain. Each, 9c. Ten for 82¢

Yaxley Junior Jacks
Same construction as jack switch except has hole for receiving any standard jack. Mount in 3/8" hole on panels not over 3/8" thick.
3C6405—Code 701. "Open Circuit." One insulated spring. List Price 40c.
YOUR PRICE 24¢

3C6406—Code 702. "Closed Circuit." Two insulated springs. List Price 55c.
YOUR PRICE 32¢

3C6407—Code 702A. Two insulated springs. Same as 3C6406 Code 702, except has solder lug on frame. For use on insulated panels. List Price 55c.
YOUR PRICE 33¢

3C6408—Code 703. "Two Circuit." Three insulated springs. List Price 65c.
YOUR PRICE 38¢

3C6409—Code 703A. "Circuit Reversing." Three insulated springs. List Price 65c.
YOUR PRICE 39¢

3C6405—Code 701. "Open Circuit." One insulated spring. List Price 40c.
YOUR PRICE 24¢

3C6406—Code 702. "Closed Circuit." Two insulated springs. List Price 55c.
YOUR PRICE 32¢

3C6407—Code 702A. Two insulated springs. Same as 3C6406 Code 702, except has solder lug on frame. For use on insulated panels. List Price 55c.
YOUR PRICE 33¢

3C6408—Code 703. "Two Circuit." Three insulated springs. List Price 65c.
YOUR PRICE 38¢

3C6409—Code 703A. "Circuit Reversing." Three insulated springs. List Price 65c.
YOUR PRICE 39¢

Toggle, Rotary and Knife Switches

Toggle-Panel Switches

Miniature Size

Underwriters approved, 3 amp., 125 V.—1 amp., 250 V. For controlling radio sets, small motors, lamps, meters, etc. Mounting sleeves all $\frac{1}{8}$ " diameter. Two locknuts included. Very rugged. Best quality. H. & H. brand. Laminated bakelite or fiber insulation. Solder lug connections.

Single Pole—Single Throw

Makes 2 Connections. Makes and breaks a single circuit. Standard "ON" and "OFF" switch. Mounting sleeve $\frac{1}{8}$ " diameter.

Stock Number	Sleeve Length	Price Each	Ten For
3C6300	$\frac{1}{8}$ "	17c	\$1.58
3C6301	$\frac{1}{4}$ "	21c	1.95
3C6302	$\frac{1}{2}$ "	24c	2.10

Single Pole—Double Throw or Three Way

3 Connections. Can be used as Three way, or single pole double throw. Mounting sleeve $\frac{1}{8}$ " diameter.

Stock Number	Sleeve Length	Price Each	Ten For
3C6303	$\frac{1}{8}$ "	22c	\$2.10
3C6304	$\frac{1}{4}$ "	24c	2.20
3C6305	$\frac{1}{2}$ "	27c	2.50

Double Pole—Single Throw

Cuts two circuits in and out. "On" and "Off" for two circuits. Mounting sleeve $\frac{1}{8}$ " diameter.

Stock Number	Sleeve Length	Price Each	Ten For
3C6306	$\frac{1}{8}$ "	24c	\$2.20
3C6307	$\frac{1}{4}$ "	27c	2.50
3C6308	$\frac{1}{2}$ "	30c	2.80

Double Pole—Double Throw

Feeds two circuits into either one of two pairs of circuits. A new development of many uses. Mounting sleeve $\frac{1}{8}$ " diameter.

Stock Number	Sleeve Length	Price Each	Ten For
3C6309	$\frac{1}{8}$ "	44c	\$4.25
3C6310	$\frac{1}{4}$ "	47c	4.50
3C6311	$\frac{1}{2}$ "	49c	4.60

Special Toggle Switches

Underwriters approved 125 V. 3 amp., 250 V. Bakelite body. Solder lug connections. Mounting sleeves $\frac{1}{8}$ " diameter. Two locknuts included.

Single Pole—Single Throw

Makes and breaks a single circuit.

Stock Number	Sleeve Length	Price Each	Ten For
3C6335	$\frac{1}{8}$ "	14c	\$1.30
3C6336	$\frac{1}{4}$ "	16c	1.50
3C6337	$\frac{1}{2}$ "	18c	1.75

Double Pole—Double Throw

Makes and breaks two circuits.

Stock Number	Sleeve Length	Price Each	Ten For
3D6341	$\frac{1}{8}$ "	28c	\$2.70
3D6342	$\frac{1}{4}$ "	32c	2.95
3D6343	$\frac{1}{2}$ "	35c	3.20

Rotary Panel Switches



Underwriters approved. For knob operation. 3 amps. 250 volts. Best quality. H. & H. brand. Cadmium plated lugs. Supplied with locknuts. Mounting sleeve $\frac{1}{8}$ " diameter. Knob shafts extend 1" beyond threaded sleeve.

Single Pole—Single Throw

Makes 2 Connections.

Stock Number	Sleeve Length	Price Each	Ten For
3E6312	$\frac{1}{8}$ "	19c	\$1.70
3E6313	$\frac{1}{4}$ "	22c	1.95
3E6314	$\frac{1}{2}$ "	25c	2.25

Single Pole—Double Throw

Makes 3 Connections.

Stock Number	Sleeve Length	Price Each	Ten For
3E6316	$\frac{1}{8}$ "	24c	\$2.20
3E6317	$\frac{1}{4}$ "	27c	2.50
3E6318	$\frac{1}{2}$ "	31c	2.95

Double Pole—Single Throw

Makes 4 Connections.

Stock Number	Sleeve Length	Price Each	Ten For
3E6319	$\frac{1}{8}$ "	36c	\$3.40
3E6320	$\frac{1}{4}$ "	42c	3.95
3E6321	$\frac{1}{2}$ "	46c	4.32

Double Pole—Double Throw

Makes 6 Connections.

Stock Number	Sleeve Length	Price Each	Ten For
3E6322	$\frac{1}{8}$ "	42c	\$3.95
3E6323	$\frac{1}{4}$ "	48c	4.60
3E6324	$\frac{1}{2}$ "	51c	4.95

Key Lock Switch

Double Pole—Single Throw

Makes and breaks one or two circuits by turn of key. Key removable when circuit is broken. Mounting sleeve $\frac{1}{8}$ " diam., $\frac{1}{2}$ " long. Attractive lock nuts included. Two keys supplied. Underwriters approved. 3 amp., 125 volts. Body size $\frac{3}{4}$ " deep, $\frac{3}{4}$ " wide, $\frac{1}{2}$ " long with insulation and lugs.

Price Each **50¢**
TEN FOR **\$4.75**

Makes and breaks one or two circuits by turn of key. Key removable when circuit is broken. Mounting sleeve $\frac{1}{8}$ " diam., $\frac{1}{2}$ " long. Attractive lock nuts included. Two keys supplied. Underwriters approved. 3 amp., 125 volts. Body size $\frac{3}{4}$ " deep, $\frac{3}{4}$ " wide, $\frac{1}{2}$ " long with insulation and lugs.

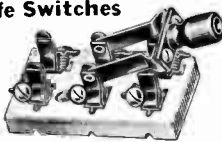
Multi-Polar Rotary Switches



A high quality snap action switch applicable to the wide variety of new circuit requirements. All steel corrosion proof frame. Bakelite insulation. Silver plated. Low resistance contacts of high grade spring phosphor bronze. 1, 2 and 3 pole switches are equipped with a standard $\frac{3}{8}$ " bushing for single hole mounting. 4, 5 and 6 pole switches are equipped with 2 mounting lugs. Lug mounting hole centers $1\frac{1}{2}$ ". Shaft extends 1". Switches are $\frac{3}{4}$ " wide and $1\frac{1}{2}$ " high.

Stock Number	Num. of Poles	Num. of Positions	Your Price
3D6288	1	1	\$0.35
3D6289	1	2	.45
3D6290	2	1	.59
3D6291	2	2	.65
3D6292	3	1	.77
3D6293	3	2	.87
3D6294	4	1	.93
3D6295	4	2	1.07
3D6296	5	1	1.17
3D6297	5	2	1.30
3D6298	6	1	1.40
3D6299	6	2	1.57

Porcelain Base Knife Switches



Glazed white porcelain bases. Copper contacts and blades with screw lug connections. Porcelain or composition finger holds. Base lengths: S.P.—2 $\frac{1}{2}$ ", D.P.—3 $\frac{1}{2}$ ". Widths 1" and 2". Rated 125 V., 25 A. For concealed or open wiring.

3E6375—Single pole, single throw, Each..... **10¢**

3E6376—Single pole, double throw, Each..... **13¢**

3E6377—Double pole, single throw, Each..... **18¢**

3E6378—Double pole, double throw, Each..... **20¢**

Bakelite Base Knife Switches

Miniature Size. Base lengths: Double throw 2 $\frac{1}{2}$ inches. Single throw 1 $\frac{1}{2}$ inches. Moulded bakelite base and handle. Contacts and blades, brass nickel plated. Suitable for mounting on panels, instruments, etc. Mounting holes for screws or bolts.

Single Throw

Stock Number Poles List Price Your Price

3C6380 One \$0.50 26c

3C6381 Two .70 37c

3C6382 Four 1.40 74c

3C6383 Five 1.75 97c

Double Throw

3C6384 One \$0.60 \$0.33

3C6385 Two .80 .45

3C6386 Three 1.20 .65

3C6387 Four 1.50 .81

3C6388 Five 2.00 1.12

Miniature Switches

Compact, neat, substantial. For base panel mounting. Bakelite base $\frac{1}{2}$ " in. long. Nickel plated blades and posts.

3D6390—Single pole, single throw. List, 20c. YOUR PRICE..... **10¢**

3D6391—Single pole, double throw. List, 30c. YOUR PRICE..... **17¢**

3D6392—Double pole, double throw. List, 50c. YOUR PRICE..... **26¢**

Switch Levers

3C6595 With black knob. EACH..... **10¢**

Tapered polished knob. Nickelated metal parts. Lever adjustable from $\frac{1}{4}$ to $1\frac{1}{2}$ inch radius.

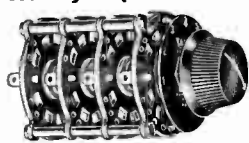
Non-Locking Push Button Switch

Contact is made when knob is pushed in and is broken when pressure is released.

3C6350—No. 122-A. Two spring. Closes one contact. List, 50c. YOUR PRICE..... **29¢**

3C6351—No. 444-A. Four springs. Closes two contacts. List, 70c. YOUR PRICE..... **41¢**

Yaxley Sectional Rotary Tap Switches



New design, excellent construction. For general radio and laboratory test circuits. Mount in $\frac{1}{8}$ inch hole on panels not over $\frac{1}{4}$ inch thick. Locknut holds switch securely in place. Contacts securely mounted on punched bakelite form. Phosphor bronze wiping contact arm makes continuous contact on ring lugs and makes and breaks contact on each point positively and quickly. Gangs are rigidly clamped together on three posts and are regularly spaced $\frac{1}{2}$ inch apart but can be supplied with any desired spacing not to exceed two inches, between gangs. Etched panel plate supplied including mounting contact positions. Diameter overall $1\frac{1}{2}$ inches. Four gang size projects 2 inches back of panel; one gang projects $\frac{3}{4}$ inch. These are smooth working and solid switches. No weaving nor play even in multi-gang with wide spacing.

Single Gang

Short'g Non Short'g Type Type Stock

Number Number Points List Price Your Price

YC1512 YC1812 2 90c 53c

YC1513 YC1813 3

YC1514 YC1814 4

YC1515 YC1815 5

YC1516 YC1816 6 95c 56c

YC1517 YC1817 7

YC1518 YC1818 8 \$1.15 68c

YC1519 YC1819 9

YC1510 YC1810 10

Two Gang

YC1522 YC1822 2 \$1.50 88c

YC1523 YC1823 3

YC1524 YC1824 4

YC1525 YC1825 5

YC1526 YC1826 6 \$1.60 94c

YC1527 YC1827 7

YC1528 YC1828 8

YC1529 YC1829 9 \$1.90 \$1.12

YC1520 YC1820 10

Three Gang

YC1532 YC1832 2 \$2.10 \$1.23

YC1533 YC1833 3

YC1534 YC1834 4

YC1535 YC1835 5

YC1536 YC1836 6 \$2.20 \$1.29

YC1537 YC1837 7

YC1538 YC1838 8

YC1539 YC1839 9 \$2.50 \$1.47

YC1530 YC1830 10

Four Gang

YC1542 YC1642 2 \$2.70 \$1.59

YC1543 YC1643 3

YC1544 YC1644 4

YC1545 YC1645 5

YC1546 YC1646 6 \$2.80 \$1.65

YC1547 YC1647 7

YC1548 YC1648 8

YC1549 YC1649 9 \$3.10 \$1.82

YC1540 YC1640 10

Note: This type switch can be supplied up to 9 gang, 10 point, at prices proportionate to above.

Push Button Switch

Locking Type. Two position; locks in both positions. Contact is made when knob is pulled out. 3C6352—No. 422. Two springs. Closes one contact. List, 50c. YOUR PRICE..... **29¢**

3C6353—No. 414. Four springs. Closes two contacts. List, 70c. YOUR PRICE..... **41¢**



MAGNET WIRE

Finest quality. Uniform. Carefully inspected insulation. One continuous length only on each spool. Sizes are exact standard B & S gauge. Specifications conform to those given by leading manufacturers for radio apparatus, motor and generator windings, etc. Guaranteed.

WHITE SINGLE COTTON COVERED

Stock Number	Price 8 oz. Net wt. Spool	Ft. per Spool	SIZE
3E2100	22c	63	16
3E2101	24c	100	18
3E2102	29c	155	20
3E2103	34c	245	22
3E2104	35c	380	24
3E2105	43c	600	26
3E2106	46c	925	28
3E2107	54c	1430	30

WHITE DOUBLE COTTON COVERED

Stock Number	Price 8 oz. Net wt. Spool	Ft. per Spool	SIZE
3E2115	24c	61	16
3E2116	27c	96	18
3E2117	31c	150	20
3E2118	33c	232	22
3E2119	37c	355	24
3E2120	48c	540	26
3E2121	61c	815	28
3E2122	73c	1210	30

PLAIN ENAMELED

Stock Number	Price 8 oz. Net wt. Spool	Ft. per Spool	SIZE
3E2130	20c	62	16
3E2131	21c	101	18
3E2132	22c	148	20
3E2133	25c	232	22
3E2134	27c	402	24
3E2135	29c	640	26
3E2136	32c	1015	28
3E2137	34c	1610	30

GREEN DOUBLE SILK COVERED

Stock Number	Price 8 oz. Net wt. Spool	Ft. per Spool	SIZE
3E2145	42c	62	16
3E2146	45c	100	18
3E2147	47c	157	20
3E2148	55c	247	22
3E2149	63c	389	24
3E2155	72c	610	26
3E2156	81c	955	28
3E2157	97c	1480	30

NOTE: Magnet wire of any size or insulation and in any weight spools supplied at proportionate prices. Minimum size order accepted for any magnet wire not listed is \$1.00. Minimum order may be for more than one kind of wire if desired. We quote very low prices on 5 to 10 pound lots of a size. Write for quotations.

Beldenamel Antenna Wire



Seven strands, size 22 Enameled Copper Wire.

Stock Number	Belden No.	Length Ft.	List Price	Your Price
3E2381	8820	75	\$0.65	\$0.39
3E2382	8821	100	.85	.51
3E2383	8822	150	1.25	.74
3E2384	8823	1000	8.00	4.71

Belden Shielded Lead-In and Ground Wire

Stranded conductor with heavy easy-strip rubber insulation and overall braid of fine tinned copper wire. In service the shielding is grounded to pick up disturbances and carry them to the ground.

3E2391—No. 8856. 50 ft. No. 14 shielded. List, \$2.35.

YOUR PRICE \$1.35

3E2392—No. 8854. 250 ft. No. 14 shielded. List, \$11.25.

YOUR PRICE \$6.60

3E2393—No. 8891. 50 ft. No. 16 shielded. List, \$1.50.

YOUR PRICE 88c

3E2394—No. 8895. 250 ft. No. 16 shielded. List, \$7.00.

YOUR PRICE \$4.12

Belden All Rubber Lead-In and Ground Wire

Insulated with special rubber compound which strips easily.

3E2395—No. 8850. 50 ft. No. 14 seven strand. List, 90c.

YOUR PRICE 53c

3E2396—No. 8851. 250 ft. No. 14 seven strand. List, \$4.25.

YOUR PRICE \$2.50

3E2397—No. 8852. 50 ft. No. 16 seven strand. List, 50c.

YOUR PRICE 29c

3E2398—No. 8853. 250 ft. No. 16 seven strand. List, \$2.35.

YOUR PRICE \$1.32

Saturated Braided Tubing

36-inch lengths. The correct size for all general purposes. Fits over sizes 14, 16 and 18 wire and can be used on size 12 wire with little stretching. Thoroughly saturated with a high quality wax impregnation.

3E2052—Red

3E2053—Black

10 lengths for **29c**

Shielded Lead-in and Ground Wire



Size 18 stranded inner conductor. Rubber insulated with outer braided shield of tinned copper wire. When used as lead-in, by grounding the outer shield, the tendency to pick up man-made static between aerial and receiver is practically eliminated.

3E2195—50 foot coil. **45c**

EACH

3E2196—100 foot coil. **88c**

EACH

3E2194—250 foot coil. **\$2.15**

EACH

Lead-in Wire



Copper wire, rubber insulated. Used for lead-in and ground wire. Also makes good aerial wire.

Solid Conductor

With outer weatherproof braid.

Stock Number	Coil Feet	Per Coil	Ten Coils for
3E2165	25	\$0.16	\$1.40
3E2166	50	.27	2.45
3E2167	100	.45	4.95
3E2168	1000	4.75	

Stranded Conductor

Rubber Covered—No outer braid.

Stock Number	Coil Feet	Per Coil	Ten Coils for
3E2169	25	\$0.12	\$1.05
3E2170	50	.23	2.25
3E2171	100	.45	4.20
3E2172	1000	3.95	



Rubber Covered Hook-up Wire

Stranded, tinned copper wire covered with live rubber insulation to withstand any voltage ordinarily used in radio. Best for short leads and ease of wiring. Belden 25-foot coils in carton.

3E2040 Red

3E2041 Green

3E2042 Blue

3E2043 Black

3E2044 Yellow

3E2045 Gray

YOUR PRICE

Per Coil

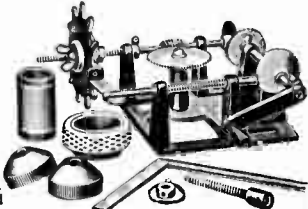
15c

Insulating Cement

3E2065—Per 2-oz. bottle. **22c**

A transparent celluloid base cement for insulating and impregnating wires and coils. Makes spider web, honeycomb, etc., coils self-supporting. No capacity or absorption effects.

Universal Coil Winder



3E4629—**YOUR PRICE \$4.35**

For winding Honey Comb, Spider Web and Solenoid Coils of different widths and diameters. Will use wire of different gauges. Accurate coils can be made. Equipped with necessary accessories for winding various types of coils. Has a recorder with adjustable pointer for counting number of turns.

Litz Wire

8.5 strands No. 38 enameled wire. Will not stretch. Maroon cotton covered.

3E2385—125 ft. List, \$1.75. **YOUR PRICE \$1.13**

20 strands No. 38 enam. wire with double covering of silk.

3E2386—100 ft. List, \$1.00. **YOUR PRICE .19c**

Bare Copper Wire



7 Strand Conductor

Stock Number	Equip. Size	Coil Feet	Per Coil	Ten Coils for
3E2175	27	50	9c	\$0.80
3E2176	24	50	13c	1.25
3E2177	22	50	17c	1.65
3E2178	27	75	13c	1.25
3E2180	24	75	19c	1.80
3E2180	22	75	25c	2.40
3E2181	27	100	17c	1.60
3E2182	24	100	22c	2.10
3E2183	22	100	31c	2.95

3E2184 | 14 | 100 | 28c | 2.70

Enameled Copper Wire

7 Strand Conductor

Stock Number	Equip. Size	Coil Feet	Per Coil	Ten Coils for
3E2185	22	50	21c	\$1.90
3E2186	24	75	24c	2.25
3E2187	22	75	35c	3.30
3E2188	26	100	22c	2.10
3E2189	24	100	30c	2.90
3E2190	22	100	41c	3.80

Solid Conductor

3E2191	14	100	31c	2.90
3E2192	12	100	48c	4.50



Push-Back Hook-up Wire

Tinned copper wire, cotton served and covered with a paraffined braided push back braid when soldering. Then replace it.

Num. 20 Solid Copper Core

25 Ft. Rolls Stock Num.	Color	100 Ft. Rolls Stock Num.
3E1764	Red	3E1773
3E1765	Yellow	3E1774
3E1766	Blue	3E1775
3E1767	Green	3E1776
3E1768	Black	3E1777
3E1769	Brown	3E1778
3E1770	White	3E1779
3E1771	Gray	3E1780
3E1772	Maroon	3E1781

YOUR PRICE PER ROLL 10c

9 Rolls (One Each Color) for **85c**

YOUR PRICE PER ROLL 37c

9 Rolls (One Each Color) for **\$2.95**

Stranded Copper Core Num. 20 (10 strands of #30 Wire)

25 Ft. Rolls Stock Num.	Color	100 Ft. Rolls Stock Num.
3E1782	Red	3E1791
3E1783	Yellow	3E1792
3E1784	Blue	3E1793
3E1785	Green	3E1794
3E1786	Black	3E1795
3E1787	Brown	3E1796
3E1788	White	3E1797
3E1789	Gray	3E1798
3E1790	Maroon	3E1799

YOUR PRICE PER ROLL 12c

9 Rolls (One Each Color) for **99c**

YOUR PRICE PER ROLL 43c

9 Rolls (One Each Color) for **\$3.68**

Num. 18 Solid Copper Core

25 Ft. Rolls Stock Num.	Color	100 Ft. Rolls Stock Num.
3E2000	Red	3E2009
3E2001	Yellow	3E2010
3E2002	Blue	3E2011
3E2003	Green	3E2012
3E2004	Black	3E2013
3E2005	Brown	3E2014
3E2006	White	3E2015
3E2007	Gray	3E2016
3E2008	Maroon	3E2017

YOUR PRICE PER ROLL 13c

9 Rolls (One Each Color) for **\$1.08**

YOUR PRICE PER ROLL 47c

9 Rolls (One Each Color) for **\$3.85**

Stranded Copper Core Num. 18 (16 strands of #30 Wire)

25 Ft. Rolls Stock Num.	Color	100 Ft. Rolls Stock Num.
3E2020	Red	3E2029
3E2021	Yellow	3E2030
3E2022	Blue	3E2031
3E2023	Green	3E2032
3E2024	Black	3E2033
3E2025	Brown	3E2034
3E2026	White	3E2035
3E2027	Gray	3E2036
3E2028	Maroon	3E2037

YOUR PRICE PER ROLL 14c

9 Rolls (One Each Color) for **\$1.18**

YOUR PRICE PER ROLL 49c

9 Rolls (One Each Color) for **\$4.05**

"Spaghetti" Tubing



30-inch lengths. The best quality spaghetti made. Made of high grade cambric tubing impregnated with high insulation transparent varnish. Different colors can be used to mark different circuit. Don't be fooled by low price spaghetti with gelatin or cheap oil impregnation. We know of no other brand on the market to approach our stock spaghetti in quality and our price is positively the lowest for this grade of quality.

3E2055—Black 3D2060—Blue
 3E2056—Yellow 3D2061—White
 3E2057—Brown 3D2062—Gray
 3E2058—Green 3D2063—Maroon
 3E2059—Red

YOUR PRICE
 10 lengths for **59c**

Shielded Low Capacity Cable



For Auto Antenna Lead-in and Short Wave Converters. Stranded copper conductor size 18. Rubber insulated. Lute or cotton filler over conductor with tinned copper shielding overall. Extremely low capacity between conductor and shield permits shield grounding without loss of signal.

4E11065— $\frac{1}{2}$ " Outside Diam. **67¢**
 10 feet for
 100 feet for **\$6.23**
4E11066— $\frac{3}{4}$ " Outside Diam. **49¢**
 0 feet for
 100 feet for **\$4.50**

Shielded Low Capacity Cable



Rubber Jacket Overall
 Outer rubber jacket insures Positive Weatherproofing. Can be used for Auto Antenna Lead-in or wherever a low capacity cable must withstand climatic conditions. Constructed like above cable except enclosed in a heavy rubber jacket.

4E11067— $\frac{1}{2}$ " Outside Diam. **97¢**
 10 feet for
 100 feet for **\$9.50**

Shielded Low Capacity Weatherproof Tubing



$\frac{1}{2}$ " Inside Diameter and approximately $\frac{1}{4}$ " Outside Diameter. Small outside diameter permits easy assembly in corner post of auto as shield for antenna lead-in. Excellent for shielding output of signal generators, or any cables with a diameter of less than $\frac{1}{2}$ ". Consists of a thoroughly impregnated loom tubing covered with a finely woven tinned copper shield.

4E11068—10 ft. coil. **46¢**
 YOUR PRICE
 100 feet for **\$3.95**

Shielded Ignition Cable



7 M/M shielded secondary high tension wire. For leads from plug to coil, distributor to coil, etc. Conductor consists of 18 strands size 27, tinned copper wire, over which is covering of high tension rubber compound and a specially impregnated cotton braid. Overall is woven shielding of tinned copper wire. Very flexible.

4E11071—10 feet for **65¢**
 100 feet for **\$5.00**

Shielded Wires for Auto Radio Installations

For "A" Battery Leads
 Conductor is B & S size 12 equivalent, consisting of 51, etc. 30 stranded tinned copper wire. Insulation consists of two wrappings of varnish impregnated cambric tapes over which is a woven cotton braid. Overall is woven shielding of tinned copper wire. Very flexible.

4E11069—10 feet for **52¢**
 100 feet for **\$3.90**

For "B" Battery and Speaker Leads

4E11070—Conductor is B & S size 18 equivalent consisting of 16 strands size 30 copper wire. Insulation same as above.

10 feet for **34¢**
 100 feet for **\$2.62**

Tinned "Bus" Wire

No. 14. Cut into two-foot lengths.

3C2067—Round, 10 Lengths. (20 feet) **13¢**
 100 lengths (200 feet) **\$1.05**

Radio Cables

For Microphone and Public Address Installations



Glazed Braid Overall

Each conductor size 18 of stranded copper wires, $\frac{1}{2}$ " rubber insulated and braid covered. Each covering is distinctively colored for easy tracing. Individual conductors are cabled together and covered with brown glazed braid overall. Very flexible.

Stock Number	Num. Cond.	10 feet for	100 feet for
4D11000	1	8c	\$0.68
4D11001	2	18c	1.54
4D11002	3	22c	2.15
4D11003	4	28c	2.65
4D11004	5	34c	3.10
4D11005	6	38c	3.70
4D11006	7	48c	4.45
4D11007	8	58c	5.10



Rubber Jacket Overall

Each conductor size 18 of stranded copper wires, $\frac{1}{2}$ " rubber insulated, distinctively colored for easy tracing. Individual conductors are cabled together and enclosed in outer waterproof super service rubber jacket overall. A very flexible and rugged cable that will withstand severe wear.

Stock Number	Num. Cond.	10 feet for	100 feet for
4D11010	2	24c	\$2.19
4D11011	3	37c	3.40
4D11012	4	45c	4.00
4D11013	5	57c	5.25
4D11014	6	68c	6.25
4D11015	7	77c	7.00
4D11016	8	86c	8.00



Shielded Covering Overall

Each conductor size 18 of stranded copper wires, $\frac{1}{2}$ " rubber insulated and braid covered. Each covering is distinctively colored for easy tracing. Individual conductors are cabled together and covered overall with woven shield of fine size tinned copper wires. Very flexible. Perfect electrostatic shield.

Stock Number	Num. Cond.	10 feet for	100 feet for
4D11020	1	17c	\$1.53
4D11021	2	28c	2.50
4D11022	3	35c	3.25
4D11023	4	41c	3.85
4D11024	5	50c	4.60
4D11025	6	60c	5.75
4D11026	7	70c	6.25



Woven Shield Covered With Rubber Jacket Overall

Each conductor size 18 of stranded copper wires, $\frac{1}{2}$ " rubber insulated and braid covered. Each covering is distinctively colored for easy tracing. Individual conductors are cabled together and covered over all with close woven shield of fine size tinned copper wire. Over shield is an outer super-rubber jacket providing a waterproof practically wearproof covering. This cable is recommended for theater, and outdoor service on P. A. systems, as microphone cable, extensions, etc. The finest cable made. Very flexible. Will stand hardest use.

Stock Number	Num. Cond.	10 feet for	100 feet for
4D11040	2	30c	\$2.50
4D11041	3	43c	3.85
4D11042	4	55c	4.45
4D11043	5	67c	5.75
4D11044	6	76c	7.00
4D11045	7	82c	7.50

Woven Shield Covered With Glazed Braid Overall

Each conductor size 18 of stranded copper wires, $\frac{1}{2}$ " rubber insulated and braid covered. Each covering is colored for easy tracing. Conductors cabled together and covered with close woven shield of fine size tinned copper wire. Over the shield is an outer glazed cotton braid. Recommended for all purpose where shielded cable is required and not subjected to too much mechanical wear. For Auto Radios, Home Radios, P. A. Systems, etc., where cable might touch grounded metallic objects. Much noise is eliminated from reproduced program with its use.

Stock Number	Num. Cond.	10 feet for	100 feet for
4D11030	2	\$0.33	\$2.92
4D11031	3	.39	3.60
4D11032	4	.46	4.30
4D11033	5	.57	5.06
4D11034	6	.69	6.25
4D11035	7	.81	7.00
4D11036	8	.88	7.90

Note: Wire on orders for multiples of 10 feet or for more than 100 feet will be shipped in continuous lengths.

Extension Cords For Headsets and Loudspeakers



Fine Stranded Copper Wire Conductors.
 Each conductor rubber insulated and covered with cotton braid. Two such conductors laid parallel with braid covering over all. Cord tips each end.

Stock Number	Length Feet	Price Each	For Ten
3C2310	10	18c	\$1.71
3C2311	20	24c	2.28
3C2312	30	35c	3.33
3C2313	50	49c	4.65

Stock Number	Cord Length	Price Each
3C2314	20 foot	29c
3C2315	30 foot	39c
3C2316	50 foot	54c

Emergency or Temporary Microphone Cable



A 3-conductor cable constructed of No. 18 solid copper conductors. Conductors are double cotton served, twisted together and covered overall with a paraffined cotton braid. Conductors are colored red, white and blue. Especially designed for thermo-relay circuits, oil burners and heat control devices but will make an excellent temporary cable for microphone current handling or abuse; should not be used for permanent installations. It will safely carry any current for microphone operation but insulation is too light for speaker circuits.

3E2203—10 ft. roll. **\$1.19**
 YOUR PRICE

Analyzer Cable 8 and 9 Conductor



Has two heater leads of size 16 stranded tinned copper wire. Balance of conductors are size 20. All conductors are cotton served, covered with a $\frac{1}{2}$ " rubber insulation, and a lacquer dipped color-coded cotton braid. Black glazed braid overall. Supplied in 5 ft. lengths. Longer lengths are available. Add 5c for each additional foot of 8 wire cable and 9c for each additional foot of 9 wire cable.

3E8072 —8 wire cable. 29¢
5 foot length
3E8073 —9 wire cable. 36¢
5 foot length

Copper Shielding



For Use on Any Wire

This shielding is used on amplifiers, speakers, public address conduits, automobile radios and wherever it is desirable to eliminate electrical interference. Forms perfect electrostatic and interference shield. The conductors are run through the sleeving and the sleeving is grounded. Very flexible; can be expanded to nearly double its original diameter, but the length is reduced proportionately. Prices quoted are for lengths of flat wire. Shortening of shielding when opened up to sizes we specify is about 25%, so order 25% more flat length than opened up length actually needed.

Natural Copper Finish			
Stock Num.	Diam.	Wide 10 ft.	50 ft.
4E11072	1 in.	Flat For	For
4E11073	$\frac{1}{2}$ in.	$\frac{3}{8}$ in.	42c \$1.65
4E11074	$\frac{3}{8}$ in.	$\frac{1}{4}$ in.	30c 1.25
4E11075	$\frac{1}{4}$ in.	$\frac{1}{8}$ in.	20c .85
			15c .60

Individual Wires Tinned			
Stock Num.	Diam.	Wide 10 ft.	50 ft.
4E11076	1 in.	Flat For	For
4E11077	$\frac{1}{2}$ in.	$\frac{3}{8}$ in.	41c 1.71
4E11078	$\frac{3}{8}$ in.	$\frac{1}{4}$ in.	30c 1.35
4E11079	$\frac{1}{4}$ in.	$\frac{1}{8}$ in.	24c .97

Lead Sheathed Wire



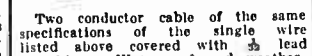
Size 18 single conductor made up of tinned copper wire strands with $\frac{1}{2}$ inch rubber wall, over which is a $\frac{1}{2}$ inch lead sheath.

The only absolutely perfectly shielded wire. Necessary for best results on Low Voltage transmission line transformers like the Elm-O-Stat. Tube, etc., when used in locations near ignition systems for oil-burning furnaces, X-Ray and Electrothermo high frequency apparatus and other similar devices generating intensive interference. May be used underground or in water. Will also improve reception on Auto Radio Sets when used in primary circuits of spark-coil. Overall diameter about $\frac{1}{2}$ inch.

3D2197—50 foot coil. **\$1.25**
 YOUR PRICE

3D2198—100 foot coil. **\$2.18**
 YOUR PRICE

Duplex Wire Lead Sheathed

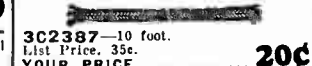


Two conductor cable of the same specifications of the single wire listed above covered with $\frac{1}{2}$ lead sheathing. Waterproof and weatherproof. Completely electrostatic shielded. Recommended as replacement for exposed wiring feeding small motors or light equipment. Eliminates primary radiation.

3D2199—50 ft. coil **\$2.35**
 YOUR PRICE

3D2200—100 ft. coil **\$3.95**
 YOUR PRICE

Pigtail Wire



3C2387—10 foot. List Price, 35c. **20¢**
 YOUR PRICE

A braided wire cable made up of very fine threads of copper wire, which gives it extreme flexibility. Use it for making connections on your variable condensers, variometers, and switches and avoid high frequency resistance losses.

Parallel Lamp Cord All Rubber Covering



2 Conductors of No. 18 (41 strands of No. 34) wire with $\frac{1}{4}$ " wall of rubber, cotton braid over each conductor, laid parallel and covered overall with a $\frac{1}{2}$ " rubber jacket. Beautiful smooth brown finish. Flat oval shape $\frac{3}{4}$ " wide, $\frac{1}{8}$ " thick. Illustration is actual size. Extremely flexible.

4E11049—10 foot length. **29¢**
 YOUR PRICE

Insulators

Wall Insulator



For supporting wiring or instruments, or may be used outside for supporting lead-in or ground wires. Glazed brown porcelain. Nuts and washers as shown. Dimensions: 2 1/4 x 2 3/4 x 2 inches. Shpg. wt., 8 oz.

3E2230—8¢
YOUR PRICE
Ten for.....**70c**

Aerial Insulators



Glazed porcelain, deeply corrugated to prevent leakage. Holes at each end for attaching wires. Shpg. wt., 1/2 lb.

3E2232—2 1/2 inches long.
Ten for.....**18c**

3E2233—4 inches long.
Each.....**5c**
Ten for.....**46c**

3E2234—5 inches long.
Two for.....**17c**

Insulator

3E2237—With 3 inch lock screw.
Each.....**2 1/2¢**

Ten for 22c
100 Lots, \$1.95

3E2238—With 7 inch long screw.
Each.....**4¢**

Ten for 35c
100 Lots, \$2.75

For attaching lead-in or ground wire to posts or side of building. Center of porcelain mounted in galvanized screw eye. Shpg. wt., 4 oz.

Nail Knobs



Glazed, white porcelain square insulators. Separable cap with base. Assembled together with nail having leather washer under head. Ready for use. Grooves for two wires. For lead-in or ground wires. Diameter 1 1/2 in. Height, 1 1/2 in.

3E2223—15¢
Ten for.....
Per Hundred.....**85c**

Stand-off Insulators



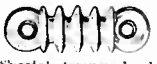
Made of porcelain. 4 inch lengths only. For finest antenna installations. Shpg. wt., 6 oz.

3E2229—4 inch.
Your Price.....**7¢**
Ten for.....**65c**

Porcelain Strain

Designed especially for insulating extra long aerial or guy wires. Extra strong. These insulators will help prevent antenna troubles. Shpg. wt., dozen, 4 lbs.

3E2239—Each 5¢
Ten for.....**36c**



Glass Insulators

Special tempered glass unaffected by heat or cold or other atmospheric conditions. Finest quality. Approximately 3/4 in. long

3E2231—Ten for 29¢
Per Hundred.....**\$2.65**



Weatherproof Stand-off Insulator

Porcelain Body 2 1/2 in. high. Diameter 3/4 in. Heavy large screw. For outside work.

3E2236—10¢
Each.....
Ten for.....**85c**

DX Lifetime Aerials



Giant Aerials for Roof or Attic

4E10750—25 foot. (Has 125 feet wire.)
List, \$3.95. Your Price.....**\$1.69**
4E10751—50 foot. (Has 250 feet wire.)
List, \$4.95. Your Price.....**\$2.23**

More selective and powerful. Superior to straight wire with any type set! Gives effect of a long aerial in a confined space. Sharpens tuning. Non-directional. Excellent signal strength. No. 7/24 stranded enameled copper wire. Zinc ring separators, assembled with two porcelain insulators, ready to string up. 25 feet lead-in wire soldered to aerial.

Best Type aerial for short wave sets. This type used by army and navy.

Aerial Kits—Priced Right

STANDARD KIT CONTAINS:

50 ft. No. 7/26 stranded aerial wire; 25 ft. rubber covered lead-in wire; 1 approved lightning arrester; 2 porcelain insulators; 1 ground clamp; 1 window lead-in; 2 porcelain nail knobs.

3E2075—YOUR PRICE 42¢

SPECIAL KIT CONTAINS:

75 ft. No. 7/26 stranded aerial wire; 50 ft. rubber covered lead-in wire; 25 ft. ground wire; 1 standard approved lightning arrester; 2 porcelain insulators; 3 porcelain nail knobs; 2 galvanized screw eyes; 1 window lead-in strip; 1 ground clamp; 1 instruction sheet.

3E2076—YOUR PRICE 63¢

Special High Frequency All-Wave Aerial Kit

U.S. Signal Corps Pattern

A scientific aerial designed for permanent installation with all-wave sets intended to receive European and American Broadcasts.

Kit includes 100 ft. Beldenamel No. 12 Solid Copper Wire, 2-glass tension insulators, 2-stand-off, 3" insulators, 1-low-loss Air-Gap Lightning Arrester, 1 Reinforced Ground Clamp, 1-Spring Antenna Tightener and 1-Porcelain Lead-In Insulator. The 100 Ft. of solid wire should be divided, 65 ft. for the lead-in and aerial, 35 ft. for the ground circuit. This makes an ideal length for Trans-Atlantic reception. The solid wire offers less impedance to High-Frequency signals than twisted multi-strand wire. The non-inductive stand off insulators eliminate the loss caused by looping the wire around the iron core of Nail-It-Knobs. The one piece solid aerial prevents noise from loose joints; the spring aerial tightener reduces fading from aerial swaying.

3E2078—List Price \$3.50. YOUR PRICE COMPLETE 1.29

Ground Clamps



Visc grip hardened steel frame. Bite through rust, corrosion, paint, and foreign matter of all kinds. Will not rust. 1 1/2-in. opening.

3E2255—4¢
Each.....
Ten for.....**35c**
Lot of 100.....**3.14**



Reinforced frame. Teeth cut through rust and paint. Separate screw for attaching wire. Fits pipe up to 1 1/2 inches diameter.

3E2439—5¢
EACH.....
Ten for.....**45c**
Per Hundred.....**\$4.25**

Braided Ribbon Antenna

25 strands of copper wire braided into flat ribbon. 100 ft. contains nearly 1/2 mile of wire. Gives maximum conductive surface to radio waves.

3E2298—Per 100 Ft. Coll. YOUR PRICE 79¢

Baby Insulator

For suspending wire inside of house. Rubber insulator. Screw 1 1/2 in. over all

3E2240—18¢
Per box of 10.....

Filtered Aerial Wire



List, \$1.50.
3C2464
Your Price.....**86¢**
60 Foot Coil

Designed on revolutionary principles. Filters and amplifies incoming signal. Excellent for distant reception. Reduces static. Composed of solid copper core, insulated over which is helically wound an enamel insulated fine copper wire. Inner core wire to be grounded at each end. Outer wire connected to aerial on set.

"Super-Thru" Combined Radio Outlet, Aerial-Ground and Lightning Arrester

The only Aerial-Ground entrance fitting that is approved by the Underwriters Laboratories. Should be used in every first-class residential installation. Provides greatest convenience with maximum protection. All parts of molded Bakelite. Mounts through single 3/4" hole. No outlet box required. Fits any wall up to 1 1/2 inches in thickness. Inside-plate held by tension, no screws. Special polarized attachment plug will not fit electric outlet and can not be reversed in its own plate. Installation consists of a special plug, inside wall-plate, and exterior Lightning Arrester. Connection from inside plate to Arrester plate made by 12 gauge insulate wires which are furnished. Easy to install.

Arresters

Superior Arrester



A dependable air gap type arrester. Porcelain case. Shpg. wt., 10 oz.

3E2207—Each 5¢
Lots of 10.....**45c**
Lots of 100.....**\$3.85**

Belden Bakelite Lightning Arrester



Moulded bakelite body. Suitable for use inside or out of doors. Sturdy. Reliable. Underwriters standard. Furnished with \$100.00 lightning damage guarantee.

3E2379—List, 25c. YOUR PRICE 14¢
Ten for.....**\$1.29**



Brach Storm Arrester

Made of genuine bakelite. Non-air gap principle. For indoor installation. \$100.00 insurance policy as a lightning, for your radio set, goes with this arrester. Shpg. wt., 1 lb.

3E2211—List, 50c. YOUR PRICE 28¢

Glass Arresters



Base of clear crystal glass. Carbon element held between brass conductors. Clearly visible. \$100.00 insurance with this arrester.

3E2224—List, \$1.00. YOUR PRICE 36¢
Each.....

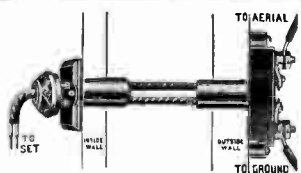
ELECTRO-STATIC

Lightning Arrester Static Arrester



Has choke coil and condenser connected between aerial and set terminals which act as a static and noise reducer and filter. Sold with a \$100.00 free insurance bond against lightning.

3C2463—List Price, \$1.00. YOUR PRICE 58¢

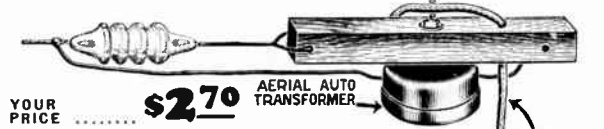


Two Types—for Regular or Shielded Lead-In

3E2205—Standard Type "Super-Thru" complete. 88¢
List, \$1.85. YOUR PRICE.....

3E2206—Special Type "Super-Thru" for use with Shielded Lead-In. List Price, \$2.15. YOUR PRICE 1.25

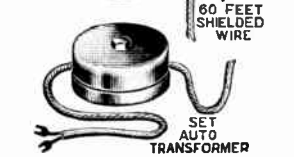
Radolek Noise Filter System



YOUR PRICE \$270
3D8510—List Price \$4.50.

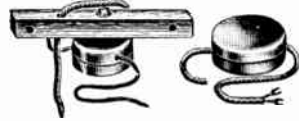
A low voltage shielded transmission line antenna lead-in with auto-transformer for the elimination of man-made static.

Simply put up an aerial outside the field of interference. Install one transformer at aerial and run shielded lead to second transformer installed in or near set. Connection from this transformer is to set aerial. Shielding is grounded. Signal strength is preserved—even amplified, and long leads of several hundred feet are entirely practical when necessary to put aerial in the clear. Many installations of this system are giving excellent results here in Chicago in locations where previously no Radio Receiver could be satisfactorily operated because of interference.



The complete kit includes:— One highly efficient antenna step-down auto transformer enclosed in water-proof copper case and mounted on a special impregnated block; 60 feet of shielded wire lead-in cable which is soldered to antenna transformer; one step-up auto transformer for use at the Radio Receivers. Complete instructions included. Weatherproof. Easily and quickly installed.

Auto-Transformer Kit



Step-up Auto Transformer—couples low voltage lead-in transmission line to any receiver. Step-Down Auto Transformer—couples antenna to low voltage lead-in transmission line. Mounted on insulating bar. Same as in above kit.
3E8514—Kit 2 pieces. \$1.95
YOUR PRICE

Multiple Outlet Assembly



Step-up multiple Auto Transformer with Fleron Plugs and receptacles and 6 Ft. of shielded wire. May be used with Step-down Transformer for any number of outlets from two to seven.
3E8513—List, \$2.50. \$1.47
YOUR PRICE

3E8508—Step-Up Auto Transformer only. YOUR PRICE .95c

3E8509—Step-Down Auto Transformer only. YOUR PRICE \$1.08

Antenna Lead-in Window Strips



Duco Impregnated web covered copper conductors. Waterproof insulation.
3E2470—12 inches long. 4c
Per Doz...36c; 100 for...\$3.25

Antenna Lead-In



A new type lead-in strip with a screw and self locking terminal on copper strip. Webbing covering impregnated with Hygloss Duco.
3E2475—12 inches long. 6c
Per Doz...54c; 100 for...\$4.95

Lynch Antenna Systems

There is a Lynch Antenna Kit for every type of home-operated Receiver. Each will improve the reception of the type of Set for which it was designed. They eliminate "man-made" static and greatly increase signal pick-up and clarity. Every Set owner should have one... You can make many extra dollars by calling them to the attention of your customers.



De Luxe All-Wave Kit
 For Cage Doublet and Transposed Transmission line. Guaranteed to give better results than any other Antenna when used with any **All-Wave, Short-Wave, or Broadcast Set** Kit includes: 300 feet "HI-MHO" enameled short wave wire (light weight), 20 Transposition Blocks, (enough to make 25 Ft. of transmission line), 10 Cage-Aerial Spreaders, 8 Navy standard Insulators, 1-Universal Coupler, and 1 double Lightning Arrester. Complete instructions with each Kit.
3E8521—List, \$12.50. \$7.35
YOUR PRICE

Short-Wave Kit

Combines high noise-reduction and pick-up efficiency on waves shorter than 200 meters. The Lynch Short-Wave Doublet Antenna Kit comprises the following parts: 15 Lynch Transposition Blocks; 8 Lynch Commercial Type Insulators; 1 Lynch Doublet Coupler; 200 feet Special Lightweight "HI-MHO" wire.
3E8522—List, \$6.00. \$3.53
YOUR PRICE

"No-Stat" Broadcast Kit

For noiseless operation and maximum signal strength on broadcast receivers. Consists of: Antenna Transformer, Receiver Matching Transformer, 50' Shielded Lead-in Cable.
3E8520—List, \$6.00. \$3.53
YOUR PRICE
3E8519—Same as above except with 100' shielded Transmission Cable. List Price, \$7.00. \$4.12
YOUR PRICE

Giant Killer All-Wave Kit

For any All-Wave, Short-Wave or Broadcast Receiver. Closely approaches the performance of the more expensive kits and is far superior to any ordinary aerial. Consists of: 50 "HI-MHO" High Frequency Antenna Wire; 35' twisted pair low impedance transmission line cable, 3 Antenna Insulators, 1-5" Porcelain Tube, 1 Porcelain Screw Eyes, 2 Nail Knobs.
3E8523—List, \$3.50. \$2.06
YOUR PRICE

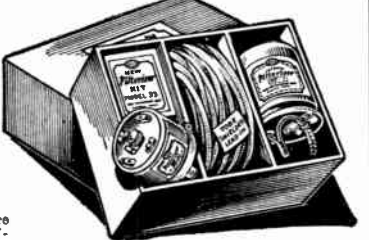
All-Wave Kit

For use on all wave bands. Satisfactory tests have been made with Scott, General Electric, RCA, Stewart Warner and other high-grade all-wave receivers. Complete kit consists of: 15 Transposition Blocks; 8 Commercial Type Insulators; 1 Universal Coupler; 100 ft. "HI-MHO" (Special high conductivity) Antenna Wire; 50 ft. "HI-MHO" Enameled Transmission-Line Wire.
3E8516—List, \$6.50. \$3.81
YOUR PRICE

New Tobe Model 33 Filterizer Kit

A Shielded Antenna Lead-in Noise Suppressor System

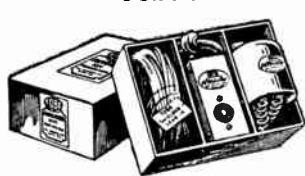
3D8500—List Price \$5.45
YOUR PRICE \$3.21



Outfit includes one antenna filterizer transformer, mounted in weatherproof aluminum housing; 75 feet shielded lead-in wire; one Receiver Filterizer adjusted for matching lead-in impedance to the input circuits of impedance (ferret) Radio Receivers. This new improved model is designed in accordance with proven principles. No matter what kind of outside noise is interfering with radio reception, the Filterizer Kit will provide effective relief. Installation instructions included.

Installation instructions included.

Tobe Model 32 Filterizer Kit

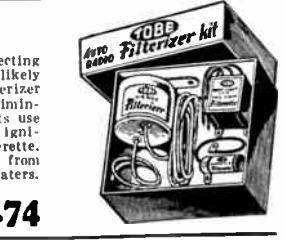


For use with receivers operated on electric supply lines over which interference is brought in. Includes a complete Model 32 outfit as described above and in addition a Tobe line Filterette type RF-2. This item is a carefully designed combination of inductance and capacity providing effective radio frequency isolation of the receiver from the power line. Line Filterette RF-2 must not be confused with cheaper ferrite chokes which are so necessary for effective line filtering. This system properly suppressing all interference—both antenna and that ordinarily brought in over power line.

Combines Antenna Lead-In And Supply Line Noise Suppression
3D8501—List Price \$9.95. \$5.85
YOUR PRICE

Tobe Model 36 Auto Filterizer Kit

Keeps noise out of the auto radio by protecting the parts through which noise is most likely to enter. Consists of: (1) Aerial Filterizer with 10 ft. of Filtered Lead-in which eliminates motor noise from lead-in and permits use of aerial at rear of car beyond range of ignition interference. (2) Dome Light Filterette. (3) Ammeter Filterette to stop noises from low tension wires and electric car heaters. (4) Instruction Booklet.
3E8499—List Price, \$2.95. \$1.74
YOUR PRICE



Noise Reducing Antenna Products

Transposition Blocks

For bringing down a transposed lead-in. Extremely durable. Made of a special moisture-proof glazed porcelain material. The greatest possible signal strength can be secured with these blocks.
3E8550—YOUR PRICE EA. 5c
10 for 45c

Universal Coupler

Complete with electrostatic shield. Permits the use of an un-grounded transmission line with any type of receiver without sacrificing the stability which grounding the chassis sometimes provides. Especially useful with all-wave receivers.
3E8554—YOUR PRICE, EACH 74c

Cage Aerial Spreaders

For use wherever a cage type of aerial is to be employed. Constructed of special moisture-proof glazed porcelain material. Electrical losses are reduced to a minimum.
3E8551—YOUR PRICE, EACH 10c
10 for 90c

Double Lightning Arrester

For use on all two wire transmission lines. Provides suitable protection for any receiver. If connected between the antenna and ground binding posts.
3E8555—YOUR PRICE, EACH 68c

Antenna Spreaders

Reduces electrical loss of leakage across the antenna insulators. 1/2" wide.
3E8576—3 1/2" long unglazed
3E8577—6" long unglazed 10c
YOUR PRICE EACH 10 for 90c
3E8578—3 1/2" long glazed
3E8579—6" long glazed 15c
YOUR PRICE EACH 10 for \$1.45

Airplane Insulator

3E8575—1 1/2" long, 3/8" diameter, 3/4" holes. Glazed overall. 4c
EACH 10 for 36c

Antenna Spring Tightener

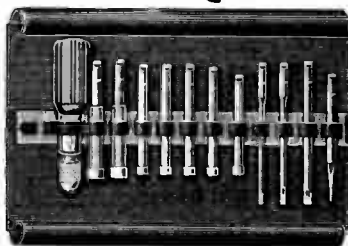
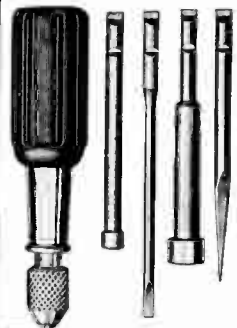
Takes up slack in Aerial.
3E2376—Spring only. 7c
EACH

"Hi-Mho" Antenna Wire

Excellent for All-Wave Sets. High conductivity or low resistance at all radio frequencies. Half the weight of solid copper but with the same A.C. resistance. The shorter the wave length the more effective "HI-MHO" becomes.
3E8556—Light Weight 100 Ft. List \$1.00. 59c
NET
3E8557—Heavy Weight 50 Ft. List, 75c. 46c
NET
3E8558—Heavy Weight 100 Ft. List, \$1.50. 89c
NET

See Page 142 for RCA World Wide Antenna System.

Serviceman's Spintite Kit



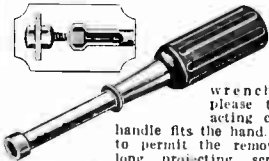
Socket Wrenches Reamer and Screw Drivers
3C4681 \$3.50
YOUR PRICE

An extra fine quality compact outfit that provides a complete set of socket wrenches and screw drivers, also a useful reamer. This outfit meets

the need of any radio repairer who carries in the tool chest or analyzer. Outfit includes universal handle with chuck, 3 screwdriver bits, 1 reamawl, 7 spintite hexagon wrenches, sizes $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " inch. All mounted in durable tool roll. A very useful and necessary item of the Serviceman's equipment.

Genuine Spintite

Hollow Stem Socket Wrenches For Small Hexagon Nuts



Extra fine quality wrenches. Built to please the most exacting craftsman. Wood handle fits the hollow stem in hollow to permit the removal of nuts on long projecting screws. Hardened tool steel. Suitable for continuous factory production work. Size given is width of hexagon nut in inches. Sold singly or as a set.

Stock Number	Size	Price Each	3C4691 Complete set Seven Wrenches Your Price
3C4682	$\frac{1}{8}$ "	30c	\$2.30
3C4683	$\frac{3}{16}$ "	30c	
3C4684	$\frac{1}{4}$ "	30c	
3C4685	$\frac{5}{16}$ "	40c	
3C4686	$\frac{3}{8}$ "	40c	
3C4687	$\frac{1}{2}$ "	45c	
3C4688	$\frac{5}{8}$ "	45c	

Special Socket Wrench Set



3C4652—Handle and five sockets. YOUR PRICE 59¢

A specially selected set of five detachable sockets, together with a special tight-grip handle in which is set a sturdy steel shaft firmly held with long strong ferrule. Fine quality steel sockets with very thin but strong walls. Sizes: $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ " and $\frac{5}{16}$ " inch for hexagonal nuts. Hollow stems take screws projecting not over $\frac{3}{8}$ " inch. **This is a special quality Set, worth more than the small difference in price between it and inferior quality, similar Sets offered by others to create a low price impression.**

Super Grip Screw Drivers Insulated Handles—Insulated Blades



The finest made and at bargain price! Tight grip, moulded, polished black hard rubber handles. Offer perfect insulation. Radio sizes have slender hardened steel blades, diameter $\frac{3}{16}$ " inch. Reach the difficult spots. Blades can never get loose or turn in handle. Very strong and rugged. Every serviceman and machinist should have a complete set. Blade $\frac{3}{16}$ " diameter.

Stock Number	Blade Length	Price Each	3C4731—Set of 6 One of each size. YOUR PRICE
3C4725	$3\frac{1}{2}$ "	15c	\$1.23
3C4726	4"	17c	
3C4727	$5\frac{1}{2}$ "	20c	
3C4728	6"	24c	
3C4729	$8\frac{1}{2}$ "	28c	
3C4730	10 $\frac{1}{2}$ "	32c	



4 in 1 Screw Driver 39¢

Four screw drivers. The three smaller ones nest inside large one when not in use. All have handles of large diameter to give secure grip and plenty leverage. Largest driver 6 $\frac{1}{2}$ " long, $\frac{5}{8}$ " diameter handle, 2" hardened steel blade, $\frac{3}{16}$ " diameter. Smallest driver has $\frac{3}{16}$ " diameter blade. Take care of all radio screws from chassis anchors to smallest set screws. Nickel plated quality steel.

Hollow Stem Hex-Nut Wrenches

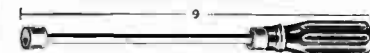
High quality tools. Have deep hollow in socket to take any ordinary projection of screw above nut. Fine tool steel shanks. Sockets of specially hardened tool steel. Shank and socket cadmium plated. Finely finished grooved wood handles, provide sure grip. Shanks securely set in handles to prevent turning. Every Radio Serviceman needs a complete set of all three styles. Our quotations represent big values.



With Straight Shanks, 6" Overall YOUR PRICE EACH

Stock Num.	For Hex. Nuts	YOUR PRICE EACH
3C4711	$\frac{1}{8}$ " In.	12¢
3C4715	$\frac{3}{16}$ " In.	
3C4716	$\frac{1}{4}$ " In.	
3C4717	$\frac{5}{16}$ " In.	
3C4718	$\frac{3}{8}$ " In.	
3C4712	$\frac{1}{2}$ " In.	

3C4719—Set of 6 Wrenches Complete 69¢



With Straight Shanks, 9" Overall YOUR PRICE EACH

Stock Num.	For Hex. Nuts	YOUR PRICE EACH
3C4713	$\frac{1}{8}$ " In.	19¢
3C4720	$\frac{3}{16}$ " In.	
3C4721	$\frac{1}{4}$ " In.	
3C4722	$\frac{5}{16}$ " In.	
3C4723	$\frac{3}{8}$ " In.	
3C4714	$\frac{1}{2}$ " In.	

3C4724—Set of 6 Wrenches Complete \$1.05



With 90° Offset Shanks, 7" Overall
 Easily and quickly handle nuts in positions not accessible with straight shank wrenches. Easy for 90° bend in shank construction is exactly same as above.

Stock Num.	For Hex. Nuts	YOUR PRICE EACH
3C4732	$\frac{1}{8}$ " In.	19¢
3C4733	$\frac{3}{16}$ " In.	
3C4734	$\frac{1}{4}$ " In.	
3C4735	$\frac{5}{16}$ " In.	
3C4736	$\frac{3}{8}$ " In.	
3C4737	$\frac{1}{2}$ " In.	

3C4738—Complete Set of six wrenches YOUR PRICE \$1.05



Hollow Handle Radio Wrench Set 45¢
3C4700—YOUR PRICE
 The handiest tool in the serviceman's kit. Hollow handle holds screwdriver socket and 5 wrench sockets: size $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ " and $\frac{1}{2}$ " all of which are included in set. Ideal for radio and general repair use. Handle and shank are $\frac{7}{16}$ " inches long. Handle is knurled, providing good gripping surface. Finished in white nickel.

Burgess Flashlight Screw Driver



Puts the Light Directly on the Screw
 A combination flashlight and screw driver. Handle screws in dark places quickly and efficiently. Enables use of both hands. Large secure grip safely insulated handle. Fine tool steel blade handles all radio screws. Switch turns light off and on. Bulb included. **Very Special Value!**
3D4747—Screw Driver, Less Batteries. 59¢
YOUR PRICE

3D39—No 1. Uni-Cell Batteries (2 Required) Two for... 12c

SERVICEMAN'S Vest Pocket Screw Driver



Always ready! Clips into vest pocket like fountain pen. Same diameter as pen but only $3\frac{1}{2}$ " long closed— $5\frac{1}{2}$ " long opened. Blade $1\frac{3}{8}$ " long, $\frac{1}{4}$ " shaft of strong tempered steel. Blade positively will not turn loose. This tool, though very small, meets almost every possible radio requirement. Shockproof—5,000 volt insulation. Most convenient. Cannot cut hole in pocket. Adjustable clip.
3D4748—YOUR PRICE, Each 19¢

Radio Set Screw Drivers



3C4739—29¢
 Set of three.
 Real quality tools to handle tiny screws in recesses. Tight grip, moulded polished black hard rubber handles offer perfect insulation. $\frac{1}{16}$ " inch diameter hardened steel blades, small enough to slip through enough for any radio set screw. Blade lengths $1\frac{1}{2}$ ", $2\frac{1}{4}$ " and $3\frac{1}{4}$ " inches. Blades will never loosen or turn in handles.

DeLuxe Super-Grip Radio Screw Driver Set



Super quality, classy appearance. 15,000 volt test, unbreakable lustrous transparent non-flammable handles. Moulded to blade; will never loosen. Blades of fine hardened tool steel. Will handle tightest screws without bending or chipping. Blades are rust-proofed and highly polished. Vest pocket clip prevents losing. An extra-quality American made tool for the Professional Radio Serviceman. Blades $\frac{1}{16}$ " diameter; $1\frac{1}{2}$ ", $2\frac{1}{4}$ " and $3\frac{1}{4}$ " long. Handles perfectly all types of machine screws, dial screws, small wood screws, etc.
3C4744—Per Set of Three. YOUR PRICE 65¢

Maple Handle Screw Drivers



3E4749—Set of 4 Your Price 59¢
 Substantially made to stand the gaff yet low in price. Handles are of white hardwood in natural varnish finish, fluted for sure grip. Blades of hardened and polished tool steel. Will not turn in handles. Extra heavy steel ferrules. Four Drivers with 6, 5, 4, and 3 inch blades. A set of these drivers will handle practically every machine and wood screw, except very smallest ones, used in Radio Service Work.

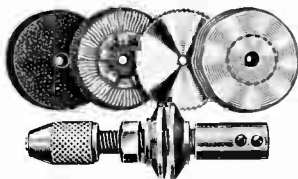


Hold-E-Zee Screw Drivers
Holds Any Size Screw
 Quickly places any type screw in spots not accessible with ordinary screw driver. Screw gripper holds screw firmly while screw is being placed and instantly releases it when desired. Gripper slips along blade to upper end when not in use. Strong insulated unbreakable handle. Hexagonal tool steel blade $\frac{3}{16}$ " diameter.
3E4741—3" Blade, Each 25¢
3E4742—4" Blade, Each 33c
3E4743—10" Blade, Each 39c

Screw Holding Screw Drivers

Four finger-like prongs hold nuts, screws, lock washers, etc. in vise-like grip. Works in places impossible to reach with fingers or ordinary tools. Nickel plated tempered steel blade. Moulded bakelite handle. This is one of the most satisfactory tools of this type that we have seen.
3C4635—8 inch, Each 75¢
3C4636—10 inch, Each 95c

Utility Set



3C4701—Complete Outfit.
YOUR PRICE PER SET..... **\$1.95**

Includes a motor arbor to fit 1/2 inch shaft, held by double set screws; chuck for drills up to 3/4 inch; 4 inch wire scratch brush; 1/2x4 inch emery wheel; 4 inch steel saw and two 4 inch cotton buff wheels. A handy set for the shop and well worth the price. Overall length 5 3/4".

Polishing Head



3C4702
YOUR PRICE... **85¢**

Holds emery wheel up to 1" thick and buff wheel. Has chuck for drills up to 3/4". Pulley 1 1/2" diam. for 1/2" round belt. Overall height 7". Shaft length 8". Long bearings with oil cups. Sturdy cast iron base, well finished in red enamel. Two screw holes for fastening.

3C4709
YOUR PRICE... **73¢**

Saw Table and Guide



Accurately made and clamps onto our number 3C4702 polishing head. Size 8x8 inches. Makes a complete cut-off saw. Fine for sawing bakelite or wood panels. Neatly finished. Will make your polishing head of much more value to you. Adjustable guide with steel bar marked off as 6 inch rule included.

Ball Pein Hammers



These fine hammers are turned out of a solid bar of tempered steel. Hardwood handles of correct proportions to give the hammer perfect balance. The right sizes for light repair jobs on radio sets, electrical appliances, etc.

3C4703—1 oz. Hammer. YOUR PRICE..... **15¢**
3C4704—10 oz. Hammer. Your Price..... **25¢**
3C4705—16 oz. Hammer. Your Price..... **32¢**

Tin Snips



3C4589
YOUR PRICE... **48¢**

The best size for the radio serviceman. 7 inches overall length. Rounded and polished cutting blade 2 inches long. Very strong. Drop forged steel. Nicely finished.

Radio Wrench Set



3C4653
YOUR PRICE..... **15¢**

Set of three wrenches in leather case. For all hex nuts measuring 1/4, 5/16, 3/8, 1/2 and 5/8 inch with alligator jaw for odd sizes. Very handy. Every serviceman and set builder needs them. Shpg. wt., 6 oz.

Spring Steel 72 Inch Rule



American Made In Bakelite Case

A new semi-flexible steel rule, which may be bent, twisted or folded in practically any manner and will always spring back to its natural form. The spring tape is soft tempered and curved with the width of the rule so that it holds its nearly rigid shape for all ordinary measuring purposes and may be bent or curved at will without damage to the rule. Rolls up in a compact bakelite case 2" diameter. 1" thick.
3D4535—YOUR PRICE..... **74¢**

Diagonal Jaw Nippers

3C4565
Your Price..... **49¢**



For fine electrical and radio work. Made of hardened tool steel. Cuts wire clean in tight places. A high grade tool, fine polished finish. Well worth the price but not the equal of Klein's for professional work. Size 5 1/2 inches.

Long Nose Pliers

3C4566
Your Price..... **49¢**



The handiest pliers for radio work. A fine quality tool made of fine hardened tool steel, finely finished. Wonderful value, but not nearly equal to Klein's for professional work.

End Cutting Nippers

3C4659
6 1/2 in. **56¢**



Cuts wire and small screws in tight places. Drop forged steel. Hardened jaws. Guaranteed. Will stand lots of rough handling.

Genuine Mathias Klein Pliers

The World's Standard of Quality

Klein pliers are made of the best fine tool steel, guaranteed the highest quality on the market. Do not confuse these instruments with low-priced pliers. Considering the quality and long life of Klein products, the values offered here are exceptionally good. Customers judge a serviceman by the quality of his instruments as well as by his work.

Klein's Narrow Nose Oblique Plier

Kleins Cat. No. 202



Cuts close, the narrow head permitting use in confined places. Knives perfectly fitted so that they meet accurately at all points.

3C4750 5 inch. Each..... **\$1.76**
3C4751 6 inch. Each..... **\$1.96**

Klein's End-Cutting Plier

Kleins Cat. No. 232



Has stout jaws and broad, cutting knives. Useful on enclosed work which cannot be reached with other type pliers.
3C4752 5 1/2 inch. Each..... **\$2.94**

Klein's Long Nose

Side Cutting Plier



Fine cutting assured. Knives carefully fitted. Body of the plier is hardened and tempered. Point 3/4 inch round.
3C4754 5 inch. Each..... **\$1.87**
3C4755 6 inch. Each..... **\$2.06**

Klein's Side-Cutting Plier

Kleins Cat. No. 201



For use on bare or insulated wire. Handles fit hand. Powerful leverage and keen reinforced cutting knives. Adaptable for heavy cutting. Clearance for wire insulation back of knives.
3E4758 6 inch. **\$2.20**
YOUR PRICE.....

Reamer

3C4601
YOUR PRICE..... **17¢**

For enlarging drilled holes to proper size. Perfect for bakelite, hard rubber, wood, etc. Shpg. wt., 4 oz.

Counter Sinks

EACH..... **19¢** DOZEN..... **\$2.08**

Round shanks to fit hand or power drills. Made of tool steel carefully hardened.
3C4567. 1/2" cutter.

Insulated Side Cutting Pliers

3D4665
YOUR PRICE..... **59¢**



Made of fine quality tool steel with hardened jaws. Knurled opening permits firm grasp on screws, condenser and volume control shafts, etc. A very handy and useful tool for radio servicing and light electrical work. "5,000 volt" insulation on handles. Length 6 1/4 inches. Jaws 6 inch wide.

Utica Flat Nose Stub Pliers

3D4666
YOUR PRICE..... **69¢**



Flat nose pliers with short stub sure gripping jaws. Particularly handy when working in tight places. Made of fine tool steel hardened and tempered. Well finished and polished. Size 5 1/2".

Special Thin Nose Pliers

3D4667
YOUR PRICE..... **34¢**



Handy radio pliers with long thin jaws for reaching into narrow places. Stub nose will hold nuts firmly. Knurled jaws 1 1/2" long, tapered from 1/2" to 1/4". Overall length 6 1/2". Drop forged steel. Brightly chromium plated.

Close Cut Hack Saw



Cuts steel, bakelite, wood, etc. quickly and cleanly. Strong tight grip frame. 9 inch long saw blade. Gets into hard corners. Reaches many places ordinary hacksaw cannot touch. Blade very durable; almost unbreakable. Blade easily replaced. Very fine teeth, 19 per in. **59¢**

3C4654—Frame with one blade.....
3C4655—Extra blades. Six for..... **69¢**

Pistol Grip Hack Saw



3C4740—List, \$100.
YOUR PRICE..... **49¢**

American made. Finest quality. A real bargain at our price. Not to be compared with the poor quality, imported saws selling at slightly lower price. Strong, adjustable to take 8, 10 or 12 inch blades. Moulded rubber handle. One 10" blade included.

Hack Saw Blades



3C4556—8-in. Dozen. Your Price..... **45¢**
3C4557—10-in. Dozen. Your Price..... **59¢**
3C4558—12-in. Dozen. Your Price..... **72¢**

Radio-Letric Counter Sink

3C4657
Each **17¢**



For shaping holes in hard rubber, bakelite, fibre, wood, etc., to depress heads of flat head screws. Every serviceman needs this tool. Firm grip, grooved wood handle. Hardened steel blade, firmly set.

Magic Electric Pencil

Engraves and Embosses

An electrically heated scriber about the size of a fountain pen. Writes electrically, like embossing. In beautiful colors—copper, gold, silver, green, blue, purple, on any material—silk, paper, metal, cloth, leather, wood, frosted glassware, celluloid, bakelite, etc. Reproductions can be made of drawings, designs, special lettering, nameplates, monograms, initials, emblems, etc. Very useful to Radio Servicemen for marking test panels, Radio Sets, tools, books, advertising materials, tube bases, etc. Enough embossing power supplied to emboss hundreds of words. A wonderful tool. Will make a profit for you of many months. Works on 100-120 volt A.C. or D.C. Heats quickly. Maintains even temperature. 8 feet cord, with attaching plug included.
3D4536—List Price \$2.00.
YOUR PRICE..... **79¢**



Radio Serviceman's Tap and Die Set



Prices Greatly Reduced

3E4640—YOUR PRICE \$3.45

Contains 5 taps and 5 dies for machine screws size 1-36, 6-32, 8-32, 10-24, and 12-24. Taps make female threads in holes drilled in metal. Dies cut male threads on rods or wire to make screws. One Die Stock (holder) and one Tap Stock with screw driver included. Complete outfit is put up in wooden case recessed to take all parts of set. Very convenient for shop or portable use. Covers all screws regularly used in Radio and electrical construction.

Signal Portable Electric Drill

Chuck for Steel Drill Up to 1/4"

3E4647—YOUR PRICE \$14.95

A quality tool in every respect. Will meet every need of Radio Serviceman and Electrician. Powerful motor. Cast aluminum body and handle. 3-jaw chuck, capacity up to 1/4". Heat-treated alloy gears enclosed in greasight chamber. Trouble-free switch. 3 foot heavy duty rubber covered cord with rubber plug. Weight only 6 pounds. For 100-120 volt. A.C. or D.C.

Steel Twist Drills with 1/4" Shank

5/16 to 1/2 Inch

Fine quality carbon steel twist drills with turned down shank to fit 1/4" chuck. These sizes are a necessity for most auto radio installations. Very handy for drilling mounting holes in cabinets.

3D4620—3/8 Inch 3D4623—5/8 Inch
3D4621—1/2 Inch 3D4624—3/4 Inch
3D4622—5/16 Inch

YOUR PRICE EACH 85¢
3D4625—Complete Set of 5 Drills \$3.95

HIGHEST QUALITY Alloy Steel Twist Drills

American Made



Made of alloy steel consisting in part of tungsten which makes these drills far superior to ordinary carbon drills. Straight shanks. Particularly intended for electric drills. Perfectly pointed, precision ground. Extra strong web prevents splitting of drill. Correctly tempered to insure long life. Quality considered, our prices represent extra-ordinary values.

3E4562—Seven drills in Hardwood Box. Sizes 3/16, 1/8, 5/32, 3/32, 1/4 and 5/16 inch. YOUR PRICE 81¢

3E4563—Eight drills in Hardwood Box. Sizes 1/8, 5/32, 3/32, 1/4, 5/16, 3/8 and 1/2 inch. YOUR PRICE \$2.73

3E4564—Eleven drills in Fibre Roll. Sizes 3/32, 1/8, 5/32, 3/32, 1/4, 5/16, 3/8, 1/2 and 5/8 inch. YOUR PRICE \$1.27



Tap Wrench with Drills and Taps

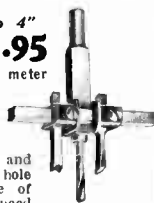
3E4560—Per Set \$1.15

Three taps and three drills, one each for 3/32, 1/8 and 1/4 inch screws. Wrench to hold taps and drills. This is the most practical set for Radio Servicemen. Enables you to drill and tap screw holes in any material. Drills can be used in ordinary hand drill if desired.

Circle Cutters

Adjustable from 1" to 4"
3E4673—YOUR PRICE \$1.95

For cutting socket holes, holes, etc., in wood, bakelite, hard rubber, linoleum, brass, tin, sheet metal, etc. Does first class job and makes clean cut. Drills pilot hole, cuts out material and puts bead or scroll around hole all in one operation. Made of best materials. Best high speed steel cutting bits for use in breast drill, hand brace or drill press.



3E4674—Same as above but without beading Cutter. YOUR PRICE \$1.15

Heavy Duty

For cutting the heaviest of materials. Will cut 3/8" cold rolled steel, 1/2" aluminum. Dashboards of cars, etc.

3E4670—Square Shank. YOUR PRICE \$1.95

3E4671—Round Shank. YOUR PRICE \$1.95

3E4672—Extra cutter for either of above. YOUR PRICE 25¢

Adjustable Panel Boring Tool

Cuts circular holes in bakelite, aluminum, or hard rubber panels for meters, tube sockets, bezels, etc. Adjustable from 3/8" in. to 3 in. diam. Fits any carpenter's brace. Shpg. wt. 8 oz.

3E4675—YOUR PRICE 44¢

Automatic Feed Bench Drills

Needed in every Radio Shop. Takes all round shank drills up to 1/2". Has adjustable, automatic feed which lowers drill at rate determined by cutting speed. Machine cut gear pinions. Ball bearing. Finished in enamel. Steel parts highly polished. Overall height, 10 inches. Shpg. wt. 8 lbs.

3E4550—\$1.85

Same as above, except larger. Overall height, 13 1/4". Chuck fits round shank drills up to 3/4". Shpg. wt., 11 lbs.

3E4551—\$3.65

GOODELL-PRATT Drill

3E4600—Code. 7740. YOUR PRICE \$1.98

Two speed. Steel shank. Positive gear shift. Ball thrust bearing. All-steel chuck has three hardened jaws for holding straight shank drills 0 to 1/2 inch in diameter. Crank and side handle of mahogany finished hard wood. Length 10 1/2 inches.

G. P. Hand Drills

All-steel chuck has three hardened jaws for holding straight shank drills 0 to 1/2 inch in diameter. Gear teeth are machine cut. Black enameled malleable iron frame. Length 11 1/2".

3E4602—Code 655. YOUR PRICE \$1.20

3E4603—Code 41/2. Similar to above. Has hollow handle which contains eight drill points. 3/8 to 1/2 in. List, \$2.70. YOUR PRICE \$1.96 complete with drills

Hand Drill Set

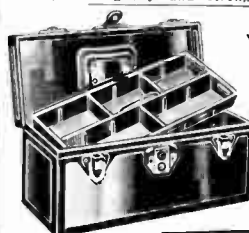
3D4619—YOUR PRICE 59¢

A substantial drill with set of 8 drills from 3/32" to 1/2". An amazing Value! Drills wood, bakelite, hard rubber, steel, etc.

Will give excellent service. Ideal to use as an auxiliary or pilot drill. Every serviceman should own two drills to save the time and annoyance of constantly locking and unlocking clutch when alternating from pilot to boring drill.

Radio Servicemen's Tool Boxes

All are of heavy gauge cold rolled steel, baked-on enamel green finish. Brass plated catches and lock with one key. Panelled sides, ends, top and bottom for rigidity and strength.



4E10901—YOUR PRICE 87¢

Handy size for Servicemen. Very strong and light. 11" long, 8 1/2" deep, 3 1/2" wide. Removable loose tray with adjustable partitions.

Cantilever Tray Tool Box

Tray Raises as Lid is Opened

4E10902—Size 6x6 1/2x14". YOUR PRICE 93¢



4E10903—Size 6x6 1/2x18". YOUR PRICE \$1.28

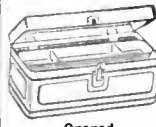
Tray is so fastened that as cover is raised tray is automatically lifted, permitting easy access to bottom compartment. Box has gold rule of full size scale on cover.

Radio Serviceman's Parts Box



4E10904—YOUR PRICE ... 59¢

Closed



Opened

Green enamel finish. Brass hardware. Strong and durable. Keeps your delicate parts together and insures them against breakage. Handy size. Length 12 3/4", depth 5 1/2", width 6 1/2". Lock and key included. Rounded corners. Movable tray.

Servicemen's Vises

Portable Model

3E4580—YOUR PRICE 49¢

Sturdily built, accurately fitted. Machine cut steel screw. Polished jaws 1 1/8" wide. Iced jany body. Convenient to carry in tool box. Shpg. wt., 2 lbs.



Swivel Bench Model

3E4581—YOUR PRICE ... \$1.35

Positive locking swivel base; holds fast at any angle. Double plunger rod guides. Machine cut steel screw, guides and handle. Knurled polished steel jaws. 2 1/4" wide. Screws to bench. Polished steel and japan finish. Shpg. wt., 5 pounds.



Journeyman's Swivel Bench Model

3E4575—YOUR PRICE \$2.48

Replaceable hardened steel jaw faces. Cold rolled steel bar, screw and handle. Pine jaws hold pipe 1/4 to 1 1/4". Jaws open 3 1/4" width 3". Swivel base with improved lock, holds fast at any angle. Rugged anvil. The finest vise on the market for Radio and electrical work.



SOLDER-MASTER


Electric Soldering Irons

Solder Quicker, Better, at less cost.

For 105-120 volt A.C. or D.C.


Give quick heat and long satisfactory service. Quality and life are guaranteed. Any element that proves defective when properly used will be made good. Underwriters approved asbestos cords. Neat durable element holders. Cool, generous size handles. Renewable tips and heating elements.

55 Watts




3E4485— For light Radio Repairing and Home use. Length overall 11 3/4".
YOUR PRICE 97¢

100 Watts



3E4486— For general Radio and Electric work. Length overall 12 3/4".
YOUR PRICE \$1.78

150 Watts



3E4487— For heavier Radio Electric and Garage work. Length overall 13 3/4".
YOUR PRICE \$2.69

Extra Tips for Solder-Master Irons

Stock Num.	For Iron Size	Your Price Each
3E4488	55 Watts	15¢
3E4485	100 Watts	22¢
3E4490	150 Watts	45¢

Elements for Solder-Master Irons

Stock Num.	For Iron Size	Your Price Each
3E4491	55 Watts	\$0.35
3E4492	100 Watts	.98
3E4493	150 Watts	1.50

SPECIAL QUALITY

Electric Soldering Iron

Popular Serviceman's Size



75 Watt

3E4773—List, \$3.50.
YOUR PRICE, Only \$2.05

100 Watt

3E4782—List, \$4.50.
YOUR PRICE, Only \$2.58

A large Radio manufacturing company formerly experienced much trouble with their electric soldering irons. So they put their highly trained Engineering Department on the job of building a long lasting trouble free solder iron. Here it is! One of the finest ever made! And what a value! Bound to give long satisfactory service. (Absolute Guarantee on Heating Element for a Full Year of Use!)


Heats quickly, holds heat a long time. 3/4" solid copper alloy tip. Fine quality 6 foot heater cord. Unbreakable rubber attaching plug. Polished nickel barrel. Black rubberoid handle. First quality in every point! For 105-120 volt current A.C. or D.C.

Extra Tips for Above Irons

3E4783—For 75 Watt Iron. EACH 24¢

3E4784—For 100 Watt Iron. EACH 29¢

"ESICO" Constant Duty Soldering Irons



Used in the United States Navy and practically all the large radio and electrical factories throughout the country. Beautiful craftsman's tools. Perfect fitting hard drawn tinned copper tips. Replaceable. One year guarantee. Grade A nickel chrome resistance wire wound on lava insulators encased in blue steel one-piece case. Long life, quick heat. Maintains a constant even temperature. 6 foot heavy duty cord with anti-kink rubber cable shield. Handle never gets hot. For use on 105-125 volt current.

Stock Num.	Watts	Tip Diam.	Length Overall	List Price	Your Price
3C4785	65	3/8"	10 1/2"	\$5.00	\$3.37
3C4786	100	3/8"	12 3/4"	5.50	3.85
3C4787	200	3/8"	14 1/2"	8.75	5.91
3C4788	350	3/8"	14 1/2"	10.25	6.95

Leader Electric Soldering Iron



3E4775—Single Tip.
YOUR PRICE, Each 76¢

Ten for \$6.90

3E4774—Two Tip.
YOUR PRICE, Each 99¢

Ten for \$9.20

Well made. Very durable. 50 watt size. Guaranteed for 1000 hours; will last longer with proper use. Two solid copper tips—one for very fine work, the other 3/8" diameter for larger work. 5 1/2 foot heater cord with spring protection at handle.

ESICO "Midget" and "Junior"




One piece blued steel cases. Rich dark mahogany handles. Replaceable forged copper 3/8" tips. Grade "A" nickel chrome elements wound on highest quality mica insulation.

3C4789—"Midget" 65 Watts.
Length 11 3/4".
YOUR PRICE \$1.29

3C4790—"Junior" 85 Watts.
Length 12 3/4".
YOUR PRICE \$1.89

"Blue-Comet—Balanced" Electric Soldering Irons



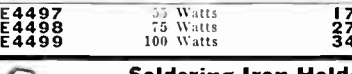
When not in use the hot tip is automatically suspended at sufficient distance from bench or table to make burning impossible. Heating element wound on mica insulated steel core, fitted into rust proofed steel tube. Underwriters approved cord 6' long, spring protected. Air insulated handle. Finest quality. Guaranteed service.

Stock Num.	Watts	List Price	Your Price
3E4494	55	\$3.00	\$2.06
3E4495	75	4.00	2.74
3E4496	100	4.75	3.22

Extra Tips for "Blue-Comet—Balanced" Electric Soldering Irons

Stock Num.	For Iron	Your Price
3E4497	55 Watts	17¢
3E4498	75 Watts	27¢
3E4499	100 Watts	34¢

Soldering Iron Holder and Stand



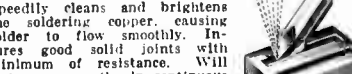
3E4778—
YOUR PRICE, Each 59¢

A practical stand on which to rest your hot iron while on a service call. A protection for you and your customer and when the job is finished, no need to hang around waiting for iron to cool. Just stick hot iron into the holder, drop the outfit in your carrying case and go on your way. Saves time and time means money. Efficiently insulated. Takes all Servicemen's size irons. 6 1/2" long.

Speedily cleans and brightens the soldering copper, causing solder to flow smoothly. Insures good solder joints with minimum of resistance. Will last many months in continuous service. Most convenient to use.

3E4779—
Per 1/2 lb. Cake **29¢**

Sal-Ammoniac Cake For Cleaning Solder Iron Tips



Speedily cleans and brightens the soldering copper, causing solder to flow smoothly. Insures good solder joints with minimum of resistance. Will last many months in continuous service. Most convenient to use.

3E4779—
Per 1/2 lb. Cake **29¢**

Socket Wrench Set and Screw Driver



3E4680—
List Price \$2.50
YOUR PRICE \$1.47

A very complete outfit including all sizes socket wrenches used in Radio Servicing. 4" Extension and 6" long offset handle enable you to reach any part of any chassis. One each 3/8", 1/2", 5/8", 3/4" hex. sockets. Also one internal knurled socket to fit any 12 point Double Hex. nut between sizes 3/8" and 1/2". Knurled wooden handle with hexagonal shaft that serves also as a screwdriver. Metal parts hardened steel cadmium plated. All packed in substantial box.

Radio Blotorches

Combination Alcohol Blotorch 3C4800




List \$5.00. Your Price **\$2.94**

The finest quality torch. Produces a powerful 2200 degree blast with attached burner. One turn of thumb screw releases burner, producing 1700 degree needle point flame. Cleaning pin attached to always cool handle.

ready for instant use. Made of extra heavy gauge brass nickel plated. Will last a lifetime. No adjustment necessary. Size 7x3 1/2 x3 inches. Wind-proof. For indoors or outdoors. Burns 3 1/2 hours on one filling.

Alcohol Blotorch 3C4801—




List, \$3.25. Your Price **\$1.91**

A fast working torch. Starts in 20 seconds. Burns 2 1/2 hours on one filling. Intended for indoor use. Suitable for all types radio and electrical work. Mechanically fool proof. Built to last a lifetime.

Made of heavy gauge brass, nickel plated. Size 7x3 1/2 x2 inches.


Duplex Alcohol Blotorch 3C4802—



List, \$2.00. Your Price **\$1.18**

A heavy duty torch with a Bunsen burner especially adapted for outdoor use and heavy soldering jobs. Bunsen burner can be detached if needle flame is desired. Flame adjustable from 1200 to 2000 degrees. Size 6 1/2 x2 1/2 x1 1/2 inches. When Bunsen burner starts generating, primary tube is used as a handle. Burns 40 minutes on one filling.

Gasoline Blotorch 3C4803



YOUR PRICE 59¢

Uses gasoline. Entirely automatic. Quick priming. Perfect Bunsen flame over 2000 degrees. No pumping, no blowing. Burns two hours on one filling. Generates its own pressure. For jobs requiring a melting, fusing, brazing heat. Very durable. A wonderful value. Size 2 1/4 x7 1/2 inches. Nickel plated brass tank.

Kester Rosin Core Solder



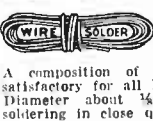
Requires no flux as rosin has been moulded into the core of solder wire. Best for fine radio connections and electrical work. Makes strong, low resistance joint.

3E4765—Per can. (3 to 4 ounces). List, 25¢.
YOUR PRICE 15¢

3E4766—1 lb. Coil.
YOUR PRICE 56¢

3E4767—5lb. Coil.
YOUR PRICE \$2.75

Wire Solder 3E4768—1 lb.



YOUR PRICE 59¢

A composition of tin and lead in proportions satisfactory for all Radio and Electrical soldering. Diameter about 1/8 inch. Very convenient for soldering in close quarters.

Kester Aluminum Solder Flux Filled



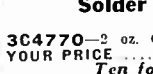
Virgin metals properly alloyed. Hollow wire form with flux sealed within solder. Provides the fastest and most satisfactory method of soldering aluminum in any form. In can is included cleaning materials and instructions.

3E4763—Per can. List Price, 25¢.
YOUR PRICE, Each 17¢

Ten for \$1.50

3E4764—Per Pound Spool.
YOUR PRICE \$1.96

Solder Paste 3C4770—2 oz. Can.

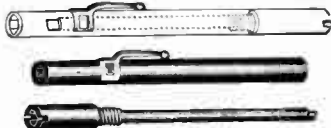


YOUR PRICE 10¢

Ten for 85¢

A non-corrosive soldering flux. Makes a secure mechanical and perfect electrical connection.

Neutralizing and Alignment Tools



Polished Genuine Bakelite

3C4500—YOUR PRICE 49¢
Ten for \$4.40

No Serviceman can afford to be without a set of these new, improved neutralizing and balancing tools. Made fountain-pen size and furnished with a handy pocket clip. Can be worn in the vest pocket, ready for instant use. Ideal for "fining up" variable condenser sections. Made of polished black bakelite with steel driver blade. Finest quality. Not to be compared with cheap fiber tools. Length, 6 inches. Driver fits into the wrench.

Fine Black Fibre

Duplicates the above in appearance but not as durable or as strong as Bakelite. Excellent for light work or for part time Servicemen.

3E4510—YOUR PRICE 33¢

Majestic and Crosley Alignment Attachments



CROSLLEY MAJESTIC 3C4501
Fit neutralizing tool No. 3C4500, listed above.

Bal-Neut for Majestic Sets 3C4501—List, 55¢. YOUR PRICE 27¢

Overall length 2 1/2". Has screw driver and offset socket for 1/2" hex. nuts. Extends tool 1 1/2".

For Crosley Sets

3C4502—List 20¢. YOUR PRICE 11¢
Extends tool 1 1/2". Has socket for 3/8" square nuts.

For Majestic Sets

3C4507—List 20¢. YOUR PRICE 11¢
Extends tool 1 1/2". Has socket for 1/2" hex. nuts.

Five-in-One Neutralizer Compensator and "Tool Kit"



3C4503—YOUR PRICE 74¢

Combines in a fountain pen size compact tool that can be carried in your vest pocket. 1/2" and 3/8" nut wrenches, miniature blade screw driver for neutralizing and a full size insulated handle general purpose screw driver. Made of fine quality extra strength fiber. Fountain pen clip prevents loosening from pocket. When closed, no sharp points are exposed to wear clothing.

Neutralizing and Compensating Screw Driver



3C4504—YOUR PRICE 25¢

Bakelite knob, diameter 1" fastened to 1/4" hard rubber rod projecting 3/8". Hardened screw driver blade.

"Alligator" Neutralizing Wrench and Screw Driver



3C4505—YOUR PRICE 29¢

Alligator wrench with 3/8" opening. Securely fastened to extra strong high insulation rod size 3/8"x4 1/4". Hardened steel screw driver blade.

Neutralizing Tool Set with Metal Nibs



3C4506—YOUR PRICE 72¢

Polished black bakelite handles. Two tools One consists of a 3/8" diam., 6" long tube on each end of which are heavy brass nickel plated socket wrenches for 3/8 and 1/2 inch hex nuts. The other tool fits inside the first tool and consists of a solid rod, one end of which has a strong screw driver blade, the other end is of special magnetite steel. Fits Majestic Model 70 and many others.

Neutralizing and Aligning Tool Kit

Will Balance All Sets



3D4508—List Price \$4.00. YOUR PRICE \$2.35

Every serviceman needs these balancing instruments. This complete outfit provides every tool that you will ever need to neutralize, balance or re-align the variable condenser or IFT sections of any receiver.

Seven pieces, providing 12 distinct tools, ingeniously designed to telescope into each other, forming four separate tools when assembled. Attractive vest pocket carrying case included to conveniently hold all tools. Bodies are extra strong and made of fine quality hard rubber, fiber and bakelite. Polished nickel brass fittings.

Separate Tools Provide

Alligator side wrench. 6" Insulated Screw Driver with metal nib. Metal 3/8" nut wrench. Metal 1/2" nut wrench. 1/4" square nut insulated wrench. 1/2" hex. metal side wrench. 2 1/2" insulated screw driver with metal nib. 1/2" hex. slotted insulated wrench. Metal screw driver. 3/8" hex. Insulated nut wrench. 5" insulated screw driver with metal nib. 6" insulated screw driver.

Detecto-Light

Neon Lamp Shows Live or Grounded Wires



3C2373—List Price, \$1.50. YOUR PRICE 99¢

For continuity and circuit tests in Radio Sets and laboratory apparatus. Also for general electrical circuit testing.

Tests from 110 to 550 volts A.C. or D.C. Approximate voltage easily determined from relative intensity of neon lamp glow, and approximate cycles from frequency of flashes. On A.C. both electrodes glow; on D.C. only one glows which is the negative side. Moulded bakelite case protects neon lamp. Two heavily insulated leads 4" long with metal tips. Also usable as a pilot lamp on high or low amperage circuits. Convenient to carry in tool kit or pocket.

Short-O-Tester

Circuit and Continuity Tested Lamp

3C4520—List \$1.50. YOUR PRICE 88¢

When test prod and tip are placed in contact with different points of a circuit, this tester will indicate whether circuit is open or closed. Fiber handle and test prod are 7 1/2 inches long. Very flexible insulated test cord with spring grip clip, 45 inches long. In top of handle is a miniature bulb and battery. Bulb lights when circuit is completed. By attaching clip to prod outfit can be used as a trouble lamp. Miniature base. Also locates open or shorted condensers, burned out resistors, high voltage low amperage current, variable condenser shorts.

3C4521—Extra Mazda bulb, Each ... 9c
3C4522—Extra Battery, Each 8c

Pen Flashlight

With Dentist Magnifying Mirror



3C50 Your Price, Complete 69¢
Ten for \$5.85

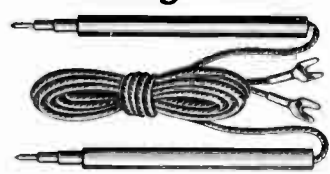
Enables the serviceman to look into inaccessible part of the Radio Set and chassis without removing chassis from cabinet. Will often save its cost on a single job. Throws bright light on hidden part which is reflected clearly in the mirror. Attractive metal case 5 1/2" long, 5/8" diam. Two section battery, 3 1/2" long, 3/8" diam. Bull's eye bulb.

3C52—Extra Battery 10c
3C53—Extra Bull's Eye Bulb 9c

Pen Flashlight Without Mirror

3C51—But with Bulb and Battery 28¢
YOUR PRICE COMPLETE 28¢
Ten for \$2.48

Testing Leads



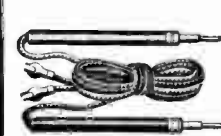
With Heavy-Duty Laboratory Sharp Point Ends

3E4540—Spade Ends. YOUR PRICE, Per Pair 42¢

3E4541—Alligator Spring Clip Ends. YOUR PRICE, Per Pair 55¢

Polished, lustrous high di-electric handles 6 1/2" long (overall), 3/8" diameter. One red, one black for polarity indicating. 60" long flexible cables in colors to match. Points project 1 1/2" beyond handles and will easily pierce heavy insulation as in auto work, etc.

With Phone Tip Prods



3E4526—Spade Ends. 3E4527—Tip Ends. Per Pair 27¢

3E4524—Alligator Spring Clip Ends. Per Pair 37¢

Polished lustrous high di-electric handles, 4" long (overall) 3/8" diameter. One red, one black for polarity indicating. 50" long flexible cables in colors to match.

With Renewable Sharp Point Phono Needle Prods

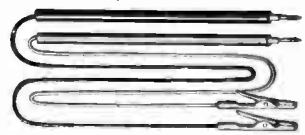


3E4528—Spade Ends. 3E4533—Tip Ends. Per Pair 36¢

3E4523—Alligator Spring Clip Ends. Per Pair 42¢

Polished lustrous high di-electric handles, 4" long (overall) 3/8" diam. One red, one black for polarity indicating. 50" long flexible cables in color to match. Chuck's hold needles which are easily renewable. Needle points enable accurate readings through insulation, and painted or rusty surfaces.

With Slender Pencil Type Sharp Point Prods



3E4542—Spade Ends. 3E4543—Tip Ends. PER PAIR 35¢

3E4544—Alligator Spring Clip Ends. PER PAIR 44¢

Long, thin polished lustrous high di-electric handles 7" long (overall); one red, one black for polarity indicating. 60" long flexible cables in colors to match. Best suited Prods for ohmmeter and exploring service. Reaches otherwise inaccessible points as between voice coils and speaker frame, sub-assemblies, etc.

With Sharp Point Prods and Insulated Spring Ends



3C4531 Your Price, Pair 75¢

Handles 4" long, 3/8" diam. Renewable sharp point needles. One red, one black wire each 42" long. Spring clips with rubber insulating covering.

With Insulated Spring Clip on Both Ends 3C4532 Your Price, Pair 65¢

One red, one black wire each 42" long. Powerful spring clips on each end make connection in a jiffy. Rubber coverings over clips prevent shorts and shocks.

Shockproof Screwdriver Insulated Blade and Handle



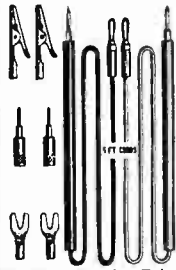
Tempered steel blade 3/8"x6 1/2" long, protected its entire length with 1000 volt hard-rubber insulation. Tight-grip hard rubber handle.

3E4748—YOUR PRICE 39¢

Pencil Type Test Prods

With Interchangeable Tip Ends

New 6 inch test rods only 3/4" diameter. Extra strong, high insulation fibre handles. Spring prong ends provide a quick positive means of changing from one type of tip to another. Included are one pair each: alligator spring clips; tapered spade lugs and the new needle point phone tip for piercing insulation. Prods also fit all standard phone tip jacks. Complete with one black and one red 5 foot flexible wire.



3D4405—List Price, \$1.50.
YOUR PRICE, Per Set. **78¢**

Test Leads With Alligator Clips



Flexible wire test leads. Color coded red and black for positive and negative identification. Alligator Test Clips at each end provide quick positive method of making connections. Alligator clips have extra narrow jaws and very firm grip. Ideal for making contact in cramped, tight positions.

3D4410—12 inch, Pair **32¢**
3D4411—24 inch, Pair **38¢**
3D4412—36 inch, Pair **44¢**

Alligator Test Clips

New type. Long thin jaws. Strong spring will grasp the smallest terminal lug or lead with a tight, sure, positive contact. Barrel end will fit Banana Type Spring Contact Plug-in prongs or can be securely soldered to test cable. Length 2", width 1/4". Polished nickel finish.



3E4407—YOUR PRICE, Each. **4¢**
Per Dozen **35¢**

Rubber Insulators

For Alligator Test Clips
3E4408—**9¢**
EACH

Durable rubber collars to insulate alligator test clips. Only points of jaws are exposed. Permit of quick secure connections but eliminate danger of shock on "hot" circuits.

Long Test-Prod Handle With Sharp Point Phone Tip End

Hollow high di-electric insulated handle. 5/8" long overall. 3/8" diameter. Sharp point phone tip terminal. Will pierce insulation, rust, pitch and paint. Fits standard phone tip jack. Completely solderless, merely unscrew phone tip and insert wire. Brilliant lusterous color coded handles.

3E8875—Red 3E8878—Green **EACH**
3E8876—Black 3E8879—Yellow **15¢**
3E8877—Blue 3E8880—Purple
Ten for **\$1.20**

Short Test-Prod Handle

With Phone Tip End

Hollow high di-electric insulated handle. 1 1/2" long overall. 3/8" diameter. Phone tip end, fits any standard phone tip jack. Completely solderless. Merely unscrew phone tip and insert wire. Brilliant lusterous color coded handles.

3E8881—Red 3E8884—Green **EACH**
3E8882—Black 3E8885—Yellow **6¢**
3E8883—Blue 3E8886—Purple
Ten for **55¢**

Insulated Top Jacks

For Standard Phone Tips

Insulated top A" diameter. Brilliant lusterous code colors. Hold phone tips straight and tight. Fits panels up to 1/2" wide. Fiber shoulder washer and metal lock nut included.

3E8887—Red 3E8890—Green **EACH**
3E8888—Black 3E8891—Yellow **6¢**
3E8889—Blue 3E8892—Purple

Solderless Tip Plug

3E6368—
Your Price, Each. **4¢**

Ten for **35¢**. Per hundred, **\$3.25**
Attached to cord or wire without soldering or use of tools. Positive connection. Fit above jack or any standard tip jack or jack assembly. Made of brass nickel finish.

NOTE: See Page 94 for other Tip Jacks and Plugs.

Test Prod Kit With Interchangeable Plug-in Tips



3E4415—List Price, \$2.00.
YOUR PRICE. **\$1.05**

A complete set of 14 pieces insulated test prods of long, short and medium lengths with interchangeable plug-in type tips.

Provides the serviceman with the most efficient tools available for making quick positive connections from his test equipment to the "job" under inspection. These handy prods will reach into the most confined, tight spots to save you time. The "missing link" between the set and your test instruments.

Furnished with interchangeable tips consisting of a pair of insulated alligator clips with narrow tight gripping jaws; a pair of insulated needle-point tips for piercing insulation, checking continuity and making positive contact on corroded terminals; a pair of insulated plugs with universal tapered lugs which fit sizes 4, 6, 8 and 10 screws. A pair of insulated jacks are supplied.

Handles of prods are made of high insulation material. Solderless connections safely insulated by sleeve caps which fit securely over set screws. Three pair of prod handles with prong ends which may be instantly plugged into any of the interchangeable tips. Handle lengths are 4 inch, 2 1/2 inches and 1 1/2 inches overall. All pairs color coded red and black for polarity identification. Colors will not fade. Use flexible cable 3E2080, etc., listed below, for connections.

Insulated Binding Posts

With Jack for Banana Type Plug-in Prongs Built-in Head

New style for Analyzers, Ohm-meters, etc. Moulded, high di-electric, knurled grip, non-removable top. Standard receptacle for Banana type plug-in prongs built into stem. A transfer hole is provided under the screw top for wire and phone tip connections. Length 1 1/2" overall with top is up. Extends 3/4" above panel when top is screwed down. Fitted with 1/2" screw 1/8" long and two nuts.

3E8857—Red 3E8860—Yellow **EACH**
3E8858—Black 3E8861—Green **10¢**
3E8859—Blue 3E8862—Purple
Ten for **75¢**

Standard Insulated Binding Posts

With Color Coded Tops

Attractive colored, high di-electric, insulated top-diameter 1/2". Mounted on 10/32 screw 3/4" long. Metal washer 1/2" diam., 1/4" thick.

3E8863—Red 3E8866—Green **TEN FOR**
3E8864—Black 3E8867—Yellow **48¢**
3E8865—Blue 3E8868—Purple

Small Insulated Binding Posts

With Color Coded Tops

Same as above but smaller. Top 3/8" diam., 6/32 screw 3/4" long. Metal washer 3/8" diam.

3E8869—Red 3E8872—Green **TEN FOR**
3E8870—Black 3E8873—Yellow **42¢**
3E8871—Blue 3E8874—Purple

Flexible Cable For Test Leads

Flexible rubber covered stranded copper wire, equivalent to size 16. Conductor is covered with cotton serving over which is a live rubber covering 3/8" thick. Over this is a lacquer saturated tight cotton braid. Will withstand highest voltages encountered in radio test work. Available in red and black covering for positive and negative.

3E2080—Red 3E2082—Green **25 Ft.**
3E2081—Black 3E2083—Yellow **37¢**
3E2079—Blue 3E2084—Purple
100 Ft. for **\$1.10**

Insulated Connectors

For Banana Type Plug-in Tips and Prods

Securely and speedily connect any Tips or Prods having Banana Type Plug-in Prongs. Lusterous colored high di-electric insulated body, 1 1/2" long, 3/8" diameter.

3E8851—Red 3E8854—Green **EACH**
3E8852—Black 3E8855—Yellow **10¢**
3E8853—Blue 3E8856—Purple
Ten for **78¢**

Long Test-Prod Handle With Banana Type Spring Contact Fits Plug-in Jacks



Hollow high di-electric insulated handle, 3/8" inch diameter, 4 inches long overall. Solderless screw terminal for wire lead completely insulated by cap. Prong end provides quick positive means for plugging in any of the interchangeable terminals listed or into panel jacks. Brilliant lusterous color coded handles.

3E4417—Red 3E4436—Green **EACH**
3E4418—Black 3E4437—Yellow **15¢**
3E4434—Blue 3E4437—Purple
Ten for **\$1.35**

Medium Test-Prod Handle

With Banana Type Spring Contact Fits Plug-in Jack



Same construction as long test-prod described above. Length overall 2 1/2 inches.

3E4419—Red 3E4439—Green **EACH**
3E4420—Black 3E4440—Yellow **12¢**
3E4438—Blue 3E4441—Purple
Ten for **\$1.08**

Prong End Adapters

For Test Prods with Banana Style Prongs



Adapters with high di-electric insulated handles. Connect securely. They give your test apparatus that extra degree of adaptability that enables many additional tests to be speedily made with minimum amount of connection changes. Every shop and laboratory needs several sets. One each—Sharp Point, Test Lug, Phone Tip and Alligator Clip included in set.

3E8846—Red 3E8848—Green **Net Per Set of 4**
3E8845—Black 3E8849—Yellow **20¢**
3E8847—Blue 3E8850—Purple
Ten Sets for **\$1.75**

Insulated Plug-in Tips

With Banana Type Spring Contact Prongs

High di-electric insulated hollow handle 3/8" long. Solderless screw connection. Provides for connecting test wires into plug-in tip jacks.

3E4427—Red 3E8826—Green **EACH**
3E4428—Black 3E8827—Yellow **9¢**
3E8828—Blue 3E8828—Purple
Ten for **87¢**

Standard Plug-in Insulated Jacks

For Banana Type Spring Contact Prods and Tips

Takes above three types, prods and tips. Provides a secure low resistance connection, quick make and break. Fits panels up to 3/8" thick. Shoulder washer included for metal panels.

3E4429—Red 3E8830—Green **EACH**
3E4430—Black 3E8831—Yellow **7¢**
3E8829—Blue 3E8832—Purple
Ten for **63¢**

Special Quality Plug-in Insulated Jacks

Take Banana Style Spring Contact Prods and Tips

Better design and construction than above Standard Plug-in Jacks. Brilliant lusterous moulded high di-electric insulated tops. Intended for better grade of laboratory apparatus. Fit panels up to 3/8" thick.

3E8833—Red 3E8836—Yellow **EACH**
3E8834—Black 3E8837—Green **9¢**
3E8835—Blue 3E8838—Purple
Ten for **78¢**

For Bakelite or Wood Panels

3E8833—Red 3E8836—Yellow **EACH**
3E8834—Black 3E8837—Green **9¢**
3E8835—Blue 3E8838—Purple
Ten for **78¢**

For Metal Panels—Have Moulded Washers

3E8839—Red 3E8842—Yellow **EACH**
3E8840—Black 3E8843—Green **10¢**
3E8841—Blue 3E8844—Purple
Ten for **88¢**

"Banana" Style Plug-in Spring Contact Prods

Fit above two styles of jacks. Provide secure solid contacts. Easily attached to rods or sheet. Efficiently provides for plugging in many styles of special apparatus.

3E4512—With unthreaded Shank, 1 1/8" overall. Ten for **35¢**
3E4513—With threaded Shank and two nuts 1 1/8" overall. Ten for **43¢**

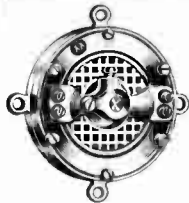
Metal Jack

For Banana Type Plug-in Prongs

Made of brass nickel plated. Hold prongs securely. Provide sure contact. Fits 3/8" hole. Shank 3/8" long. Lock nuts and solder lug included.

3E8893—Ten for **35¢**

Universal Microphones



New Model XX Two Button

Stretched Diaphragm
Model "XX" confirms the reputation for quality and performance that characterizes all Universal products. Every essential feature necessary to insure superior performance and long, care-free service has been incorporated in the design of this model. Only the non-essential "trimmings" have been eliminated to enable this popular price. Faithful, truly natural tone. Pure Gold Contacts. Duralumin stretched diaphragm. 200 ohms per button. Very low hiss level. Scientifically Damped. Frequency range from 100 to 4500 cycles. Ruggedly built and finished in non-corrosive, polished chrome plate. Diameter, 2 1/2 in. Overall thickness, 1 in. Made in three degrees of sensitivity: S, very sensitive; M, medium sensitive (standard) and D, highly damped. Specify type desired on your order.
3E2801—List Price, \$10.00.
YOUR PRICE \$5.88

Improved Model "KK"

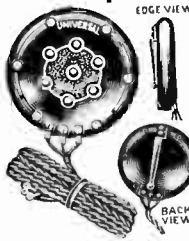
Frame Turned from Solid Steel Bar Stretched Diaphragm

A substantial, solid, two-button broadcast microphone, with a very minimum of hiss. Carefully constructed of the finest materials with a 24-Kt. pure gold spot center alloy diaphragm which is held under tension. Diaphragm has a thickness of only .002 in. Frequency range from 50 to well over 6,000 cycles. Buttons are 200 ohms resistance each. Entire microphone finished in 24-Kt. polished gold. 2 1/2 in. diameter and 1 1/4 in. thick. Made in three sensitivities: S, very sensitive; M, medium sensitive (Standard) and D, highly damped. Each unit is carefully laboratory tested before shipment.
3E2803—List Price, \$40.00.
YOUR PRICE \$23.52



Lapel Microphone

2 Button Professional Model



Thin, compact, light in weight, with minimum hiss. A laboratory designed, built and tested unit for Broadcast quality or reproduction. A full fledged 2 button, natural tone precision instrument. The cord terminals are held securely by screws to metal anchors in the polished Bakelite housing.

Resistance 200 ohms per button. Frequency range from 40 to 5000 cycles. Diameter 2 1/4". Thickness 3/8". Weight 2 ounces.
3E2805—List Price, \$25.00.
YOUR PRICE \$14.70

Model "QRQ"

Single Button

An exceptionally efficient, small, low cost microphone. 3 1/2 in. high. Finished in highly polished nickel plate. 200 ohm carbon microphone with high sensitivity and clear, natural reproduction. The button is solid 24 karat gold faced giving it extremely long life. Furnished with 3-ft. phone tip cord.
3E2815—List Price, \$3.00.
YOUR PRICE \$1.76



Three Channel Microphone Mixer

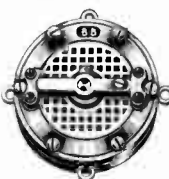
A compact, portable, correctly engineered mixer. Will handle one, two or three 2 button carbon microphones, condenser microphones, low impedance phono pickups or standard telephone lines or any combination of them. Mixing and fading can be done smoothly and silently without affecting quality or without unbalancing channels. Constant impedance is maintained at all times throughout circuit by the use of constant impedance T Pads. Output is to 400 ohm line. Housed in black crackle finish steel housing, engraved bakelite panel. Size 4"x5 1/2"x12". Net Shipping weight 12 lbs.
weight 9 lbs.
3E2840—List Price, \$36.00.
YOUR PRICE \$21.17



Model "BB"

New Super Design

A superlative value for such a low price. Built to half-line precision. An idea of the ruggedness can be obtained by the fact that Model "BB" is 3 in. in diameter by 2 in. thick. Designed especially for voice pick-up, public address work and for amateur broadcasters, experimenters, halls, ball rooms, speaker wagons, etc. Finished in beautiful, highly polished chrome plate. Extra heavy 24-Kt. Pure Gold Spot Center, Duralumin Diaphragm and has a frequency range of from 70 to well over 4,500 cycles, 200 ohms per button. Owing to the large size and weight of model "BB", it is recommended that Model "L" desk stand be used for mounting instead of Model "K", especially when covers are used. Made in three degrees of sensitivity: S, very sensitive; M, medium sensitive (Standard), and D, highly damped.
3C2802—List Price, \$25.00.
YOUR PRICE \$14.50



Universal Model "Y"

Super-Sensitive Midget Microphone

Lighter, smaller and more sensitive than Model "W". Front face of microphone is the diaphragm proper. Extremely sensitive. When placed in any hidden position it will pick up sounds and conversations. Recommended for use where high sensitivity and extreme compactness are necessary. Should be placed in protected locations, behind screen or grill work. Suitable for use with earphones. Because of the exposed diaphragm, great care must be exercised in handling.

3C2818—List Price, \$2.00.
YOUR PRICE \$1.18

EDGE VIEW



BACK VIEW

Universal Model "W"

Perfect Watch Model Microphone



The smallest completely protected and workable single-button microphone manufactured. Can be depended upon to give full quality performance. A favorite type for use in hidden positions such as a telephone, or on the coat lapel. Highly sensitive. Light weight and unusually finished with Pure Gold Spot Center Diaphragm, completely enclosed, protecting it against injury during handling and use. 1 1/2 in. in diameter. 1/4 in. thick.
3C2819—List Price, \$3.00.
YOUR PRICE \$1.76

Universal "Handi-Mike"

Single-Button

Intended for voice only. Has maximum volume with clear and clean out speech reproduction. Beautiful polished, plate finish. Equipped with an "off" and "on" thumb switch and 15-ft. cord. Scientifically constructed with gold faced button. Mounted in sound damping, resilient felt. Overall length, 6 inches. Size of head, diameter, 2 1/4 inches. Copy of booklet "Use and Care of Microphones," giving instructions and wiring hookup, accompanies each Handi-Mike.
3C2811—Model No. 200—Regular Model.
List Price, \$10.00.
YOUR PRICE \$5.75



Double-Button

An exceptionally clear, highly damped hand microphone, designed particularly for uses where clarity of reproduction plus general adaptability and portability are important requisites. Especially recommended where microphone must be used in close proximity to loud speakers. Switch breaks the circuit in the center conductor. Rugged construction. No delicate parts. 200 ohms per button. Finished in beautifully polished chrome plate, equipped with a 6-ft. silk brad covered cable.
3C2813—List Price, \$15.00.
YOUR PRICE \$8.82

Suspension Rings

5 Inch

For use especially with Models "A", "X", "BB", "KK", "L", or Torpedo Models, etc. For suspending microphones from ceilings or beams. Made of solid brass. Beautifully finished in highly polished chrome plate. Size 5 in. diameter by 1/2 in. wide by 1/4 in. thick — 8 suspension springs included.
3E2826—List Price, \$2.50.
YOUR PRICE \$1.47



6 1/2 Inch

Size 6 1/2 in. diameter by 1/2 in. wide by 1/4 in. thick. A larger ring for larger mikes, especially the extra heavy "BB", "A", "LL" or Torpedo Types — 8 suspension springs included.
3C2827—List Price, \$4.00.
YOUR PRICE \$2.35

Desk Type Mountings

Model "K"

5 inches in diameter and is used for mounting Models "X", "A" or "KK" microphones on 4 points of suspension, using 8 springs. Base is set in a moulded rubber ring forming a cushion against vibration and preventing damage to polished surfaces. Finished in highly polished chrome plate. Entire assembly 8 1/2 in. high. 8 suspension springs included. Removable Placard Holder.
3C2828—Without Covers.
List Price, \$4.00.
YOUR PRICE \$2.35



3C2829—With Covers.

List Price, \$6.00.
YOUR PRICE \$3.53

Model "L" Desk Stand

For larger microphones such as the "BB" and "KK". Ring Dia., 6 1/2". Has two lengths of interchangeable tubing which allow for height of either 10 1/2" or 16 1/2" as desired. Base Dia. 5". Polished chrome finish. 8 suspension rings furnished.
3E2830—Without Covers.
List, \$6.00.
YOUR PRICE \$3.53



3E2831—With Covers. List \$10.00.
YOUR PRICE \$5.88

Floor Stand

Top ring is 6 1/2 in. in diameter. Heavily weighted 18 pound base 12 inches diameter. Total extended height 5 1/2 ft. This stand is smooth in operation and is not easily tipped. The clamp lock is positive, yet is operated by the slightest pressure. Finished in highly polished chrome plate and equipped with blank call letter nameplate as shown. 8 suspension springs included. Net weight 19 1/2 lbs.
3C2833—List Price, \$16.00.
YOUR PRICE \$9.41



Banquet Stand

Same general construction as floor stand but lighter in weight. Adjustable from 18 in. to 66 in. high. Base 7 in. in diameter. Top ring 6 1/2 in. in diameter. Finished in highly polished chrome plate. 8 suspension rings included. Net weight 11 lbs.
3E2832—List Price, \$12.50.
YOUR PRICE \$7.35

New Universal

Floor Stand

Double extension. Adjustable from 28 to 66 inches. Base 7 inches diameter. Top ring 6 1/2 inches diameter. Elegant polished chromium plated finish. Four point suspension. 8 microphone springs included.
3C2834
YOUR PRICE \$5.88



Desk Stand

One piece die-casting, beautiful chromium plate finish. Ring 5 inches diameter. Overall height, 7 1/2 inches. Base 4 inches diameter with soft rubber pad cover. 8 springs included.
3E2835
YOUR PRICE \$2.05



SHURE Microphones

Model 5B 2 Button

A full sized 2 button microphone. Large frame makes possible the use of vintage size precision adjustable buttons in a king tone quality superior to that of units with smaller frames which can accommodate only the smaller buttons. Diaphragm damped to eliminate rattle vibration. Speaking voice clear and easy to understand. By the use of two buttons "push-pull" microphone action is secured that eliminates "squawk" and harshness. Highly polished gold surfaced buttons. Screen in face of microphone eliminates need for covers on stand. Appearance enhanced by modernistic bevel edge. Highly polished and chromium plated.

Operates best at 6 to 8 M. A. per button. Limit of guarantee 21 M. A. per button. Total internal resistance: 400 ohms, or 200 ohms per button. Frequency response 40 to 4000 cycles. Diameter overall: 3 3/4 inches. Diameter of frames, 3 inches. Thickness overall 1 1/2 inches. Shipping weight, 1 1/4 pounds. Packed with wiring diagram and complete instructions. (Not recommended for Muds.)

3E2940—List Price, \$10.00. YOUR PRICE \$5.88

Shure Model 22B

2 Button Microphone Patents Pending

A large size, high quality 2-button microphone for public address systems and amateur broadcasting. New, glazed carbon button discs, adjustable buttons, cathode spot stretched diaphragm and gold plated diaphragm and clamped by a special process, "Quickway" hooks (patents pending). Screen in the face of the microphone eliminates the need for covers on the stand. Modernistic, bevel edge design.

Operates best at 6 to 8 M. A. per button. Limit of guarantee: 30 M. A. per button. Total internal resistance: 400 ohms, or 200 ohms per button. Frequency response 40 to 6,000 cycles. Diameter overall: 3 3/4 inches. Shipping weight, 1 1/2 lbs. Packed with wiring diagram, and complete instructions. Highly polished chromium finish.

3E2941—List Price, \$25.00. YOUR PRICE \$14.70

SHURE Model 40C Condenser Microphone

A high quality instrument. Excellent frequency response from 40 to 10,000 cycles. Chromium plated head. Baked black enameled finished case. Suspension adapter for suspending unit from above and a threaded stud for attaching to the standard Shure Stands is supplied.

Electrical Specifications

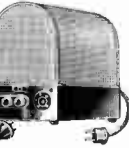
Employs two type 30 tubes for use with dry cell "A" and "B" supply. "A" current is 6 v. "B" current 150 v. at 3 M. A. "A" plus grounded; may be connected in standard mixer circuits without any changes. (Output level, minus 30 decibels which is higher than the average two button carbon microphone. Connects easily on carbon microphone circuits by omitting center leg of the circuit. Special terminal strip provides either 200 or 50 ohm output impedance. A 12' shielded color coded cable is supplied. Dimensions: Transmitter head, 3" in dia, including flange 3 3/4". Case 4 3/4" wide, 7 3/4" high. The back of the case is easily removed to get quick access to the tube chamber. Instructions and wiring diagram included. Guaranteed for one year. Shpg. wt. 8 1/2 lbs.

3E2937—Model 40-C with cable but less tubes and stand. List Price, \$67.50. YOUR PRICE \$39.69

SHURE Model 41-A Condenser Microphone Power Supply

Makes possible a completely A.C. operated condenser microphone. Eliminates all batteries. Especially for use with the Shure Condenser Microphone, but may be used with any condenser microphone with similar current requirements. Provides a perfectly filtered D.C. for both filament and plate circuits of the head amplifier. No audible hum. Cover chromium plated. Base double baked black Japan. Input: 105-125 v., 60 cycles A.C. Output: Filament: 6 v. at .06 amp. D.C. (two type "30 filaments in series). Plate: Adjustable 200 v. maximum. 5 A. D.C. A.C. and B. grounded to case.

3D2939—Complete with plug for attachment to microphone cable, 6 Ft. A.C. cord, and one type '80 tube. List Price, \$40.00. YOUR PRICE \$23.52



Lots of Fun

Home Broadcast MICROPHONES

Radio's Biggest Selling Specialties

Connect to any Radio with Power Detector

Tell Your Customer—

About These Wonderful Entertainers

Give your friends a thrill. Cut in on radio programs with personal comments, jokes, and "wanted by police" announcements. Mimic London announcers. There is no limit to the possibilities of your entertaining in this clever manner. Try out your guests as "Broadcast" artists. Enjoy their "mike" fright. Pens up dull parties. Opens new fields of pleasure. Does not harm the radio in any manner. May be left connected and

switched on at the microphone whenever you want to interrupt program. Radio reproduction stops or becomes very soft while "Mike" is on. High internal resistance. No special transformer required. Derives current from plate circuit. Furnished with long extension cord. Quality of reproduction with microphone held close to cheek compares favorably with ordinary radio announcements. Demonstrate on your regular service calls.

Little Mike



3 3/4" high. Metal case with push-button switch. Shockproof case finished in antique bronze. Complete with instructions. List Price, 75c.

3D2981—Your Price Each 45c PER DOZEN \$5.10

Studio Mike

Professional size microphone. Single button mounted in chrome nickel stand. 5 1/4" in diameter and 8" high. Furnished with a switch for continuous broadcasting.

3E2979—List Price, \$2.00. YOUR PRICE EACH \$1.18 PER DOZEN \$12.76



Desk "Mike" Stands

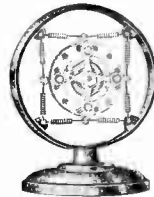
3D2992—5 inch ring. Overall height 6 3/4". Base cast aluminum. For small microphones. List Price \$3.50.

YOUR PRICE \$1.69

3D2993—6 1/2 inch ring. Overall height 8 1/2". Heavy cast iron base. For large microphones like models 90 and 85. List Price \$6.00.

YOUR PRICE \$2.45

Well balanced design. Hollow base with cord outlet rubber bushed. Hole for mounting 3C6333 switch (Page 95). Felted bottom prevents marring or scratching. Rich black crystalline finish. Eight springs included.



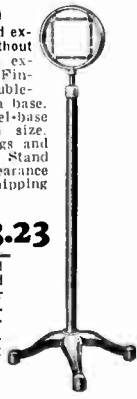
Shure Micro-Stan

Automatic safety lock holds stand exactly at the height required without screws or nuts. Stand may be extended from 52 to 76 inches. Finished in rubber-tone black, double-baked Japan. Cable entrance in base. Microphone ring is of nickel-base chromium in standard 6 inch size. Fitted with 8 rust proof springs and convenient "Quickway" hooks. Stand presents a neat, bright appearance after the hardest wear. Shipping weight 23 lbs.

3E2874—List Price, \$22.50.

YOUR PRICE \$13.23

Any Shure stand can be furnished without ring for mounting condenser, velocity or crystal microphones. Deduct \$2.05 from quoted price when ordering without ring.



Shure Collapsible Floor Stand For Portable Systems

Gives firm, solid support. Tripod, when extended, has a leg spread from 23 to 33 inches; height may be adjusted from 43 to 105 inches; folds into a space 31" x 2 1/2" for easy transportation. Equipped with standard 6 inch chromium ring, 8 rustproof springs.

3E2875—List Price, \$18.50.

YOUR PRICE \$10.88



Shure Adjustable Desk Stand

Height can be adjusted from 13 to 18 inches. Weighted base has hole and open bottom for easy wiring. Chromium finished ring, 6 inches diameter, 1 1/2 inch wide. 8 rustproof springs included.

3E2876—List Price, \$10.00.

YOUR PRICE \$5.88



KELLOGG

Hand Microphone

A perfect midget hand microphone. Sensitive, rugged—used for market reports, amateur transmitting, record recording, and on public address systems. Made by one of the oldest and foremost manufacturers of the microphones. Responds well to frequencies between 90 and 3000 cycles. Matches 200 ohm input. Operates well on 1 1/2 volts—and not over 3 volts. Draws less than 2 1/2 milliamperes average current. Phosphor bronze with gold plated contact point diaphragm protected by fine mesh screen. Cast metal handle, grounded through the plain wire in the two conductor, 18 strand, 5/16" tinsel cord. Standard size phone tips. Use with regular 200 ohm microphone input transformer for vocal and musical transmission of high quality.

3D2975—List Price, \$8.50.

YOUR PRICE \$1.25



Telephone Type Desk Stands

Places mike at correct height for operation in sitting position. Unusually wide weighted base. Black crystalline finish. Eight springs furnished. 6 3/4" ring.

3D2995—with 6 inch Ring. Size is 17" overall. List Price, \$10.00. YOUR PRICE \$4.50



With 5 Inch Ring

Stand is 16 1/2" high. **3D2994—List Price, \$8.00. YOUR PRICE \$3.95**

Floor Stand

Broad tripod base permits comfortable close to mike speaking. Built for hard service. Will not tip over easily. Right seamless steel standard adjustable from 40 to 66 inches height. Positive holding device, 6 1/2 inch ring in chrome finish. Black crystalline finish on standard and base.

3D2996 List Price, \$15.00. YOUR PRICE \$8.50



PIEZO ASTATIC Crystal Microphone

No Background Noise
No Batteries

3E2907—List Price, \$21.00.
Your Price, **\$12.00**
EACH.....

A new type of microphone representing a great advance in the art of reproduction. Very rugged in construction. Can be moved about while in operation. Bumps produce practically no mechanical noise. Will operate equally well in any position. Practically indestructible. Abuse that would ruin any other type of microphone does not affect this unit. Frequency response is very uniform over the audible range. Resonant points which are bothersome in other types of microphones are absent in this unit. No button current, field current or polarizing voltage required. Will not pack nor blast. No hiss or other background noise present. Gives a naturalness to voice and music that noticeably surpasses performance of any other type of microphone.

Requires No Special Transformers
High impedance output enables direct connection to grid input when used within 10 feet of amplifier. Does not require special type of line matching transformer when used at a distance from amplifier. Ordinary single button carbon mike transformer can be used, using secondary as primary connection to mike and primary for 200 ohm line output. Output level is minus 60 D.B. Where sensitivity is not required a regular three stage amplifier gives sufficient gain to obtain full output. For maximum sensitivity four stages of amplification should be used.

Housed in strong chromium plated case 3" in diameter, 1" thick. Microphone can be mounted on size 3/8" threaded pipe or can be mounted in regular microphone ring by means of four hook eyes furnished. Comes complete with 6 foot of shielded cable and instructions for use.

Stand Mounting Adapter

Adapter for mounting Astatic Crystal microphone on any Shure stand listed on page 107.
3E2873—YOUR PRICE **60¢**

Ribbon Velocity Microphone Kit

An easy to assemble, high quality directional microphone kit. Latest design. Employs a special aluminum alloy ribbon 0.00065" thick, suspended from bakelite yokes, in an intense magnetic field. The slightest vibration of the ribbon in the magnetic field, causes a current to be induced in the ribbon. Normal frequency response, 30 to 12,000 cycles. Directional effect is a great aid in reducing feedback from speaker located close to the "mike". Because of the extremely low impedance of the ribbon, a special low to high impedance coupling transformer must be employed between the microphone and amplifier. The ribbon velocity microphone develops about the same signal strength as the condenser type microphone necessitating a preamplifier of at least two stages of resistance coupled triode tubes. Before coupling to a standard two or three stage P. A. amplifier. Length assembled 3 1/2". Width overall 2 1/2". Depth 1". Complete instructions with results.

3D2970—Improved Ribbon Velocity Microphone Kit.
YOUR PRICE **\$5.88**

3D2971—Factory assembled Ribbon Velocity Microphone.
YOUR PRICE **\$11.76**

Special Ribbon Velocity Microphone Transformers
3D3940—Ribbon to grid circuit of amplifier. List Price \$5.50.
YOUR PRICE **\$3.24**
3D3941—Ribbon to 200 or 500 ohm line, 2 taps. List Price \$5.50.
YOUR PRICE **\$3.24**

Bruno Velocity Microphone Housing

Houses above microphones together with ribbon to line or ribbon to grid transformer. Made of light, strong metal, alligatoroid black finish. Has threaded 3/8" size hole in base for stand mounting.

3E2972—List Price, \$6.00
YOUR PRICE **\$3.53**

Stand Mounting Adapter

Adapter for mounting Bruno Ribbon Microphone with ease on any Shure stand listed page 12.
3E2872—YOUR PRICE **60¢**

Amperite Ribbon Velocity MICROPHONE KIT

KIT ONLY WITH CASE BUT WITHOUT TRANSFORMER.
3E2850—

List, \$15.00. **\$8.82**
YOUR PRICE.....

3E2851—FACTORY ASSEMBLED AND TESTED WITH HOUSING AND RIBBON TO 200 OR 500 OHM LINE TRANSFORMER.
List Price, \$25.00.
YOUR PRICE **\$14.70**

A high grade ribbon microphone that compares favorably in performance to high priced studio models. Considered superior to carbon microphones. No button current, field current or polarizing voltage required. Absolutely free from hiss or other background noises. High fidelity of tone is obtained as frequency response is flat within one D.B. between 40 and 10,000 C.P.S. without production of resonant peaks. Directional characteristic makes it possible to reduce or entirely eliminate feedback. Undesirable outside noises are materially reduced. Output is -90 D.B. Two stage preamplifier should be used to bring level up to a point where microphone can be used with average public address amplifier. Ribbon is of specially treated aluminum alloy that is not affected by temperature or humidity. Housed in acoustically correct, sturdy bronze and steel case which provides complete shielding. Matching transformers listed below fit in base of mike case. Bottom of case has fitting, threaded 1/2" pipe size for mounting on stand. Complete instructions with diagram for two stage preamplifier are included.

New Model RAE Ribbon Mike

Similar in appearance and general characteristics to above microphone, but has wider frequency range and is therefore more suitable for studio work. Completely assembled with 200 ohm, output transformer.
3E2860—List Price, \$35.00.
YOUR PRICE **\$20.58**

Ribbon Microphone Transformers

Especially designed—high permeability transformers to match the Amperite Superior Microphones. Due to small energy pickup, properly matched and designed transformers are very necessary. These transformers exactly fit into base of microphone case.

3E2854—Ribbon to Line } List Price, \$5.00.
3E2855—Ribbon to Grid } YOUR PRICE.....
3E2856—Line to Grid } **\$2.94**
3E2857—Plate to Line }

Stand Mounting Adapter

Adapter for mounting Amperite Ribbon Microphone on any Shure stand listed on page 107.
3E2871—YOUR PRICE **60¢**

Amperite Superior Condenser Microphone Kit

A truly professional microphone. Made with micrometer accuracy and tested over the entire audible range. No hiss—no background noise. Reproduction is life-like. Excellent for public address, radio or recording.

Specially annealed duraluminum diaphragm—stretched so that resonant point is far above audible range. Diaphragm comes mounted. Fully enclosed, protected against dust and climatic changes. Complete kit of parts with instructions for assembly of microphone and making of pre-amplifier. Shipping weight, 4 lbs.
3E2865—Kit Only. List, \$8.00.
YOUR PRICE **\$4.70**

3E2866—Condenser microphone, factory assembled and tested. List Price, \$10.00.
YOUR PRICE **\$5.88**

3E2867—Special super-sensitive studio type. Factory assembled and tested.
List Price, \$15.00.
YOUR PRICE **\$8.82**

Universal Condenser Microphone

With A.C. Operated Pre-Amplifier

3E2810
List, \$84.00.
YOUR PRICE **\$49.39**
Less Tubes Assembled, ready for use as shown, 2.

stage amplifier using 2 type 230 tubes. Plugs into 110 V. A. C. 50-60 cycle socket. No hum or ripple. Frequency response from 70 to 7,000 cycles, audio output level—40 D. B., greater than from a carbon microphone and can be fed into same transformer or input. Brown Crackle finish, 25 ft. rubber covered shielded cable furnished.

Radolek Special

Two-Button Microphone

Value With Quality

3E2974—**\$2.95**
YOUR PRICE.

A fine quality double button microphone selected by us after exhaustive tests of this and other makes and offered to you as an unbeatable microphone value. Carefully constructed without frills that do not add to performance. Do not compare this with punch press microphones sold in this price class as this microphone is not a toy but a well made and carefully assembled instrument that gives long and trouble free service. Button contacts 24 Kt. gold. Frequency response 50 to 4,500 cycles. Button impedance 200 ohms total 400 ohms. Frame 2 1/2" diameter and 1/2" thick. Finish is highly polished chromium plate. Will give fair results with music but for best musical reproduction we recommend Model 77 Electro Voice.

Model "100" Series Electro-Voice Voice Microphones

3E2900-A—Extra Sensitive for recording.
3E2901-D—Standard Medium Sensitive.
3E2903-B—Medium Damped.
3E2903-C—Heavy Damped.
3E2904-E—Special Curve for Reducing Feedback.

List Price, \$10.00. **\$5.88**
YOUR PRICE.....

A rugged, double-button microphone that has proven itself thoroughly reliable and gives faithful reproduction under all conditions. An inherent quality of smoothness is made possible by precision methods of manufacturing. High sensitivity, resulting from scientific damping. Carbon granules are acid treated to reduce ash content and will stand higher current values without injury and have lower background noise. Excellent for voice and can be used satisfactorily for music pick-up. Response 40 to 6,000 C.P.S. One piece buttons, pure 24 kt. gold contacts, protected diaphragm. Heavy chromium plate. A new development is offered in the Model 100E which is especially constructed to reduce acoustic feedback. Its curve extends from 40 cycles and has a very sharp cutoff at 3500 cycles. As most feedback frequencies are above this figure this microphone can be placed as close as 8 feet from speaker and give satisfactory results. This model is not recommended for music. Size 2 1/2" x 1". Weight 8 oz. Matches standard input transformer (200 ohms. Per Button.)

Model "77" Electro-Voice

3E2905—List Price, \$18.00.
YOUR PRICE **\$10.59**

Reproduces music with smoothness, depth and brilliance. The shading and inflection of speech are preserved together with clean-cut articulation. High quality double-button type, adaptable to broadcast remote, public address and amateur work. Diaphragm is heat-treated-duraluminum, perfectly stretched and is protected by symmetrical cast grill. The contacts are 24 Kt. gold applied through an exclusive patented process, guaranteed for life against "peeling" or imperfect contact. Contacts may be cleaned hundreds of times without injury. New type buttons. Damping plate is ground perfectly flat and lapped in by hand, insuring freedom from "peaks" in the response. Response is substantially flat from 35 to 6,500 C.P.S. Size 2 1/2" x 1 1/2". Extra heavy polished chromium finish. Weight 1 lb. Matches standard input transformer (200 ohms Per Button.)

Bruno Condenser Microphone Kit

3E2998—Condenser microphone kit.
YOUR PRICE **\$2.94**

3E2999—Condenser microphone assembled.
YOUR PRICE **\$5.88**

Complete Easy-To-Assemble Kit. Heavy Cast Metal non-resonant shell. Special sensitive 0.0012" annealed aluminum alloy diaphragm. Bakelite insulated, machined brass stator plate. All necessary mounting rings and insulation. Assembly stretches diaphragm flat. Frequency response up to 5,500 cycles. Excellent low noise pick-up. Maximum diameter 3 1/2". Depth 1 1/2". Assembly instructions included. Must be used with "head" amplifier within a few inches of microphone. Has many advantages over carbon "mike" in uniform pick-up and tone quality. No carbon "hiss."

Thordarson Line Matching Transformer



T6048
Couples 500 Ohm Amplifier Output Line to Voice Coil of Dynamic Speaker Employs the Universal System of Ratio Matching of Impedances

3D4380
List Price \$3.00.
YOUR PRICE **\$1.76**

Permits use of from one to six speakers (using a transformer at each speaker) at full volume, or from two to 12 speakers (using a transformer for each 2 speakers) at half power.

The use of these transformers provides the only satisfactory method of coupling to a single amplifier, several dynamic speakers at widely distributed points. In addition the distribution of power may be adjusted (see diagram below) so as to reduce feedback difficulties.

Specifications: High inductance primary; 7 tap secondary so arranged that speakers with voice coils having impedance values between 2 and 16 ohms can be balanced to the 500 ohm line with any combination of speakers—1 to 6 at full volume—2 to 12 at half volume. Transformer is 3" high; 2 1/4" wide, 2 1/4" deep. 15 watt working capacity—25 watt peak. Complete instructions included.

Thordarson T6125 Transformer

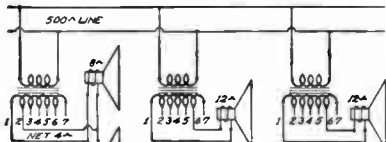
Universal Single Tube to 500 ohm Line Matches above transformer in appearance. Has primary terminals and six secondary ratio taps to provide for coupling any of the following tubes to a 500 ohm line: 2A5, 11, 12, 47, 69, 59, 46, 45, 50, or 2A3, class "A", 15 watt working capacity, 25 watt peak. Diagrams included.

3D4361. List Price \$3.00
YOUR PRICE **\$1.76**

Thordarson T6126 Transformer

Universal Push Pull Tubes to 500 ohm Line Matches above transformer in appearance. Has center-tapped primary and five secondary ratio taps to provide for coupling any of the following tubes in push-pull to a 500 ohm line: 2A5, 41, 42, 89, 47, 59, 46, 45, or 50. Class "A", 15 watt working capacity, 25 watt peak. Diagrams included.

3D4362. List Price \$3.00
YOUR PRICE **\$1.76**



Schematic Diagram Showing Line Matching Transformer Hook Up

The above diagram shows how to use the line matching transformer with two 8 ohm dynamic speakers operating at half power close to a microphone to greatly reduce possibility of microphone feedback. Diagram also shows how to connect in the same circuit, two 12 ohm dynamic speakers operating at full volume at distant points, employing two additional transformers. Taps permit matching of speakers with various voice coil impedances, and provide for balancing a number of speakers to a 500 ohm line. Many other combinations may be arranged to achieve distribution of power and volume. Complete instructions included.

Mixing and Line to Line Transformer

To be used in construction of mixing panels used for public address, centralized radio, recording or broadcast equipment. Mounted in shielded case to prevent hum pickup. Frequency characteristic essentially flat from 50 to 10,000 cycles.

Block Number	Primary Imped. Ohms	Secondary Imped. ohms	List Price	Your Price
3E3855	200 or 50	200 or 50	\$4.00	\$2.35
3E3856	500 or 125	200 or 50	4.00	2.35
3E3857	Dbl. But. Mike	200 or 50	4.00	2.35
3E3858	5000 or 2000 ohms for Phono Pickup	200 or 50	3.00	1.76

Tube to Line Output Transformer

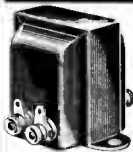
For use particularly in matching output tube of microphone pre-amplifier to low impedance line. Two lead primary matches single tube such as 56, 37, 27, 864, 30 etc. Mounted in shielded case to prevent hum pickup. Frequency characteristic essentially flat from 50 to 10,000 cycles.

3E3859—To couple any one of above tubes to 200 or 50 ohm line.

3E3860—For coupling to 500 or 125 ohm line. List each \$3.00.

YOUR PRICE, EACH **\$1.76**

Microphone Transformers



Thordarson Single Button

For use from single button microphone to grid. Turn ratio 1:1.64. Primary impedance, 200 ohms; secondary impedance, 100,000 ohms. Primary D.C. resistance is 1.9 ohms. Secondary D.C. resistance is 3230 ohms. Especially designed for

use with Universal Baby, GRK Mike, Handl-Mike, Model "A", or any other single button microphone. High class construction; completely shielded.

3C4345—Thordarson Type T-2357.
List \$3.00. YOUR PRICE **\$1.77**

Double Button

Double button—from microphone to grid. Turn ratio is 1:2.2. Frequency curve is exceptionally flat from 30 to over 7000 cycles. Center tapped primary is 400 ohms impedance overall. Secondary impedance is of the order of 200,000 ohms to match grid of practically any amplifier input tube. Matches impedance of all standard type, carbon, 2 button microphones.

3C4346—Thordarson Type T-3020.
List, \$5.00.

YOUR PRICE **\$2.94**

Broadcast Microphone Transformer Thordarson Type T-3180

Double button microphone to grid. Turn ratio is 1:27. Center tapped primary is 100 ohms impedance overall. Secondary impedance is 300,000 ohms to match grid of practically any amplifier input tube. One of the finest microphone transformers ever built. Precision made—real Thordarson quality. Matches impedance of all standard carbon type 2 button microphones.

3C4347—List, \$8.50.

YOUR PRICE **\$5.00**

Used by many of leading broadcasting stations. Primary and secondary wound in sections to reduce distributed capacity, and insure perfect balance between the halves of the windings.

Radolek Double Button Microphone Transformer



Turn ratio 25 to 1. Impedance ratio 625 to 1. Frequency curve is exceptionally flat from 60 cycles to 5000 cycles. Primary is split 200 ohms each side and the secondary impedance is of the order of 250,000 ohms at 60 cycles and 3 volts A.C. Primary D.C. resistance is 43.6 ohms. Secondary D.C. resistance is 6650 ohms. D.C. in primary balances out. Primary inductance 2.02 henries, secondary induction 498 henries. Matches impedance of all standard type, carbon, 2 button microphones. Fully shielded in a black enameled steel case. Insulated core coded "6" leads out of bottom. Size: 2 1/2" high, 2" wide, 2 1/4" deep. Mounting hole centers 2 1/2".

3D3949—YOUR PRICE **\$1.19**

Line to Tube Universal Input Transformers

Used for coupling circuit to an amplifier input using practically any type input tube. Also for directly coupling single button carbon microphone, condenser or dynamic microphone, low impedance phonograph pick-up, low impedance radio output, or other low impedance line to the amplifier input. Mounted in shielded case to prevent hum pickup. Frequency characteristic essentially flat from 50 to 10,000 cycles.



Block Number	Primary Imped. Ohms	Secondary Grid Ohms	List Price	Your Price
3E3861	200 or 50	Sgl. 100,000	\$3.00	\$1.75
3E3862	500 or 125	Sgl. 100,000	4.00	2.35
3E3863	500 or 125	P.P. 200,000	4.00	2.35
3E3864	200, 400, 600 or 800 ohm	Sgl. 100,000	4.00	2.35

Ribbon Microphone Transformers

Practically flat frequency response from 40 to 10,000 C.P.S. Case fully shielded to prevent hum. Primary exactly matches output of ribbon microphone.

3E3865—Secondary impedance 200 or 50 ohms for use when mike is operated at a distance from preamplifier.

3E3866—Secondary impedance 100,000 ohms to match grid input of practically any tube for use when microphone operated within 10 ft. of pre-amplifier. List Price Each \$3.00.

YOUR PRICE, EACH **\$1.76**



Jefferson Single Button

Turn ratio 1 to 64. Impedance ratio 1 to 4000. Windings completely shielded in black enameled pressed steel housing. Binding post connections. For 200 ohm single button microphones. Size 2 1/2" high, 2 1/4" wide, mounting holes

2 1/2" centers.
3C4290—Code 467-261.
List Price \$2.00.
YOUR PRICE **\$1.18**

Double Button

A splendid fully shielded single or double button microphone transformer. Extra heavy insulation to prevent capacity losses within windings and to increase frequency response. Matches standard 2-button 200 ohm microphones or when using 1/2 the primary winding will match a single 200 ohm button. Size 2 1/2" x 2 1/4" x 2 1/4" high. Mounting centers 2 1/2".

3E4271—467-263.
YOUR PRICE **\$1.47**



Jefferson Phonograph Pick-Up Transformer



Designed for coupling low impedance phonograph pick-up (on order of 700 ohms @ 1000 cycles) to grid of amplifier. Turn ratio 1 to 30. Windings completely shielded in black enameled pressed steel case. Binding post connections. Size 2 1/2" high, 2 1/4" wide. Mounting hole centers 2 1/2".

3C4292—Code 467-181.
List Price \$2.00.
YOUR PRICE **\$1.18**

Microphone Input Transformers

A fine quality microphone transformer. Proper design and proper ratio. The same model extensively used by manufacturers of P. A. systems. Core size 3/4 x 1". Overall size 2 1/2" high, 1 1/2" wide, mounting holes 2 1/2" centers. Japanned steel frame around core. Solder lug connections. For use with standard 200 ohm per button microphones.



3C4220—For single button "Mike."
YOUR PRICE **78¢**

3C4221—For two-button "Mike."
YOUR PRICE **94¢**

Three Contact Sockets and Plugs



3C2945—Plug with Porcelain Base socket.
PER SET **89¢**



3C2844—Microphone Cable Polarized Bakelite Connectors.
PER SET **\$1.47**

Microphone Plug

3 prong polarized, Bakelite cap.
3C2947—List Price 65c.
YOUR PRICE **39¢**



Microphone Receptacle

Receptacle for three prong polarized microphone plug. Fits standard switch box. Plate is brown bakelite, size 2 1/2" x 1 1/4". No plug included.

3C2946—List Price \$2.00.
YOUR PRICE **\$1.18**

Microphone Plug and Jack



Especially designed 3 contact telephone type plug and jack for use with double button carbon microphone. Very handy for use in construction of mixing panels due to compactness.

3E2845—3 conductor plug only, List 75c.
YOUR PRICE **44¢**

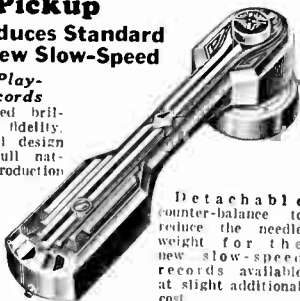
3E2846—3 conductor jack only, List 50c.
YOUR PRICE **29¢**

New Webster Electric Pickup

Reproduces Standard and New Slow-Speed

"Long Playing" Records

Unequaled brilliance and fidelity. Advanced design achieves full natural reproduction of tone.



Detachable counter-balance to reduce the weight for the new slow-speed records available at slight additional cost.

Recreates the latest transcriptions with the full depth and broad range of the original orchestration. Is extremely sensitive and has unusual uniform response over the entire scale of musical frequencies. Instrumental and vocal recordings are faithfully reproduced with a minimum of mechanical and background noise. Reproduces all standard records with perfect fidelity and is especially designed to respond without mechanical or electrical lag for the new 33 1/3 R.P.M. slow-speed long playing records. Richly finished in beautifully soft golden bronze. Equipped with a 1 7/8" Cobalt magnet, cold rolled steel pole pieces and "A" metal stylus. Suitable for playing all 10" and 12" records.

Less Volume Control

3D2951 Model 15A. Standard High Impedance Type. 17,000 ohms at 1000 cycles. For use with a 50,000 ohm volume control for uniform response. For accentuation of base response and the suppression of highs, a 10,000 ohm control may be employed. List, \$10.50.

YOUR PRICE **\$4.65**

With Volume Control

3D2950 Model 15A. Standard High Impedance. 17,000 ohms at 1000 cycles. With a 50,000 ohm volume control built in the base. List Price \$11.00.

YOUR PRICE **\$4.95**

Low Impedance Model

3D2952 Impedance 200 ohms at 1000 cycles. Less volume control. List, \$11.50.

YOUR PRICE **\$4.87**

3D2953 Impedance 200 ohms at 1000 cycles. With volume control built in the base. List, \$12.50.

YOUR PRICE **\$5.40**

Model 17A High Output Pickup

Designed for radio receivers and amplifiers having low gain. This pick-up gives an average output of 4 volts so that ample volume may be secured for record reproduction.

Equipped with a 3/8" Cobalt magnet, "A" metal stylus and "A" metal pole pieces. Size and appearance same as above model.

3D2954 Model 17A. Standard High Impedance Model. 17,000 ohms at 1000 cycles. With Built-In Volume Control. List \$14.50.

YOUR PRICE **\$8.34**

3D2955 Model 17A. Low impedance Model. 200 ohms at 1000 cycles with built-in volume control. List, \$16.50.

YOUR PRICE **\$8.94**

Counterbalance

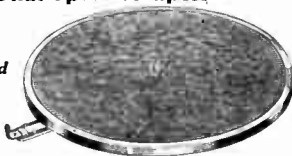
For above Webster pickups. Correct pressure for perfect reproduction of the new 33 1/3 R.P.M. records.

3D2956—List Price, \$2.00.

YOUR PRICE **\$1.05**

Diskadpt Turntable Dual Speed Adapter

For Any Phono-Motor Two Speed—33 1/3 and 78 RPM Lever Shift



12" Turntable

This new device fits any phonograph or phono motor and adapts it for playing both the new slow-speed and standard records. Consists of a 12 inch turntable and concealed speed reducing mechanism. Mechanism is simple, foolproof and durable. Installation is practically instantaneous—merely remove the old turntable and drop the Diskadpt in its place. Two screws secure the lever guide plate.

14D10870 List Price \$6.00.

YOUR PRICE **\$3.53**

Improved Automatic Record Changer

Plays and Changes Automatically Eight 10-Inch or Seven 12-Inch Records

Dual Speed 33 1/3 or 78 R. P. M.

This is the lowest priced high grade dependable Record Changer ever offered. Plays and changes a stack of eight 10" or a stack of seven 12" records automatically. Just start the motor and you have practically continuous reproduction of from 30 to 60 minutes duration. Will not get out of order and will give years of trouble-free service. Will not miss records. So reliable that it is suitable for highest grade combination Radio-Phonograph or Automatic coin operated machines. So compact it is suitable for portable systems. Minimum overall space needed, length 11", width 15", height above plate 5", depth below plate 3 1/4".

Improved 2 Speed Inductive Type Motor Plays 78 or 33 1/3 R.P.M. records. Lever shifts from one to other, simply and instantaneously. Any record may be repeated for encore. Any record can be rejected. Repeats last record until switched off. No changes required for playing manually. Simply change for 10" or 12" records. Specially designed pick-up damped for best quality reproduction. Finished in lacquered statutory bronze. Volume control and on-off switch included. Shipping weight 26 lbs.

Automatic Stop

Automatic Stop Switch can be supplied for \$3.00 net extra. Other voltages and frequencies supplied to order at slightly higher prices.



• Efficient
• Compact

• Simple
• Foolproof

14E10868—For 110 volt 60 cycle A.C.

List Price \$52.50.

YOUR PRICE **\$30.87**

Same as above but plays and changes eight 10" records automatically and 12" records manually.

14E10869—

List Price \$35.00.

YOUR PRICE **\$26.46**

The illustration shows suggested method of mounting either of the above changers.

This type of mounting is suitable for portable use or mounting in radio cabinet.



Webster New Model 10B

Reproduces Standard and Slow-Speed "Long Playing" Records

An ingenious arrangement has been built into the base of this new pickup to provide equally good reproduction of standard 78 R.P.M. and "long playing" 33 1/3 R.P.M. records. Equipped with a knob in the base which adjusts the needle weight from 5 ounces for standard records to less than 3 ounces for the "Long Playing" records. Marvellous fidelity of tone—flat response curve from the lowest to the highest musical frequencies. Extremely sensitive. Equipped with 1 7/8" Cobalt magnet, cold rolled steel pole pieces and "A" metal stylus. Lustrous bronze finish. Suitable for playing all 10 and 12" records. Supplied without volume control.

3D2957—Model 10B. High Impedance 17,000 ohms at 1000 cycles. List, \$16.75.

YOUR PRICE **\$8.95**

3D2958—Model 10B. Low Impedance. 200 ohms at 1000 cycles. List, \$17.50.

YOUR PRICE **\$9.45**

Model 4DB 16" Pickup

Provides a tone arm of proper length with which to play records of 16" diameter.

3D2959 High Impedance Model. 13,000 ohms at 1000 cycles. List Price, \$24.50.

YOUR PRICE **\$13.22**

3D2960 Low Impedance Model. 200 ohms at 1000 cycles. List Price, \$24.50.

YOUR PRICE **\$13.22**

Piezo ASTATIC Crystal Phonograph Pickup



3E2965—8" tone arm for playing 10" and 12" records. List Price \$15.00.

YOUR PRICE **\$8.82**

3E2966—12" tone arm for playing up to 16" records. List Price \$17.50.

YOUR PRICE **\$10.29**

This type of pickup is considered superior to the magnetic type because of better fidelity and more even frequency response. Frequency response is essentially flat from 30 to 8000 cycles without resonant peaks. Needle scratch and surface noises are at a minimum. Two volt output is higher than obtained with most pickups. Will operate practically any two stage amplifier at full power output. High impedance output connects direct to grid input of any amplifier. For control of volume a 5 meg control is necessary. True accentuation of low or high frequencies can be accomplished by connection of resistors in parallel or series. Due to exceptionally light weight of pickup and pressure of only two ounces at head this unit is suitable for reproduction of 33 1/3 or 78 R.P.M. records without adjustment or weights.

New Green Flyer Governor Controlled Induction Phono Motor

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



For "Long-Play" and Standard Records

New Induction type electric phonograph motor which will play both the new type slow speed and the standard high speed records. Instantly shifts from low speed 33 1/3 R.P.M. to 78 R.P.M. by simply moving lever. Centrifugal type governor speed control with wide range provides a positive means of accurate speed adjustment and maintenance of uniform speed on supply line with fluctuating voltage.

INDUCTION MOTOR—No brushes or commutator—silent operation, absolutely no radio interference. Ruggedly built, heavy cast frame, oversize self-lubricating bearings, silent running machined gears sealed in oil. Floats freely on rubber suspended mounting bracket to dampen any trace of vibration. Runs cool in operation and will not overheat in enclosed cabinet. Equipped with automatic stop switch, dial, escutcheon and pointers finished in statutory bronze. All mounting hardware included. Mounts in 8 1/2"x5 1/2" cut out. Overall dimensions of motor 8 1/2"x5 1/2". Suspends 3 1/2" below baseboard. Mounting bracket centers 3 1/2"x6 1/2". For operation on 105-120 volts 60 cycle.

14E10863—Complete with regular 12 inch turn table. List Price, \$18.50.

YOUR PRICE **\$9.60**

With New Type Weighted Turntable and Automatic-Stop Switch

14E10865—Complete with new type special weighted 12" turntable which is absolutely essential to good reproduction with the slow speed record. Automatic-stop switch included.

YOUR PRICE **\$11.40**

For 6 Volt Operation

For operation on 6 volt storage battery or any 6 volt direct current source. Especially suitable for portable public address service. Has same mechanical and operating characteristics as motor described above. Current drain 2.8 amps.

14E10864—Complete with regular 12" turntable. List Price, \$25.00.

YOUR PRICE **\$14.10**

14E10866—With weighted turntable and automatic-stop switch.

YOUR PRICE **\$15.95**

Green Flyer - 78 R.P.M. Single Speed—Governor Controlled Induction Phono Motor

Same construction as above. Furnished with 10" turntable and complete mounting hardware. No automatic stop included. Motor is rubber suspended from mounting plate. Mounts in cut out 6 1/2"x4 1/2" below baseboard. Mounts in cut out 6 1/2"x5 1/2" below baseboard. Mounting plate 6 1/2"x5 1/2". Mounting hole centers 3"x4 1/2". For 105-120 volt 60 cycle A.C.

14D10867—List Price, \$13.00.

YOUR PRICE **\$6.75**

SHURE Condenser Microphone

Bullet Type with Pre-Amplifier



Condenser Microphone, with Two Stage Pre-amplifier, two type 30 tubes, all enclosed in Bullet type case, 12 foot cable and suspension adapter.
3E2878—List. \$60.00.

YOUR PRICE
\$35.28

For Use in Broadcast Studios, Sound Recording Studios and Public Address Installations.

Free from hiss or other background noises which are present in carbon button microphones. Frequency response is exceptionally good from 37 to 10,000 cycles. Sensitivity is such that distant sounds which do not affect other type of microphones can be picked up with ease. Output level of Pre-amplifier above that of carbon mike. Sensitivity and frequency response remains constant over wide variation of atmospheric conditions. Condenser head is on swivel which allows 90 degree turn, permitting use of mike directly overhead if desired. Hook provided for overhead suspension. Threaded base allows mounting on any Shure microphone stand listed on page 107.

Current requirements 6V at 50 Ma.; 180V at 3 Ma. which can be supplied from power supply listed on page 107. Head is finished in chromium plate and suspended from baked rubber black finished case. Head 3" dia., case 3 3/4" dia. Overall height 11 1/2", shipping weight 6 1/2 lbs. Output impedance 200 or 50 ohms, please specify which is desired.

Microphone Springs

Loop ends. Tempered spring steel. Heavy cadmium plated finish to prevent rusting.
3C2949—Eight for **22¢**

Pregrooved Aluminum Discs

For Home Recording



Universal pregrooved, aluminum discs assure a greater volume, brilliancy and durability. Discs are double faced, permitting recording on both sides. Available in four sizes—6 in., 8 in., 10 in., and 12 in. diameter. Records may be made with ordinary blunt home-recording needle and play back with wood or fibre needles.

Stock Number	Size	List Price	Your Price
3C2862	6 in.	\$0.30	18¢
3C2863	8 in.	.50	30¢
3C2864	10 in.	.75	44¢
3E2861	12 in.	1.00	59¢

Blank Aluminum Discs

No grooves. Can only be used with recording heads that cut their own grooves.

Stock Number	Diam.	Approx. Playing Time	List Price	Your Price
3C2886	6	1 1/2 min.	25¢	17¢
3C2887	7	2 min.	35¢	23¢
3C2888	10	3 min.	50¢	33¢
3C2889	12	4 1/2 min.	75¢	50¢

Victor Home Recording Record Blanks

3C2890	6"	record per pkg. of 4	68¢
3C2891	8"	record per pkg. of 2	68¢
3C2892	12"	record per pkg. of 1	62¢
3C2893	—	Needles per pkg. of 8	25¢

Cellulose Coated Aluminum Disc
3E2883—12" Aluminum base record. Cellulose coated both sides. Not pregrooved.
YOUR PRICE, EACH **48¢**

Blank Celluloid Discs

3E2884	6" record—Each	9¢
	In 100 Lots, Each 7 1/2¢	
3E2885	12" record—Each	28¢
	In 100 Lots, Each 24¢	

Microphone Stand

Amazing Value! All Metal 5 1/2" Microphone Ring Stand for Desk Use. For Single or Double Button Suspension Type Microphones. 8" high. Fine appearance. Fibre snap switch in base economizes on microphone current and stops unwanted conversation pickup between numbers or announcements. Very light weight. Stamped base. Has 8 suspension springs.
3D2980
YOUR PRICE, Only **79¢**



A Practical Recording Device for Recording Favorite Radio Programs, Musical accompaniments, Home Movie Sound Effects, Transcription Programs, Advertising Talks, Campaign Speeches, etc.

It must be used in conjunction with a microphone and amplifier. Record is made on a specially prepared disc revolved by any ordinary phonograph motor, and can be replayed on any standard phonograph.

Easy to Install and Operate

One single 3/8" hole is all that is necessary to mount it. In recording, it is only necessary to move the arm to the center of the record and throw the lifting lever to the down position. This starts the recording which evenly grooves the record. 96 grooves per inch are cut which allows as long a playing time as standard phonograph records. The recorder may be operated at either 78 or 33 1/3 R.P.M. Recorder makes records that are outstanding in quality and are comparable to standard transcription records. Records are practically free from background noise and needle scratch. For best results use our stock number **14D10660** amplifier listed on page 115 together with Crystal, Velocity or Condenser Microphone.

Phonograph Record Recorder

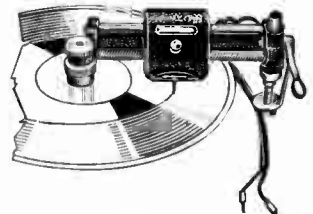
Consisting of: Center spindle; cutting head; threairer; hardware; swivel arm. No needle included.

Complete Cutting Outfit

Stock Number	Impedance of Cutter
3E2880	15 ohms
3E2881	500 ohms
3E2882	4000 ohms

YOUR PRICE

\$16.95



Input Control and Mixer

For P. A. Amplifiers
Handles Microphone, Phonograph and Radio Inputs

A complete microphone, phonograph and radio, mixer and fader, in a neat, fully enclosed and shielded impressive appearing black enameled metal case. For routing any portion of microphone, phonograph or radio signals to any Public Address Amplifier using a high impedance input. Contains: (1) double button microphone transformer; (2) 4 1/2 volt microphone battery; (3) indicating milliammeter with switching arrangement to indicate current on each button of microphone; (4) microphone current control; (5) microphone-volume, fader and mixer control; (6) phonograph or radio-volume, fader and mixer control; (7) quick change switch for shifting from radio to phonograph.

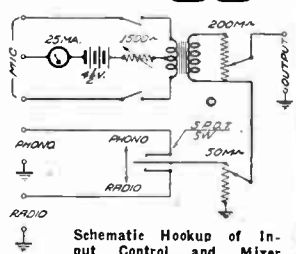
Radio or phono signal may be smoothly mixed or faded into microphone signal by proper easy handling of the two volume controls. Perfect fading from full volume to zero on microphone while fading simultaneously from zero to full volume on phono or radio can also be accomplished. Mixing of the microphone input using radio into a musical background from phonograph or radio can also be accomplished at any volume level desired. One or two single button microphones may be substituted for the double button microphone, thus permitting two separate single button microphones to be operated from two different points, as in debate work or for soloist with orchestra at a distance.

Careful, accurate engineering together with the use of properly designed component parts make this a highly efficient unit. Best quality of reproduction with greatest possible volume from input signals available, are assured.

By grounding metal case, complete shielding effect is provided. If a shielded microphone cable is also grounded to case, any transient currents that may be picked up by a long microphone cable can be eliminated. Case size 8x10x3 inches. All connections and controls plainly marked. Mounting holes provided for wall mounting.



4D10700—
List Price, \$30.00
YOUR PRICE **\$11.65**



Schematic Hookup of Input Control and Mixer

Duralumin Diaphragms

For replacement in any make, stretched diaphragm type microphone. 21 Karat cathode sputtered pure gold spot center on each side. .0018 thick. Heat treated. No harmonic distortion. Size 4 inches dia. Can be trimmed to fit.
3C2933—List Price, \$5.00.
YOUR PRICE **\$1.50**

3C2934—.001 Duralumin Diaphragm, Without gold spots. Size 4x4" for condenser microphone.
List \$1.00.
YOUR PRICE **50¢**

Gold Spotted Buttons

For replacement in any make microphone. Pure 24 Karat gold spotted. Standard size 1/4 inch diameter. Fitted with #2 screws.
3C2935—List Price \$1.25.
YOUR PRICE **60¢**

Carbon Granules

Carefully selected and highly polished. Acid treated to reduce ash content. Will stand higher current without burning. Vital contains sufficient granules to repack two double-button carbon microphones.
3D2930—Size No. 100. Higher sensitivity and higher background noise. Provides best quality reproduction but packs quite easily.
3D2931—Size No. 80. Best general purpose granules. Lower hiss, good quality reproduction and does not pack easily.
3D2932—Size No. 60. Best for sound trucks and hard usage. Low hiss, more freedom from packing, fair quality reproduction.
List Price Per Vial \$1.00.
YOUR PRICE **58¢**

Universal Recording Lead Screws

For 33 1/3 or 78 RPM Records



Exact, accurately machined lead screw. Used with properly weighted pickup and diamond or sapphire recording needle. Cuts and records simultaneously. Spaces 80 lines per inch. Only one hole required for mounting. Complete with guide, shoe and out-board housing. For 10 or 12 inch records. Records from outside to inside.
3E2836—List Price, \$10.00.
YOUR PRICE **\$5.88**

3E2837—For 16 inch Records. Records 100 lines per inch. Cuts from inside to outside.
List Price, \$15.00.
YOUR PRICE **\$8.82**

Recording Needles

Genuine Sapphire points. For use with above Recorder.
3E2894—For cutting and recording on ungrooved aluminum record blanks.
YOUR PRICE **\$2.06**

3E2895—For recording and reproducing on pre-grooved Victor or celluloid recording discs.
YOUR PRICE **\$2.06**

3E2896—For cutting and recording on ungrooved celluloid blanks.
YOUR PRICE **\$2.82**

3E2897—Fibre needles for playback of aluminum and all other records.
YOUR PRICE Per Pkg. of 100 **59¢**

RACON HORNS and UNITS

3 1/2 Ft
Trumpets



Bell 22 In. Round

14D10225—Regular: Equipped with metal beaded edge, metal ferrule and suspension ring. Adapted for 7/8"–18 inch threaded unit. For indoor use only. Weight, 6 1/2 lbs. List, \$22.00.

YOUR PRICE **\$12.94**

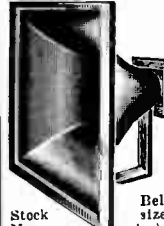
14D10226—DeLuxe: Equipped with metal beaded edge, cast aluminum ferrule and suspension ring. For indoor or temporary outdoor use. Weight, 7 lbs. List, \$27.50.

YOUR PRICE **\$16.15**

14D10227—Stormproof: Equipped with metal beaded edge, metal ferrule and suspension ring. Guaranteed for one year. For outdoor use in all climates and all weathers. Weight, 9 1/2 lbs. List, \$44.00.

YOUR PRICE **\$25.88**

Dynamic Baffles



Combination baffle and exponential air column for dynamic speakers. Increases volume and improves tone. Made in four sizes; all available for any size dynamic speaker. In ordering state diameter of speaker.

Stock Num.	Bell size, inches	Depth, inches	List Price	Your Price
14D10221	18x30	10	\$13.20	\$ 7.76
14D10222	27x27	24	33.00	19.40
14D10223	36x36	24	44.00	25.87
14D10224	44x44	24	49.50	28.11

Dynamic Baffle for Cone Unit



Correct acoustical design for use with cone dynamic units such as listed below. Projects sound over greater distances than conventional type of baffle. Gives effective baffle area equivalent to 16 square feet. Reproduces low frequencies down to 58 cycles perfectly. Horn diameter 22 inches overall length including box 24 inches, box houses 6 inch cone.

Regular: For indoor installations or for temporary use out of doors.

14E10712—List Price, \$13.50. **YOUR PRICE** **\$7.94**

Stormproof: For indoor or permanent outdoor installation.

14E10713—List Price, \$18.00. **YOUR PRICE** **\$10.58**

Note: We supply any type Racon Horn at discount of 40-2% from list price. Send us your order for any horn not listed.

Public Address Cone Unit For Use With Above Trumpet



6" Cone Diameter
Has the power handling capacity of the dynamic unit yet retains the full rich tone of a cone speaker. Adapted for use with directional baffle in installation where sound must be transmitted over a great distance. Oversize field coil and correct spacing of voice coil with reference to field make this unit exceptionally sensitive giving a high ratio of acoustic output to electrical input. Cone is made of an especially tough paper that will handle enormous volume without breaking down. Extremely flexible spider allows full movement of cone yet keeps it perfectly centered at all times. Will handle 15 watts continuously and 30 watts peak. Voice coil impedance 6 ohms, V. C. diam. 1 1/2". Overall size 6 1/2" dia. by 5 3/4" deep. Shipping weight, 10 lbs.

14E10716—With 1000 ohm field dissipating 10 watts in field. Can obtain field supply from Radolek 6, 15 or 30 watt A.C. Amplifiers.

14E10717—For 6-8 Volt field excitation for use with Radolek Battery Amplifier. Draws 1 1/4 amperes at 6 volts.

List Price Each, \$25.00. **YOUR PRICE, EACH** **\$11.85**

Electro-Dynamic Horn Units

For Use on Trumpets or Theatre Reproducers

Super-Giant

Type B Diaphragm
1000 ohm field for 110 V. D.C. excitation. 15 ohm voice coil impedance at 1,000 cycles. Continuous operating capacity 25 watts. Peak load capacity 50 w a t s. Particularly adapted for theatre and auditorium use where the finest quality reproduction is required. Weight 20 pounds.

14D10235—List Price, \$66.00. **YOUR PRICE** **\$38.81**



Master

1000 ohm field for 110 V. D.C. excitation. 15 ohm voice coil impedance at 1,000 cycles. Continuous operating capacity 20 watts. Peak load capacity 50 watts. Lightweight hi-powered unit especially suitable for portable systems and permanent installations where heavier units are not required. The perfect reproducer. Weight 13 1/2 pounds.

4D10237—List Price, \$44.00. **YOUR PRICE** **\$25.87**

Junior

1000 ohm field for 110 V. D.C. excitation. 15 ohm voice coil impedance at 1,000 cycles. Continuous operating capacity, 15 to 20 watts. Peak load capacity, 50 Watts. Weight 11 pounds.

4D10238—List Price, \$35.75. **YOUR PRICE** **\$21.00**



Type A Baby Unit

1000 ohm field for 110 V. D.C. excitation. 15 ohm voice coil impedance at 1,000 cycles. Continuous operating capacity 5 watts. Peak load capacity 18 watts. Weight 6 1/2 pounds.

4D10239—List Price, \$24.75. **YOUR PRICE** **\$14.55**



High Frequency Tweeter

Built to meet the latest requirements for wide range reproduction. Covers frequency band from 3000 to 10,000 cycles. When used in conjunction with dynamic speaker giving good low frequency response high fidelity reproduction is obtained over the entire audio band. Field resistance 1000 ohms for 110 volt D.C. operation. Voice coil impedance 15 ohms and will handle 5 watts continuously with 7 watts peak. Size 6 3/4" long overall. Horn bell 3" dia.

4E10714—List Price, \$27.50. **YOUR PRICE** **\$16.17**



Two Path Filter Network

For coupling above speaker and low frequency dynamic speaker to 500 ohm output of amplifier. One path cuts off sharply at 3000 cycles for low frequencies. The other path is from 3000 cycles up for high frequencies. Shipping weight 3 lbs.

4E10715—List Price, \$20.00. **YOUR PRICE** **\$11.76**

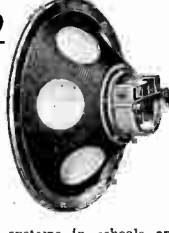
All of the above horn units can obtain field supply direct from the Radolek 6, 15 or 30 watt A.C. Amplifiers. 6 volt fields for obtaining field current from storage battery can be supplied at no extra cost. Specify field desired when ordering.

Magnetic Speaker Chassis

8 3/4" Diameter

4D10450—**\$189**

The unit is of the balanced armature type and is magnetically and mechanically centered. Will stand 0.7 watt power input without rattling. An ideal speaker for original installation in battery set or for use as an extra extension speaker, with sets using dynamic speaker. An excellent speaker for use in public address systems in schools and hotels or for call systems. Makes an ideal magnetic unit to use in the walnut cabinet shown on page 41. Perforated rigid steel frame with mounting holes in outer diameter. Excellent tone quality with true fidelity. D. C. resistance of speaker winding 1000 ohms. Diameter 8 3/4". Depth 4 3/4". No cord included.



Outdoor Speaker Housing

Weatherproof Spun Copper

14D10720

List Price

\$7.50.

Your Price **\$4.41**



A spun copper outdoor speaker housing with built-in baffle. Designed to fit all dynamic and magnetic speakers occupying a space not over 11" diameter and not over 5 1/2" depth. The most suitable speaker for the market for any outdoor use, as in parks, skating rinks, dance pavilions, beer gardens, and "over the sidewalk" store advertising. Special oiled Masonite Presswood baffle with copper mesh "bug" screen over speaker opening. Arranged with special quick mounting slots for "locking" speaker into place. Weatherproof vent hole at top of housing for speaker leads and air circulation. No "boom" or resonant distortion. Four rigid eyelets for use with wire suspension. Effective baffle area equal to 30 square inches. Operates best when used 12 to 15 feet above ground level. Overall diameter 16 1/2". Body diameter 11" tapering to 8". Height overall, 7 1/2".

25 Watt Electrodynamic Unit

A departure in power unit design which embodies the most valuable characteristics of flat and cone shaped diaphragms. Extraordinary flat response over the entire range of speech and musical frequencies. Quality is unusually natural and brilliant. New cone pleated diaphragm of special light alloy is shaped to form its own core for the voice coil. Voice coil and diaphragm located for maximum sensitivity and assembled as an integral unit. Capacity 25 watts input not to exceed 15 volts A. C. at 2 amps. Voice coil impedance—1 ohms. Field requires 15 amps at 6-8 volts. Powerful—exceptionally high ratio of energy transformation. Precisely built. Pot has durable baked crackle finish. Outer pole face plate bright chrome plated. Wt. 15 lbs.

14D10240—Without Coupling Transformer. List \$49.25. **YOUR PRICE** **\$29.55**

6 Foot Aluminum Trumpet

Single or Double Throat
30 in. Bell



Demountable into four sections with felt washers between sections equipped with cast aluminum throat, sturdy clamping edges and re-inforced 30" bell rim. Proper acoustic design to reproduce the full wide range response. Brilliant tone. Strong, light and weatherproof.

14D10219—Single Throat Horn for One Unit. List Price, \$55.00. **YOUR PRICE** **\$29.40**

14D10220—Double Throat Horn for Two Units. List Price, \$65.00. **YOUR PRICE** **\$38.20**

Victor and Columbia

Double Faced Records

Electrically Cut

Many Popular Current Recordings

4E10736—Assortment of 25 records. **YOUR PRICE** **\$255**

Sold only in assortments of 25 records each. All records are genuine Victor and Columbia products. Not second. No factory rejects are included. Perfect recordings by famous Columbia and Victor artists. Fox-trots, Waltzes, Vocals, Tangoes, Bands, Marches by Paul Whiteman, Ted Weems, Nat Shilkret, Victor Salon Orchestra, George Olsen, Jesse Crawford, Gene Austin, Fanny Brice, Duke Ellington, and others too numerous to mention. We ship these records to you in the exact assortments we receive from the factory. Will not be possible for us to state at any time exactly what numbers are included in each assortment.

Use for Public Address Applications

Although these records are not last minute releases there will be many current popular numbers. Especially suitable for sound truck work and automatic phonograph service.



Jensen Electro Dynamic New Auditorium Speakers

Baffle Opening 12"—Cone Size Overall 13 1/8"



These fine reproducers are 400% more efficient than conventional types. Adding one of them to an amplifying system is the equivalent of using type 50 tubes instead of 45's, or using 845's in the place of 50's. They provide the most economical means of greatly increasing the power output of the system without adding to the cost of the amplifier itself. Capable of carrying 15 watts, continuously (30 watts peak load) with perfect fidelity at any volume level. Voice Coil Impedance 8 ohms or 200 ohms at 100 cycles. Diam. of voice coil 2 1/2". Ship. Wt. 57 lbs. for A.C. models and 48 lbs. for D.C. models. Power dissipation of field 33 watts; voice coil 15 watts. Ht. overall 13-22/32, depth 8 7/8".

Three Exactly Engineered Models

Series M designed for general use. Uniform response characteristic from 30 cycles up. Particularly recommended where the reproduction of music is the chief requirement.

Series V intended chiefly for Voice reproduction most efficient in the upper frequencies and somewhat less efficient in the low frequencies. Very desirable for theatre and public address systems.

"D.C." Type—For field excitation from 6 volt battery.

8 ohm Voice Coil		200 ohm Voice Coil	
Number	Series	Number	Series
14E10300	V	14E10303	V
14E10301	M	14E10304	M
14E10302	L		

Less output transformer.
List Price, \$48.50.
YOUR PRICE \$33.27

"A.C." Type
Field excitation from rectified 105-120 volt 60 cycle A.C. supply. Rectifier unit with type 82 tube included.

8 ohm Voice Coil		200 ohm Voice Coil	
Number	Series	Number	Series
14E10306	V	14E10309	V
14E10307	M	14E10310	M
14E10308	L		

Less output transformer.
List Price, \$73.50.
YOUR PRICE \$50.43

Series L used mainly in conjunction with "Tweeter" speaker for "wide range" sound reproduction. Best efficiency in the lower frequencies and somewhat less efficient in the higher frequencies.

All types available for use with any output tube combination or any line impedance—Be sure to specify tubes used and how they are connected, when ordering.

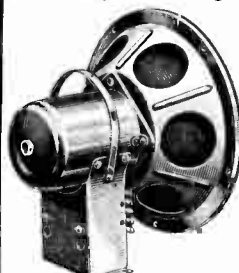
"D.C." Type—For field excitation from Amplifier. Supplied with 3,000 ohm resistance field—the correct resistance for Radolek 15 and 30 watt A.C. Amplifiers. Other field resistances can be supplied to your specifications. No input transformers included.

8 ohm Voice Coil		200 ohm Voice Coil	
Number	Series	Number	Series
14E10312	V	14E10315	V
14E10313	M	14E10316	M
14E10314	L		

Less output transformer.
List Price, \$48.50.
YOUR PRICE \$33.27

Output Transformer
Output transformer to match 3 ohm voice coil speakers listed.
4E10318—List Price, \$3.00.
YOUR PRICE \$1.76

OXFORD AUDITORIUM Super Dynamic Speakers



Particularly designed for Public Address use where a large amount of power output must be handled to produce best quality reproduction of both voice and music. New one piece cone with special resilient micaarta spliter maintains the voice coil in perfect alignment regardless of expansion or contraction of cone diaphragm with temperature changes. Voice coil impedance 8 ohms. Exceptionally wide frequency response especially when mounted on large baffle. Speaker voice coils can be connected direct to output transformer of amplifier when used not over fifty feet away. When used at greater distances it is advisable to use 500 Ohm line matching transformer 3E4360—Listed on page 10 to couple speaker to 500 ohm output tap on amplifier.

Concert Auditorium

These models have a pleasing depth and brilliance of tone which is only possible because of the intense magnetic flux provided by the extra large field.

Voice coil handles 15 watts continuously with 24 watt peak. Voice coil impedance 8 ohms. Field should have 15 watts for best operation.

Sizes
12 1/2" Concert—Height 12 1/2" depth 11 1/2", baffle opening 11". Wt. 14 1/2 lbs.
14" Concert—Height 14", Depth 10 1/2", baffle opening 12 1/2". Net weight 16 1/2 lbs. Ship. wt. 19 lbs.

Prices D. C. Types

For field excitation from amplifier. Concert Models supplied with 1500 ohm resistance field. Junior Models supplied with 1000 ohm resistance field. Other field resistances can be supplied to your specifications. No output transformers included.

Stock Number	Model	List Price	Your Price
14E10630	12 1/2" Concert	\$8.50	\$5.50
14E10631	12 1/2" Junior	5.85	3.85
14E10632	14" Concert	9.85	6.85
14E10633	14" Junior	6.95	4.95

Output Transformer

Output transformer to match voice coil of A.C. or D.C. Oxford speakers to any output tube combination or line impedance. Be sure to specify tubes used and how they are connected.
4E10645—List, \$2.00.
YOUR PRICE 65¢

Junior Auditorium

Same construction as Concert Speaker, but uses a smaller field and is therefore not quite as sensitive as the Concert model. Recommended for installations where several speakers are to be used to divide power from amplifier. Voice coil handles 10 watts continuously and 15 watts peak. Voice coil impedance 8 ohms. Field should dissipate 10 watts for best operation.

Sizes
12 1/2" Junior—Height 12 1/2", depth 8", baffle opening 11", net weight, 9 1/2 lbs. Shipping weight, 13 lbs.
14" Junior—Height 14", depth 9", baffle opening 12 1/2", net weight, 11 1/2 lbs. Shipping weight, 14 lbs.

Prices D. C. Types

Stock Number	Model	List Price	Your Price
14E10635	12 1/2" Concert	\$8.50	\$5.85
14E10636	12 1/2" Junior	5.85	3.85
14E10637	14" Concert	9.85	6.85
14E10638	14" Junior	6.95	4.95

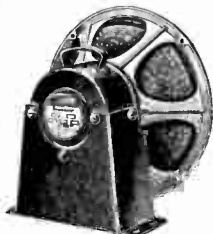
Prices A. C. Types

Field excitation from rectified 105-120 volt 60 cycle A.C. power supply. Rectifier unit with type 80 tube included.

Stock Number	Model	List Price	Your Price
14E10640	12 1/2" Concert	\$13.05	\$11.25
14E10641	12 1/2" Junior	11.25	9.45
14E10642	14" Concert	15.75	12.85
14E10643	14" Junior	12.85	10.85

New Jensen Ortho-Dynamic Series

The Speaker without Transient Distortion—25% More Efficient than Ordinary Speakers



An exceptionally fine reproducer for either public address or radio uses. Response curve unusually flat from 30 to 5500 C.P.S. 12 watts input continuously, 18 watts peak. Field 15 watts average. Minimum 12 watts. Voice coil diameter 2". Voice Coil Impedance 8 ohms or 200 ohms at 400 cycles. 200 ohm voice coil connection can be used with amplifiers having 200 ohm output tap when speaker is located at a distance of over 50 feet from amplifier. No intermediate transformer is necessary. Ship. wt., A.C. Model, 34 lbs., D.C. Models, 27 lbs., Cone diameter 12". Overall height 12 3/4", depth 7 1/4".

"D.C." Types
For field excitation from Amplifier. Supplied with 1500 ohm resistance field—the correct resistance for Radolek 15 and 30 watt A.C. Amplifiers. Other field resistances can be supplied to your specifications. No input transformers included.

8 ohm Voice Coil		200 ohm Voice Coil	
Number	Series	Number	Series
14E10320	V	14E10323	V
14E10321	M	14E10324	M
14E10322	L		

Less output transformer.
List Price, \$34.50.
YOUR PRICE \$23.67

For field excitation from 6 volt battery.

8 ohm Voice Coil		200 ohm Voice Coil	
Number	Series	Number	Series
14E10326	V	14E10329	V
14E10327	M	14E10330	M
14E10328	L		

Less output transformer.
List Price, \$34.50.
YOUR PRICE \$23.67

"A.C." Type
Field excitation from rectified 105-120 volt 60 cycle A.C. power supply. Rectifier unit with type 82 tube included.

8 ohm Voice Coil		200 ohm Voice Coil	
Stock Number	Series	Stock Number	Series
14E10332	V	14E10335	V
14E10333	M	14E10336	M
14E10334	L		

Less output transformer.
List Price, \$51.50.
YOUR PRICE \$34.35

Available for use with any output tube combination or line impedance. Be sure to specify tubes used and how they are connected when ordering.

Input Transformer
Input Transformer to match 8 ohm voice coil speakers listed.
4E10338—List Price, \$2.00.
YOUR PRICE \$1.37

NOTE: The Three Series listed correspond to those described above, under the New Auditorium Model.

ROLA Permanent Magnet Dynamic Speaker



Requires no field current. Especially designed for use in public address installations where it is impractical to supply energy for the field coil. Sensitivity and tone fidelity are comparable to that of the finest dynamic speakers. Vital parts shielded against the entrance of metallic particles and dust. An entirely new construction of the magnetic core gives greatly increased flux density and greater power handling capacity. Welded construction which is used throughout. Connections can be made direct to voice coil or if used on 500 ohm line use matching transformers listed on page 109.

Model PM6
Voice coil impedance 3 ohms, power handling capacity 5 watts continuous. Overall depth 3 1/2 in. Baffle hole projects 3/8 in. from edge of cone. Overall depth 3 1/2 in. Baffle hole should be 5/8 in. diam. Shipping weight, 8 lbs. Less transformer.
4E10620—List Price, \$10.00.
YOUR PRICE \$5.75

Model PM8
Voice coil impedance 2 ohms, power handling capacity 6 watts continuous. Overall cone diam. 8 1/2 in. Magnet projects 3/8 in. from edge of cone. Overall depth 4 1/2 in. Baffle hole should be 6/8 in. diam. Shipping weight, 11 lbs. Less transformer.
4E10621—List Price, \$12.00.
YOUR PRICE \$6.75

Jensen Concert Model D9 Speaker

Voice coil dia. 1", impedance 9.4 ohms. Capable of carrying 6 watts continuously (9 watts peak load). Field coil necessitates 5 watts minimum and 10 watts maximum dissipation included.

ton for best operation. Size 11 1/2" high, 11 3/4" wide, 5 1/2" deep. re-power continuously (9 watts peak load). weighs 10 1/2" baffle opening. Shipping weight, 9 1/2 lbs. No output transformer included.

Stock Number	Field Excitation	Field Ohms	List Price	Your Price
14E10340	From Amplifier	500	\$14.75	\$9.95
14E10341	From Amplifier	1000	14.75	
14E10342	6 v. Battery	4		
14E10343	Rectified A. C.	1000	29.25	\$19.95

4E10344—Output Transformers for Model D9 Speakers. Be sure to specify power tubes used.
List Price, 75¢.
YOUR PRICE 49¢

Cone Size 1 1/2" Inches

BUILD Your Own P.A. AMPLIFIER

Educational—Profitable

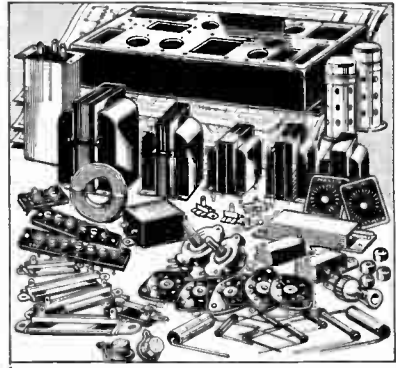
Building an amplifier—Testing it with your own voice, adding the little touches that distinguish custom-built products, proudly showing it to your customers,—it's the most fascinating experience in the radio business.

Following the design as you solder each wire in place, you see the reason for its position, the part it plays in the finished circuit. You learn more about an amplifier by building one than all the text books on the subject could teach you.

Make a Triple Profit: On every Radolek P.A. system you build, you profit by your mark up on labor, the resale of the parts at list price and the sale of accessories which should accompany every installation. Our low prices provide you with ample margin for profit and at the same time permit you to bid competitively for amplifier business.

Big Market For P. A.

Build Radolek P.A. Amplifiers in your spare time. Turn out these fine professional appearing amplifiers and add \$20 to \$50 a week to your income. Every merchant, every place of entertainment, ball-parks, races, political gatherings, schools and churches need public address amplifiers. Are you ready to supply their needs? Many men are renting amplifiers and including their own services for every big gathering. You too can be on the "sidelines" at the big football games, the interesting sports events, at all the big banquets when you rent your Radolek Custom Built P.A. system and personally operate it.



Easy to Assemble and Wire

Point to Point wiring, color coded Resistors, plainly marked Condensers and a convenient roomy chassis to work in.

Every Part You Need

Plus a generous supply of hardware and wire. You need only a screw driver, pliers and soldering iron to build these kits.

6 Watt Battery Amplifier Kit

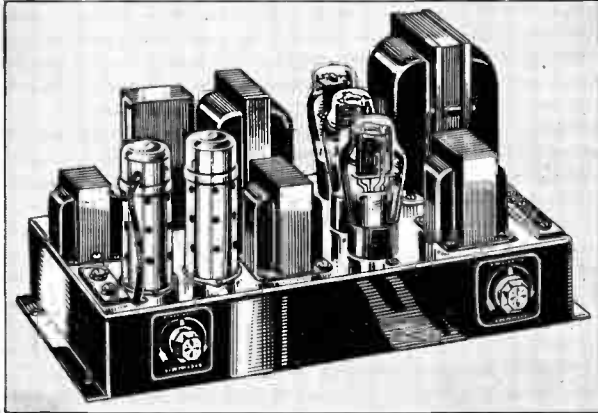
For 6 Volt Battery operation with either Genemotor or "B" batteries. Plenty of output for sound trucks. For location where commercial power supply is not available. Push-Pull 12 tubes. Two or three 6 volt field speakers are recommended.

Input to the 6 watt battery operated amplifier is of the high impedance type exactly like that shown for the 15 and 30 watt amplifiers. Employs tone and volume controls. Reoutlets 1-39, 1-37, and 2-12 tubes.

Complete technical details of this amplifier as a finished manufactured unit is given on page 120. Kit is supplied with instructions for building.

14E10694—Complete kit less Tubes. **YOUR PRICE \$14.50**

14E10695—Same with Raytheon Tubes. **YOUR PRICE \$17.45**



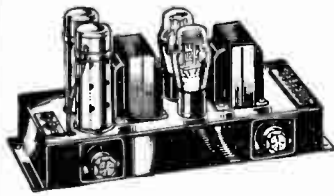
Push-Pull 2A3-15Watt A. C. Power Amplifier

For 115 Volt, 60 Cycle A.C. This powerful amplifier, capable of delivering 15 watts of audio power to a battery of dynamic speaker fields, is the most popular type kit Radolek offers. It is easy to assemble and smooth in operation. Independent of its filter circuit, it supplies 30 watts of D.C. for dynamic speaker fields. Completely described on page 117 as an assembled unit.

Kits contain every part for the amplifier proper—speakers, microphones, input mixers and wire should be selected elsewhere in this catalog. Requires 1-57, 1-56, 1-5Z3, and 2-2A3 tubes.

14E10697—Complete without Tubes. **YOUR PRICE \$24.50**

14E10698—Complete with 5 matched Raytheon Tubes. **YOUR PRICE \$28.90**

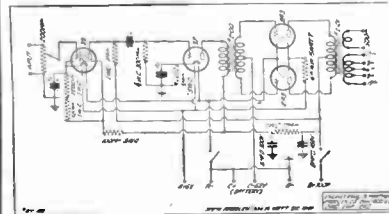


15 Watt Battery Kit

For your sound truck! A powerful amplifier kit for use with a Genemotor "B" supply and 6 volt storage battery. Excellent for all mobile installations where regular A.C. supply is not available. Amplifier requires 1-39, 1-37 and 2-2A3 tubes. 72 D.B. gain, 15 watts output. For complete technical description, see page 120 where the same amplifier in finished tested form is listed. Kit includes amplifier essentials only.

14E10696—List Price, \$32.50. **Amplifier Kit. YOUR PRICE \$16.50**

14E10691—Complete Kit Parts for 15 Watt Battery Amplifier with Four Matched Raytheon Tubes. **YOUR PRICE \$20.10**



Schematic 15 Watt Battery Amplifier

FEATURES of Radolek P. A. Amplifier Kits

- Heavy steel chassis base, drilled to exactly fit each part supplied with the kit. Finished in tough baked on black enamel.
- Smooth tone and volume control on each amplifier.
- Best quality filter condensers and power transformers. Oversize choke inductances.
- Practically uniform audio output over the widest frequency range of any similar type amplifier.
- Lowest hum level of any commercial type power amplifier.
- Complies with all fire and underwriters requirements.
- Etched metal indicating plates for the volume, and tone, controls.
- Ample provision for ventilation.
- Simplified circuit for external connections.
- Complete plans with values of all parts supplied.
- Matched parts, designed to work together with the greatest possible efficiency.
- Each kit supplied complete with every item just as if we ourselves intended to build it.

5 Watt 2B6 Amplifier Kit

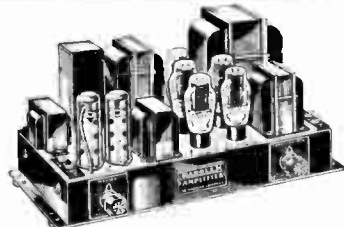
For 115 Volt 60 Cycle A.C.

Complete Kit less tubes and speaker. **14E10692**—List, \$24.40. **YOUR PRICE \$8.95**

With Arcatrus Tubes and 8 1/2" Matched Speaker **14E10693**—List, \$35.25. **YOUR PRICE \$13.80**

More than twice the power and volume of radio receivers using push-pull 45 tubes! You must hear this amplifier to appreciate its amazing performance. You must build it yourself to get the real thrill out of using it. When you sell it, you make the regular manufacturer's profit along with the normal markup on the parts and accessories. Center-tapped transformer for single or double button microphone mounted on deck of chassis. Complete technical details of the finished amplifier appear on page 122.

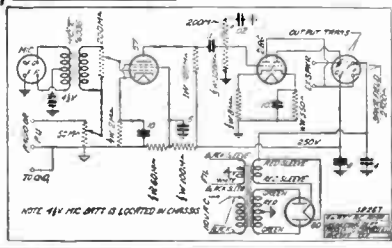
Any four to six watt, 2,500 ohm field dynamic speaker with a 2B6 matching transformer is suitable for this amplifier. For operating several magnetic speakers on a 500 ohm line, we recommend use of a 3:1 step-down output transformer.



Parallel P. P. 30 Watt 2A3 Kit

The Biggest and Best Amplifier Kit you can build! See Page 119 for technical details of assembled amplifier. Circuit diagram supplied in large blueprint form with all values given and with complete instructions for building. Requires 1-57, 1-58, 1-5Z3, and 4-2A3 tubes. For 115 V. 60 Cycles A.C. **14E10683** Complete Par. P. P. 2A3 Kit less tubes and shield. **YOUR PRICE \$33.50**

14E10684—Same with seven matched Raytheon Tubes. **YOUR PRICE \$40.00**



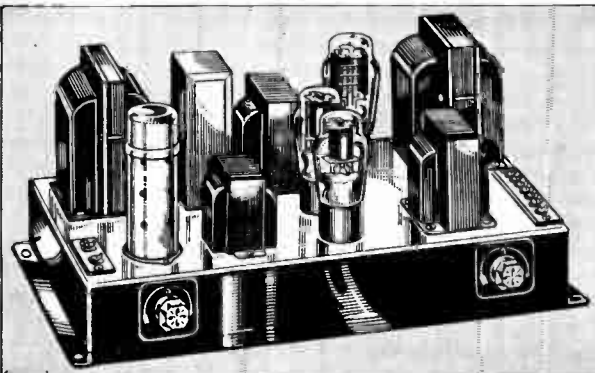
Highest Efficiency
at Lowest Cost

6 WATT A. C. "P. A." AMPLIFIER

- Two Stages
- Push Pull 2A5'S
- Improved Class "A"
- Tone Control
- Five Out-Put Taps
- Master Volume Control
- 10 Watt Speaker Field Supply

Finest Quality At Low Cost

This amplifier is very similar in design to the 15 watt job shown on the opposite page. Quality of reproduction is in every way equal to the 15 watt, the big difference being in output capacity. At maximum power, amplifier will cover indoor audiences of 600 people or about 3000 square feet outdoors. These figures are conservative and are based on tests made with high noise backgrounds. Under ordinary noise conditions about twice this coverage can be expected. Amplifier will operate one single large dynamic speaker or two or three smaller ones, or one dynamic horn unit; or 12 magnetic speakers; or 100 headphones; or any proportionate combination of them. When using one dynamic speaker, it can be placed in front of the audience; or three dynamic speakers can be placed back to back in the center of audience, to give a more even distribution of sound.



Amplifier Characteristics

1.—6 Watts undistorted Power Output to speaker voice coils.—2.—Supplies 10 watts for thousand ohm field coils (enough for one large dynamic with 1000 ohm field or two smaller ones in parallel with 2,000 ohm fields).—3.—Two Stages with four tubes, 1-56 transformer coupled to 2-2A5's in push-pull. Type 80 Rectifier.—4.—60 D. B. Gain at 1000 cycles.—5.—Practically Flat Frequency Characteristic Curve within 3 D. B. from 50 to 8,000 cycles.—6.—Input impedance 200,000 ohms.—7.—Master Volume Control with etched metal indicating plate.—8.—Combined Tone Control and On-off Switch.—9.—Output Impedance Tapped at 3, 6, 9, 15 and 500 ohms. Connections brought

out to bakelite strip with valves engraved at each binding post.—10.—1.1 volts input signal required to obtain maximum output.—11.—Hum level less than 10 milliwatts (almost below the audibility point).—12.—Power Consumption 98 watts.—13.—Power Supply required 105-120 volts, 50-60 cycle A. C.—14.—Six foot super service connection cord with unbreakable rubber attaching plug.—15.—Renewable Glass Fuse in power supply.—16.—Bottom protecting plate with four rubber feet entirely encloses base.—17.—Amp provision for ventilation.—18.—Rich Baked-On Black Enamelled finish.—19.—Overall height 7"; Base width 9", length 16", height 2 3/4".—20.—Net wt., 20 lbs., ship. wt., 35 lbs.

Prices
14E10660—Factory wired, laboratory tested without tubes.
List Price, \$45.00.

YOUR PRICE **\$21.50**

14E10661—With four Raytheon matched Tubes, 1-56; 2-2A5's; 1-80.
List Price, \$50.00.
YOUR PRICE **\$24.00**

For installation in recording studios, clubrooms, small auditoriums, small call systems, lodge halls, De Luxe phonograph installations, school rooms, etc.
Layout and schematic diagrams giving all essential specifications and information are included.

Carefully Designed

Highest efficiency is engineered into every minute detail. Ample ventilation keeps operating temperature at lowest point. All transformers, chokes, main filter condensers and voltage amplifier tubes are fully shielded. The skillful engineering and careful design have reduced hum so low that hum noise is practically inaudible even within a few inches of speaker with volume control full on but with no input connected. All wiring and parts easily accessible. Layout diagram, showing exact position of each wire and part, together with schematic hookup, are furnished. All parts used are standard. Diagram gives all essential specifications of each part, eliminating guess work in replacement and making repairing quick and easy. In addition to the diagrams a comprehensive instruction sheet for the assembly of a high quality sound system is included with each amplifier.

Carrying Case For 15 Watt Amplifier



14E10673
List Price, \$12.50.
YOUR PRICE **\$5.75**

Holds amplifier with or without shield. Amplifier can be bolted permanently to bottom tray or left loose as desired. Extra room for carrying control unit and microphone in addition to amplifier. Strongly reinforced, rigid laminated ply-wood construction. Handsome black leatherette covering.

For Microphone or Phonograph Amplification

Phono-pickup, of high impedance type, may be connected directly to amplifier input. When using microphone it is necessary to use control unit like stock number 4E10700 described on page (111) or suitable microphone transformer. Control unit can also be used for mixing or fading phonograph with microphone.

Master Volume Control

Gives complete control over all inputs. Tone control and On-off switch combined, is mounted on amplifier chassis. Beautifully etched control plates are mounted under both volume control and Tone control on-off switch.

For Recording

Extremely low hum level and straight line fidelity characteristics make this amplifier particularly desirable for recording Programs. Sound effects for Broadcasting purposes, home talks, advertising talks, political speeches, etc. Fine results can be obtained if balance of equipment used is of good quality.

Heavy Duty Chokes

are built into amplifier. D.C. dynamic speaker field coils are not a part of the filter system in this amplifier. No external chokes or resistors are ever required.

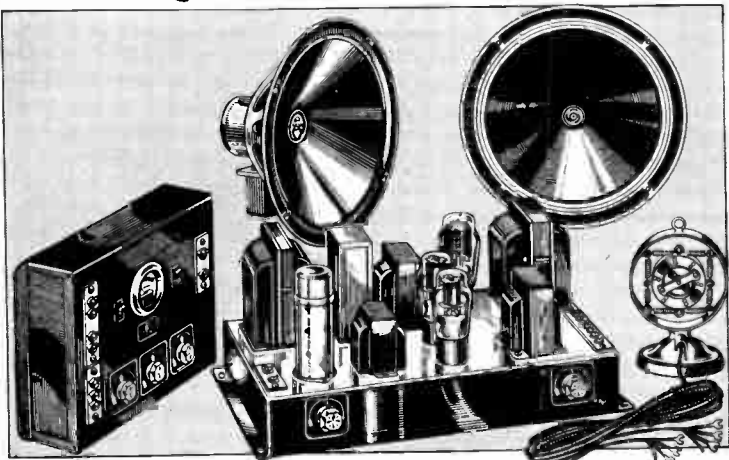
Installation Shield For 6-Watt Amplifier

14E10672
List Price, \$8.00.
YOUR PRICE **\$4.60**



Heavy sheet metal perforated shield. Should be purchased with each amplifier or complete system. Prevents tampering with unit or theft and accidental breakage of tubes. Enhances appearance and adds greatly to value of amplifier.

Components for Complete 6 Watt "P. A." System



Equipment Included

6 watt Amplifier, described above.—Four Raytheon Tubes, 1-56, 2-2A5, 1-80.—Input Control Panel (fully described on page 111).—Two 11 inch dynamic cone speakers.—Ten foot 2 conductor shielded microphone cable.—Ten feet single conductor shielded cable for connecting Input Unit to Amplifier. Fine quality double button carbon microphone with eight springs and microphone desk stand.

14E10662—Complete Outfit.
List Price, \$90.00.
YOUR PRICE **\$49.95**

14E10664—Same equipment as above but with Universal Floor Stand and Shure Model 22B Microphone.
List Price, \$125.00.
YOUR PRICE **\$62.70**

For 105-120 Volt 50-60 Cycle A.C. Current Supply

For store advertising, call systems, inter-office communication, vaudeville acts, restaurant order systems, churches, lodge halls, etc. Especially adapted for average sized automobile or truck sound installations. Volume and quality of reproduction are such that voice and music will attract attention and be distinctly understood for a city block in residential districts. The 100 watt Powerack converter listed on page 124, obtaining power from car motor can be used as amplifier power source.—System at maximum output has sufficient volume to cover an indoor audience of 900 people or an outdoor area of about 4000 square feet. May be installed wherever 105-120 volt 60 cycle A.C. is available. Microphone or phonograph can be amplified through this system. Master volume control is mounted on chassis, giving control over all inputs.

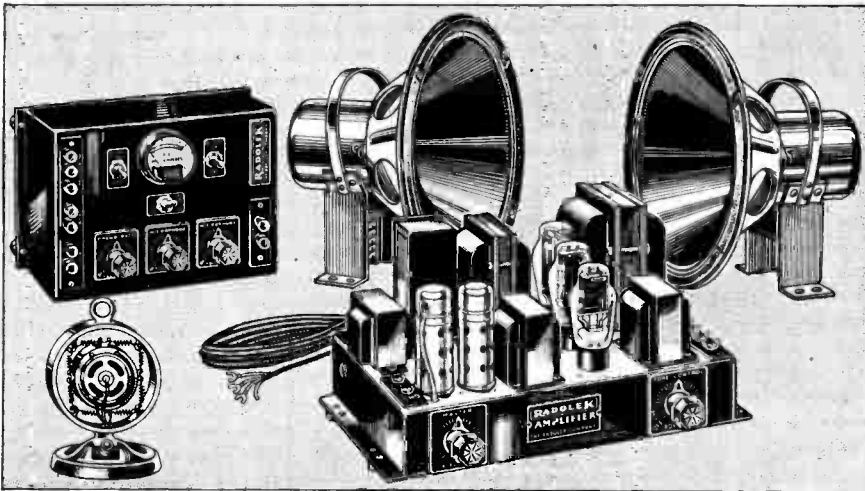
Mixer Unit Gives Perfect Control

Input control unit is supplied for connection of above sound sources to amplifier. Meter and switching system is incorporated in input unit for reading current on either or both buttons of microphone. Controls on unit enable mixing or fading from microphone to phonograph. A pleasing and novel effect can be obtained by providing a musical background for voice. This feature is a splendid advantage for home entertainment or advertising stunts. Output is tapped for various connection combinations to speaker voice coils or 500 ohm line. Two 500 ohm field dynamic speakers are supplied obtaining their field supply direct from amplifier. Two additional dynamic speakers may be used and placed back to back with speakers in system to give a more thorough coverage of the area to be amplified with sound. This must obtain their field supply from an outside source such as A.C. line or 6 volt storage battery. Heavy duty chokes are built into amplifier, hence D.C. dynamic speaker fields are not a part of filter system. This makes it possible to substitute up to 12 magnetic speakers or 100 headphones in place of dynamic speakers. Without connection of external resistors or chokes, magnets or headphones can also be used in conjunction with dynamic speakers in any proportionate combination. Speakers may be operated at any distance from amplifier, the only limiting factor being the resistance drop in the connecting wires used and the resultant power loss.

How to Plan
A Complete

15 WATT "P. A." SYSTEM

For 105-120 Volt 60 Cycle A.C. Supply



USING

- Three Stage 15-Watt Amplifier
- Five Raytheon Tubes
- Input Control Panel
- Two DC Auditorium Dynamic Speakers
- 50 Ft. Shielded Microphone Cable
- Shielded Input Cable
- Double Button Carbon Microphone
- Microphone Stand

All These Component Parts

ONLY!

Equipment listed above.
14E10674—
List Price, \$139.00.
YOUR PRICE.

\$69⁵⁰

Amplifier used is completely described on page 117.

Speaker and microphone cables are listed on page 97.

500 ohm line to speaker voice coil transformers listed on page 109.

Optional Equipment

Installation Shield



Is recommended for use with complete system. It adds to appearance and installation and gives

extra protection. Allows plenty of ventilation to amplifier. Listed and described on opposite page.

Mike and Stand

The above system will give excellent results in practically all cases, but where better reproduction is required we recommend the use of a higher quality microphone. The balance of the equipment is suitable for the very best systems.

Shure Model 22B Microphone and floor stand instead of mike and stand listed above.

3E2942—List Price, \$35.00.

Your Price, **\$12.65**

Available at this price only when purchased with above system. Add \$12.65 to the total purchase price of \$69.50 specified.



Amplifier Carrying Case

For use in transporting amplifier from one installation to another. Bottom tray is so constructed that amplifier may be attached permanently. All controls and connections are readily available. Will fit 30, 15, or 6 watt amplifier with or without installation shield. With amplifier in case there is enough additional room for carrying control unit and microphone. Beautiful black fabric covering. Solid laminated plywood construction throughout, strongly reinforced corners and handle. Positive hinge fasteners. Size 21 3/4" long, 11 3/4" wide, 12 3/4" high.

14E10673—
List Price, \$12.50.
YOUR PRICE **\$5.75**

Make BIG PROFITS. Sell and Rent P. A. Systems for

- ATHLETIC FIELDS
- DANCE HALLS
- SOUND TRUCKS
- AUDITORIUMS
- CHURCHES
- SCHOOLS
- HOTELS

Sell a complete amplifier! Your customer will want more than just an amplifier—results are what will bring you quick payment and profits. "COMPLETE, ready to use" should be your sales slogan. Essential parts of the Radolek 15 Watt system are listed on this page. In addition you will need wire, additional microphones on large installations, phono pickups, phono-record turn tables, remote monitor speakers, "T" pad attenuators where speaker control is desired. Everything you may need is listed in this catalog. Allow yourself a generous profit on every item you sell. Your market includes Auditoriums, Parks, Churches, Schools, Rectories, Ballrooms, Theaters, Hotels, and Dance Orchestras. Prove that P.A. increases a clients business.

Profit from Rental. Many Radio Servicemen through rental of P.A. equipment increase their profits. Excellent markets for rental service are County Fairs, Political Meetings, Real Estate Sales Promotion, Football Games, Pep Meetings and special advertising projects for retail merchants. \$10 to \$25 per day is the usual charge for use of a Two speaker 15 watt job with attendant.

Mobile Advertising. Sound truck advertising has become one of the best types of promotion publicity available. A panel truck with space for advertising banners and the Radolek 15 watt amplifier can be rented for \$25 to \$100 a day. Excellent for parades, political promotion, merchandise advertising and picnic entertainment.

Complete Ready to Operate

A powerful public address system particularly suited for installation in auditoriums, automobiles, and trucks, lodge halls, churches, large store advertising systems, theatres, etc. An ideal system for sound truck installation. Sound can be heard clearly and large call systems, athletic fields, distinctly understood for up to about two city blocks under favorable noise conditions. When used for auto installations, fan belt driven 150 to 175 watt Auto Fan Belt generator is used for 110 volt A.C. power supply. At maximum power, system will give volume to cover indoor audiences of 2500 people or about 10,000 square feet outdoors. These figures are conservative and based on tests made with high noise backgrounds. Under ordinary noise conditions, about twice this coverage can be expected.

For Microphone or Phonograph

Microphone and phonograph inputs can be amplified through this system. High impedance phonograph pickup can be connected directly to amplifier. When using microphone, an impedance matching device is necessary. Input control unit is supplied with system for this purpose and is arranged for the most convenient connection of all inputs to amplifier. Meter and switches are incorporated in input unit for reading current on either or both buttons of microphone. Variable resistor regulates microphone current. In addition current control is mounted on microphone stand for easy regulation of current. Prevents damage to microphone and assists in controlling feedback. Tone control mounted on amplifier allows complete variation of tone. Also assists in reducing feedback and compensating for room acoustics.

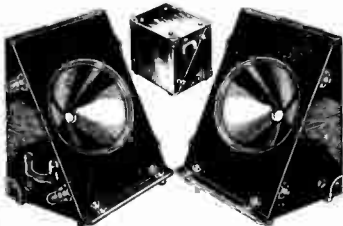
Complete Control Over-all Inputs

Two volume controls on the Control Unit are inter-connected to enable mixing or fading from microphone to phonograph. A pleasing and novel effect can be obtained by providing a musical background for voice. This feature is a splendid advantage for home entertainment or advertising stunts. Two auditorium D.C. dynamic speakers are used for sound output. They obtain their field supply from amplifier. Heavy duty chokes are built into amplifier, hence dynamic speaker fields are not used as part of filter system. This makes it possible to substitute up to 130 magnetic cone speakers or 200 headsets in place of dynamic speakers, without connection of external resistors or chokes. Magnetic cones or headphones can also be used in conjunction with dynamic speakers in any proportionate combination.

Portable P. A. Speaker Housing

14E10486
YOUR PRICE **\$1050**

Case is divided diagonally and will house two speakers. When put together case is only slightly larger than case necessary for only one speaker. When set on floor speakers throw sound upward and out into the room. Speakers may be hung from ceiling and pointed down. Two holes in side of case prevent formation of air cushion which interferes with cone action. When case is closed speaker cones face fabricoid covered baffle area giving maximum protection against speaker damage. Baffle is hinged so that each section can readily be opened and inner space used for storage of cables, microphones, etc. Baffle opening is 12"; case will accommodate speakers with cone diameter up to 13". Case is rigidly constructed of laminated plywood covered overall with durable and beautiful black fabricoid. Reinforced with metal corner guards. Carrying handle will not pull out. Overall size 19 3/4" high x 15 3/4" wide x 15 3/4" deep; net weight, 33 lbs.



175 Watt Generator

For Auto Public Address Installations

Supplies 175 watts of 110 volt 60 cycle A.C. Operates off Fan belt. Provides very satisfactory current supply for above system. See page 124 for complete description.
14E10803—
YOUR PRICE **\$38.22**



15 WATT "P.A." AMPLIFIER The General Purpose Model Best for 80% of Your Jobs

For 105-120 Volt, 50-60 cycle A. C. Operation

- Three Stages
- Push-Pull 2A3's
- Five Tap Output
- TONE CONTROL
- Hum Free Operation
- Master Volume Control
- Improved Class "A" Prime
- 30 Watt Speaker Field Supply

14E10670—Factory wired. Laboratory Tested, without Tubes.
List Price, \$60.00.
YOUR PRICE \$27⁵⁰

14E10671—With five Raytheon matched Tubes 1-57, 1-56, 2-2A3, 1-5Z3.
List Price, \$68.85.
YOUR PRICE \$31⁹⁰

For Every Type Installation

Ample volume for 2500 people: Will provide good sound coverage for conventions, school auditoriums, large refectories, county fairs, ball-rooms, athletic fields, and other locations where plenty of volume with good clarity is required. Economical and efficient. Easy to install permanently or for part time use. Excellent for use with hotel installations having a speaker in each room. Extensively used in schools and colleges for "pep" meetings and experimental work. The splendid tone characteristic of this amplifier adapts it for "sound" movie installations and for sound recording studios. Uses the new 2A3 tubes, (superior to old type '50 tubes). Improved class "A" prime, giving the high efficiency of class "B" with the beautiful tone quality of class "A". Over 75 DB gain. Only .015 volt input required for maximum output. Splendid for use in sound truck employing 175 watt fan-belt driven generator described elsewhere.

Handles 8 Dynamic Speakers

Provides 15 watts of power for speaker voice coils. This output can be used to operate 3 large dynamic speakers or 8 smaller ones or 3 dynamic horns or 30 magnetic cones or 200 headsets or any proportionate combination of them. When using 3 large dynamic speakers they can be placed in front of the audience. 8 smaller dynamic speakers can be placed back to back in the center of the same size audience to give a more even distribution of sound. At maximum power, amplifier will give volume to cover indoor audiences of 2500 people or about 10,000 square feet outdoors. These figures are only approximate as definite information cannot be given due to varying conditions under which equipment is used. Where prevailing noise levels are low a larger coverage can be expected.

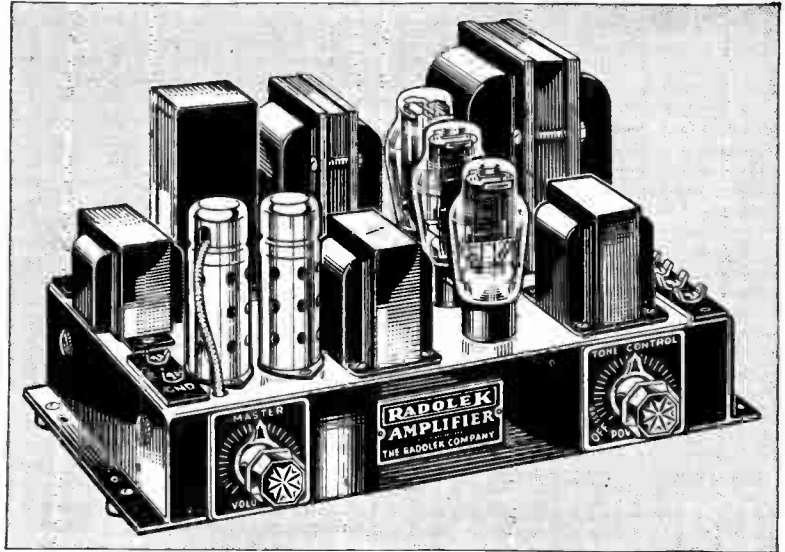
Installation Shield



14E10672—
List. \$8.00.
Your Price
\$4.60

Heavy sheet metal perforated shield. Provides perfect mechanical protection. More than enough ventilation to keep amplifier at proper operating temperature. Fits amplifier snugly. Baked-on black enamel finish. Adds a professional appearance to any installation that will easily bring you \$8.00, additional.

You should sell this shield with every Amplifier. It is well worth the additional investment to your customer.



Amplifier Characteristics and Specifications

- (1) 15 Watts undistorted Power Output to speaker voice coils.
- (2) Supplies 30 watts for 1000 ohm field coils (enough for three large dynalines). Connections provided for one, two or three separate speaker fields.
- (3) Three Stages with five tubes, '57 resistance coupled, to '56 transformer coupled, to two 2A3's in push pull. 5Z3 Rectifier.
- (4) 77 D.B. Gain at 1000 cycles.
- (5) Practically Flat Frequency Characteristic Curve within 2 D.B. from 50 to 8,000 cycles.
- (6) Input Impedance 200,000 ohms.
- (7) Master Volume Control with etched metal indicating plate.
- (8) Tone Control and On-Off Switch Combined.
- (9) Output Impedance Tapped at 3, 6, 9, 15, and 500 ohms. Connections brought out to bakelite strip with values engraved at each binding post.
- (10) Only .015 volts input signal required to obtain maximum output.
- (11) Hum level lower than encountered in average good quality A.C. Radio (this is the lowest of any amplifier we have ever observed).
- (12) Power consumption 150 watts.
- (13) Power Supply required, 105-120 volts, 50-60 cycle A.C.
- (14) Six foot super service power connection cord with unbreakable rubber attaching plug.
- (15) Renewable Glass Fuse in power supply.
- (16) Bottom protecting plate with four rubber feet entirely encloses base.
- (17) Ample provision for ventilation.
- (18) Rich Baked-on Black Enamelled finish.
- (19) Overall height 8"; Base width 9"; Length 16"; Height 2 3/4".
- (20) Net weight, 25 lbs., Shipping weight, 40 lbs.

For Microphone or Phonograph Amplification

Phonograph may be connected directly to amplifier input. When using microphone it is necessary to use a control unit like stock number 4E10700 described on page 111, or suitable microphone Transformer. Microphone transformer, is not mounted on chassis because this is primarily bad engineering and should be avoided wherever possible. The hum level in our amplifiers is so low that it is barely audible within a foot from speaker with full output. This low hum level can be maintained only when input transformer is mounted at least a foot away from chassis and out of power transformer field. Construction of amplifier makes it much more convenient for the hookup of multi-mixer circuits. Master volume control gives control over all inputs. Combination tone control and on-off switch mounted on amplifier chassis. Connections for out-puts of 3, 6, 9 or 15 ohm impedances, permitting the proper connection of dynamic speaker or speakers of any voice coil impedance.—Separate winding of 500 ohm impedance provides connections for one or more headphones or magnetic speakers, or for Dynamic speakers when used at a distance. 500 Ohm Speaker Line Matching Transformers: for use with a number of dynamic speakers on the 500 ohm line output listed on page 109.



Built for Heavy Service

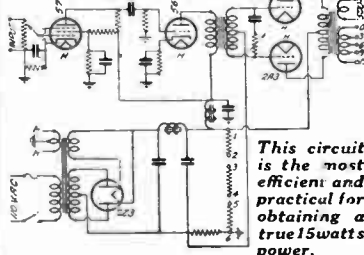
Finest Quality—Carefully Engineered

Power input line is fused with standard tubular glass fuse—All parts mounted on strong, rigid non-rusting alloy metal. Entire unit finished in rich baked-on black enamel; layout of component parts insures high efficiency—Ample ventilation keeps operating temperature at lowest point. All transformers, chokes, main filter condensers and voltage amplifier tubes are fully and separately shielded. We do not attempt to lower the quality and save a few cents by placing all parts under a single shield which would make the unit susceptible to overheating, mechanical vibration, hum and electrical feed-back, (Motorboating). All wiring and parts easily accessible. Layout diagram, showing exact position of each wire and part, together with schematic hookup, are furnished—All parts used are standard.—Diagram gives all essential specifications of each part, making repair work quick and easy.



Wide Range Frequency Response: Cathode Ray Oscilloscope tests proved that the output of this amplifier was linear over practically the entire audio range and free from distortion harmonics within the rated output.

Simple Efficient Circuit



This circuit is the most efficient and practical for obtaining a true 15 watts power.

The outstanding feature of the circuit of this Amplifier is the unique method of securing bias voltage for the Push-Pull 2A3 power tubes. This is accomplished through a 410 ohm section of the bleeder resistance; the bias resistance carrying a constant current of 100 MA in addition to the 53 MA for the 2A3's. A peculiarity of the 2A3 tubes is the increase in plate current with strong signal inputs. The design of the Radolek amplifier bias circuit makes an increase in power tube plate current such a small portion of the total current flowing through the bias resistor as to not appreciably reduce the effective power output.

Field current supply is 300 volts at 100 Ma. or 30 watts across 2000 ohms resistance. Three taps are incorporated one at each 1000 ohms. The combinations of power for speaker fields are many. The fields of as many as ten dynamic speakers of the smaller type can be handled efficiently.

STADIUM "P. A." SYSTEM

30 Watts—For Maximum Coverage

Made Up of Radolek Standard P. A. Units

Units Included

Three stage 30 watt amplifier (See opposite page).

Seven matched Raytheon tubes 1-57, 1-56, 4-2A3's, 1-5Z3.

Input control panel. (See page 111.)

Two 14 1/2" auditorium dynamic cone speakers. (See page 113.)

High quality \$25.00 list double button carbon microphone.

Microphone floor stand with eight mounting springs.

Ten foot shielded microphone cable.

Ten foot shielded connecting cable.



Used for

- Stadiums
 - Conventions
 - Race Tracks
 - Dance Halls
 - Dinner Clubs
 - Large Churches
 - Athletic Fields
 - Political Rallies
 - Large Auditoriums
 - Store Call Systems
 - Large Sound Trucks
- For 105-120 60 Cycle A. C. Supply

Auditorium Dynamic Speakers

The two speakers furnished are of the highest quality. See page 113 for complete description. Will handle the tremendous output of the amplifier with a full natural tone. Use of extra heavy field coils in speaker construction together with clever engineering design makes these speakers many times as sensitive as the average unit. Speakers can be used up to 1000 feet away from amplifier. If 500 ohm line connection on amplifier is used, 500 ohm line matching transformers are not furnished with system. See page 109 stock number 2E4360 for suitable transformer. When using speakers within seventy-five feet of amplifier connections can be made from amplifier direct to voice coils. Speaker fields are 1500 ohms and obtain current supply from amplifier.

PRICE

30 Watt Stadium P. A. System
As Illustrated and Including Units as Specified Above

System as described.
14E10688—
List Price, \$199.00.
YOUR PRICE

\$99.50

For Portable Installations

Use 14E10485 speaker housing listed on page 116. When system is used in a permanent installation use as large a speaker baffle as is practical. To obtain the best volume and quality of reproduction from this system do not use a baffle which has an effective area of less than nine square feet.

Our Finest and Most Powerful Public Address System

Particularly suited for large installations requiring a great amount of power with highest quality tone. Frequency response of system is exceptionally flat. Dance Halls and Auditoriums will find this system well suited for permanent installation. Ideal for use in DeLuxe sound truck installations. Sound can be heard clearly and distinctly understood for about six city blocks under favorable noise conditions. At maximum output using the two giant dynamic speakers included, the system will cover indoor audiences of up to 8000 people, or an outdoor area of about 25000 square feet. All connections are plainly marked making it easy to correctly and quickly assemble system.

3 Channel "P.A." Rack and Panel

For Centralized Installations in Schools, Hotels, Clubs, Etc.

A complete assembly of all parts on a neat and convenient rack for permanent installation. Equipment included consists of 6 tube radio tuner, two speed phonograph motor and pickup, two microphone mixer, 30 watt power amplifier, speaker switching panel and monitor speaker. All units are interconnected for the most flexible and efficient operation of all or each part.

The Radio Receiver is a 6 tube dual wave superheterodyne. Complete description of set sent on request.

Built-in Phono-Motor and Pickup plays both 33 1/3 and 78 R.P.M. records. Specially weighted 12" turntable gives smooth operation on slow speed records. High quality pickup perfectly balanced gives best results on either speed record. Automatic stop and switch also included.

Three Channel Mixing Panel provides two channels for microphones and one for phonograph or radio. Complete description is given in next column.

30 Watt Power Amplifier is three stage modified class "A" prime unit. Complete technical description of amplifier is given on page 119.

20 Speaker Switching Panel for remote control of all or any one speaker. We connect this panel to suit your particular installation. When placing your order be sure to state the quantity of each type of speaker you wish to use.

Master Volume Control provides volume adjustment over all three channels.

Master Tone Control controls tone from bass to treble for all three channels.

Complete as described with set of matched Raytheon tubes: 2-58's, 1-2A6, 1-2A7, 1-2A5, 1-56, 1-80, 1-57, 4-2A3's, 1-5Z3.

14E10690—
List Price, \$390.00.

YOUR PRICE ... **\$195.00**

We are prepared to supply complete Public Address Rack and Panel equipment to meet any requirements. Send us the specifications on your next job. Our engineering department will be glad to give you quotations and all assistance necessary. Our efficient laboratory and manufacturing facilities assure you of quality merchandise and we assure you of a price on which you can make a handsome profit.

3 Channel Input Control & Mixer For Public Address and Broadcast Work



Mixer and Fader

A high quality unit for mixing and fading the outputs from two microphones and phonograph or radio. Connects directly to grid of first input tube on amplifier. Three distinct input channels are provided. Two channels are for carbon microphone or low impedance phonograph pickup or for condenser, velocity or crystal microphones when used with preamplifier. The third channel is for connection of high impedance phono pickup and radio with switch for changing from phono to radio. The three channels can be faded from one to the other or mixed to any desired degree. Separate transformer and T pad volume control is provided for each input channel. A fourth transformer ties the input channels into one output channel of high impedance to match grid of input tube on any amplifier.

Microphone Current Control

A separate microphone current control is provided for the two microphone in-

put channels. 0-25 milliammeter in conjunction with four toggle switches indicate the current on each microphone button. Switches can also be thrown so as to read current drain for both buttons at once. Switching arrangement is very simple and gives absolutely accurate readings. 2-4 1/2 volt "C" batteries are mounted inside case and furnish microphone button current. All connections to unit are made through extra strong moulded bakelite sockets. Metal case provides perfect shielding. All parts are grounded so that there is no hum pickup from this unit. To prevent hum, shielded cable should be used for connecting to amplifier input and for connecting high impedance inputs to control panel. Case is of 16 gauge steel finished in durable baked black enamel. Beautifully etched metal indicating plates are mounted under each control. Case size 7 1/2" deep, 6" high, 17 1/2" wide. Shipping weight 16 lbs.

Prices

Complete with Triplett meter.

4E10701—

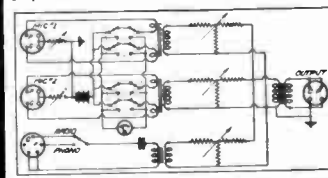
List Price, \$43.90.

YOUR PRICE **\$21.95**

Complete with Readrite meter.

YOUR PRICE **\$19.60**

4E10702—



30 WATT "P. A." AMPLIFIER Tremendous Power with Flawless Tone

For 105-120 Volts 50-60 cycle A. C. operation

- Three Stages
- Tone Control
- 5 Tap Output
- Master Volume Control
- Parallel Push Pull 2A3's
- Improved Class "A" Prime
- 30 Watts Speaker Field Supply

Prices
14E10685—Factory wired; Laboratory tested; Without tubes.
 List Price \$75.00. **\$37⁵⁰**
 YOUR PRICE

14E10686—With Seven Raytheon Matched tubes, 1-37, 1-56, 1-2A3, 1-52B.
 List Price \$88.35. **\$44.00**
 YOUR PRICE

Layout and schematic diagrams giving all essential specifications and information are included.

For Microphone and Phonograph Amplification

High impedance phonograph pickup may be connected directly to amplifier. Microphone connections are made through suitable matching transformer. The above connections can be made and controlled through input control units described on pages 111 and 118. Master volume control and etched metal indicating plate are mounted on amplifier. Control gives complete volume variation for all input signals. Combination tone control and on-off switch with etched metal indicating plate are also mounted on amplifier. Tone control allows accentuation or attenuation of lows and highs. This feature is useful in assisting to eliminate acoustic feedback or to compensate for poor room acoustics.

For All Large Installations

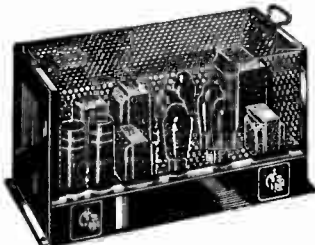
Adapted for very large installations, such as athletic fields, auditoriums, conventions, aviation fields, large deluxe call systems, large hotel installations, political gatherings, etc. A very powerful sound truck installation can be made with this amplifier, using the 180 watt Fan Belt driven Automobile Generator. Systems for large theater installations can also be very satisfactorily and economically built up around this unit. At maximum power this amplifier will give sufficient volume to cover indoor audiences of 8000 people or about 25,000 square feet outdoors. These figures are conservative and based on tests made with high noise backgrounds. Provides 30 watts for speaker voice coils. This output can be used to operate 5 large dynamic speakers or 12 small dynamic or Kinematix units or 5 dynamic horns or 30 magnetic cones or 400 headsets or any proportionate combination of them. When using 1 to 3 dynamic speakers they can be placed in front of the audience or up to 12 dynamic speakers can be placed back to back in the center of the same sized audience to give a more even distribution of sound.

For Greater Output

Two or three of these amplifiers can be connected in parallel to obtain 60 or 90 watts total output at a much lower total cost than a single amplifier of such output using 845's or similar tubes. Coverage at 60 watts would be 16,000 people indoors and 60,000 square feet outdoors.

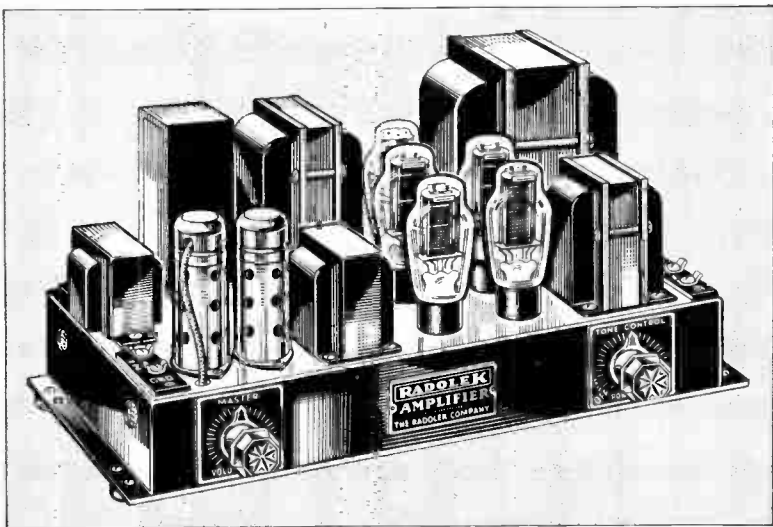
Amplifier Installation Shield

For 30 Watt Amplifier



14E10687—List Price \$10.00. **\$4⁷⁵**
 YOUR PRICE

Heavy sheet metal perforated shield provides perfect mechanical protection and allows ample ventilation for amplifiers. Fits amplifier perfectly. Baked-on black enamel finish. You should sell this shield with every amplifier. It is well worth the additional investment to your customer.



Amplifier Characteristics and Specifications

1. 30 watts undistorted power output to speaker voice coils.
2. Supplies 30 watts for 1000 ohm field coils (enough for three large dynamics).
3. Three stages with seven tubes, 57 resistance coupled to 56 transformer coupled, to four 2A3's in parallel push pull, 52B rectifier.
4. 82 D.B. Gain at 1000 cycles.
5. Practically Flat Frequency Curve within 2 D.B. from 50 to 8,000 cycles.
6. Input Impedance, 200,000 ohms.
7. MASTER VOLUME CONTROL with etched metal indicating plate.
8. TONE CONTROL and on-off switch combined, with etched metal indicating plate.
9. Output impedance tapped at 3, 6, 9, 15 and 500 ohms. Connections brought out to bakelite strip with values engraved at each binding post.
10. Only .01 volts input signal required to obtain maximum output.
11. Hum level lower than encountered in average good quality A.C. Radio. (This is the lowest hum level of any amplifier we have ever observed.)
12. Power consumption, 180 watts.
13. Power supply required, 105-120 volts, 50-60 cycle A.C.
14. Six foot super service power connection cord with unbreakable rubber attaching plug.
15. Renewable Glass Fuse in power supply.
16. Bottom protecting plate with four rubber feet entirely encloses base.
17. Ample provision for ventilation.
18. Rich Baked-on Black Enamelled finish.
19. Overall height 8 1/2"; base width 9", length 20", height 2 1/2".
20. Net weight, 32 lbs., shipping weight, 50 lbs.



Very Finest Construction

Heavy duty chokes are built into amplifier. D.C. dynamic speaker field coils are not a part of the filter system in this amplifier. While this type of construction adds considerably to the cost, very best filtering action is provided for any make D.C. speaker and in addition no external chokes are ever required, as are necessary on most other amplifiers, when they are used with A.C. type dynamic speakers, magnetic speakers, dynamic speaker units or head sets.

All parts mounted on strong, rigid, nonrusting alloy metal chassis. Layout of component parts insures highest efficiency. Ample ventilation keeps operating temperature at lowest point. All transformers, chokes, main filter condenser and voltage amplifier tubes are fully shielded. Skillful engineering and design have reduced hum so low that hum is practically inaudible even within a few inches of speaker with volume control full on but with no input connected. Layout diagram, showing exact position of each wire and part, together with schematic diagrams, are furnished. All parts used are standard.

Tremendous Power with Finest Tone Quality

This amplifier gives more undistorted power than has ever previously been obtained from an equivalent combination of tubes. The added power, frequency response, and ability to operate at very low volume without distortion more than outweighs any advantage that class "B" or full class "A" prime operation may have. Gives the same sweet and pure reproduction that could formerly be obtained only by the use of four 250 tubes, in straight class "A" combination. The characteristics of the amplifier are such that it will faithfully reproduce all voice and music, including that of the new wide range sound films.

Amplifier Carrying Case

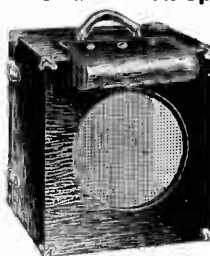
For 30 Watt Amplifier



Laminated plywood covered with durable Fabrikoid. Completely described on page 116.

14E10673—List Price \$12.50. **\$5⁷⁵**
 YOUR PRICE

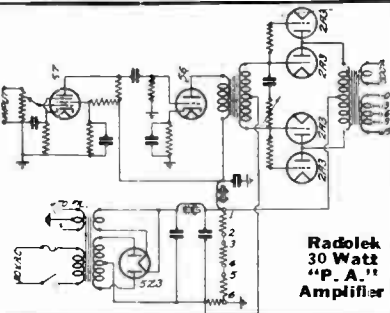
Portable P. A. Speaker Housing



Will House 8" to 14" Cone Speaker
14E10485—List Price \$7.00. **\$4⁷⁵**
 YOUR PRICE

Durable Fabrikoid covered case with metal corner guards. Designed for use with all types of indoor and outdoor public address equipment. Ample baffle surface

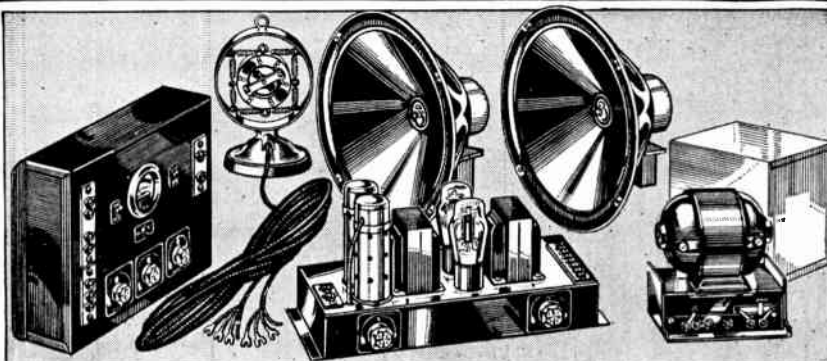
for excellent tone reproduction. For mounting all standard sizes of dynamic and magnetic speakers between 8" and 14" diameter. Copper screen protects cone from bugs and dirt. Button Fabrikoid flap over speaker opening for protection of cone against weather. Extra strong wood frame. Thoroughly impregnated to resist moisture. Specify size of speaker opening desired when ordering. Dimensions, 15"x15"x11". Refer to page 116 for listing of two speaker carrying case.



Radolek 30 Watt "P. A." Amplifier

BATTERY "P. A." SYSTEMS

Equal A.-C. Outfits in Power, Tone & Economy



6 Watt Battery PA Systems

Used Where Power A. C. is not Available

Especially suited for call systems, political gatherings, auditoriums, store advertising systems, window display demonstrations, etc. This is the ideal system for a low cost efficient Automobile Sound Installation where coverage of an average city block in residential districts is all that is needed.

At maximum output has sufficient power to cover an indoor audience of 600 people or an outdoor area of 3000 square feet. These figures are conservative, and based on tests made with high noise backgrounds. Under ordinary noise conditions about twice this coverage can be expected. Can be completely operated by one 6 volt storage battery when used with our public address "B" power supply, stock number 4E10196 on page 125. The tube filaments of course obtain their voltage direct from storage battery. If a "B" supply generator is not desired, 6-45 volt "B" batteries may be used.

Microphone and phonograph can be amplified through this system. Master volume control is mounted on amplifier chassis giving control over all inputs. Input control unit (completely described on page 111) is supplied for connection and control of above sound sources to amplifier. Controls on unit enable mixing or fading from microphone to phonograph. A pleasing and novel effect can be obtained by providing a musical background for voice.

The two speakers furnished with the system will handle the full output. Additional speakers may be used for giving a non-directional coverage. Speakers used obtain field supply (1 1/2 amperes each) from 6 volt storage battery, and may be operated at any distance from amplifier, the only limiting factor being the resistance drop in the lines and the resultant power loss.

Equipment Included

6 Watt, 3 stage Class "A" Battery Operated, Push Pull Amplifier; High Quality Double Button Carbon Microphone with eight springs and stand; Two 11 inch Dynamic Speakers; Input control unit (completely described on page 111); 10 foot 3 conductor shielded microphone cable; set four matched Raytheon tubes; 1-39, 1-37, 2-42.

14D10655—Complete system as specified above with "B" Supply generator to operate from 6 volt storage battery.
List Price \$136.00
YOUR PRICE \$66.00

14D10656—Complete system as specified above with 6-45 volt "B" Batteries in place of generator.
List Price \$108.00
YOUR PRICE \$49.50

6 Watt Battery Amplifier Only
14D10657—Without tubes.
List Price \$27.50.
YOUR PRICE \$16.50

14D10658—Complete with four Raytheon Tubes: 1-39, 1-37, 2-42.
List Price, \$33.40.
YOUR PRICE \$19.45

6 Watt Battery Operated Amplifier Specifications

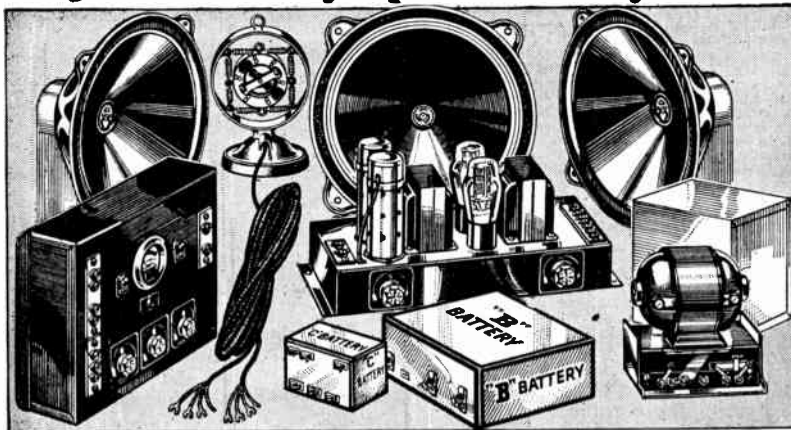
Class "A" Output

1. 6 Watts undistorted Power Output to speaker voice coils.—2. Three Stages with four tubes, '39 tube resistance coupled to '37 transformer coupled to two 42's in push pull.—3. 77 D. B. Gain at 1000 cycles.—4. Practically Flat Frequency Characteristic Curve within 3 D. B. from 50 to 8000 cycles.—5. Input impedance 200,000 ohms.—6. Master Volume Control with etched metal indicating plate.—7. Combination Tone Control and on-off switch.—8. Output Impedance Tapped at 3, 6, 9, 15 and 500 ohms. Connections brought out to bakelite strip with values engraved at each binding post.—9. Only .015 volts input signal required to obtain maximum output.—10. Power consumption 2 amperes for filament, 87 mA. for plate.—11. Power Supply, 6 volts for filament, 270 volts for plate.—12. Bottom protecting plate with four rubber feet entirely encloses base.—13. Rich Baked-On Black Enamelled finish.—14. Overall height 7 1/2", base width 6", length 14". Net weight, 9 lbs. Shipping weight 16 lbs.

All parts mounted on strong, rigid, non-rusting steel chassis. Layout of component parts insure highest efficiency. Transformer and voltage amplifier tubes are fully shielded doing away with any residual hum. All wiring and parts easily accessible. Layout diagram, showing exact position of each wire and part, together with schematic hookup are furnished. All parts used are standard. Diagram gives all essential specifications for each part, eliminating guesswork in replacement and making repairing quick and easy.



15 Watt Battery Operated PA Systems



For Microphone and Phonograph

Master volume control is mounted on amplifier chassis giving control over all inputs. Input control unit connects sound sources to amplifier. Meter and switching system are incorporated in input unit for reading current on either of both buttons of microphone. Controls on unit enable mixing or fading from microphone to phonograph. A pleasing and novel effect can be obtained by providing a musical background for voice. This feature is a splendid advantage for home entertainment or advertising stunts.

This system is particularly well adapted for sound truck installations. May also be used for athletic fields, fairs, outdoor gatherings of all kinds, large store advertising systems, large call systems, etc. At maximum output, system has sufficient power to cover an indoor audience of 2,500 people or an outdoor area of 10,000 square feet. These figures are conservative and based on tests made with high noise background. Under ordinary noise conditions, about twice this coverage can be expected.

Equipment Included

Used Where Power A.C. is not Available
15 watt 3 stage Class "A" Battery Operated Push Pull Amplifier; High Quality Double Button Carbon Microphone with eight springs and stand; three 1 1/2 inch Dynamic Speakers; Input Control Unit (completely described on page 115); 10 foot 3 conductor shielded microphone cable; Set four Matched Raytheon Tubes: 1-39, 1-37, 2-2A3; 1-45 volt "C" battery; 1-22 1/2 volt "C" battery.

Prices Complete Outfits

14D10677—Complete system as specified above with "B" Supply Generator to operate from 6 volt storage battery.
List Price \$165.00
YOUR PRICE \$89.50

14D10678—Complete system as specified above with six 45 volt "B" Batteries in place of generator. List Price, \$137.00.
YOUR PRICE \$71.50

Amplifier Specifications

Class "A" Output

1. 15 Watts undistorted power output to speaker voice coils.—2. Three Stages with four tubes, '37 resistance coupled to '37 transformer coupled to two 2A3's in push pull.—3. 77 D. B. Gain at 1000 cycles.—4. Practically Flat Frequency Characteristic Curve within 3 D.B. from 50 to 8,000 cycles.—5. Input impedance 200,000 ohms.—6. Master Volume Control with etched metal indicating plate.—7. Combination Tone Control and on-off switch.—8. Output Impedance Tapped at 3, 6, 9, 15 and 500 ohms. Connections brought out to bakelite strip with values engraved at each binding post.—9. Only .015 Volts input signal required to obtain maximum output.—10. Power supply required, 6 volts for filaments, 300 volts for plate, 62 volts "C" bias.—11. Power consumption, 5.6 amperes for filament 50 to 100 MA. for plate, no drain on "C" battery.—12. Bottom protecting plate with four rubber feet entirely encloses base.—13. Ample provision for ventilation.—14. Rich Baked-On Black Enamelled finish.—15. Overall height, 7", base width 7", length 14", height 2 1/4"—16. Net wt. 9 lbs. Ship. wt. 16 lbs.

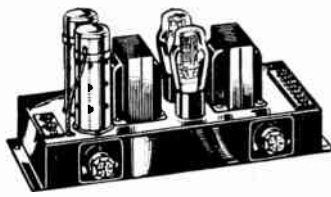
Output is direct to voice coils of speakers of 500 ohm line. Speakers used obtain field supply from 6 volt storage battery and take 1 1/2 amperes each.

Price Amplifier Only

15 Watt Battery Operated

14D10675—Factory wired, laboratory tested without tubes. List Price \$32.50.
YOUR PRICE \$19.50

14D10676—Complete with 4 Matched Raytheon tubes, 1-39, 1-37, 2-2A3.
List Price \$43.20.
YOUR PRICE \$23.10



Moderate Power
with High Quality

RADOLEK "PONY" "P. A." AMPLIFIERS

**3 1/2 Watts Output
2A5 Power Tube**

4E10650—Factory wired Laboratory tested amplifier. Less tubes.

List Price, \$20.00.
YOUR PRICE.....

\$9.65

4E10651—With three Matched Raytheon tubes 1-57, 1-2A5, 1-80.
List Price, \$23.95.
YOUR PRICE.....

\$11.65

Particularly suited for use as a phonograph amplifier, telephone booster, intercommunicating or small P.A. Systems. Has gain of 8 D. B. more than 2B6 amplifier but does not have as great a power output—nor as broad a frequency response.

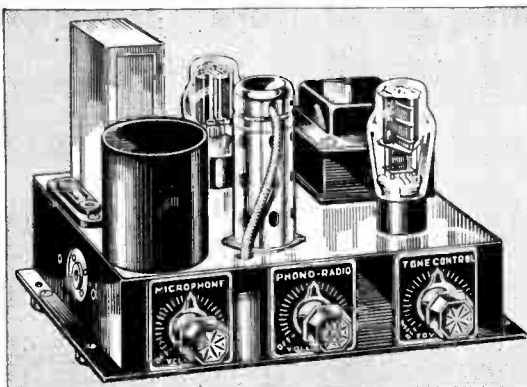
Has Many Uses

Both models are adapted for installations such as window display demonstrations, store advertising call systems, inter-office communications, telephone booster, school classrooms, restaurant installations, small dances, social gatherings, racing returns, etc. At maximum power, 5 watt 2B6 amplifier will cover indoor audiences of 200 people or about 2000 square feet outdoors. At maximum power 3 1/2 watt 2A5 amplifier will cover indoor audiences of 150 people or about 1500 square feet outdoors. These figures are conservative and are based on tests made with high noise backgrounds. Under ordinary noise conditions about twice this coverage can be expected. Provides 3 1/2 or 5 watts output to voice coil. This output can be used to operate one D.C. speaker and one A.C. dynamic speaker or 10 magnetic speakers or 40 headsets or any proportionate combination of any of them. Field current supply 3 watts through 2500 ohm resistance. Speaker field is used as part of filter system in amplifier.

Mixer and Fader

Three controls are mounted on amplifier, one of which is used to control microphone input volume, one for controlling volume of phonograph or other high impedance input and one for combination tone control and on-off switch. Beautifully etched control plates are mounted beneath each control. This combination allows operating either input at any volume desired, either alone or in conjunction with one another. The voice with a musical background can be used for many novel effects, for home entertainment or for special advertising features. Fading from one input to the other is also accomplished quite easily.

For 105-120 Volts 50-60 Cycles A.C.



- Microphone Input
- Phonograph Input
- Tone Control
- Speaker Field Supply
- Mixer and Fader
- Two Stages

Characteristics and Specifications

Of 3 1/2 Watt 2A5 and 5 Watt 2B6 Amplifiers

1. Power Output to Speaker Voice Coils: 3 1/2 watts for 2A5 Model, 5 watts for 2B6 Model.
2. Supply field current for one 2500 ohm field speaker.
3. Two stages with three tubes.
4. 52 D. B. gain at 1000 cycles with 2B6 Model; 60 D. B. gain with 2A5.
5. Practically Flat Frequency Characteristic Curve within 3 D. B. from 50 to 8000 cycles.
6. Input impedance 400 ohms center tapped for microphone, 50,000 ohms for phono pickup and other inputs.
7. Dual Volume Controls and Mixer, etched metal plate.
8. Combination Tone Control and on-off switch.
9. Output impedances 5000 ohms from plate of 2B6 tube; or 7000 ohms from plate of 2A5.
10. Only 1 volt. input signal required for maximum output.
11. Hum level lower than in average good quality A.C. Radio.
12. Power Consumption 45 watts.
13. Power Supply required, 105-120 volts, 50-60 cycles A.C.
14. Six foot super service power connection cord with unbreakable rubber attacking plug.
15. Bottom protecting plate with four rubber feet entirely encloses base.
16. Rich baked-on black enameled finish.
17. Overall height 6 3/4"; base, width 7", length 11", height 2 3/4".

**5 Watts Output
2B6 Power Tube**

4E10680—Factory wired laboratory tested amplifier. Less tubes.

List Price, \$25.00.
YOUR PRICE.....

\$9.65

4E10681—With three Matched Arceturus tubes; 1-57, 1-2B6, 1-80.
List Price, \$29.85.
YOUR PRICE.....

\$12.10

Conservatively rated at 5 watts, actually as high as seven watts can be obtained with only slight distortion which is not objectionable. Triode type of tube construction is responsible for wider frequency response than is obtainable from the pentode 2A5. These features with greater power output greatly offset the slightly higher gain that is obtained from 2A5 tubes.

Universal Input

Microphone Input is through transformer mounted on amplifier chassis. Transformer is of special construction so as to reduce residual hum to a minimum. Current for either single or double button microphone is supplied by 4 1/2 volt "C" battery mounted inside amplifier. This battery will last about 3 months operating an average of 5 hours per day. Phonograph and additional high impedance inputs are direct to grid of 57 tubes with volume control connected across input. Input and output connections are conveniently made to plug-in sockets and Jack. Output is direct from power tube and proper matching transformer must be used externally with speaker. Jack for plug-in of additional magnetic speaker is also provided.

Fines Construction

All parts mounted on anodized, rigid, non-rusting alloy metal chassis—Entire unit finished in rich baked black enamel—Layout of component parts insures highest efficiency—Ample ventilation keeps operating temperature at lowest point—Transformers, main filter condenser and voltage amplifier tubes are fully shielded—Skillful engineering and design have reduced hum to a very low point—All wiring and aids perfectly accessible—Layout diagram showing exact position of each wire and part, together with schematic hookup, are furnished—All parts used are standard—Diagram gives all essential specifications of each part, eliminating guess work in replacement and making repairing quick and easy.

Portable 'P.A.' System

For Small Indoor and Outdoor Audiences

For store advertising systems, home movies, political gatherings, parties and similar small audiences, this type of sound equipment is ideal. For window demonstration work this system affords immeasurable advantages over the old method of using printed cards for delivering the advertiser's message.

Equipment included with 3 1/2 and 5 Watt Portable P.A. System

Amplifier—2A5 two stage class "A" amplifier is included with 3 1/2 watt system, 2B6 two stage class "A" amplifier is included with 5 watt system. Both amplifiers are fully described at top of page.

Microphone included with both systems is a fine quality single button Kellogg hand microphone. A high grade \$12.00 list two button microphone with desk stand can be supplied instead of hand mike if desired. Allow \$6.95 extra when placing order.

Carrying Case is strongly reinforced and covered with handsome black grained Fabrikoid. Two separate sections; amplifier is contained in one section, speaker is contained in other allowing its use at a distance from amplifier. Case size closed 16 1/2" high x 13" deep x 1 1/4" wide.

Cables—30 feet of shielded microphone cable connection of mike to amplifier. 20 feet of speaker cable for operation of speaker at a distance from amplifier.

Tubes—Three Raytheon tubes 1-57, 1-2A5, 1-80 are supplied with 3 1/2 watt system. Three Arceturus tubes 1-57, 1-2B6, 1-80 are supplied with 5 watt system.

Tremendous Volume

5 watt system has enough volume to cover an indoor audience of 200 people or an outdoor area of 2000 square feet. 3 1/2 watt system will cover an indoor audience of 150 people or an outdoor area of 1500 square feet. These figures are conservative and under favorable conditions greater coverage can be expected. An additional dynamic speaker may be operated to give more thorough coverage. This speaker must obtain its excitation from external power source. Amplifier furnishes field current for one 2500 ohm D.C. dynamic speaker. Excellent baffling is provided for speaker by case. Sufficient cable is furnished with system so that speaker can be moved and used up to 20 feet away from amplifier. Speaker can be used up to 50 feet away if desired by adding additional cable. Input connections are for microphone and phonograph or other high impedance input. Microphone leads may be run up to 75 feet away from amplifier. High impedance and phonograph input leads should not be over 15 feet long. Microphone transformer is mounted directly on amplifier. Microphone current is supplied by 4 1/2 volt "C" battery mounted in amplifier for single or double button microphone. See description above for further details.



A Complete Outfit

This equipment includes a complete speech and phonograph Amplifier with Speaker mounted in a portable Carrying Case. For operation on 105-120 volt 50/60 cycle A.C. Can also be used very effectively in small automobile installations using the 50 watt fan belt driven 110 volt A.C. generator, stock number 4E10801 described on page 124

Portable P. A. System complete with 3 1/2 watt 2A5 amplifier described above and Raytheon tubes 1-57, 1-2A5, 1-80.
List Price, \$61.25.
YOUR PRICE.....

\$29.75

Portable P. A. System complete with 5 watt 2B6 amplifier described above and Arceturus tubes 1-57, 1-2B6, 1-80.
List Price, \$61.75.
YOUR PRICE.....

\$29.95

Quality, Compactness are Featured in This 6-WATT PORTABLE "P. A." SYSTEM

For 105-120 Volt 50-60 Cycle A. C.
Highest Quality — Newest Design
Unequaled Value

- 3 Stage Push-Pull
- 5 Newest Type Tubes
- Completely Self Contained
- Variable Tone Control
- Complete Mixer and Fader
- Microphone Transformer
- Microphone Current Supply
- 20 Watt Speaker Field Supply
- Microphone and Phonograph Input
- Separate Volume Control for Mike and Phono

Equipment Included

Completely enclosed and shielded 3 stage 5 tube Push-Pull 6 Watt Amplifier with built-in Controls, Fader and Mixer; Twelve inch Dynamic Speaker with fifty feet super service 3 conductor rubber covered connecting cable; Fine quality Two Button Carbon Microphone with eight springs and Stand, also 10 feet shielded microphone cable (Two Button Hand Microphone of same quality may be substituted if preferred). All enclosed and mounted in strobent, durable, Fabrikoid enameled separable, two section carrying case 18 1/2" wide, 16 1/2" high, 12 1/2" deep; 5 Raytheon Matched Tubes, 2-56, 2-2A5, 1-5Z3.

Meets Every Requirement

For all types of public gatherings—club meetings, funeral services, entertainment, announcing athletic events, large store advertising, etc. Provides sufficient volume for indoor audiences up to 600 people or coverage of outdoor area of about 3000 square feet.

In-Built Control Panel

The outstanding features of the six watt amplifier are the inbuilt Tone Control, Microphone Current Control, Microphone Volume Control and Phonograph-Radio Volume Control. The volume controls are interconnected so that input signals may be faded or mixed into each other in any desired ratio, giving announcements a professional smoothness by eliminating abrupt breaks in background music. Mixing and fading system is very complete and simple in operation.

The range of response provided by this amplifier is so wide that a Tone Control is not essential, but one is furnished so that low notes may be accentuated when desired. Also it may be employed in some instances to reduce or eliminate "feed-back" and to compensate for acoustical defects of a room.

Microphone current is read on an 0-25 milliammeter mounted on panel, and controlled by 1500 ohm rheostat. Two switches are mounted on side of amplifier for use, with meters, in measuring current on each microphone button. For further convenience, an additional microphone current control is mounted on the base of the microphone. In addition to adjusting current properly, these rheostats can be used to a limited extent for eliminating acoustical "feed-back".

Extra Speakers May Be Added

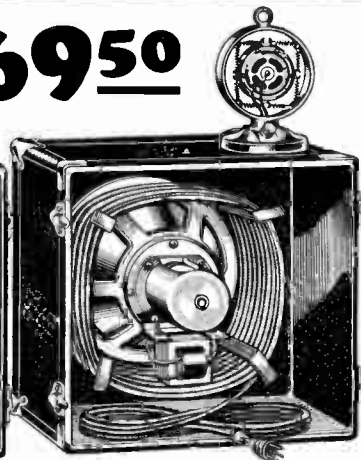
Mounted speaker has 50 foot cord attached and, if desired, may be operated even further from the amplifier. When an additional speaker is necessary for more complete coverage, or for reproduction in an adjoining room, it is conveniently plugged into the amplifier. This convenient feature, exclusive with Radolek, is arranged by mounting two speaker output sockets, ready for instant use, on the amplifier. When only one speaker is in operation, a dummy plug is used in the second socket. The speaker furnished with the system is so wired that it can be used alone or with a second speaker without change in wiring of either amplifier or speaker. The speaker listed below is wired for use with this amplifier as a second speaker.

This is positively the best engineered, best built, most complete, best performing P.A. system of this type ever offered. Careful planning and long experience in manufacturing have held the price down so that this system is by far the most desirable outfit on the market at anywhere near its price. You can depend on this equipment for completely satisfactory performance.

Ready to operate. System can be set up and placed in operation in three minutes. No tools, no "fiddling" around. Just insert plugs, turn on current and the System is ready for work. Very convenient for use in automobiles equipped with fan belt driven A.C. generator.

14E10665—Radolek 6 Watt Amplifier. Complete as described with Raytheon Matched Tubes. List. YOUR PRICE

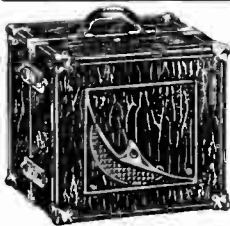
\$69.50



6 Watt Portable Amplifier Characteristics

1. 6 Watts Undistorted Power Output to speaker voice coils.
2. Supplies 20 Watts for 2500 ohm field coils (enough for two dynamics). Either one or two speakers can be plugged in without changing wiring.
3. Three Stages with five tubes, '56 resistance coupled to '56 transformer coupled to two 2A5's in push pull. 5Z3 rectifier.
4. 72 D.B. Gain at 1000 cycles.
5. Practically Flat Frequency Characteristic Curve within 3 D.B. from 50 to 8,000 cycles.
6. Input Impedance 400 ohms center tapped for double button microphone and 50,000 ohms for phonograph or radio.

7. Microphone Volume Control and Phonograph or Radio Volume Control interconnected to allow mixing or fading of input.
8. Microphone current control and meter with two switches for reading current on either or both microphone buttons.
9. Variable tone control (a distinctive feature).
10. Etched metal indicating plates under all controls and switches.
11. Output impedance 500 ohms.
12. Only .07 volts input signal required to obtain maximum output.
13. Hum level lower than encountered in average good quality A.C. radio (this is the lowest of any amplifier we have ever observed).
14. Plug in receptacles for all connections. Bakelite plugs included.
15. Power consumption 92 watts.—Power supply required. 105-120 volts, 50-60 cycle A.C.
16. Six foot super service power connection cord with unbreakable rubber attenuating plug.
17. Renewable Glass Fuse in power supply.
18. Back protecting plate entirely encloses rear of amplifier.
19. Ample provision for ventilation.
20. Rich Baked-on Black Enameled Finish.
21. Overall height (without tubes), 8 1/2", depth 4 3/4", 16" long.
22. Net weight, 24 lbs., shipping weight, 35 lbs.



Carrying Case is very strong and durable. Attractive Black leather grained Fabrikoid covering. Two sections held together securely with four clasps. Metal protected corners. Leather carrying handle. Speaker opening is covered with wire mesh screen. Weather - proof flap folds back when outfit is in use. Overall size 12 1/2" deep, 18 1/2" wide, 16 1/2" high.

Portable Electric Dual Speed Phono Motor With Electric Pickup

A high quality unit designed to match the above 6 Watt Portable P.A. System. Can be quickly changed from 3 1/2 to 7 1/2 R.P.M. with simple transmission gear lever. Powerful induction motor with manually compensated governor for exact speed adjustment on any voltage between 115 and 120, 60 cycle A.C. Extra heavy 12" weighted turntable for constant speed regulations—acts as a flywheel on the motor. Automatic stop. New model Electric pickup with built-in volume control. High impedance type. Light, strong, metal bound, black Fabrikoid covered carrying case. 17 1/2" wide by 11 1/2" deep. Height with top closed 7". Furnished complete, ready to operate with 6 ft. A.C. cord and 6 ft. phono coupling cord. Works with all models of Radolek Amplifiers and other makes having over 25 D.B. gain with high impedance input circuits.

14E10710—Complete Portable A.C. Electric Dual-Speed Phono Motor. List Price \$45.00. YOUR PRICE

\$25.50



14E10711—Same model with special 6 volt D.C. Motor. List Price \$49.50. YOUR PRICE

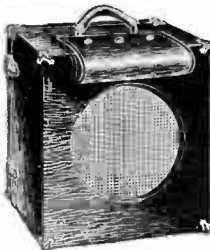
\$29.70

Portable P.A. Speaker for 6 Watt Portable

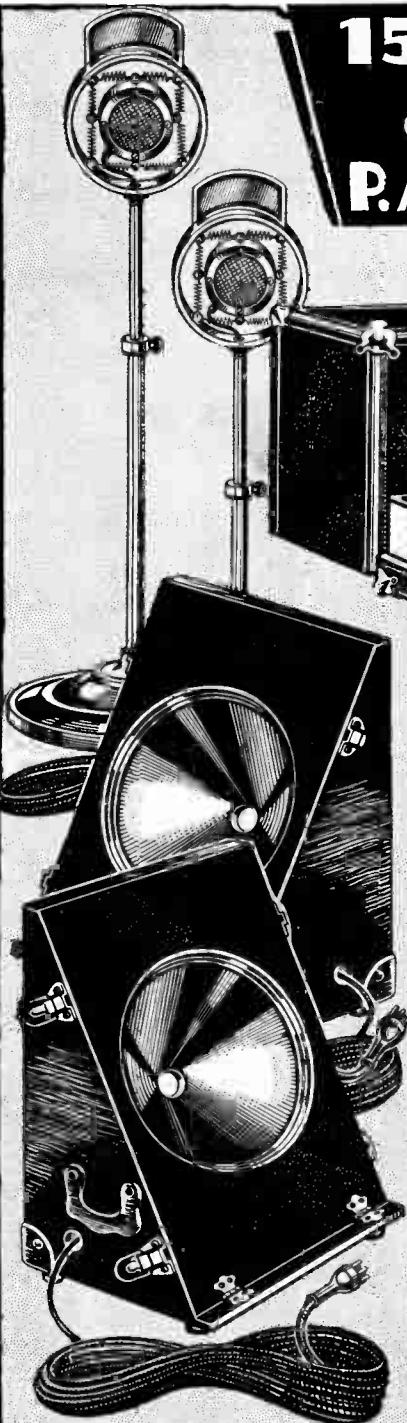
A high quality, extra heavy duty Dynamic Speaker mounted in a durable Fabrikoid covered carrying case, size 15"x15"x11". Particularly designed for use as second speaker with the above 6-Watt System. Speaker cone size 12 1/2". Field resistance, 2500 ohms; will dissipate up to 10 watts. Voice coil, 8 ohms; handles 10 watts without overloading. Input Transformer matches output of above Portable Amplifier when used with speaker furnished in System. 50 ft. rubber covered super-service cord with polarized plug for quick connection to Amplifier supplied. Speaker Plug replaces dummy plug furnished with Amplifier. Impossible to connect incorrectly. No changes in wiring necessary. Case equipped with metal corner guards, leather handle, copper screen to protect Speaker, and button Fabrikoid flap cover opening for protection against weather.

14E10667—List, \$25.00. YOUR PRICE

\$14.75



15 WATT A.C. Portable P.A. SYSTEM



Two Crystal Microphones Included

For Use by Large Orchestras, Vaudeville Teams,
Public Speakers, Political Campaigners, etc.

Can Be Set Up and Put in Operation in Three Minutes!

Highest Quality—Wide Coverage
Intended for highest quality amplification of voice and music for coverage over a large audience or over a large area where there is no permanent P.A. installation. An important accessory to the large concert or dance orchestras, public speakers, vaudeville teams, or others who are faced with the problem of making themselves heard and understood in large indoor or outdoor areas. The full natural tone obtained from the crystal microphones will satisfy the most critical audience. The low notes of the bass drum and the high notes of the piccolo are brought out with equal and excellent fidelity.

Two Crystal Microphones Supplied
Every large dance orchestra will find this system of particular benefit in increasing their entertainment value. The use of both microphones placed so as to take in the entire group of musicians will give to the audience a finer and more complete rendition of the musical selection than could be otherwise accomplished even in a small auditorium. The microphones will pick up and carry through the loud speakers to every person in the audience the sound of every instrument in the band, exactly as they would hear it if they were placed in the most advantageous position in relation to the platform. Ideal for assisting a vocal artist in carrying the voice to the audience above the orchestral background. Also one microphone can be used for bringing out featured solo instruments while the other is used for the balance of the orchestra.
A particular feature of these microphones—when stand is struck, (which often happens) there is no howl as occurs when carbon mikes are used.

Individual Volume Control
The volume on each microphone can be individually adjusted by the director to the proper level to obtain the desired results. Vaudeville teams depending upon "rags" and "patter" for the effectiveness of their act should use this portable system. It will enable them to reach everyone in the largest audiences without straining their voices. Public speakers and political campaigners will find their work made easier. They can address very large audiences and obtain the same effect as if they addressed the same audience in smaller groups.

Easy to Install and Operate
Anyone who can operate an ordinary home radio can set up and operate this system. No tools nor technical knowledge is needed. Entire system can be set up or taken down in three minutes time. All connections are by plugs and sockets and are so arranged that it is impossible to put any plug into a wrong socket. All that is necessary is to place microphone and speakers, plug them into designated sockets plug power cord into 105-120 volt 50-60 cycle A.C. socket, turn on the power switch and you are all set to broadcast. Either one or both microphones can be used as desired and individual volume controls give control over each microphone. Either one or both speakers can be used as desired without any change in wiring.

Equipment Included
Power Amplifier. Four stages, using 8 tubes:—2-25A's in first stage resistance coupled to 2-56's resistance coupled to 1-56 transformer coupled to 2-2B6's push pull, 5Z3 rectifier. New and original design eliminates motor beating (prevalent in high gain amplifiers) and hum. Three channel input is for two crystal mikes, and crystal phono pickup or other high impedance input. Connections are through 3 polarized sockets and also binding post strip. Separate volume controls are incorporated for each channel. Interconnecting of controls allows mixing or adding input channels into each other. No additional input control panel or other input device necessary. Two controls supply perfect tone regulation for both high and low frequencies. Etched metal indicating plates are mounted under each control. Speaker field supply is for 4-000 ohm fields at 10 watts in each field. Connections are brought out to 8 terminal binding post strip. Output and field connections for three speakers are brought out to three receptacle sockets mounted on side of amplifier. Sockets are so wired that one, two or three speakers can be used as desired without change of internal wiring of amplifier. When only one speaker is used dummy plug is inserted in other sockets instead of speaker plug. Output connections are also brought out to 9 terminal binding post strip and tapped to give practically any impedance between 1 and 18 ohms and in addition 250, 500 and 1000 ohm taps are supplied. Output level indicating meter is 12" Arsonval movement type.

Two 12 1/2" cone Auditorium Dynamic Speakers included are the extra large capacity Concert Type, built to carry enormous volume. Described on page 113 under stock number 14E10670. They are mounted in convenient separable carrying case, each section of which provides excellent baffling for speaker. Fifty feet of heavy duty rubber covered cord with unbreakable rubber plug is included with each speaker.

Two Crystal Microphones with Floor Stands included. Stands are adjustable in height up to 5 1/2 feet. Base is 1 1/2" in diameter and weighs 18 lbs., giving a good solid foundation which makes stand difficult to knock over. Complete stand is finished in highly polished heavily plated chrome. The Piezo Astatic crystal microphones supplied are ideal for portable use. They give quiet reproduction over a wide range of frequencies and are very rugged in construction. Will stand up under abuse that would ruin other mikes. Each microphone is equipped with 50 feet of shielded rubber covered cable and unbreakable rubber plug.

Rugged Carrying Cases
The complete system with exception of mike stands is completely assembled into two cases for easy transportation. Cases are rigidly constructed of wood with reinforced corners and carrying handles. Covered with beautiful black grain Fabricoid. Will stand years of hard usage. **Speaker Carrying case.** Size closed 15 1/2" wide, 15 1/2" deep, 13 1/2" high. Net weight with speakers 33 lbs. **Amplifier Carrying Case.** Size closed 22" wide 12" deep 13" high. Net weight with amplifier approximately 60 lbs.

Prices

For 105-120 Volts 50-60 Cycle A.C.

Operation

15 watt portable P. A. System complete as described including:—Four stage 8 tube Amplifier with tubes and carrying case; 2-Astatic Crystal microphones with stands and connecting cables; 2-12 1/2 inch Auditorium Dynamic Speakers in separable case, with connecting cords; wiring diagram and instructions.

14E10679—
List Price, \$275.00.

\$134⁷⁵

YOUR PRICE.....

Amplifier only with output level meter and 8 matched Arcturus tubes. Operates on 105-120 volt 50-60 cycle A. C.

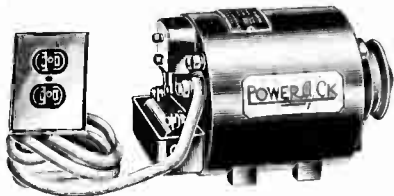
14E10699—
List Price, \$130.00.

\$49⁰⁰

YOUR PRICE.....

POWERACK—110 Volts A.C. In Any Car

Runs on the Fan Belt



14E10802—100 Watt Model.
List. \$45.00
YOUR PRICE **\$26.46**

14E10803—175 Watt Model.
List. \$65.00
YOUR PRICE **\$38.22**

14E10805—Special Mounting Bracket
for V-8 Fords. List. \$8.00.
YOUR PRICE **\$4.70**

A complete power plant that runs directly on the motor fan belt. Generates 95-125 volt on 60/180 cy. A. C. for the operation of A. C. Radio Sets, P. A. Amplifiers, upholstery vacuum cleaners, portable fans, neon signs, camp lighting, etc. within its power rating. Especially suitable for sound trucks and motor boats. Positively no drain on battery. No commutator or slip rings. Ball-bearing rotor. Very ruggedly constructed. Easy to install. Comes complete with forged brackets for mounting on engine block, double outlet box, 6 ft. armored cable, shielded field cable with rheostat and switch, and full directions for installing.

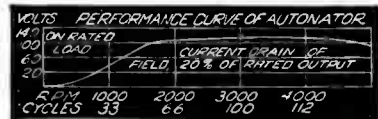
NOTE: These are the new Model Poweracks deriving their field excitation current from both the output of the charging generator and the third brush. Much better voltage regulation than previous, cheaper models which are suitable only for the operation of neon-signs. For those who require Powerack for neon-advertising and other uses not demanding good voltage regulation, the less-expensive Powerack models are available.

Autonator 110 Volt A.C. Generator

Runs on Fan Belt of Any Car, Truck, or Motorboat

Produces 100 to 120 volts alternating current from fan belt of any gasoline or Diesel motor. Field current taken from generator or storage battery of car. Uses speed modulator geared drive wheel for cruising speeds as low as 5 m.p.h. Used for operating P.A. Amplifiers, neon signs, standard A.C. radios, or any electrical appliance within the rated watt output of Autonator A.C. Generator.

Comes complete with 7½ ft. shielded double cable with double outlet switch receptacle, plug, mounting brackets and full instructions. (R.P.M. approx. 3 times crankshaft speed.)



Stock Number	Watts	Min. Load	Max. Load	List Price	YOUR PRICE
14E10830	50	10	60	\$32.50	\$23.88
14E10831	100	60	120	37.50	27.56
14E10832	150	120	170	47.50	34.91
14E10833	250	170	275	80.00	58.80
14E10834	350	275	400	99.50	72.95
14E10835	450	400	600	125.00	91.87

Speed Modulator For Sound Trucks
14E10836—List Price, \$35.00.
YOUR PRICE **\$25.72**

Knapp Auto or Radio Battery Charger

4E10857
YOUR PRICE **\$4.95**

Made for Radolek by Mallory. Keeps storage battery in any car fully charged. The increased demand upon the car battery by new electrical devices such as fan driven heaters, auto radio, cigar lighters, spot lights and sleet shields often tax the generator beyond its normal capacity. Takes just a few minutes to hook it up to any car. No holes to drill. Attach the clamp-on receptacle to the dash and connect one lead to the ammeter and the other one to ground. Hang up the charger in the garage and plug it into the dash receptacle at night. Will boost up the battery overnight. No more hard starting in cold weather. Start off in a flash every morning. Charges radio batteries too. For 105-120 volt 50-60 cycle A. C.

Mallory Elkon 5½ Amp. Charger For Auto Batteries

Tapers from 5½ A. to 3½ A. as battery becomes fully charged. Input 115 V. 50/60 Cy. Polarized clamp-on receptacle for dash. Elkon dry-disk rectifying unit.

4E10858—List. \$11.50.
YOUR PRICE Complete. **\$6.75**



Janette Rotary Converters

Compact, dynamically balanced rotary converters which change direct current to 110 volt, 60 cycle A.C. for the operation of A.C. radio sets and appliances within the power range of the converter. Laminated steel pole pieces and steel frames. Double wound armature.

Perfect Radio Reception

These converters are equipped with a special filter which prevents converter interference from reaching the radio. If converter is not for use with radio, deduct \$7.00 if filter is not wanted.

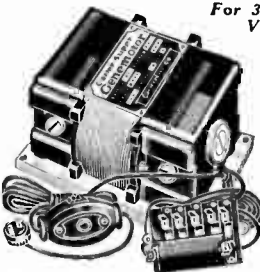
Stock Number	Mfrs. Type	Output Watts	Input Amps	List Price	YOUR PRICE
14E10815	CA-25-F	80	5.4	\$38.50	26.41
14E10816	CA-20-F	110	6.5	41.50	28.47
14E10817	CA-18-F	150	8.5	46.00	31.56
14E10818	C13-F	300	15.0	64.50	44.25
14E10819	C13-12-F	400	19.0	99.00	67.91
14E10820	C13-12-F	600	24.0	139.00	91.24

110-115 V. D.C. to 110 V. 60 Cycle A.C.

Stock Number	Mfrs. Type	Output Watts	Input Amps	List Price	YOUR PRICE
14E10821	CA-25-F	80	1.3	\$38.50	26.41
14E10822	CA-20-F	110	1.9	41.50	28.47
14E10823	CA-18-F	150	2.4	46.00	31.56
14E10824	C-13-F	300	4.4	64.50	44.25
14E10825	C-13-F	600	6.4	93.50	64.14

Carter Genemotor "B" Supply

For 32 Volt and 6 Volt Input.



4E10138—Model 32A For 32 Volt Input

4E10139—Model A For 6 Volt Input

List. \$22.50
YOUR PRICE

\$13.23

Either Model

Small precision built Motor-generators which operate from 6 V. or 32 V. Input to furnish "B" supply for battery operated Radio Receivers. Consume very little power, only about 15 watts. Both models have taps at 22.5, 45, 90, 135, and 180 volts. Special ball-bearings require no oiling. Will last for years. Built-in filter system. No trouble to connect. Complete instructions furnished for connecting.

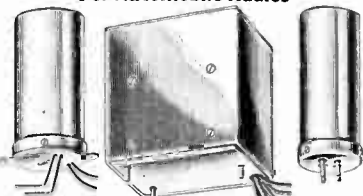
Ward-Leonard Automatic Battery Charge Regulator

3E8570—YOUR PRICE **\$2.05**

Increases the charging rate of the car generator by cutting out a resistance in series with the 3rd brush each time the radio is turned on. This system avoids overcharging the battery with the generator set high as is the case in the majority of car radio installations. Regulator connects to the radio side of the radio switch. When set is turned on a high resistance relay closes a switch shunting the resistor in series with the third brush of the generator. All necessary hardware for installation and complete instructions.

Exact Replacement VIBRATOR UNITS

For Automobile Radios



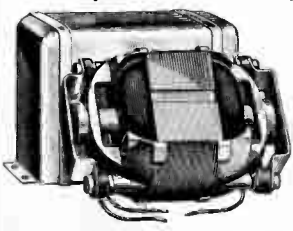
RCA-Victor General Elec. MAJESTIC 86 PHILCO 6F, 9F, 10, 5T
While these Vibrators are the exact replacements physically for the Sets listed, they are big improvements over the originals electrically and will give long, trouble-free service.

Make	Model	Stock Number	List Price	YOUR PRICE
Atwater Kent	424,534	3E8530	\$5.50	3.23
	666	3E8545	3.75	2.20
Audiola	345	3E8546	4.85	2.85
	346	3E8547	3.75	2.20
	347	3E8548	4.85	2.85
Arvin	10A, 15, 20A, 20B, 25, 30A, 35, 45	3E8531	3.50	2.06
		3E8549	3.75	2.20
Belmont	660	3E8533*	9.00	5.29
	660	3E8531	3.50	2.06
	670	3E8545	3.75	2.20
Bosch	45, 79	3E8545	3.75	2.20
	140, 150	3E8534	5.50	3.23
B.O.P. (Buick)	1 Unit Non Sync, 2 Unit			
	Non Sync	3E8531	3.50	2.06
Olds - (Pontiac)	1 Unit Sync, 2 Unit Sync	3E8536	5.25	3.09
Clarion	100	3E8531	3.50	2.06
Chevrolet	1 Unit Non Sync, 2 Unit Non Sync			
	Non Sync	3E8531	3.50	2.06
	2 Unit Sync	3E8536	5.25	3.09
Colonial	150, 164	3E8545	3.75	2.20
Crosley	99, 102, 103	3E8538	5.75	3.38
Emerson	667, 965	3E8560	4.85	2.85
Erla (Santinel)	602	3E8539	4.75	2.79
	5500	3E8561	3.75	2.20
Fada	101, 102, 104B	3E8531	3.50	2.06
Ford-Maj. Ford-Zen.	Vibrator 1933	3E8540*	9.00	5.29
	Vibrator 1934	3E8545*	3.75	2.20
	1933	3E8531	3.50	2.06
	1934	3E8545	3.75	2.20
Gen. Elect.	K34, M40, M41	3E8541	5.50	3.23
Grebe	61R	3E8531	3.50	2.06
Gulbransen	V622, Z6Z1	3E8531	3.50	2.06
Hudson Terraplane	350HD, 650HD, 660TD, 661T	3E8531	3.50	2.06
Majestic	66	3E8533*	9.00	5.29
	66	3E8531	3.50	2.06
	116, 116A	3E8531	3.50	2.06
Motorola	34	3E8562	3.75	2.20
	44, 66, 77	3E8534	5.50	3.23
	Twin 6,			
	Twin 8,	3E8562	3.75	2.20
Philco	5, 6, 9, 10, 11, 700, 800, EF, Elm., TGE, Elm.	3E8543	3.75	2.20
RCA-Victor	M34	3E8541	5.50	3.23
Simplex	T	3E8531	3.50	2.06
Stewart-Warner	1121, 1122	3E8532	4.50	2.65
	R112	3E8562	4.75	2.79
		3E8531	3.50	2.06
Stewart Radio	50	3E8539	4.75	2.79
Truetone	Z6Z1	3E8531	3.50	2.06
United Motors	4036, 2035	3E8531	3.50	2.06
	4037, 4038	3E8536	5.25	3.09
Wells-Gardner	Z6W1	3E8542	5.00	2.94
	26U1	3E8563	4.85	2.85
	V622, Z6Z1	3E8531	3.50	2.06
	Series 6U	3E8564	3.75	2.20
Wilcox-Gay	43B	3E8545	3.75	2.20
Wurlitzer	460	3E8545	3.75	2.20
Zenith	7, 460, 462	3E8531	3.50	2.06

*Supplied with transformer and condenser.

Pioneer Gen-E-Motor Compact Units

To Replace Vibrator Type Auto Radio "B" Units



Operates from 6 Volt Battery
 • Guaranteed for One Year
 • Noise-free in Operation
 • Extremely Easy to Install
 • Fits in Chassis Housing of Most Auto Sets

Install one of these rotary Units in the place of a faulty or inoperative vibrator type "B" supply and note the improvement in the operation of the Auto Radio. Provides a uniform voltage and will eliminate noisy and weak reception prevalent in most vibrator type Auto Receivers. No circuit changes necessary to install. Extremely compact—only 4 1/4" high, 5 1/2" wide, 2 3/4" deep. Requires no adjustment, no attention, no oiling, and no servicing. Uses original filter system of vibrator Unit which it replaces. In shielded metal case. Complete instructions for installing furnished.

4E10198—Model JW-25, delivers 225 volts at 50 M.A., Battery drain 3.8 Amps. List, \$13.00. **YOUR PRICE \$7.64**

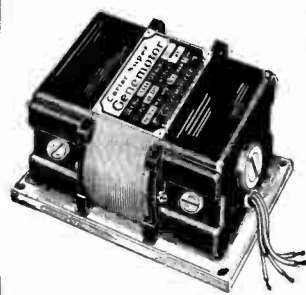
4E10199—Model JW-50, delivers 250 volts at 50 M.A., Battery drain 4.2 Amps. List, \$13.00. **YOUR PRICE \$7.64**

Replaces Vibrator Units in Following Auto Sets

Airliner	General Electric
Arcadia	Majestic 116-66
Audiola	Motorola 88-61
Belmont	RCA
Bosch 150-160	Solar
Cadillac	Travalon
Ford 114	True Tone
Gulbranson	Wells-Gardner

New Carter Super Genemotor

With Built-In Filter—New Compact Size



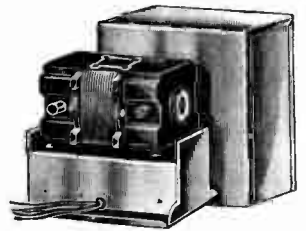
Smallest Auto "B" Eliminator made. New reflex filter system and motor design—motor field coils used for chokes. All filter condensers are located in motor housing. No outside filter needed. Ideal for replacing unsatisfactory "B" Eliminators and "B" batteries. Easy to install, nothing to take apart and put together. Will run in any position. Gives the old Set more pep. Operates on 6 volt car battery. New silent ball-bearings never need oiling. Size 2 7/8" high, 4 1/2" wide, 5" long. Fully guaranteed.

4E10140—Model 1580A } List
4E10141—Model 1535A } \$16.50
YOUR PRICE, EITHER MODEL \$9.70

Stock Number	Model Number	Input Volts	Output Volts	Output M. A.	Inter. Tap	Drain on Battery
4E10140	1580A	6.3	180-200	30-50	90	2.2 Amp.
4E10141	1535A	6.3	135-150	20-40	67 1/2	1.7 Amp.

Carter Sound Truck Genemotor

For 6 Volt and 12 Volt Input



The most reliable and economical power supply for operating Class "A" and Class "B" Amplifiers. Motor designed especially for high voltage output. No input filter choke is furnished as none is required unless a radio is operated from same battery. Ball-bearing motor and output filter in one case 4 1/2"x6"x6 3/8" high. Leads for connecting and full directions furnished.

For 6 Volt Input

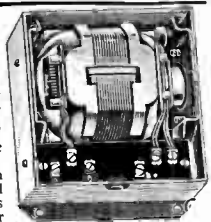
Stock Number	Model Number	Output Volts	Output M. A.	Battery Drain	List Price	YOUR PRICE Ea.
4E10130	3500	350	100	10 Amp.	\$35.00	\$20.58
4E10131	3100	300	100	9 Amp.	35.00	
4E10132	5075	265	75	5.5 Amp.	32.50	\$19.99
4E10133	2565	225	65	4.5 Amp.	32.50	

For 12 Volt Input

Stock Number	Model Number	Output Volts	Output M. A.	Battery Drain	List Price	YOUR PRICE Ea.
4E10134	3500-B	350	100	5.5 Amp.	\$37.50	\$22.95
4E10135	3100-B	300	100	4.5 Amp.	37.50	
4E10136	2565-B	225	75	2.5 Amp.	32.50	\$19.33

Pioneer Auto "B" Supply Motor Generator—Dynamotor

New compact dynamotor type Auto "B" power supply. Motor generator operates from the 6 volt car battery and generates smooth filtered humless D. C. current. High voltage and constant current output operates the radio with plenty of "punch" and power. Reduced in size the new "Pioneer" will fit under the seat of most cars. May be mounted in any position. Size overall 2 7/8" high, 5 3/4" wide 5 3/8" long. Weighs only 10 lbs High voltage output—200 volts at 40 milliamperes will operate the largest auto sets. New type brushes and ball bearings never require adjustment or oiling. Terminal strip provides easy means of hooking up. Completely encased and shielded by formed steel housing.



Stock Number	Output Volts	Milli-Amps	Inter. Tap	Battery Drain	List Price	YOUR PRICE
4D10190	180	30	None	1.95 amps	\$18.00	\$10.58
4D10191	200	40	None	2.75 amps	18.00	
4D10192	180	30	90	1.95 amps	18.50	\$10.78
4D10193	135	30	67 1/2	1.42 amps	18.50	

For 32 Volt Farm Plant
4D10194—135 volts at 30 M.A.; tapped at 67 1/2 volts. List Price, \$23.00. **YOUR PRICE \$13.52**

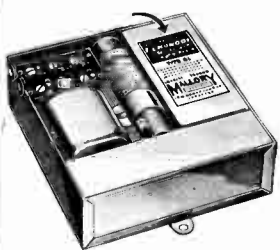
4D10195—180 volts, at 30 M.A.; tapped 22 1/2, 45, 67 1/2, 90, 135 volts. List Price, \$25.00. **YOUR PRICE \$14.70**

Special for Sound Trucks
 Standard 6 volt input, 12 or 32 volt supplied to order.

4D10196—265 volts at 75 M.A.; tapped at 75 V. List, \$31.00. **YOUR PRICE \$18.23**

4D10197—300 volts at 100 M.A.; tapped at 100 volts. List, \$34.00. **YOUR PRICE \$19.99**

New MALLORY Elkon Auto "B"



—New simplified design—uses no tubes
 —Eliminates "B" Batteries entirely
 —Offers 200 volts at 40-50 M.A.
 —Highest electrical efficiency
 —Only 2 amp. battery drain (Approx.)
 A power supply for any auto radio. Furnishes constant voltage and current. Superior filter eliminates feed-back and interference. New type self-rectifying Elkonode used employs an entirely new application of vibrator principle which creates the A.C. and rectifies it all in one unit. Simplified construction eliminates servicing. Has built-in relay. New small size, only 2 3/8"x6 1/2"x1 1/4". Mounts in any position. Comes complete with all cables, ready to install.

Specifications Mallory Elkon "B" Units

Stock Number	Type	Maximum Output In M. A. at 200 Volts	Make and Model Set (And others requiring same voltage)
4E10105	10	40 to 45	Motorola 6 tube (1930); Model 38 (7 tube 1931); Model 47A (7 tube 1932)
4E10108	11	35 to 40	Roamlo Model 92 (1931) Majestic 110 (1931)
4E10112	11P	35 to 40	Philco 41 (7 tube 1932)
4E10113	11PC	35 to 40	Bosch 9-20 (1931)
4E10116	12P	30 to 35	Philco 38 (7 tube 1932)

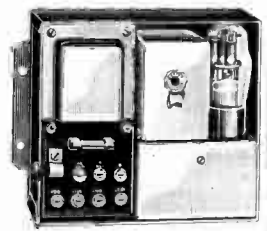
List Price, \$17.50. Complete—including cable. **YOUR PRICE (Any Type) \$10.29**

When ordering for sets other than those specified above, give make of set with number and type of tubes used, also "B" voltage.

Mallory Replacement Elkonodes
 Self-healing Rectifying Elkonodes for all Elkon Eliminators.
4E10120—For all Type 10s
4E10121—For all Type 11s
4E10122—For all Type 12s
 List (any Type) \$7.00. **YOUR PRICE EACH \$4.12**

Multi-Tap Auto "B" Supply

Up to 250 Volts 50 M.A. "B" Power from 6 Volt Car Battery
 An improved full-wave vibrator Type "B" power Unit for Auto Radios that supplies 90 v., 135 v., 180 v., or 250 v. at various taps—suitable voltages for servicing over 90% of all Auto Sets now in use. Vibrator has over size contacts for long life. Floated in sponge rubber to insure quiet operation. Free from hum and R.F. disturbances. Electrostatically shielded transformer. All chokes and condensers of finest quality. Housed in steel cabinet 7 3/8"x6 3/8"x2 3/8". Supplied in two types complete with connecting cables and instructions ready for quick, easy installation.



4E10125—Tube Rectifier Type. Complete with type 84 Tube. List, \$15.00. **YOUR PRICE \$8.82**

RADIART Auto "B" Supply



Provides constant, quiet, dependable "B" current for any Auto Set from the 6 volt storage battery. Efficiency amazingly high, delivers a maximum output of 180 volts at 45 M.A. Draws approximately 2.2 amps. from battery. Voltage is always peak and well filtered. Entirely automatic. No rotary parts. Requires no attention. Vibrator sealed in vacuum. Non-polarized full-wave output. Housed in cadmium plated steel case size 7x3x4 1/2 inches. Easy to install. Complete with tube.

4E10100—List, \$17.50. **YOUR PRICE \$9.26**

Emerson Auto "B" Supply

Completely enclosed in dust-proof steel case. Full size filter in base. Motor-Generator mounted to base through rubber shock-absorbing bushings. Delivers up to 180 volts at 40 M.A. Drain on storage battery only 2 Amps. Has low voltage taps at 67 1/2 and 90 V. Overall size, 7 3/8" long, 4 5/8" wide, 6 3/8" high. Electrical efficiencies about 90%. **4D10101**—List \$19.50. **YOUR PRICE \$11.46**



Radio Batteries

High Grade—Full Voltage



Standard 45 Volt "B" 93c
 3D12—List \$2.25.
 YOUR PRICE
 Six for.....\$4.95

An exceptionally fine quality and powerful 45 volt "B" battery. A big, burly battery which is sold under an advertised brand at a much higher price. While low in price, do not confuse this battery with many inferior batteries selling elsewhere at the same or even higher prices. These are quality batteries. Size: Ht., 7", Wd., 8", Depth, 3". Shipping weight, 11 lbs.

Giant 45 Volt "B" \$1.32
 3D11—List, \$3.75.
 YOUR PRICE, Each.....
 Six for.....\$7.18

A giant in power. Almost twice the capacity of the standard 45-volt size. Especially made for the multi-tube sets that draw more current and require an extra heavy, oversize battery. You and your customers will find them most economical in the long run. Extra profits for you. Upright only. Size: Ht. 7", Wd. 8", Dpth. 4". Shipping weight, 14 lbs.

4 1/2-Volt "C"



One of the finest "C" batteries made. High-test. Long-life. Will maintain their rated voltage for long continuous use. New stock. Size 1 1/2 x 2 1/2 x 1. Shpg. wt., 2 lbs.
 2C15—List, 50c.
19c
 NET EACH
 Ten for.....\$1.79

22 1/2-Volt "B" & "C"



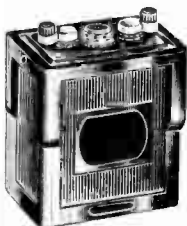
A quality battery that will give long, uniform current flow. Heavily insulated cells. New stock. Upright only. Size, Ht. 3", Wd., 4 1/4", Duth. 2 3/8". Shpg. wt., 6 lbs.
 2C14—List, \$1.75.
74c
 YOUR PRICE, Each.....
 Five for.....\$3.50

No. 6 Dry Cells



These Dry Cells are made under the most rigid specifications, built up with the highest grade materials. High amperage, 1 1/2 volts. They have remarkable strength and lasting qualities. Meets every radio need. Wt., 3 lbs.
 2C13—No. 6, List, 60c.
21c
 YOUR PRICE, Each.....
 Ten for.....\$1.98

2-Volt Radio Storage Battery



3E16—List Price, \$6.55.
3.95
 YOUR PRICE

A 2-volt 19 plate storage battery. Gives 300 operating hours at 1/2 ampere on a single charge. Very steady uniform voltage. Voltage can never become high enough to blow the tubes or shorten their life. Designed for long life and economical service. Cost per hour of operation extremely low. Uses standard storage battery plates 3/8" thick. Shipped ready to use. Hard rubber case with rubber nut and bolt terminals. Size 7 1/4 x 1 3/8 x 1 1/4" high overall.

service. Cost per hour of operation extremely low. Uses standard storage battery plates 3/8" thick. Shipped ready to use. Hard rubber case with rubber nut and bolt terminals. Size 7 1/4 x 1 3/8 x 1 1/4" high overall.

Elkon 5,000 Hour "B" Rectifier

Used to Replace Tubes

Replaces rectifier tube in "B" Eliminator. Dry, solid, rugged, self-healing. Just replace the fragile 1,000 hour tube with this sturdy 5,000 hour rectifier.
 3E85—For "B" Eliminators using 1B1 type tubes.
79c
 YOUR PRICE



Eveready Air Cell "A" Battery

3E49—Code A600 List Price, \$8.50



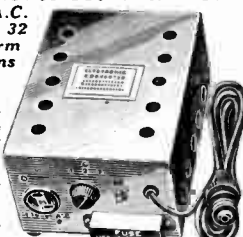
Your Price \$5.83

For "Air Cell" Receivers
 An air depolarized, constant voltage, non-rechargeable primary battery, especially designed and guaranteed ONLY for use as the "A" Battery for Air Cell Receivers. High capacity of 600 ampere-hours is sufficient for at least 1,000 hours operation. At an average use of 3 hours daily, it will take a whole year to use up the 1,000 hours battery life. Uses a liquid electrolyte, but is shipped dry. Can be activated for service by filling with water at any time after manufacture and still deliver its full quota of ampere-hours. Length 13 1/2 inches; width, 6 3/4 inches; height overall, 10 inches; weight, dry, 25 pounds; filled with water, 37 pounds.

Electronic Converters

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

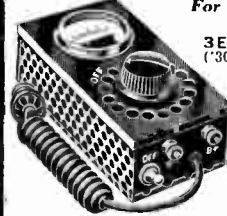
Will Operate A.C. Radio from 32 Volt D.C. Farm Light Systems
 100 Watt Capacity



Generates 110 volts 60 cycle A.C. from power derived from 32 volt farm light systems. 1.00 watts capacity, sufficient to operate practically any A.C. or A.C.-D.C. Set using up to 10 tubes. Draws 5 Amps at full load. Employs tuned interrupter and heavy duty power transformer. Fully filtered for quiet operation on Radio. Will also operate small A.C. household appliances such as induction fans, drink mixers, etc., though not recommended for heating appliances or electric clocks. Only one moving part. Requires no oiling. No polarity to observe. Has receptacle for Radio plug. Off-On toggle switch and variable input adjustment to compensate line drop. Compact case, 7 1/4" long, 6" wide 3 1/2" high.
 4E10B45—List, \$25.00.
\$14.70
 YOUR PRICE

32 Volt "A" Eliminator

For Farm Lighting Plants



3E4456—For 2 tubes ('30, '31, '32, '33) tubes.
 3E4457—For 6 tubes ('36, '37, '38, '41, '42, '43) tubes.
 List Price \$6.50.
\$3.82
 YOUR PRICE

Connects to 32 volt line. Will reduce current to proper voltage for 2, 4 or 6 volt tubes. For any set using not over 5 amperes "A" current (not over 12 tubes of '36 series, any number of '30 series). Serves also to regulate line voltage. Meter indicates voltage to set. Adjustable resistance. Switch to turn current on and off. 6 feet cord with attaching plug. Connections for Generator.



"A" Eliminator for 32 Volt Farm Plants

When plugged in 32 volt socket will deliver 6 volts D.C. Eliminates storage battery and charger. Specify number of tubes used and type. When pilot light is used consider it as one 201a tube. Nothing to wear out or replace.

Amp.
 3E4450 1 1/4 for 5—201a or equivalent
 3E4451 1 1/2 for 6—201a or equivalent
 3E4452 1 3/4 for 7—201a or equivalent
 3E4453 2 for 8—201a or equivalent
 List Price, \$2.00.
\$1.18
 YOUR PRICE

Ward Leonard Battery Charger For 32 Volt Farm Plants

Charges 6 V. Storage Batteries
 Vitrohm Resistors with standard Edison screw base for use in series with radio and other type storage batteries while being charged from 32 volt farm lighting plants. One resistor required for each 3-cell battery under charge. Has many advantages over lamp-banks because it is especially designed for the service and has a permanent ohmic value, 6.4 ohms, 140 watts, 5 Amperes. List, \$2.25.
 3E4455—
\$1.32
 YOUR PRICE

Readrite Battery Tester

Nickel plated brass cases, with glass face. Long insulated cords, with contact prod on each end.



3E2695—Storage Battery Tester. Indicates condition of battery and when to charge.
 EACH **54c**
 3E2696—0-50 volts "B" Battery Test Meter.
 EACH **54c**
 3E2697—0-50 volts; 0-40 amperes. Combination "B" and "A" battery tester.
 EACH **82c**

BURGESS BATTERIES

New Reduced Prices! Our Large Stock and Volume Sales Insure Your Getting New Fresh Stock Always.



Super "B"

No. 21308—45 Volts
 3C20—Retail Price \$2.50.
YOUR PRICE, single lots \$1.89
 IN FIVE LOTS, Each.....\$1.71
 Height 8", Width 8 1/4", Depth 4 1/2". Weight 15 1/2 pounds. Terminals to give +22 1/2 and +45 volts. An oversized "B" battery designed to give maximum electrical capacity for sets of high current drain. Extremely rugged construction. The size that real radio fans want. Shelf life well over one year.

No. 22308—45 Volts
 3C21—Retail Price \$1.95.
YOUR PRICE, Single Lots \$1.48
 IN SIX LOTS, Each.....\$1.34
 Height 8", Width 8 1/4", Depth 3 3/4". Weight 10 pounds. Terminals at +22 1/2 and +45 volts. Shelf life well over one year.

"B" for Oscillators, Ohmmeter, V.T. Voltmeters and Portable Sets



No. 5308 45 Volts
 3E32—Retail Price, \$1.15.
YOUR PRICE Single Lots \$86¢
 IN LOTS OF FIVE, Each.....78¢

5308 is standard equipment in hundreds of test instruments. It matches in height and depth the standard No. 6A battery—and is about twice as wide as one 6A. Tapped at 22 1/2 and 45. Weight 3 1/2 lbs. Shelf-life, over 8 months. Size 6 1/2"x1 1/4"x2 1/4".

Standard "C"
No. 2370—4 1/2 Volts
 3E28—Retail Price 35¢.
YOUR PRICE Single Lots 26¢
 IN LOTS OF TEN, Each 24¢

The longest life "C" bias battery made—service of two years not unusual with this sturdy little power unit. Used in many test oscillators as the source of filament current but should not be expected to supply more than one 60 M.A. Tube on intermittent service. These batteries are produced with remarkable uniformity and are excellent in test equipment. Four brass terminals, for Pos., Neg. 1 1/2, 3, 1 1/2 volts. Size 3"x4"x1 1/4".

Ohmmeter "C"
No. 5360 4 1/2 Volts
 3E33—Retail Price, 35¢.
YOUR PRICE Single Lots 26¢
 IN LOTS OF TEN, Each.....24¢

Used in Jewell and Weston Analyzers, and in majority of ohmmeters requiring 4 1/2 volts. Extremely long life on intermittent 1 milliamperes drain. Used in Zenith, Operadio, and RCA battery radio sets as "C" bias. Size 2 1/2"x2 1/2"x1 1/4".

Test Set and Flashlight Batteries
FLAT 532—4 1/2 Volts
 Same Size as Eveready 703
 3C36—3 cell. Size 2 1/2"x2 1/2"x1 1/4" inches. Brass contact springs on top. Retail Price 30¢.
FLAT 432 Same Size as Eveready 751

3C37—3 cell. Size 2 1/2"x2 1/2"x1 1/4" inches. Brass contact springs on top. Retail Price 30¢.
YOUR PRICE Single Lots 20¢

Uni-Cells
For Flashlights or Test Instruments
 For two, three or five cell tubular flashlights and various types of test instruments. About 1 1/2 volts per cell. Our great volume sales mean new, fresh stock—always.
3C38—Standard No. 2 Tubular Type. Size 1 1/2"x2 1/2" inches. Retail Price, Each 10¢. YOUR PRICE, TEN FOR 65¢
3C39—Baby No. 1 Tubular Type. Size 1 1/2"x1 1/2" inches. Retail Price 10¢. YOUR PRICE, TEN FOR 65¢

Standard "B" Batteries



No. 10308—45 Volts
 3C22—Retail Price, \$1.90.
YOUR PRICE, Single Lots \$1.43
 IN LOTS OF SIX, Each.....\$1.30
 Height 8", Width 8 1/4", Depth 1 1/2". Weight 15 pounds. Terminals to give +22 1/2 and +45 volts. Intended for use on sets drawing 20 milliamperes or over. Shelf life over one year.

No. 2308—45 Volts
 3C23—Retail Price, \$1.50.
YOUR PRICE, Single Lots \$1.15
 IN LOTS OF FIVE, Each 61¢
 Height 8", Width 8 1/4", Depth 3 3/4". Weight 9 pounds. Terminals to give +22 1/2 and +45 volts. Occupies minimum table space. Recommended for sets drawing 10 milliamperes or more. Shelf life over one year.



No. 2156—22 1/2 Volts
 3C26—Retail Price, 90¢.
YOUR PRICE, Single Lots 67¢
 IN LOTS OF FIVE, Each.....61¢
 Height 3 1/2", Width 6 1/2", Depth 1 1/4". Weight 5 pounds. Taps to give +18 and +22 1/2 volts. "Navy Type." Shelf life over one year. Can also be used as grid bias or "C" battery where +4 1/2 or +2 1/2 volts is required.

NOTE:—Dimensions are given on all batteries in the following order:—height, width, depth. Dimensions are overall and include terminals on top of batteries.



No. 1040 3 Volt "A" Battery Pack
 For use with 2 volt radio receivers. Requires no recharging; no servicing; no filling with water; nothing to spill; no creeping or dangerous liquids. Will give 400 hours of service at 3 hours per day on 1/2 ampere load. Has remarkable recuperative powers. Easy to carry. Weight 15 pounds. Size 12 1/2"x4 1/2"x6 1/2".
3E40—Retail Price, \$3.20. YOUR PRICE, Single Lots \$2.32
 IN LOTS OF FOUR, Each.....\$2.11



Auto Radio 45 Volt "B"
No. 2305 3C34
 Retail Price \$1.45
YOUR PRICE, Single Lots \$1.48
 IN LOTS OF SIX, Each.....\$1.34
 Height 8", Width 8 1/4", Depth 3 3/4". Weight 15 pounds. Terminals to give +22 1/2 and +45 volts. Gives maximum electrical capacity for automobile radio sets. Shelf life over eight months.

No. 21305—45 Volts Police Radio Type
 3C35—Retail Price \$3.35.
YOUR PRICE, Single Lots \$2.54
 IN LOTS OF SIX, Each.....\$2.30
 Height 8", Width 8 1/4", Depth 4 1/2". Weight 15 pounds. Terminals to give +22 1/2 and +45 volts. For extra long life. Shelf life over one year.

A Battery—6A Dry Cell
Standard 1 1/2 Volt
 3C31—Retail Price 40¢.
YOUR PRICE, Single Lots 30¢
 IN LOTS OF 25, Each.....27¢
 Its construction specially adapts it for use on the filament circuit of a radio using dry cell tubes. Receivers rapidly during a short period of rest. Size 2 1/2"x6 inches. Weight, 2 lbs. 2 oz.

"C" for Test Equipment
No. 5156 22 1/2 Volts
 3E31—Retail Price, 83¢.
YOUR PRICE Single Lots 64¢
 IN LOTS OF FOUR, Each.....58¢

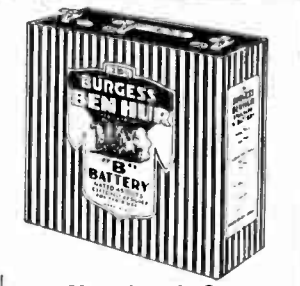
Tapped at +3, +4 1/2, +16 1/2, +22 1/2. Excellent for Ohmmeters, small service oscillators, as well as for "B" replacement in portable receivers, noise locators, etc. Used extensively as "C" battery for 120, 21, 71A tubes on 135 volts. Shelf life over 9 months. Size 2 1/2"x4 1/2"x2 1/4".

Midget "C" for Oscillators
No. 4156 22 1/2 Volts
 3E27—Retail Price, 80¢.
YOUR PRICE, Single Lots 61¢
 IN LOTS OF TEN, Each.....55¢
 The smallest of the portable "C" batteries for use with one or two tube test oscillators or in portable two tube short-wave receivers. 3 1/2"x2 1/2"x1 1/4" high. Six month shelf life.

"C" Bias
No. 5540—7 1/2 Volts
 3E29—Retail Price, 55¢.
YOUR PRICE Single Lots 41¢
 IN LOTS OF TEN, Each 37¢
 For 7 1/2 volt ohmmeters and as a selective source of "E" Bias. Choice of 1 1/2, 3, 1 1/2, 6, and 7 1/2 volts. Brass posts and one flexible terminal, 2 3/4"x4 1/4"x 1/4".

Burgess Ben Hur Batteries

Built by Burgess—A fine precisely constructed full voltage battery. Contains the famous Burgess long life mix. Finest grade insulation provides full protection against internal shorts. Ideal for service replacements. Each battery carries the Burgess name.



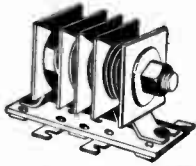
No. 281 Standard 45 volt "B"
 Upright type with 22 1/2 and 45 volt tap. Height 8", width 8 1/4", depth 3 3/4" weight 9 lbs.
3E43—YOUR PRICE in unit PKG. OF 6, 76¢
NET EACH Single Lots 84¢

No. 1081 Heavy Duty 45 Volt "B"
 Upright type with 22 1/2 and 45 volt terminals. Height 8", width 8 1/4", depth 4 3/4". Weight 13 lb., 2 oz.
3E44—YOUR PRICE in unit PKG. OF SIX, \$1.01
Single Lots \$1.11

No. 11 Unit Cell
 Fits all "baby tubular" flashlights. Size 1 1/2" diam., x 1 1/4" long.
3E45—YOUR PRICE, 10 for 40¢

No. 21 Unit Cell
 Fits standard and tubular flashlights. Size 1 1/2" diam., x 2 3/8" long.
3E46—YOUR PRICE, 10 for 41¢
4 1/2 Volt "C" Battery
 Height 2 3/8", width 2 1/4", depth 1 1/4".
3E47—YOUR PRICE in unit PKG. OF TEN, 18¢
Single Lots 20¢
No. 6 Dry Cell
 General purpose ignition, telephone and "A" battery Ht. 6 3/8", Wt. 2 1/4 lbs.
3E48—YOUR PRICE in unit PKG. OF 25, 18¢
Single Lots 20¢

Elkon Replacement Rectifier



The official replacement unit for Majestic "A" eliminators. May also be used on following eliminators: Mayolian, Elkon, Philco, Webster, Knapp General Inst., Metro, Fada, Bernard, Sentinel, and Briggs & Stratton. 3

Amp. charger. Shpg. wt. 3 1/2 lbs.

3C70—Type XB16. List, \$7.00. **YOUR PRICE \$3.73**



Manufacturer's Type Rectifying Unit

The "B" B-L full wave rectifying elements are particularly suited to the use of manufacturers of various equipment requiring rectified currents. All are full wave. Made for such devices as dynamic speakers, "A" powers, battery chargers, railroad signals, etc.

Type B-12 is for such "A" powers as Acme, Sterling, Aero, Stewart, France, Galvin, Greene-Brown, etc., and for such chargers as Braun, Knight, Valley, Webster, etc. Output 1 amp. at 6 V.; 2.5 amp. at 4 volts.

3C60—Type B-12. List, \$4.50. **YOUR PRICE \$2.65**

Type "B"-16 is for Greene-Brown type D, Norien Hauck No. 3A, Toke Deuthehman, Webster, Valley type, DMA, etc. Output 2 amp. at 6 V.; 1 amp. at 8 volts.

3C61—Type B-16. List, \$5.00. **YOUR PRICE \$2.94**



Elkon 5,000 Hour "B" Rectifier

Replaces rectifier tube in "B" Eliminator. Dry, solid, rugged, self healing. Just replace the fragile 1,000 hour tube with this sturdy 5,000 hour Elkon EBH and the change is made. Not affected by accidental surges or overloads.

2C85—For "B" Eliminators using Raytheon BH Tube. List, \$6.00.

YOUR SPECIAL PRICE ... 79¢

Radio Battery Cables

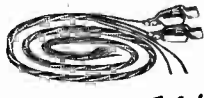


Stranded conductors, rubber insulated and covered with fabric. R. M. A. color coded. 5 ft. length.

Stock Num.	Conductors	List	Your Price
3C2317	5	\$0.50	25¢
3C2318	6	.60	29¢
3C2319	7	.70	32¢
3C2320	8	.85	40¢
3C2321	9	1.00	45¢
3C2322	10	1.10	50¢

3 1/2 Foot 4 Conductor Cable

Stranded size 18 rubber covered conductors, cabled together with a cotton braid overall. Standard battery clips are attached on two ends.



3D2330 **YOUR SPECIAL PRICE 14¢**

Porcelain Sockets

For Neon Glow Lamps

Candelabra Base



3E7116—**YOUR PRICE, EACH 28¢**

Quality porcelain sub-panel socket for candelabra base neon glow lamps. Top of socket mounts flush with panel. Screw terminals. Used in short checkers, continuity testers and other test apparatus.

Edison Medium Screw Base

Sub-panel Mounting

3E7117—**YOUR PRICE, EACH 16¢**

Porcelain sub-panel socket for standard Edison base neon glow lamps. Same style and mounting as socket listed above. Screw terminals for making connections.

Clear Mounting

3E7118—**YOUR PRICE, EACH 10¢**

Clear mounting Edison base porcelain socket. May be mounted on baseboard for experimental work. Screw terminals allow easy changing of hook-ups.



Tungar Type Rectifier Tubes



Quality Guaranteed

3E865—A. 0.6 amps., 7.5 D.C. volts. Used chiefly in small chargers for trickle charging 6 volt batteries. Fil. 1.8V.-0A. **YOUR PRICE \$1.75**

3E866—B. 2 amps., 75 D.C. volts. Has 3 connection screw base, is used in small home chargers. Fil. 2V-12A. List Price \$4.00. **YOUR PRICE \$1.90**

3E867—C. 2 amps., 30 D.C. volts. Anode connection is made at the top. For use in older type single battery chargers. List Price, \$4.00. **YOUR PRICE \$1.90**

3E868—D. 6 amps., 45 D.C. volts. A low voltage bulb used in chargers having a fixed output, also in Exciter Lamp Rectifiers for Motion Picture applications. Fil. 2.2V.-18 Amp. **YOUR PRICE \$3.95**

3E869—E. 6 amps., 100 D.C. volts. For use in all types of chargers having an adjustable control, single and three phase rectifiers for low intensity arc projectors and exciter lamp rectifier having adjustable taps. List Price \$8.00. **YOUR PRICE \$3.95**

3E870—F. 15 amps., 65 D.C. volts. Can be used in certain types of special chargers, but its chief application is in connection with single and three phase rectifiers for supplying current to low intensity arc projectors. Specially seasoned for motion picture rectifier. List Price \$15.00. **YOUR PRICE \$8.90**



Neon Glow Lamps

Genuine G.E. neon gas lamps that glow with a brilliant orange-red radiance. Both electrodes glow on A.C. One remains dark on D.C. Operate on extremely minute current.

Used in tube checkers for interelement short tests; in series with A.C. or D.C. for continuity, leakage, and high resistance tests. Used as pilot or signal lamp on all types of electrical circuits. Check ignition leakage in auto-radio noise elimination work. Voltages listed are minimum striking voltage; minimum operating voltage may be approximately 50 volts lower for A.C. or 10 volts lower for D.C.

3D7119—Midgett 1/4 Watt. Candelabra Base Pear Shape Clear Bulb, 3/8" diameter. Replacement for Weston and other tube testers employing neon short tests. For 105-125 volts, A.C. or D.C. **YOUR PRICE, EACH 36¢**

3E6912—Medium 1/2 watt. Standard Edison medium screw base. Clear Globular Bulb, 1 1/4" diameter. Electrodes shaped like half cylinders. Approximately 5/100 candle power. For 105-125 volts A.C. only. **YOUR PRICE, EACH 36¢**

3E7120—Medium 1/2 Watt. Same as above but with skirted candelabra base. **YOUR PRICE, EACH 41¢**

3E6911—Medium 1 watt. Standard Edison medium screw base. Clear Globular Bulb, 1 1/4" diameter. Approximately 5/100 candle power. Central cylindrical electrode surrounded by wire spiral electrode. For 105-125 volts A.C. or D.C. **YOUR PRICE, EACH 36¢**

3E7122—Same as above with skirted candelabra base. A.C. or D.C. 105-125 volts. **YOUR PRICE, EACH 41¢**

3E7121—Medium 1 watt Standard Edison medium screw base. Clear Globular Bulb, 1 1/4" diameter. Electrodes shaped like half cylinders. For 200-240 volts A.C. or D.C. **YOUR PRICE, EACH 36¢**

3E6910—2 Watt Standard Edison medium screw base. Clear pear Shaped Bulb. Diameter 1 1/2". Electrodes in shape of split disc. Approx. 1/2 candle-power. For 105-125 volts A.C. or D.C. Most popular size for night-light, advertising, exit indicator, stroboscope, and signal use. **YOUR PRICE, Each 45¢**

3E7123—Same as above with Red Bulb. **YOUR PRICE, Each 49¢**

3E7124—Same as above with Yellow Bulb. **YOUR PRICE, Each 49¢**

3E7125—Same as above with Red Bulb. **YOUR PRICE, Each 49¢**

3E7126—Same as above with Yellow Bulb. **YOUR PRICE, Each 49¢**

3E7127—Same as above with Red Bulb. **YOUR PRICE, Each 49¢**

3E7128—Same as above with Yellow Bulb. **YOUR PRICE, Each 49¢**

3E7129—Same as above with Red Bulb. **YOUR PRICE, Each 49¢**

3E7130—Same as above with Yellow Bulb. **YOUR PRICE, Each 49¢**

Replacement Cells

for Wet "B" Eliminators

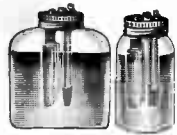
FOR USE WITH PHILCO—WILLARD—USL—VESTA and EXIDE ELIMINATORS



For replacing exhausted cells in electrolyte B units. Glass jar, size 1 1/2 x 1 1/2 x 6 inches high is complete with electrolyte and screw top holding two electrodes. Ready for instant service. Exact size used in eliminators listed above. Guaranteed by the manufacturers to give satisfactory service in B eliminators designed for them. Come in sets of four in carton. **3C65—List, per set of four, \$4.00. YOUR NET PRICE, \$1.69**

Wet Cells for "A" Eliminators

CORRECT TYPE FOR PHILCO SOCKET POWERS



For power units using electrolyte rectifiers to charge "A" batteries. **3C66—Type A-A. Large jar for 6 volt units. Size 7" high, width 6", depth 4". For all 6-volt Philco Eliminators. List, \$4.00. YOUR PRICE \$1.79**

3C67—Type A. 8" high by 4" diameter. Small jar for 4-volt units. For all 4-volt Philco Eliminators. List, \$3.00. YOUR PRICE \$1.39

Battery Terminal Connectors



3C2449 **YOUR PRICE, Each, 18¢**

Fasten to post of any auto storage battery to adapt it for use with radio set. Uses binding screw for connecting lead wire. Perfect contact always.

Universal Battery and Radio Clips



No. 45—Pee Vee Clip. For Radio Test Work. Teeth on both jaws which mesh. Jaw spread 3/8". Length 1 1/8". Cadmium plated. With screw. **3D2448—Each, 4c. TEN FOR \$3.00**

No. 48B—A small clip for "B" radio batteries and general use. Teeth on both jaws which mesh. 10 lb. spring. Jaw spread, 3/8 in. Cadmium plated, 1 1/2 inches long. **3C2440—Positive (+). 3C2441—Negative (-). Each 5c. Per Box of 10, 33¢**

Type 21A—25 amp. Capacity. For radio storage "A" batteries. Teeth on one jaw and notch on the other; fits round battery post. 17 lb. spring. Jaw spread, 1 in. Lead coated. 3% in. long. **3C2442—Positive (+). 3C2443—Negative (-). Each 8c. Per box of 10, 65¢**

Type 21A—50 amp. 33 lb. spring protected by a copper shunt. Jaw spread, 1 1/2 in. Lead coated, 3% in. long. **3C2444—Positive (+) 3C2445—Negative (-). Each 16c. Per box of 10, \$1.35**

Type 11A—100 amp. Capacity, 38 lb. spring. Jaw spread, 1 1/4 in. Lead coated, 5% in. long. **3C2446—Positive (+). 3C2447—Negative (-). YOUR PRICE, Each 35¢**

Rubber Insulators

For Use with Universal Battery Clips



Protect against electric shock. Furnished half red, half black to indicate polarity.

3D2424—For 45 — 10 for \$0.40

3C2420—For 48B—10 for .60

3C2421—For 21A—10 for 1.15

3C2422—For 21A—10 for 1.40

3C2423—For 11A—Each .30

Auto Radio Running Board Aerial

4D10179—List Price \$3.25.

YOUR PRICE **\$1.57**



This Flap Increases Pickup 200%.

New weatherproof aerial designed to mount under the running board of any car. Aerial wire is molded inside of flexible, weatherproof rubber strips 3/8" wide. Two strips are mounted parallel on rustproof supporting plates. Overall width 8 inches, length 2 feet 7 inches. An additional 6 inch portion of each strip extends to a point just

a few inches above the ground to provide extreme sensitivity. Easy to install, all mounting hardware included. A heavy spring takes up all slack—will not sag or drag. Flexible—will not crush.

Auto Axle-to-Axle Antenna

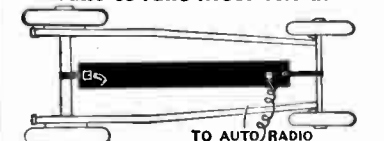


Spring Tension—Waterproof Rubber Casing

Low mounting position provides great capacity effect to ground. Gives utmost sensitivity, with clear signals with a minimum of interference. Electrostatic shielding effect of car frame and body tends to reduce disturbance caused by passing cars. Consists of closely woven wire webbing moulded in tough waterproof flexible rubber 6 ft. long x 4 inches wide. Two strong web fabric straps with self-grip buckles for attaching. A strong spring takes up any slack. 33 inch rubber covered lead-in.

4E10180—List. \$2.25. YOUR PRICE **\$1.33**

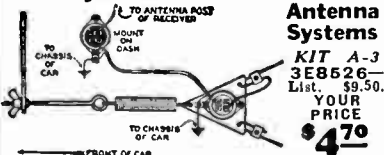
Axle to Axle Moto-Aerial



4D10182—List Price, \$1.25. YOUR PRICE **49¢**

Metallic conductor, enclosed in 53 inch long waterproof fabric envelope with a 36 inch web strap or chain on both ends.

Lynch Noise Free Auto



Antenna Systems

KIT A-3
3E8526—List. \$9.50.
YOUR PRICE **\$4.70**

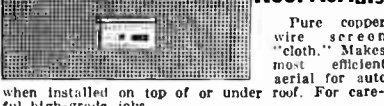
An auto antenna system for All Conditions. Eliminates interference and increases volume. Can be quickly attached to chassis of any car. Illustration shows assembly installed. Complete kit consists of: 1-Antenna impedance matching transformer, 1-receiver impedance matching transformer, 10 ft. "Nostat" shielded transmission-line, 25 ft. "Hi-Mho" auto antenna wire, 2 rear axle insulator assemblies, 1 fly-wheel housing insulator assembly, with tension adjuster. 10 feet lead-in wire. Necessary hardware for connecting included.

Lynch Kit A-2

Includes the antenna and receiver impedance matching transformers and 10 feet of Nostat shielded transmission-line. Hardware for connecting. Will reduce interference and raise the volume if installed on any aerial installation already in car.

3E8527—List Price, \$5.00. YOUR PRICE **\$2.94**

Copper Wire Screen For Auto Roof Aerials



Pure copper wire screen "cloth." Makes most efficient aerial for auto when installed on top of or under roof. For careful high-grade jobs.

4D10188—Size 18 mesh (18 squares to inch) Per Piece 3'x6". EACH **\$1.48**

Longer continuous lengths at proportionate prices.

Hang Down Auto Aerial



4D10183
List. \$2.00.
YOUR PRICE **49¢**

Attached to rear of car. Metallic conductor enclosed inside of waterproof fabric. Web straps for attaching. 10-foot rubber covered lead-in.

Spark Plug and Distributor Suppressors

For Auto Radio Motor Interference

For silencing engine noises due to spark filtration in Auto Radio installations. Resistance element enclosed in waterproof tube. Cannot short or jar loose. Strong and durable.

The two types listed below are the most popular and commonly used units. Used on practically all makes and models of cars wherever the available space allows except the new Ford Model V-8 which requires a special type suppressor.



Elbow Resistor

3E1987—

Meets the demand for unit that can be quickly and easily installed. Requires very little space for mounting.

Spark Plug Type

3E1988—This type

is the one in most general use. Fits all cars requiring standard Suppressor. Very ruggedly constructed.



3E1989—Standard distributor type, designed to maintain a good, tight connection.

3E1986—Inserts in ignition cable. Used on cars where spark plugs are not accessible. (Buicks etc.)

Ford Model V-8 Suppressor



3E1985—Special type resistor for use in all auto radio installations in late model Ford cars. A distributor suppressor cannot be used on the Ford V-8 and additional resistance is therefore necessary at the Spark Plug. Supplied with a special resistance of 50,000 ohms.

YOUR PRICE **15¢** TEN FOR **\$1.39**
EACH For Any of the FIFTY FOR
Above Types **\$6.47**

New Inductive Wire Wound Spark Suppressors

Resistance 12000 ohms. Resistance will not vary. Tough bakelite case—will withstand vibration, heat and abuse without injury. Affects engine starting, speed or gas consumption only a small fraction as much as the straight resistance type.



Spark Plug Type

3E1995—



Distributor Type

3E1997—



Cable Type

3E1996—

YOUR PRICE, EACH **21¢**
Ten for **\$1.95**

New Ward Leonard Inductive Suppressors

A new type low resistance Automobile ignition noise suppressor. Inductive type. Presents very high impedance to the oscillator discharge of an ignition spark but less than 200 ohms to the initial surge which fires the cylinder. Filter is of solid, vibration proof construction, moisture and oil proof, not affected by motor heat. Sell this item both as an improved filter and as an economy item. The low resistance usually results in 2 to 5 miles more per gallon of gas. The jerky idling of a motor with high resistance suppressors is smoothed out with the Ward Leonard suppressors.

3E1973—Spark Plug Type.
3E1974—Distributor Type.
List Price, 60¢. YOUR PRICE **32¢**

Auto Generator and Ignition Filter Units and Suppressors

Single Capacitors

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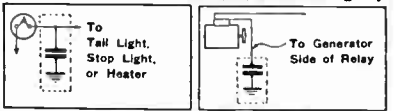
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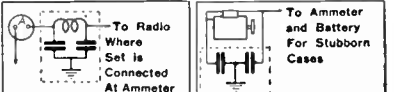
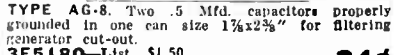
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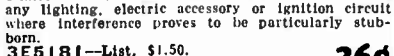
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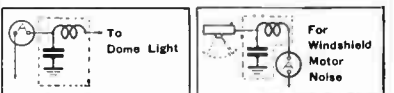
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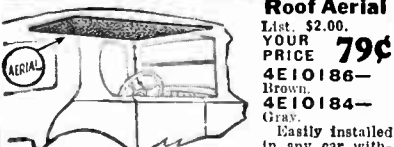
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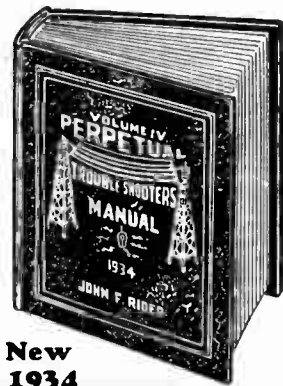
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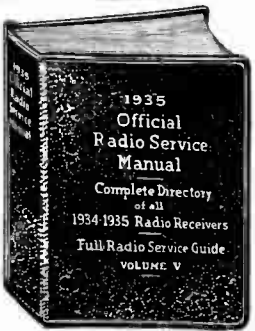


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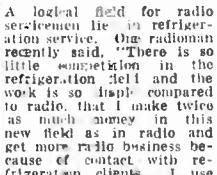
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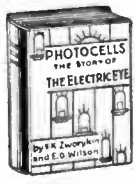


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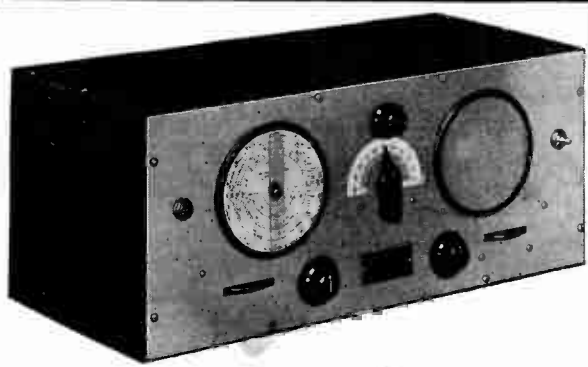
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Doubtless, there are many men in your locality who have looked longingly toward the fascination of short-wave reception, with all its alluring novelty, but have hesitated to give up their good broadcast Receiver.

Easy to Operate

The "SKYRIDER" was designed for the man who demands the same simplicity of operation in the short-wave Set he buys as that of his broadcast Receiver. There are no troublesome plug-in coils to change since its four wave-bands are selected by means of a conveniently located Knob on the face of the panel. A Continuous Band Spread adjustment, also on the front panel, extends the tuning spread of any frequency 25 times that of normal. This permits the selection of stations no ordinary Receiver could locate. There is also a sensitivity control which, when adjusted to maximum, permits the reception of continuous wave code signals.

The over-all efficiency of this Receiver is such that good volume on practically all of the powerful short-wave stations in the world may be expected in any location where such programs are heard on the most expensive types of Receivers.

Technical Features

The "SKYRIDER" is all-electric. Operates from 110-120 volt 50/60 cycle A.C. Entirely self-contained with Dynamic Speaker and specially filtered Power Pack in one crackle-finished steel case size 7 1/2"x7 1/2"x17". Bright metal front panel. Has jack on front panel for plugging in head-phones or extra speaker. Tubes used: 2-6D6s, 1-6C6, 1-42 and 1-80. Autodyne R.F. circuit having an extremely high signal sensitivity and an amazing freedom from ordinary noises which are encountered in heterodyne Receivers. The stage of tuned R.F. ahead of the autodyne detector prevents interference with other Sets. Dual gain controls, one for audio volume and one for controlling the regeneration of the detector. Specially designed coils of "square" proportions. Coupled coils are interwound.

4E10785—"SKYRIDER" complete with laboratory matched Tubes.
List Price, \$70.00. **\$39.95**
YOUR PRICE.....

The Radolek "COMPANION"



With NEW TYPE TUBES

14E10953—
Retail Value, \$21.25.
YOUR PRICE
Single Lots

\$10.20
Lots of Three Ea. **\$9.95**

- 175 to 550 Meters
- For 105/120 volt 50/60 cycle A.C.
- Efficient 4 Tube TRF Circuit
- Illuminated Dial
- Genuine Walnut Cabinet
- Tubes Used: 1-2A5, 1-57, 1-58, 1-80

The "COMPANION" is an exceptional value at our low price of \$10.20, complete with tubes. We have intentionally priced this Set below its actual value to enable you to meet any and all competition in the low price bracket. With its unusually good tone quality and genuine walnut cabinet, the "COMPANION" will give you a big advantage over the usual run of i-tube competition. Or, if you wish to use this Receiver in rental service, it will stand-up under the severest usage and come back to you, ready for the next customer.

Tuning from 175 to 550 meters, it brings in a majority of the Police Calls and thereby provides its user with endless hours of thrilling entertainment. Its improved TRF circuit is designed to take full advantage of the new type tubes which it uses and develops Sensitivity and Selectivity not ordinarily found in Sets of this Type. The Dynamic Speaker used is of good quality, free from rattles and distortion on any volume.
Genuine walnut cabinet, size 14 1/4" high, 12" wide, 9" deep.

Radolek "UNIVERSAL" AC-DC RECEIVER



Operates on Practically Any Form of Commercial Current

4E10950—
Retail Value, \$19.50.

YOUR PRICE
With Tubes
In Single Lots
\$9.85

Lots of Three Ea. **\$9.50**

An efficient Dynamic Speaker provides excellent Tone Quality and ample volume for all ordinary requirements. The New Type Tubes used have much better performance characteristics than the older types and develop results comparable with those of previous five and six tube Sets. Tubes used, 1-78, 1-77, 1-43, 1-25Z5.

Walnut Cabinet
The attractive Cabinet has walnut front and top, beautifully finished in two-tone, hand-rubbed American walnut. Gracefully curved top and off-set ends. Overall size 10 1/4" long, 7 1/8" high, 5 1/4" deep.

The Radolek "UNIVERSAL" performs with equal efficiency on 110-120 volt direct or alternating current, 25, 50 or 60 cycles. Has great power for its size and is ideal for use as a "spare" Receiver. So compact it fits in anywhere, and so portable that it can easily be carried from place-to-place and put in operation wherever suitable current is available.

An efficient Dynamic Speaker provides excellent tone quality and ample volume for all ordinary requirements. The New Type Tubes used have much greater efficiency than the older types and develop results which are comparable with that of previous five tube Sets.

NEW PHILCO

The Finest Biggest Profit Line

EVERYONE'S A PROSPECT

Your sales possibilities are unlimited! Practically everyone you know can be sold a new PHILCO Auto Radio. There is a real sales story for every class of motorists. Here are your best bets and the sales stories you should give them:



FOR TOURISTS

Motor along lakes, among hills or through the countryside—enjoy fine PHILCO music!



FOR SALESMEN AND DOCTORS

A great companion! Long trips seem much shorter with a PHILCO in your car!



FOR BUSINESS MEN

On your way home from work, hear the latest news, market reports and the finest entertainment!



FOR FARMERS

A PHILCO in your truck will pay for itself by imparting last minute market prices and weather reports!



FOR CAMPERS

Camping trips, outings and picnics are more enjoyable when you have a PHILCO in your car!



FOR SPORTSMEN

No matter where you are, a PHILCO provides a grandstand seat for your favorite sports broadcasts!



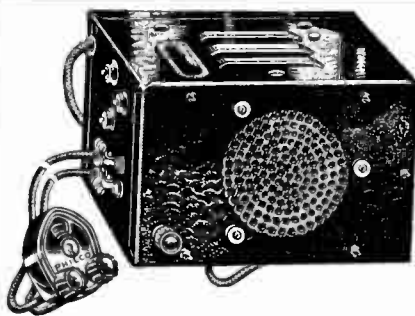
FOR TAXI OR BUS

Happy passengers mean increased business. Music and entertainment make the longest journeys pleasant!



FOR BOATS

In rough seas or calm, a PHILCO will provide the same fine reception that you enjoy on land!



MODEL 11 SIX-TUBE SUPERHET

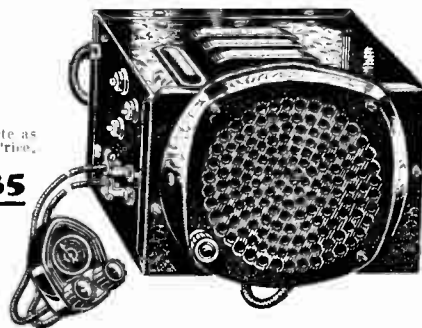
14E10161—Philco Model 11. Complete as described. List \$39.95. Dealer's Price \$26.70, Less 2% for CASH NET PRICE **\$26.17**

Philco's newest sensation—the most desirable Auto Radio ever produced at this low price. Superheterodyne circuit. Operates entirely from car storage battery. Has new full-wave Vibrator type "B" supply using a type M1 rectifier tube. Special input and output chokes in the vibrator circuit prevent engine ignition noises entering Receiver through this portion of circuit. Power supply requires no adjustment. 3-gang ball-bearing Tuning Condenser. Efficient AVC maintains uniform volume intensity. Dynamic Speaker. "B" Supply, Speaker, and Chassis housed in steel case, 9 1/4" wide, 6 3/4" high, 7 1/4" deep. Mounts underneath cowl. Illuminated Tuning Control mounts on either side of steering column. Comes complete with 6-spark plug Suppressors, 1-distributor Suppressor, 2-Filter Condensers for Ammeter and Generator, 6-Philco Tubes and instructions for installing. Tubes used: 2-44s, 1-75, 1-77, 1-42 and 1-84.

- Superb Tone—Full, Rich and Clear.
- Tremendous Power to reach all occupants of the car.
- Extreme Sensitivity. Sharp Selectivity.
- Everything in one compact Unit.
- Easily and Quickly installed under the dash, out of sight and out of the way.
- Dynamic Speaker.
- Automatic Volume Control that eliminates blasting and reduces fading.
- Attractive Tuning Control.
- Illuminated Dial.
- Yale Lock to prevent unauthorized use.

MODEL 700 SIX-TUBE SUPERHET

14E10162—Philco Model 700. Complete as described. List \$49.95. Dealer's Price, 29.95, Less 2% for CASH NET PRICE **\$29.35**



- New Airplane Type Dial which gives full tuning vision.
- Large-size Dynamic Speaker for rich, full Tone.
- 4-Point Tone Control which enables the user to adjust to the requirements of any program.
- Automatic Volume Control.
- Tremendous Power for open-car driving.
- Uniform performance over any road at any speed.
- Everything in one Unit, 10 3/4" wide x 6 3/4" high x 8" deep.
- Easy to install, only 3 holes needed.

The Model 700 is a recent Philco development offered in response to the demand among Dealers for a 6-Tube Superhet of better performance characteristics than those of the popular priced Model 11. It employs essentially the same circuit with further refinements which fully justify the additional cost. A larger and more efficient Dynamic Speaker—the Model "S"—provides greater power handling capacity and improved tone. Illuminated Airplane Dial mounts on either side of steering column. A Four-step Tone Control effectively reduces static. Built-in Tube rectifying "E" Eliminator. One unit construction. Tubes used: 2-44s, 1-6A7, 1-75, 1-42, and 1-84. Size 10 3/4" wide, 6 3/4" high, 8" deep. Mounts underneath cowl. Comes complete with 6-Spark Plug Suppressors, 1-distributor Suppressor, 2-Filter Condensers and 6-Philco Tubes.

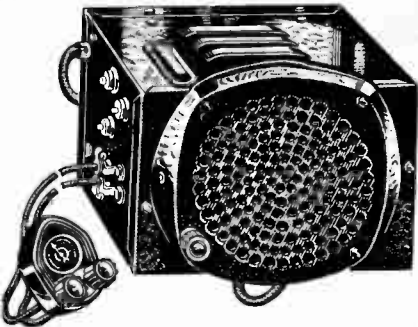
AUTO RADIO!

Most Complete In all the World



PHILCO

RANKS *first* IN PUBLIC ACCEPTANCE



MODEL 10

SIX-TUBE
SUPERHET

14E10160—Philco Model 10. Complete as described. List, \$59.50. Dealer's Price, \$35.70, less 2% for CASH. NET PRICE **\$34.99**

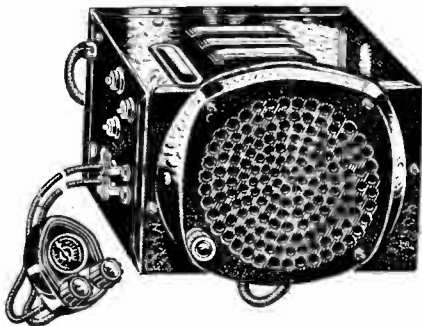
The Philco Model 10 is an ideal "sell-up" from the Model 700. Since it can easily be sold wherever its superiority over the lower priced Model 700 is demonstrated, why not pocket the substantially greater profit from the sale? The Model 10 is truly the finest 6-Tube Superhet ever designed for automobile use. No feature which could possibly add to its desirability has been overlooked. **Automatic Volume Control** at its very best. **New Type full-vision, indirectly illuminated Airplane Dial**, High efficiency built-in "B" Eliminator with tube rectifier, 4-point Tone Control. One-unit construction, and a mammoth Philco Model "K" Dynamic Speaker are all combined to produce an Auto Receiver with greater undistorted output than any 6-Tube Auto Set at this low price. Excellent Selectivity and Sensitivity assure country-wide reception. Comes complete with 6-Spark Plug Suppressors, 1-Distributor Suppressor, 2-Filter Condensers and 6-Philco Tubes (2-44s, 1-6A7, 1-75, 1-42, 1-84).

- Larger Dynamic Speaker; Model "K".
- Airplane Dial; full vision tuning.
- 4-Point Tone Control Effectively reduces static disturbances
- Improved Automatic Volume Control.
- Power and Tone comparers with modern A.C. Sets.
- Uniform performance under all conditions.
- Everything in one Unit.
- Easy to install under cowl. Container size 10 1/2" wide, 6 3/4" high, 8" deep.

MODEL 800

SEVEN-TUBE
SUPERHET

- Improved A.C.
- 4-Step Tone Control.
- Class "B" Amplification.
- 5-Watts Output.
- Built-In Filter.
- Built-In "B" Eliminator.
- Airplane Dial.
- Indirectly illuminated.
- Over-size Type "K".
- Dynamic Speaker.



The finest automobile Radio ever built by the world's greatest manufacturer of automobile radios. With it you can dominate the quality Auto Radio business of your locality. Get behind this model and push it.

The Model 800 is a super-performing 7-Tube Superheterodyne which provides reception actually equal to the best home operated receivers. It contains every practical development ever made for use in Auto Sets and its tremendous 5-watt class "B" output provides sufficient volume for all driving conditions. Drive as fast or as slow as you like, the brilliant performance of this fine Set will never vary.

The perfectly balanced superheterodyne circuit of the Model 800 provides unsurpassed Selectivity and Sensitivity. Like other Philco Models it is easily installed underneath the cowl of any car; requires only 3 holes. The case which contains Speaker, Chassis, and "B" Supply measures 10 1/2" wide, 6 3/4" high, 8" deep. Comes complete with 6-Spark Plug Suppressors, 1-Distributor Suppressor, 2-Filter Condensers and 7-Philco Tubes: (2-44s, 1-6A7, 1-75, 1-37, 1-79, 1-84).

14E10163—Philco Model 800 complete as described. List, \$75.00. Dealer's Price \$40.50. Less 2% for CASH. NET PRICE **\$39.69**

Boost Your Auto Radio Sales

Practically every family owns an automobile. . . . And practically every family is a prospect for a new Auto Radio. Prospects everywhere have an overwhelming preference for PHILCO. Therefore there is bigger business ahead for live-wire Philco Representatives. Go after this business with advertising. . . . Use these promotion pieces which have been tested and proven.

DOOR HANDLE CARD

The door handle card, shown at the left, has always been a popular promotion item. Place them on the handles of parked cars or on the door knobs of homes. Prices quoted cover cost of cards imprinted with your name and address, FOB Rochester, N. Y.



3E3270—500 for **\$3.75**
1000 for **\$5.85**

SECRET INK LETTER

The newest thing in letters for circulating your customer list. Illustration at right shows the letter before and after slipping in water. The curiosity of your prospect is immediately aroused upon receiving the letter and of course he follows instructions and dips it in water. The "secret ink" then appears and he reads the entire sales message you are putting over. Your address is also printed in "secret ink." Prices FOB Worthington, Ind. **\$4.00**



3E3271—100 for **\$4.00**
250 for \$7.00; 500 for \$10.00; 1000 for \$15.00

POSTCARDS

The most economical way for reaching old customers and new prospect. Use this series of 3 postcards to get the business. If possible obtain a list of automobile owners in your section and send them all a card each week for 3 weeks. Prices imprinted FOB Rochester, N. Y. **\$3.20**



250 each **\$3.20**
3 cards **\$3.20**
500 each of 3 cards **\$4.90**

BASEBALL SCHEDULE

The baseball schedule is sure of being preserved and referred to often. Space to stamp your name or you may order them imprinted with your name and address. Practically all big league games are now on the air and every baseball fan is a good prospect for a PHILCO Auto Set. Priced unimprinted. Imprinting 1,000 or less \$1.00 extra. FOB Chicago. **\$1.00**



3E3273—250 for **\$1.00**
500 for \$1.55; 1000 for \$3.90

Asks No Odds in Performance!

RADOLEK 6 ALL ELECTRIC TUBE AUTO SET

14E10150—Radolek 6-Tube Auto Radio complete with RCA Tubes, Spark Plug Suppressors and Condensers for 6 cylinder cars. List, \$42.50.

YOUR PRICE

\$24.99

This new Radolek 6-Tube Superheterodyne is the most compact Auto Radio on the market. The case which contains Chassis, Dynamic Speaker and "B" Eliminator measures only 8 3/4" wide, 6" high, 6 1/4" deep. Copper plating inside prevents rust and increases its shielding properties.

The Circuit

Advanced engineering plus a well planned layout, plus the best materials obtainable have resulted in the best possible performance as well as compactness. A 3-gang Tuning Condenser with tandem-offset vernier drive which prevents creeping is one of the main features. The following latest type Tubes are used: A type 78 in the first R.F. stage followed by a 6A7 Mixer-Oscillator. A stage of double tuned I.F. employs another type 78 which in turn is coupled through a single tuned I.F. transformer to the diode plate of a type 75 second Detector.

Automatic Volume Control

The type 75 Tube provides AVC for both the R.F. and I.F. Tubes. The Hi-Mu triode portion of the 75 is resistance coupled to a type 41 Power Pentode which drives a very powerful, high-grade Dynamic Speaker.

Full-Wave Power Pack

The Power-Pack uses a full-wave vibrator and a type 84 Tube for full-wave rectification. This assembly is mounted on the chassis deck where it is easily accessible for adjustment.

Airplane Dial

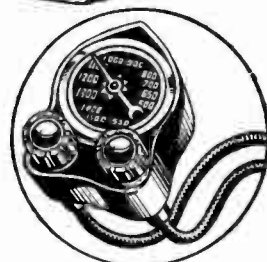
An illuminated Airplane Dial of new design is accurately calibrated in kilocycles with large white figures on a black background. Very easy to read day or night.

Easy to Install

This new Radolek Auto Set is the easiest to install—only one hole to drill and only two connections to make: Ammeter and Antenna. Feature this Set for full Profits for yourself.

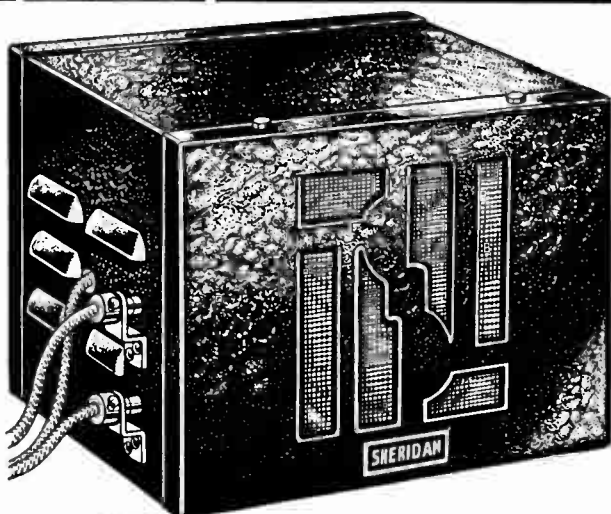


- Complete in ONE Unit
- Superheterodyne Circuit
- Automatic Volume Control
- Dynamic Speaker
- Illuminated Airplane Dial Vernier Drive Kilocycle Calibration
- Combination Volume Control and Locking Device
- Fits All Type Cars
- Easiest Auto Radio to Install
- Single Hole Mounting
- Only Two Connections



Airplane Dial

Every Sale a Satisfied Customer!



SHERIDAN 5 ALL ELECTRIC TUBE AUTO SET

14E10151—Sheridan 5-Tube Superhet Auto Set complete with 5 Sylvania Tubes and Spark Plug and Generator Suppressors for 6-cylinder Cars. List, \$37.50.

YOUR SPECIAL PRICE

\$21.95

The SHERIDAN 5-Tube Superhet is the lowest-priced, satisfactory Auto Radio we know of. It is a good leader for you and will be very popular among those of your customers who do not care to invest in a six or seven Tube Set.

6 Tube Performance

In performance the SHERIDAN is equal to older 6 and 7 Tube Auto Sets. This is due to the use of the new multi-purpose Tubes which are actually two Tubes in one envelope. Excellent Selectivity and Sensitivity have been secured through the employment of scientifically engineered ultra-high gain coils and the use of five tuned circuits. A type 41 Pentode Power Tube delivers 1.2 watts to the Dynamic Speaker and provides enough volume for all ordinary requirements.

Automatic Volume Control

The New 6A7 and 75 combination Tubes provide Automatic Volume Control action which tends to maintain the volume at a constant level regardless of signal strength; also to counteract fading.

The Chassis, Dynamic Speaker and "B" Supply Unit (Full-Wave Rectifier Type) are contained in a substantial crackle-finished steel case 12 1/2" deep, 9 1/4" wide, x 7 1/4" high. This case mounts underneath the cow by drilling only one hole. The Remote Control mounts on either side of the steering column and contains an attractive Vernier Driven Airplane Dial and Combination off-on switch and Volume Control. The Volume Control Knob has a key base and is removable, acting as a protecting lock against unauthorized use of the Receiver.

Easy to Install

The SHERIDAN is very easy to install and can be successfully placed in operation in any car within a few moments. This simplicity of installation enables you to sell the Receiver "installed" without sacrificing your profits. No aggressive Radio Dealer or Service man can afford to neglect the market which already exists for a thoroughly good Auto Radio at a low price and here is a Set with which you can dominate this rich market. Order one of these Sets TODAY and begin NOW to cash-in on this big field.



Airplane Dial

- New Type Tubes: 1-6D6, 1-6A7, 1-75, 1-41, 1-84
- Superheterodyne Circuit
- Automatic Volume Control
- Airplane Dial
- Dynamic Speaker
- One-Unit Construction
- Easy to Install
- Works with Any Type Aerial
- Marvelous Sensitivity
- Ample Selectivity
- Plenty of Power
- Furnished Complete
- Ready to install

RADOLEK 4 TUBE DUAL WAVE



\$13⁹⁰
COMPLETE WITH TUBES

AC

75-555 METERS

A
New Low Priced Set
That's in Step with the Times

Here is a vastly improved 4-Tube Receiver that will make a timely sales leader for you. Order in a few, place them on display and see how quickly they will sell themselves.

The Radolek 4-Tube Dual-Wave Receiver is sure to be popular with your trade because of its many points of supremacy over other Sets of this type. It actually doubles the short-wave entertainment by tuning all the way down to 75 meters instead of only to 175 meters, the customary limit for 4-Tube Sets.

Many Exclusive Refinements

The Radolek 4-Tube Dual-Wave has refinements rarely found in Receivers of this type: Illuminated Vernier Drive Dial accurately calibrated in kilocycles, Full-Range Tone Control.

The Cabinet is handsomely designed

along modernistic lines and is made of select veneers, durably and beautifully finished. Front panel and center of top and sides are of natural finish bird's-eye maple; edgings and top overlay of contrasting darker finish. Overall size, 9 1/2 inches wide, 9 inches deep, 12 inches high.

An Outstanding Value

If you will compare this New Radolek 4-Tube Dual-Wave Receiver, feature for feature, with others selling at the same price you are sure to agree that in Radio Sets (as in other Radio Merchandise) Radolek offers you a little more for a little less money.

14E10962—Radolek 4-Tube Dual-Wave Receiver for 105-120 Volt 50/60 cycle A.C.

Complete with RCA Tubes (1-42, 1-77, 1-78, and 1-80).

List Price, \$24.50.

\$13⁹⁰
YOUR PRICE.....

- Latest Circuit—New Type Tubes
- Illuminated Vernier Drive Dial
- Accurate Kilocycle Calibrations
- Smooth Full-Range Tone Control
- Finest Quality Dynamic Speaker
- Sturdy: Built to Last a Lifetime
- Beautiful Modernistic Cabinet

RADOLEK Superhet 5 TUBES DUAL WAVE



75-555 METERS

\$19⁵⁰
COMPLETE WITH TUBES

We've found what Features Radio Buyers look for in a Low Priced Receiver and here they all are:

- Full Superheterodyne Circuit
- Latest High Efficiency Tubes
- Full Automatic Volume Control
- Smooth, Stepless Tone Control
- Illuminated Vernier Drive Dial
- Accurate Kilocycle Calibration
- Noise Blocking AC Line Filter
- Finest Quality Dynamic Speaker
- Electric Phonograph Connection
- Beautiful Modernistic Cabinet

This five-Tube Midset leads all others in all-round sales appeal. It has all of the above enumerated, modern features—those qualities which today's Set Buyers want and are willing to buy; and it also has eye appeal combined with outstanding performance;

Coast to coast reception is consistently possible with this Receiver in all localities of ordinary favorability for DX. Designed to take full advantage of the latest type High-Gain Tubes. It develops amazing Sensitivity and Selectivity over its entire range of 75 to 555 Meters.

Big-Set Volume and Tone

Far better Tone Quality than is ordinarily experienced from small Sets distinguishes the Radolek 5-Tube Dual-Wave Superhet from all the rest. A good Dynamic Speaker, sufficiently large to easily handle the full power of its pentode output results in reproduction of brilliant quality.

This is a Receiver you will enjoy demonstrating to your trade because it has so many new features to talk about: Its Illuminated Vernier Drive Dial accurately calibrated in kilocycles enables the user to turn instantly to the desired program or to identify unknown signals from their transmitted frequency. Its Full Automatic Volume Control is very efficient and eliminates biasing and reduces fading. An exclusive feature, a Noise Blocking A.C. Line Filter reduces extraneous noises to the minimum. A Tone Control and Phonograph Connection make complete its refinements.

Distinctive Cabinet

There is visible value in every detail of this Receiver. To insure its immediate acceptance we have selected a Cabinet of outstanding attractiveness and sturdiness. Sides and top as well as front panel are handsomely paneled in two-tone American walnut veneers. Two lines of marquetry on the front panel accent its modernistic design. Overall size 10 1/2 inches wide, 7 inches deep, 12 3/4 inches high.



14E10963—Radolek 5-Tube Dual-Wave Superheterodyne for 105-120 volt 50/60 cycle A.C. Complete with 5 RCA Tubes (1-6A7, 1-42, 1-75, 1-78, 1-80).

List Price, \$33.00

YOUR PRICE.....
25 cycle available for \$1.00 extra.

\$19⁵⁰

RADOLEK 5 TUBE AC

180 - 550 - METER
COMPACT



Compares Favorably with Most Six Tube Receivers

14E10966—Radolek Compact 5-Tube Receiver for 105/120 Volt, 50/60 cycle A.C., complete with 5 Triad Tubes. List, \$23.50.
YOUR PRICE

\$11⁴⁴

- TRF Circuit—Latest Type Tubes
- Illuminated Dial—Kilocycle Calibration
- Full-flux Dynamic Speaker—Ample Power
- Tunes 180 to 550 Meters—Police Calls
- Excellent Sensitivity and Selectivity
- Very Compact, Completely Portable

How is competition for the Set business in your locality. . . . Is it very keen? If it is, here is an A.C. Receiver that should interest you as a Dealer:

This New Radolek 5-Tube A.C. Compact is just the type of Set many people are looking for—it is small . . . light . . . performs well; and is very attractive in appearance. Yet the price is amazingly LOW.

It is very Sensitive and Selective, and while not intended for use as a distance-Receiver, you will be amazed at how easily and clearly it brings in stations which are beyond the reach of other less modern 5-Tube Sets.

Performance comparable with 6 or 7 tube Sets which were considered "modern" only a few months ago has been accomplished by the use of the New multi-purpose Tubes which do double duty and are really two Tubes in one envelope.

More than ample volume is secured by the use of the powerful type 42 Pentode Output Tube feeding a Dynamic Speaker of exceptional efficiency.

The Gear-driven Vernier Dial is illuminated and is calibrated in kilocycles for convenience in selecting and identifying stations. The combination Volume Control-Power Switch Escutcheon matches the Dial in appearance.

The Cabinet of this Receiver is far more impressive in design and finish than you would expect to find on a Receiver at our extremely Low Price. Front panel of select walnut veneer, top and sides of solid gum wood. Neatly carved on all three exposed sides, Rubbed, American Walnut finish. Overall size, 11 3/4" long, 6 3/4" deep, 7 3/4" inches high. An ideal size for one's "personal" Receiver. Easy to carry about. Just the thing for office, Sun Porch, Den, Bedroom, Nursery or Kitchen. Many dealers and Servicemen are also using this type for rental.

Tubes used and furnished with Receiver: 2-6D6s, 1-6C6, 1-80 and 1-42 (Triad).

RADOLEK DUAL WAVE

5 TUBE AC·DC Superhet

75 TO 555 METERS

- The Smallest Superheterodyne Made.
- Uses Latest Type High-gain Tubes.
- Vernier Tuning, Kilocycle Calibration.
- Built-in Antenna for Local Programs.

Five Tubes are necessary for satisfactory results if the A.C.-D.C. Set your Customer selects is expected to reach out beyond the "locals"; and nothing but a Superheterodyne will provide sufficient selectivity to enable him to take full advantage of all available Radio entertainment.

This New Radolek 5-Tube A.C.-D.C. Superhet fulfills both requirements completely. In addition its extended tuning range of 75 to 555 Meters opens up avenues to many thrilling features which are unattainable with the ordinary broadcast Receiver.

This Dual-Wave Feature alone will close many sales for you because here, at last, is a small Set that actually provides satisfactory operation on the short-wave channels.

Latest Type Tubes in an improved circuit results in remarkable power.

Its beautiful bronze Dial with Vernier Tuning and Kilocycle Calibration are also big selling features. They add attractiveness and convenience by enabling the user to select stations by their published transmitting frequency, or identify unknown ones from the dial setting.

A separate Short-Wave Switch on the rear side of the chassis is flipped to change from broadcast to the lower wave lengths. Switch is so conveniently situated that user may reach behind Receiver and change from one wave band to the other without moving the set.

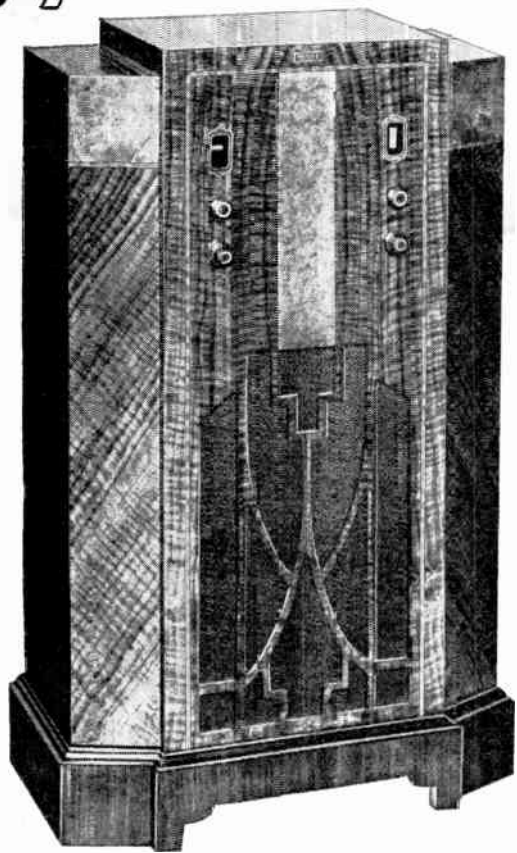
The Cabinet is a handsome design with two-tone walnut and bird's eye maple veneers. Very substantially made; durable and artistically finished. Its compact size—only 9 1/2 inches wide, 4 1/2 inches deep by 6 3/4 inches high.



14E10967—Radolek 5-Tube A.C.-D.C. Superhet for operation on any 25, 40 or 60 cycle 110 volt A.C. or D.C. complete with 5 RCA Tubes (1-25Z5, 1-13, 1-41, 1-77 and 1-78). List Price, \$28.50.
YOUR PRICE. ONLY

\$16⁷⁶

Your Customers want to hear



Tunes 12.5 to 550 Meters and has These Features

- Automatic Volume Control
- Improved Superheterodyne Circuit
- Latest Type High-gain Tubes
- Silent Meter Tuning
- Stepless Tone Control
- Three-gang Tuning Condenser
- Electro-Dynamic Speaker
- Gear-driven Vernier Dial
- Accurate Kilocycle Calibration
- Finest Performance on broadcast
- European Reception
- Phonograph Connections

Thrill your clients with Old World programs! In any location where you can receive 1500 mile broadcast programs at night, this powerful receiver will pick up European Short Wave Signals under reasonable atmospheric conditions, in full Daylight. Thousands of foreign born Americans delight in hearing their fatherland, they thrill to the native music they left behind. With this receiver you can gratify them—at a nice profit.

4E10981—Radolek "TRAVELOG" Console Model for 105-120 volt 50/60 cycle A. C., complete with six RCA Tubes. List, \$79.50. **YOUR PRICE**

\$46⁷⁵

The CONSOLE MODEL

...distinctively modern design of beautiful, carefully selected and matched walnut veneers. The handrubbed finish equals that of the most expensive of furniture. The wonderful performance of the chassis, both on short-wave and broadcast bands, combined with this beautiful console Cabinet, make this an ideal Receiver or discriminating Radio buyers. Only the most expensive Sets incorporate all of its features: All-Wave Tuning Range (12.5 to 555 meters), Superheterodyne Circuit, Meter Tuning, Tone Control, Three-gang Tuning Condenser, Dynamic Speaker, and the Latest Type Tubes. Console Size, 38 inches high, 12 inches deep, 24 inches wide.

• • Covered By Regular R. M. A. Guarantee • •

FOUR TUNING BANDS—The Radolek "TRAVELOG" covers all wave lengths from 12.5 to 555 Meters. The selector switch automatically exposes the proper tuning scale (graduated in kilocycles and megacycles) for each frequency band. Ranges: 535 to 1500 kilocycles Broadcast, 1.5 to 4 megacycles for police calls, 4 to 10 megacycles and 10 to 24 megacycles for European broadcast.

EFFICIENT ON ALL RANGES—Use of an Independent Oscillator circuit in this Receiver eliminates the "birdies" and cross-talk common in most Sets not expressly designed for high frequency reception.

METER TUNING—Illuminated Shadowgraph Tuning Indicator permits tuning in signals that the ear would miss by conventional "ear" tuning. It also provides means for more perfect resonance adjustments and resultant better reception of all stations.

AUTOMATIC VOLUME CONTROL—Counteracts fading and tends to maintain an even volume level irrespective of signal strength.

THREE-GANG TUNING CONDENSER and six sharply tuned circuits provide knife-edge selectivity and render all available Radio entertainment usable.

7 MICROVOLT SENSITIVITY provides far-reaching coverage on all wave lengths.

LATEST TYPE TUBES give 8 Tube performance. The six tubes used are: 1-2A5, 1-2A6, 1-2A7, 2-58S, 1-80.

PHONOGRAPH CONNECTIONS provide for the addition of electric pick-up and turntable for the reproduction of ultra-fine music from phonograph records.

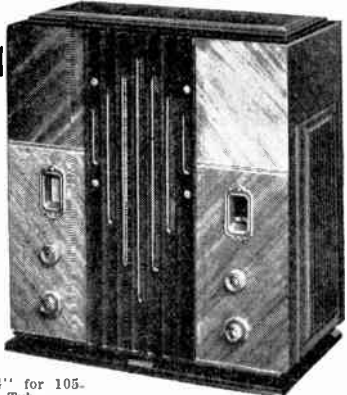
TONE CONTROL for the adjustment of bass and treble to suit the individual taste and for the suppression of static.

TABLE MODEL

Uses the same marvelous Chassis as that of the Console Model. Tunes in foreign stations, police calls, airplane signals, as well as regular broadcast band, with better tone and greater volume than is attainable on most larger, more expensive models. Recommend this model to those customers who want a Table Model Receiver of exceptionally fine performance. It has every modern improvement necessary for real radio reception and will prove its worth as a really efficient, dependable performer. The cabinet is of beautiful walnut veneers and hand-rubbed finish. Distinctively modern in design. Will harmonize with the furnishings of any home. Overall size, 15 inches high, 13 inches wide, 7 1/2 inches deep.

4E10980—Radolek Table Model "TRAVELOG" for 105-120 volt 50/60 cycle A.C., complete with 6 RCA Tubes. List Price, \$59.50.

YOUR PRICE



\$35⁰⁰

Recent developments in Radio Receivers, combined with improved broadcasting facilities, have made the reception of foreign stations possible. Your customers are intensely interested in tuning in foreign short wave stations, as well as those on the domestic broadcast band. The RADOLEK TRAVELOG has been developed to give the ultimate purchaser the ability to tune in all of these. Everyone enjoys a thrill and this extension of the field of possible Radio entertainment has business booming for Radio Dealers who are featuring Receivers capable of bringing in foreign stations.

Demonstrations Make Sales Easy

The RADOLEK "TRAVELOG" will really sell itself upon demonstration. Its marvelous performance on all bands will give your customers an even greater thrill than was theirs at hearing their first Radio. In addition, it has every modern refinement your trade can demand—all at a very reasonable price.

New RADOLEK BATTERY FARM SETS

DUAL WAVE BATTERY 75 to 550 METERS

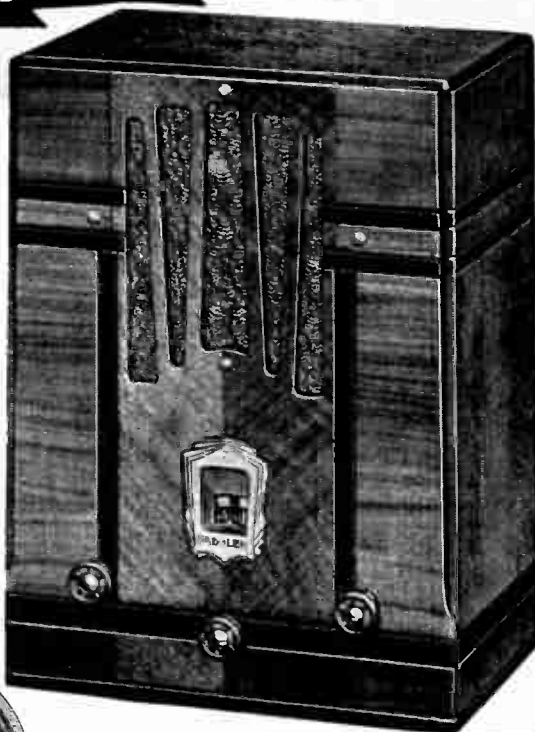


Two Up-to-date Sets for Rural Use with as much Quality and Performance as Similar A.C. Sets

8 GREAT FEATURES

- (1) Superheterodyne Circuit—Very Sensitive
- (2) Dual-Wave Tuning—540-4000 Kilocycles
- (3) Automatic Volume Control—Very quiet
- (4) Full-Range Tone Control—Reduces Static
- (5) Illuminated Vernier Dial—KC Calibration
- (6) Fine Quality Dynamic Speaker—Good Tone
- (7) New High-Amplification, Low Drain Tubes
- (8) Beautiful Modernistic Cabinet

Either of these two great new Radolek Superheterodynes (2-volt Battery operated or 32-volt all-electric) is available in this attractive Modernistic Table Model Cabinet. This is a Cabinet of outstanding beauty and in right up-to-the-minute in design.



32 VOLT ALL ELECTRIC

Operates on Any 32-Volt Farm Light Plant

A new 5-Tube Superheterodyne which plugs directly into the socket of a 32 volt light plant outlet. All electric in operation—derives all B, and C current from an efficient built-in all-wave Vibrator—no batteries needed. "A" current taken directly, from the 32 volt storage batteries. Very economical to operate; draws only 3 Amps. total.

Your customers who have Delco or other 32 volt systems will be delighted with the performance of this new Receiver. It offers a greater range and finer Selectivity. Being a Superheterodyne, it is very sensitive. Brings in distant stations like "locals" and cuts out over-lapping signals.

Automatic Volume Control maintains even volume levels. Blasting while tuning is eliminated and fading is greatly reduced. A Full-Range Tone Control provides controlled frequency discrimination to suit the individual taste and effectively reduces static disturbance.

Dynamic Speaker of finest quality. Produces a deep, rich tone that heretofore was possible only with A-C Sets. The Speaker is operated without excess battery drain.

RANGE 75 TO 555 METERS

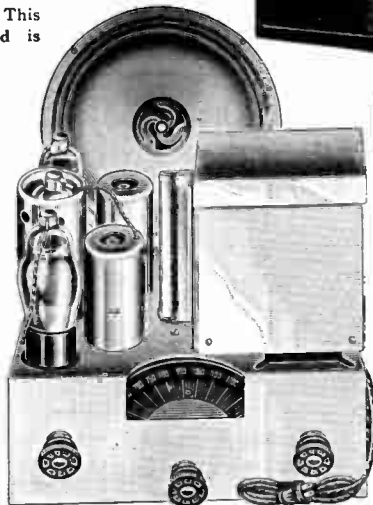
This Receiver brings in Police Calls, Airplane Contacts and Ships at sea on the short waves; and stations near and far on the regular broadcast band. The Dial is verner driven and accurately calibrated in kilocycles for quick and easy tuning. Five New Type Low-drain Tubes are used: 1-6A7, 1-7B, 1-75 and 1-84. The Beautiful Cabinet used is shown above. Made of the choicest walnut veneers with contrasting overlays. Hand-rubbed American walnut finish. Overall size 9 1/2" wide, 6 1/2" deep, 14 1/2" high.

14E10968—Radolek 5-Tube Superheterodyne for 32-volt D.C. operation, complete with five RCA Tubes.

\$26⁷⁵

List Price, \$45.50.

YOUR PRICE



CHASSIS TUBES AND SPEAKER PRICES

These two Chassis offer you a wonderful opportunity for modernizing obsolete battery-operated Receivers. You only need to demonstrate the improved performance of either of these Chassis, to interest anyone who is now getting along with one of the "old-timers".

14E10995—Radolek 5-Tube Dual-Wave Chassis for 32-volt D.C. operation, 6 1/2" matched Dynamic Speaker and 5-RCA Tubes. (1-6A7, 1-42, 1-75, 1-7B, 1-84) Chassis size: 8 3/4" wide, 6" deep, 8 1/4" high. List Price, \$39.50.

YOUR PRICE **\$23.23**

14E10996—Radolek 5-Tube Dual-Wave Chassis for 2-volt Battery operation, 6" Best Kinematic Speaker, 5 RCA Tubes. (1-1A6, 1-19, 1-30, 1-32, 1-34) Chassis size: 8 1/2" wide, 6" deep, 8 3/4" high. List Price, \$27.00.

YOUR PRICE **\$15.88**

2 VOLT BATTERY OPERATED

Battery Lasts Full Year

This New Radolek 5-Tube 2-Volt Superhet uses the latest type Eveready 2-Volt Air Cell that requires no attention. Hook it up and forget it. With an average of 2 to 3 hours use daily the battery will give a full year's efficient service.

You'll marvel at the Selectivity, Sensitivity, and Tone of this battery operated Superhet. It is truly as modern in performance and appearance as the latest A.C. Sets. The same modern features which distinguish the Radolek 5-Tube 32-volt Receiver described at the left are to be found also in this model.

CLASS "B" AMPLIFICATION

Type 19 push-pull power output tube transformer coupled to a type 30 driver tube fed through a resistance-capacity coupling from a type 82 screen-grid Detector. This tube also provides Automatic Volume Control current for the type 54 intermediate frequency tube. A 1A6 acts as the mixer-oscillator tube.

Six-tand circuits provide ample Selectivity on both broadcast and short-wave bands.

A New Type Best Kinematic Power Speaker—capacity of handling the entire output of the Set provides smooth, distortionless reproduction at all volume levels. Illuminated Vernier Dial graduated in kilocycles. New Type Low-drain Tubes draw only 1/2 Amp. of "A" current and 20 ma. of "B".

The Attractive Cabinet supplied is illustrated above. Modernistic in design. Made of finest walnut veneers with hand-rubbed American walnut finish. Size 9 1/2" wide, 6 1/2" deep, 14 1/2" high.

14E10969—Radolek 5-Tube Dual-Wave Superhet (75-555 Meters) for 2-volt Battery operation, complete with RCA Tubes; less "A" and "B" batteries.

List, \$33.00.

YOUR PRICE

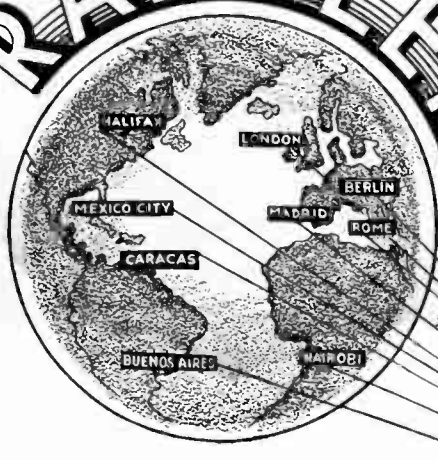
\$19⁵⁰

3E17—Special Set of 3-45 volt heavy-duty "B" batteries and 1 Eveready Air Cell.

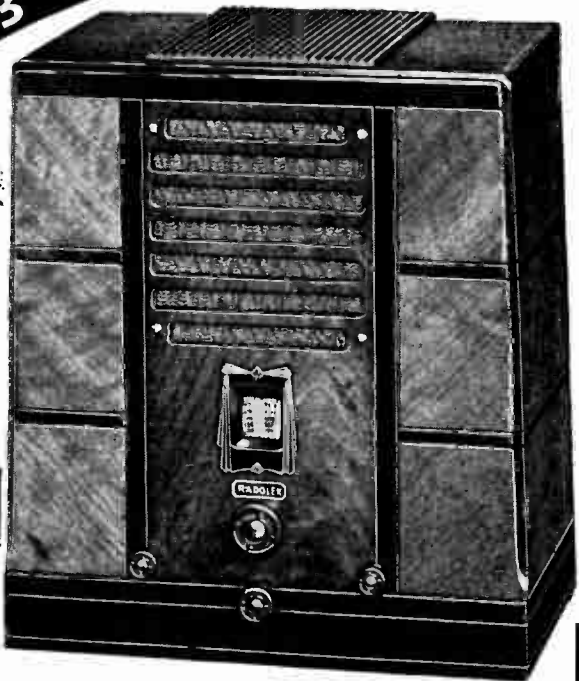
YOUR PRICE

\$8.10

RADOLEK 8-TUBE Superhet ALL WAVE 13 TO 2500 METERS



- ◆ Superhet Circuit—New Type High-Efficiency Tubes
- ◆ Push-Pull Type 42 Power Tubes—Six Watts Cutput
- ◆ Automatic Volume Control for Smoother Operation
- ◆ Smooth Full-Range Tone Control and Static Reducer
- ◆ Vernier Dial Accurately Calibrated in Kilocycles
- ◆ Color of Dial Light Changes with Each Wave Band
- ◆ High Grade Eight-Inch, Full-Flux Dynamic Speaker
- ◆ Modernistic Cabinet Finished in American Walnut



5 Tuning Ranges

Think of it . . . Only \$54.50 List (Your Price \$31.95) for a Modern 8-Tube Superheterodyne that covers the entire range of frequencies used in practical Radio communication. Band No. 1: 13-41 Meters; Band No. 2: 25-82 Meters; Band No. 3: 68-201 Meters; Band No. 4: 200-550 Meters and Band No. 5: 790-2540 Meters.

This is the first successful 5-Band Receiver ever offered at a popular price. Everything on the air is within its range: American and Foreign Broadcast, Amateur Calls, Police Calls, Airplane Communications, Weather Forecasts, Time Signals and many other interesting features which are not attainable with the ordinary single or dual-band Receiver.

Coverage of the entire spectrum of frequencies now in practical use is accomplished without the use of troublesome plug-in coils. Tuning on any wave length is accomplished by simply selecting the desired band by turning a knob on the front panel of the Set, and then tuning to the desired signal by means of the vernier driven Tuning Dial. For easy identification of each of the five bands covered, the color of the dial light automatically changes as each coil is switched into the circuit.

Stable in Operation
Improvements in coil and circuit design have resulted in amazing efficiency over the full range of the Receiver. The Set is outstandingly stable in operation and provides consistent and dependable performance on any wave lengths.

Many Refinements
The Radolek 8-Tube All Wave Superheterodyne incorporates every practical refinement known to Radio: Its improved Automatic Volume Control. Its Vernier Driven Dial is accurately calibrated in kilocycles and has a separate circle of readings for each wave band.

Eight Inch Dynamic Speaker, a size rarely found in a Receiver of this type, is used in the Radolek All-Wave Superheterodyne. "The better the Speaker, the better the Radio" and our Engineers have selected a Speaker which does justice to the fine performance of the chassis.

Full-Range, Stepless Tone Control enables the owner of this Set to adjust to that frequency response which brings in the various types of programs to their best advantage. The "Tone Control" is also very effective in reducing static noises.

New Type Tubes: 1-37, 3-78s, 1-85, 1-'80 and 2-42s in push-pull output are used in a circuit designed to realize from these new type tubes their full efficiency.

Phonograph Connections

Instructions are furnished for the installation of an electric pick-up for the reproduction of ultra-fine entertainment from phonograph records. In our Public Address section you will find suitable electrically driven turn-tables and pick-ups with which you can transform this Receiver into a combination instrument of the finest quality.

A Beautiful Cabinet

The Cabinet of the Radolek All-Wave Superhet is certainly one of distinction. Burl walnut veneer center panel is flanked on each side by panels of select crackle grain light American Walnut veneer. The paneling effect is applied to the sides as well as the front, a feature not found on any but the most expensive cabinets. The top is also finished as beautifully as the front; A center panel of grooved hardwood in contrasting finish emphasizing the modernistic lines of the Cabinet. Overall size, 13 1/2 inches wide, 8 1/2 inches deep, 16 1/2 inches high.

A Very Popular Receiver

The Radolek 8-Tube All-Wave Superheterodyne will be one of the most popular Sets you have ever handled if you will place one on demonstration where your customers can see for themselves what a remarkable value it is—How wonderfully it performs on all wave lengths; what wonderful Tone it has, how keenly sensitive, and how acutely selective it is. This Receiver offers the most available in the way of variety and quality of entertainment for the money.

Modernize Old Sets

Or perhaps you know of several people who have obsolete Receivers in fine Cabinets which could be economically modernized by the installation of a new Chassis. For such jobs, the Radolek All-Wave Chassis and matched Dynamic Speaker offers an ideal solution. The Chassis measures 8 inches deep, 13 inches long and 7 inches high, overall. It employs all modern refinements: new close-fitting tube shields, ball bearing Tuning Condensers, Over-capacity Power Transformer, Condensers and Resistors and a very sturdy chassis base.

Price List

14E10970—Set Complete with 8 RCA Tubes for 105-120 Volt 50/60 Cycle A.C. List Price, \$54.50. **\$31.95**

YOUR PRICE 25 cycle available for \$1.50 extra.



Prices Chassis-Tubes-Speaker

14E10973—Chassis, 8 RCA Tubes and Matched 8" Dynamic Speaker. For 105-120 Volt 50/60 Cycle A.C. List Price, \$48.50. **\$28.50**

YOUR PRICE
14E10974—As Above for 105/120 Volt 25 Cycle A.C. List Price, \$51.00. **\$30.00**

MERSHON Electrolytic Condensers

Triple 8
8-8-8
Total 24 Mfd.
3E5887—
YOUR PRICE **\$1.12**

These are genuine Mershon Condensers, offered to you at Real Bargain Prices. Quality Guaranteed. Peak voltage 150. Mounting brackets and vent covers not included.

Upright Mounting

Stock Number	Capacity Mfd.	List Price	Your Price
3E5885	8-18	\$4.50	50.75
3E5887	8-8-8	6.00	1.12
3E5888	9-9-18	6.00	1.45
3E5889	8-8-8-18	7.50	1.95
3E5890	8-8-18-18	7.50	1.95

Stud Mounting Type

Stock Number	Capacity Mfd.	List Price	Your Price
3E5891	4	1.25	.42
3E5892	6	1.35	.45
3E5893	8	1.45	.49
3E5894	10	1.70	.50

Grid Resistances

All wire-grid resistances covered with varnished cambric can be bent any shape. Small—compact—length 2 1/2 to 12 inches. Pirital leads.

Stock Number	Resist. Ohms	Stock Number	Resist. Ohms
3E285	25	3E312	1,600
3E287	75	3E314	1,700
3E288	100	3E316	1,800
3E290	200	3E317	2,000
3E293	300	3E318	2,250
3E294	350	3E319	2,500
3E297	450	3E320	2,600
3E298	500	3E322	2,800
3E300	600	3E323	3,000
3E301	650	3E324	3,500
3E302	700	3E325	4,000
3E305	900	3E326	5,000
3E306	1000	3E327	6,000
3E308	1200	3E341	7,000
3E309	1300	3E342	8,000
3E310	1400	3E343	9,000
3E311	1500	3E344	10,000

YOUR PRICE, EACH **10¢**
10 for 85¢


Indoor Aerial Wire

For A.C., D.C. Sets
3E2074—60' coil.
YOUR PRICE **29¢**
Extremely flexible. A well insulated stranded conductor is covered with a brown cotton braid.



POLYMET Electrolytic Condensers

Triple 8
8-8-8
Total 24 Mfd.
Peak Voltage 430
3E5487—
YOUR PRICE **89¢**
Size 3 1/2" high, 4" wide.




Single 4 Mfd. Peak Voltage 430

3E5488—**29¢**
YOUR PRICE
Size 4 1/2" high. Diameter 1 3/8". Stud mounting. Condenser is negative.



Dual 4 Mfd. 4-4 Total 8 Mfd. Peak Voltage 430

3E5489—**49¢**
YOUR PRICE
Size: 5 1/2" high. Diameter 1 3/8". Stud mounting. Container is negative. One positive connection at each end.



Mounting Clamps and Covers

For use with multiple type condensers for replacements.

Clamps	Covers	Diameter	Your Price
3E5872	3E5875	2 1/2 in.	5¢
3E5873	3E5876	3 in.	
3E5874	3E5877	3 1/2 in.	

Midget Carrying Case

Extra heavy suedeette material. Strong and durable. Securely attached handles. Durable brown brass studs are attached to a heavy reinforced bottom.



Zipper Type

Stock Number	For Sets NOT Larger Than	YOUR PRICE
4E10765	0" x 6" x 5"	\$1.42
4E10766	1 1/2" x 8 1/4" x 5 1/2"	1.59
4E10767	1 1/2" x 8 1/4" x 5 3/8"	1.65

WHITE-CROSS Electric Food Mixer

The White-Cross Food Mixer and Juice Extractor will take care of practically all mixing, beating and whipping purposes. For mixing batter for waffles, pancakes, cookies, for mixing ingredients for all kinds of cakes, muffins, pop-overs, sandwich fillings, etc., for mashing and whipping potatoes, turnips or squash and for whipping creams and icings and mixing drinks it has no equal. Juices are quickly and thoroughly extracted from oranges, lemons, limes and grapefruit. Mayonnaise may be thoroughly mixed with ease and comfort. A kitchen aid that will save time and effort and do a better job. Always ready for instant use.



14DI1080—List, \$18.75.
YOUR PRICE **\$10.78**

Complete with one large and one small mixing bowl, one juice extractor, one juice extractor reamer, individually removable self-cleaning beaters, ball bearing self-revolving bowl platform, sturdy and silent three-speed portable powerful motor.

PHILCO Replacement Power Transformers

Genuine Philco replacement transformers made by Jefferson. These transformers are built for continuous operation without excessive heat and are approved by the Underwriters Laboratories. All windings are dipped in insulating varnish and baked. Heavy impregnated insulating material between the windings insures further protection. Extremely rigid construction gives complete freedom from mechanical hum; and the drawn steel housings protect windings and improve appearance. Diagrams giving complete specifications and hook-up included with each transformer.

For PHILCO 511 Part Num. 3073

For replacement in Philco 511 or other seven tube radio sets using 4-26, 1-27, 1-71A and 1-80. Primary 105-125 volts, 60 cycles A.C. Secondaries 375 V. C.T. @ 37 Ma., 1.5 V. @ 4.3 amps., 2.5 V. @ 1.9 amps., 5 V. C.T. @ 16 amp., 5 V. @ 2 amps.


3E4250—
List Price, \$7.00.
YOUR PRICE **\$1.65**



For PHILCO 21 Part Num. 4813

For replacement in Philco model 21 or other radio sets using 3-24's or 3-58's, 1-27 or 1-56, 2-45's or 2-47's, 1-80 or equivalent tubes. Primary 105-120 volts 60 cycles A.C. Secondaries 700 V. C.T. @ 110 Ma., 2.5 V. C.T. @ 7.5 amps., 2.5 V. C.T. @ 3 amps., 5 V. @ 2 amps.

3E4251—
List Price, \$6.00.
YOUR PRICE **\$1.80**



For PHILCO 91-121 Part Num. 6554

For replacement in Philco model 91-121 or other radio sets using 2-44, 1-36, 3-37, 2-41, 1-80 or equivalent tubes. Primary 105-125 volts, 60 cycles A.C. Secondaries 670 V. C.T. @ 130 Ma., 4.5 V. C.T. @ 3.5 amps., 5 volts @ 2 amps.

3E4252—
List Price, \$5.00.
YOUR PRICE **\$1.95**



For Philco 70A, 270A, 370A Part Num. 5118

For replacement of 25 cycle power transformers in Philco models 70A, 270A, 370A and other sets using 1-24's or 4-58's, 1-27 or 1-56, 3-47 or 1-15, and 1-80. Primary 105-120 volts, 25 cycles A.C. Secondaries 665 V. C.T. @ 95 Ma., 2.5 V. C.T. @ 9.2 amps., 2.5 V. C.T. @ 1.5 amps., 5 V. @ 2 amps.

3E4253—
List Price, \$8.00.
YOUR PRICE **\$1.95**

NOTE—Can Be Used On 110 V. 60 Cycle Receivers.

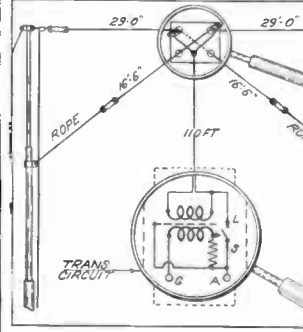


See Page 16
Radolek has made available to you at an unheard of low price a Genuine Neon "Radio Service" Sign.

RCA "World Wide" Antenna System

Model 9500. This system makes available to every owner of a short-wave, all-wave or regular broadcast radio receiver the advantages of a scientifically-correct antenna. Through its installation are overcome the two major faults common to any antenna of the conventional type: (1) Lack of uniform reception over the short-wave broadcast range—(2) Severity of local noise interference produced at the higher frequencies by electrical appliances, power lines, street cars, etc. This system embodies two separate antennas of the efficient doublet type, a twisted-pair lead-in and a special coupling transformer.

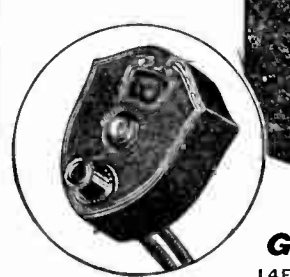
The two antennas are tuned respectively to opposite ends of the short-wave range and cross-connected to provide uniform performance at all interesting frequencies. Signals collected by the antenna are transferred to the receiver with negligible loss. Signals are not "picked-up" by the transmission line itself. Noise interference is reduced to a negligible value or entirely eliminated. By means of the wavelength-transfer switch, the antenna may be converted for use in the standard broadcast band (540 to 1500 k.c.) and in the police, aviation and amateur bands at frequencies up to 6000 k.c.



- ### Contents of Kit
- 2—45 1/2" coils Antenna Wire
 - 1—110' coil Transmission Line
 - 1—Receiver Coupling Transformer with Wave Length Change Switch
 - 4—Strain Insulators
 - 2—Cross-over Insulators
 - 2—Nail-Knobs
 - 2—Pieces Cambric Tubing
 - 1—Tube Insulator
 - 1—Cleet
 - 1—Ground Clamp
 - 1—Installation Instructions and Certificate
- 3E8528—
List Price, \$7.00 **\$3.53**
YOUR PRICE

G-E Auto Set

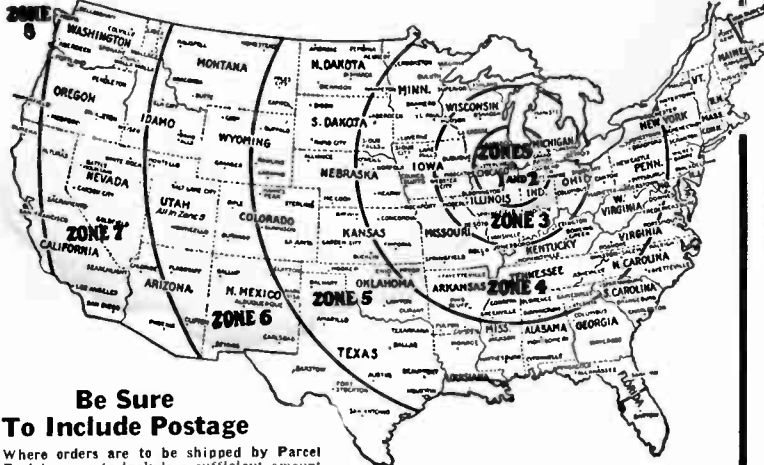
- 1—Nationally Advertised; Nationally Known
- 2—All Electric, Single Unit Construction
- 3—Compact Designs; Easy to Install



G. E. Model 40-B
14E10152—Complete with Tubes and Accessories.
List Price, \$39.50.
YOUR PRICE **\$23.70**

One of the most widely advertised auto sets on the market, the GE-RCA Model 40-B offers you an opportunity to cash in on its tremendous popularity. The single unit case houses chassis and speaker. Full automatic volume control, tone control, key lock with volume control, and illuminated remote control are features which help to make this set outstanding in performance. Size only 8 1/2 x 8 1/2 x 7" deep. Supplied complete including 1-78, 1-6A7, 1-6B7 and 1-89 tube.

It's Easy to Figure Delivery Charges on Your Order



Be Sure To Include Postage

Where orders are to be shipped by Parcel Post be sure to include a sufficient amount to cover postage with your remittance. Where postage is not included we will ship C.O.D. for transportation charges. You can avoid the additional expense of C.O.D. collections by sending sufficient postage. Any excess amount that you send for Parcel Post charges will be promptly refunded.

Table of Approximate Rates

Per 100 lbs. for Express and Freight

From Chicago to	Express per 100 Pounds		From Chicago to	Express per 100 Pounds	
	1st Class	Freight per 100 Lbs.		1st Class	Freight per 100 Lbs.
Alabama	\$3.75	\$2.40	Nebraska	\$3.90	\$2.25
Arizona	7.30	4.12	Nevada	9.10	4.75
Arkansas	3.59	1.60	N. Hampshire	4.00	1.49
California	10.05	4.75	New Jersey	3.75	1.43
Colorado	6.15	3.65	New Mexico	5.60	3.35
Connecticut	3.85	1.49	New York	3.35	1.18
Delaware	3.70	1.42	No. Carolina	3.75	2.50
Florida	5.05	2.20	No. Dakota	4.50	2.60
Georgia	3.50	2.32	Ohio	2.15	.80
Idaho	7.90	4.50	Oklahoma	3.85	2.14
Illinois	1.85	.75	Oregon	9.75	5.10
Indiana	1.65	.70	Pennsylvania	3.75	1.40
Iowa	2.57	.98	Rhode Island	4.00	1.49
Kansas	3.80	2.04	So. Carolina	4.10	2.29
Kentucky	2.20	.98	South Dakota	4.35	2.65
Louisiana	4.20	2.06	Tennessee	3.30	1.75
Maine	4.50	1.49	Texas	7.15	2.37
Maryland	3.45	1.25	Utah	6.90	4.13
Massachusetts	4.00	1.49	Vermont	3.95	1.60
Michigan	3.95	1.09	Virginia	3.60	1.39
Minnesota	3.60	1.49	Washington	9.45	5.10
Mississipi	3.75	1.80	West Virginia	2.95	1.03
Missouri	2.62	1.35	Wisconsin	2.65	.60
Montana	5.35	3.75	Wyoming	5.50	3.50

How to Order

Send your orders on our convenient Purchase Order forms, or in any other manner convenient to you. Be sure to specify Stock Number and Price of each item. Print your Name and Address plainly. We will ship C.O.D. Most of our customers prefer to send cash with order to avoid extra collection costs. All orders for heavy merchandise to be shipped to distant points should be accompanied by a 25% deposit.

Wholesale Only

We solicit orders only from those actively and commercially engaged in the radio industry. Radio Dealers, Radio Servicemen—Industrial and Institutional Laboratories, Public Utilities, Schools, Colleges, Engineers and those recognized as engaged in developing the Art of Radio. We will also accept orders from the United States Government, Federal Institutions, State, County, Municipal and other governmental bodies and institutions.

Payment Terms

Our terms are cash with order or C.O.D. Catalog prices are Net—F.O.B. Chicago or factory. All Trade and Cash Discounts have been deducted. While we do not impose minimum order restrictions on our old customers, it will profit you to make up at least \$5.00 orders to avoid additional exchange charges. We will be obliged to pass on to you the exchange charge, made by the Banks, on all personal checks for less than \$5.00. C.O.D. orders from new customers should be accompanied by a 25% deposit.

Parcel Post Rates

Revised Rates Effective since October 1, 1932. Table for Packages Weighing 1/2 pound to 20 pounds

Weight in Pounds	Zones 1&2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
	Up to 150 miles from Chicago	150 to 300 miles from Chicago	300 to 600 miles from Chicago	600 to 1,000 miles from Chicago	1,000 to 1,400 miles from Chicago	1,400 to 1,800 miles from Chicago	Over 1,800 miles from Chicago
1	\$0.08	\$0.09	\$0.10	\$0.11	\$0.12	\$0.14	\$0.15
2	.10	.11	.14	.17	.19	.23	.26
3	.11	.13	.17	.22	.26	.32	.37
4	.12	.15	.21	.27	.33	.41	.48
5	.13	.17	.24	.33	.40	.50	.59
6	.14	.19	.28	.38	.47	.59	.70
7	.15	.21	.31	.43	.54	.68	.81
8	.16	.23	.35	.49	.61	.77	.92
9	.17	.25	.38	.54	.68	.86	1.03
10	.18	.27	.42	.59	.75	.95	1.14
11	.19	.29	.45	.64	.82	1.04	1.25
12	.20	.31	.49	.70	.89	1.13	1.38
13	.21	.33	.52	.75	.96	1.22	1.47
14	.22	.35	.56	.80	1.03	1.31	1.58
15	.23	.37	.59	.86	1.10	1.40	1.69
16	.24	.39	.63	.91	1.17	1.49	1.80
17	.25	.41	.66	.96	1.24	1.57	1.91
18	.26	.43	.70	1.02	1.31	1.66	2.02
19	.27	.45	.73	1.07	1.38	1.76	2.13
20	.28	.47	.77	1.12	1.45	1.85	2.24

If the weight of your package exceeds 20 pounds, add 1c for each additional pound or fraction of a pound if you live in the 1st and 2nd zones, 2c extra if you live in the 3rd zone, 3.5c extra if you live in the 4th zone, 5.3c extra if you live in the 5th zone, 7c extra if you live in the 6th zone, 9c extra if you live in the 7th zone, and 11c extra if you live in the 8th zone.

NOTE:—Packages weighing over 1/2 lb. (8 ozs.) and not more than 1 lb. take 1 lb. rate. Packages weighing over 1 lb. and less than 2 lbs. take the 2 lb. rate. Always use the next higher pound rate for pounds and fractional pounds. **FOR EXAMPLE:**—1 1/4 lbs. requires 2 lb. rate, 2 1/4 lbs. requires 3 lbs. rate.

How to Figure Express Charges

(1) Total weights of items ordered, as shown on Order Blank. (2) Refer to table above for approximate Express Rates per hundred pounds to your state. (3) Then refer to left hand column of table below and find weight which corresponds with weight of goods you are ordering. (4) Follow to the right, line opposite the weight of goods on your order, through the columns to the column headed by the rate per 100 lbs. to your state. The amount in this Column will be the approximate Express charges on your goods.

Table of Express Charges Based Upon Rate per 100 Pounds

If Rate per 100 Pounds is	\$1.25	\$1.45	\$2.15	\$2.65	\$2.95	\$3.45	\$3.75	\$4.00	\$4.25	\$4.50	\$5.00	\$6.90
Package not over												
1 Pound	\$.36	\$.36	\$.37	\$.37	\$.38	\$.38	\$.38	\$.39	\$.39	\$.39	\$.40	\$.42
2 Pounds	.37	.37	.39	.40	.40	.41	.42	.42	.43	.43	.45	.48
3 Pounds	.38	.38	.40	.42	.43	.43	.45	.46	.47	.47	.50	.55
4 Pounds	.38	.39	.42	.44	.45	.47	.49	.50	.51	.52	.56	.61
5 Pounds	.39	.40	.44	.46	.48	.50	.52	.53	.54	.56	.61	.68
10 Pounds	.44	.46	.53	.58	.61	.66	.69	.71	.74	.76	.86	1.00
15 Pounds	.48	.51	.59	.65	.69	.74	.81	.86	.90	.93	.97	1.12
20 Pounds	.53	.57	.71	.81	.87	.97	1.03	1.08	1.13	1.18	1.38	1.66
25 Pounds	.57	.62	.80	.92	1.00	1.12	1.20	1.26	1.32	1.39	1.64	1.99
30 Pounds	.62	.68	.89	1.04	1.13	1.28	1.37	1.44	1.52	1.59	1.89	2.31
35 Pounds	.66	.73	.98	1.15	1.26	1.43	1.54	1.63	1.71	1.80	2.15	2.64
40 Pounds	.71	.79	1.07	1.27	1.39	1.59	1.71	1.81	1.91	2.01	2.41	2.97
45 Pounds	.75	.84	1.16	1.38	1.52	1.74	1.88	1.99	2.10	2.22	2.57	3.30
50 Pounds	.80	.90	1.25	1.50	1.65	1.90	2.05	2.17	2.30	2.42	2.92	3.62

Guaranteed Radio Repair

Dealers' Scientific Super Service

**You Fix Ordinary Trouble
We Repair Sets Requiring
Special Test Equipment
Any Trouble—Any Condition
Any Make**

Radio Dealers—Radio Servicemen: This is a Wholesale Super Repair Department for you only. We do no retail repairing. This department is solely for the purpose of assisting Radio Engineers, Schools, Laboratories, Dealers, and Servicemen to make repairs, adjustments, or measurements which require special equipment.

When you are up against a repair job requiring the use of equipment that you do not own, send that repair job to Radolek. We will do the job for you, quickly and accurately with the finest instruments available. Your cost is far below what you would have to spend to do a similar job.

Schedule of Laboratory Service Fees

First hour, Minimum Charge, List Price, \$6.00.
YOUR PRICE \$3.00

(\$1.00 discount if you bring the chassis in and call for it within 5 days. 10c per day storage charge is made after 5 days.)

After first hour, Service per hour, List, \$4.00.
YOUR PRICE \$2.00

Our experience has been that rarely more than an hour is required to repair sets in which the original circuit is intact, and only in most unusual cases is as much as two hours required.

Parts for repairs supplied at your regular wholesale catalog prices. Parts selected will be equal to or better in quality than the original part.

Estimates Furnished

Preliminary inspection and test will be made for \$1.50 which amount must accompany your order. An estimate of the cost of repair will then be furnished before work is started. This inspection fee will be deducted from your final charge when we receive your authorization to proceed with the repair. If you do not wish the set repaired, we will return the instrument as received with a brief notation of what we believe is the cause of trouble.

Where our estimate of the cost of repair exceeds present value of the receiver, (usually about 20% of its list price) we request your permission to make repairs. Upon request we will quote you an estimate subject to a 50% discount to enable you to secure your customer's consent without disclosing your cost.

Special "Tune-Up" Service

For Radio Receivers which are working but not giving complete satisfaction. We test each individual part and align all trimmers correctly. Ordinary production permits 20% tolerance in all values of resistors or condensers in a receiver—we correct this to within 5% plus or minus the correct value for each part. Tone, selectivity, volume, and distance getting ability are vastly improved by this service. Special "Tune-Up" Service

YOUR COST PER JOB \$5.00

To this price must be added transportation costs and the cost of parts (at catalog price) which may be necessary. This "Lab" Service is offered exclusively to Radio Servicemen and Dealers at this remarkably low cost. Tubes, Chassis, and Speaker should be sent in for this service.

Radolek's Certified Test

A Certified Test Tag, giving the results of our complete analysis of the receiver will be returned to you with the set as part of our Special "Tune-Up" Service. You may give this to your customer as a record of what has been done to his receiver or you may keep it for your records. Included in this report is the power consumption of the receiver in watts, from which the cost of operating it may be calculated according to your customer's cost per kilowatt of electricity. We test the sensitivity in microvolts with a General Radio Signal Generator, before and after making alignment tests. We measure the hum level in milliwatts. The audio quality is checked with a Cathode-Ray Oscilloscope and where possible is improved. For your reference, the report includes the exact frequencies at which the tests are made. Voltages at all sockets are measured on a 1000 ohm per volt precision meter. Sets with A.V.C. action are tested with a G. R. Thermionic Tube Voltmeter, the most accurate method of determining the extent of A.V.C. known.

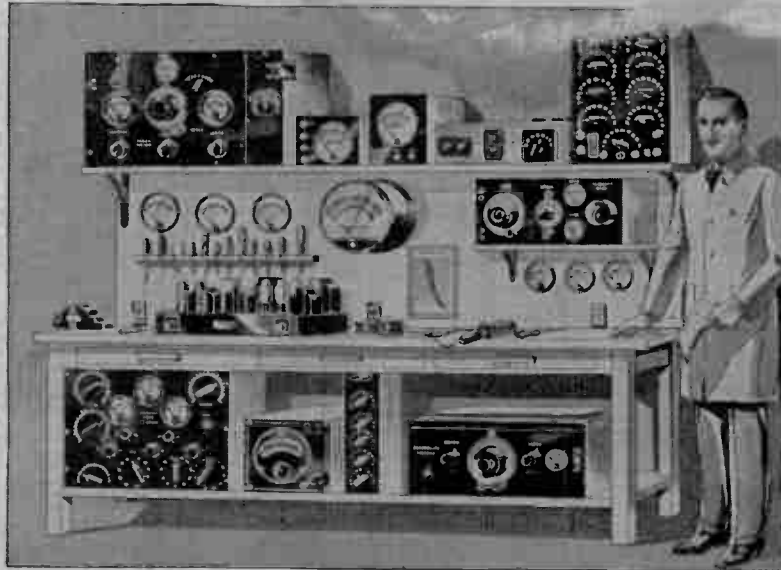
MAKING THE CERTIFIED TEST INVOLVES THE USE OF OVER \$3,000 WORTH OF LABORATORY EQUIPMENT. Quotations furnished on request for testing or calibration of special apparatus.

Enhance Your Professional Reputation! Seek the "Haro-to-Fix" Radio Sets

If your Equipment is inadequate for the job, Send the receiver to Radolek's Laboratory!

Any Radio Receiver Can Be Repaired Here. We Can Guarantee Your Customer Results Equal or Superior to That Which Might Be Expected from a Factory Service Station.

The Finest Radio Laboratory. Are Now Available in Difficult Problems. Competent Engineering—Familiar Most Difficult Problems. Will Achieve the Best of Service at the Most Cooperation Here.



Exclusively For Dealers And Radio Servicemen

Dealers:

Can You Afford A Full Time First Class Serviceman? Can You Invest Several Hundred Dollars in Equipment For His Use? IF NOT—Enjoy Radolek's Dealer Repair Service. Your Sales will depend largely upon the service you can give your customers. Let this big laboratory insure your firm's reputation for good service.

Servicemen:

Do you pass by those unusual jobs on complicated sets, just because you lack the expensive equipment that must be used to secure satisfactory results? Do you lack the correct selection of parts to make replacements? These are the "Big Money" jobs in the service business. Ordinary Service Organizations Can't Handle Them. Your customers will appreciate your interest in their set if you tell them that you desire to send it to a Scientific Super Service Laboratory in Chicago where it can be given a complete and thorough examination.

Transportation Charges Must Be PREPAID On All Shipments To Us. All Receivers Will Be Returned Charges And Express Collect.

Shipping Instructions

FOR FASTEST SERVICE AND CAREFUL HANDLING, SHIP VIA PREPAID EXPRESS. Pack the chassis carefully. Include tubes and any associate apparatus which might be the cause of trouble, (speakers, remote control, etc.) Do not send cabinets occupying more than 12 cubic foot of space. Inclose with the Express shipment your firm name and address with your instructions and your customer's complaint. State clearly if you desire: The most economical repair of the defective part only; A medium class repair involving part equal in quality to the original; and a carefully inspection of the entire set; A Laboratory repair including a complete overhauling and replacement of weak or defective parts with better quality parts; or the Radolek Special "Tune-Up" Service. Always state if you wish defective tubes replaced. All defective parts will be returned. Upon request we will communicate with you about the receiver via telegram or special delivery, adding the cost to your repair bill. We endeavor to render 2 to 5 day service where correspondence is not necessary. Our shipments are F.O.B. in U.S.A.

Complete Equipment

Every possible type of test equipment which could better serve your requirements is included in this Super Service Laboratory. For extreme precision work we have General Radio Instruments such as the Standard Signal Generator, Low Frequency Oscillator, Thermionic Voltmeter, Beat-Frequency Oscillator, standards of resistance, inductance and capacity. General Electric, Hickok, Weston, Westinghouse and Jewell precision meters were selected for their accuracy and dependability. A Cathode Ray Oscilloscope is employed for locating distortion and checking audio quality. Also all regular service equipment is available.

Over 8000 different items, close to a million individual parts are in the Radolek stock, instantly available to the Laboratory for use in your repair job.

Permanent Registration: Listed in a file under your name or firm name, is a permanent record of each receiver sent in for repair to assist us in future correspondence with you about the set.

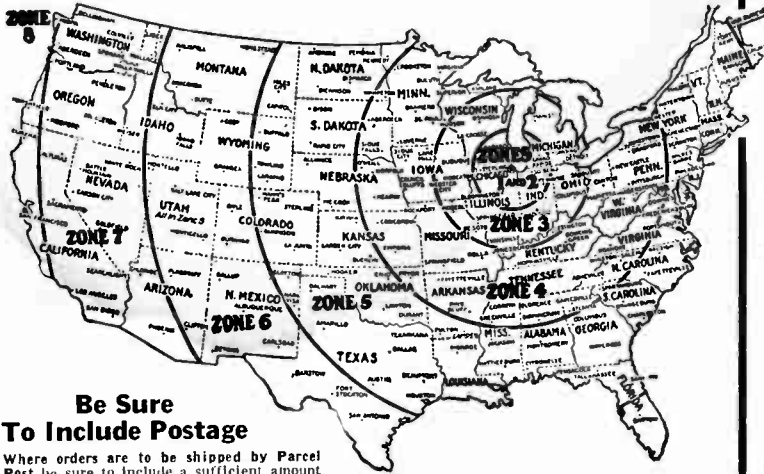
Fast Efficient Service



We are prepared to give Dealers and Radio Servicemen immediate attention on all repair jobs. Our skilled personal and efficient system of analysis usually permits us to ship your repaired set the day after it is received by us. Only experienced engineers work on your radio. These men are in close touch with the latest information about radio and they solve problems that are ordinarily difficult as merely routine tasks.

J. P. Kennedy, A.M.I.P.E., in charge of the Laboratory, formerly a radio manufacturer and serviceman, is well known for his many technical and business publications in Radio Retailing and other trade publications. Mr. Kennedy secured his technical training at one of the country's leading engineering Universities. For the past several years he has served as a consulting engineer for the Radolek Company. Every chassis sent in for repair receives his personal inspection before being returned.

It's Easy to Figure Delivery Charges on Your Order



Be Sure To Include Postage

Where orders are to be shipped by Parcel Post be sure to include a sufficient amount to cover postage with your remittance. Where postage is not included we will ship C.O.D. for transportation charges. You can avoid the additional expense of C.O.D. collections by sending sufficient postage. Any excess amount that you send for Parcel Post charges will be promptly refunded.

How to Order

Send your orders on our convenient Purchase Order forms, or in any other manner convenient to you. Be sure to specify Stock Number and Price of each item. Print your Name and Address plainly. We will ship C.O.D. Most of our customers prefer to send cash with order to avoid extra collection costs. All orders for heavy merchandise to be shipped to distant points should be accompanied by a 25% deposit.

Wholesale Only

We solicit orders only from those actively and commercially engaged in the radio industry. Radio Dealers, Radio Servicemen—Industrial and Institutional Laboratories, Public Utilities, Schools, Colleges, Engineers and those recognized as engaged in developing the Art of Radio. We will also accept orders from the United States Government, Federal Institutions, State, County, Municipal and other governmental bodies and institutions.

Payment Terms

Our terms are net with order or C.O.D. Catalog prices are set—O.B. Chicago or factory. All Trade and Cash Discounts have been deducted. While we do not impose minimum order restrictions on our old customers, it will profit you to make up at least \$5.00 orders to avoid additional exchange charges. We will be obliged to pass on to you the exchange charge, made by the Banks, on all personal checks for less than \$5.00. C.O.D. orders from new customers should be accompanied by a 25% deposit.

Table of Approximate Rates

Per 100 lbs. for Express and Freight

From Chicago to	From Chicago to		From Chicago to	
	Express per 100 Pounds	1st Class Freight per 100 Lbs.	Express per 100 Pounds	1st Class Freight per 100 Lbs.
Alabama	\$3.75	\$2.40	\$3.90	\$2.25
Arizona	7.30	4.12	9.10	4.75
Arkansas	3.59	1.60	4.00	1.49
California	10.05	4.75	3.75	1.43
Colorado	6.15	3.65	5.60	3.35
Connecticut	3.85	1.49	3.35	1.18
Delaware	3.70	1.42	3.75	2.50
Florida	5.05	2.20	4.50	2.60
Georgia	3.50	2.32	2.15	.80
Idaho	7.90	4.50	3.85	2.14
Illinois	1.85	.75	9.75	5.10
Indiana	1.65	.70	3.75	1.40
Iowa	2.57	.98	4.00	1.49
Kansas	3.80	2.04	4.10	2.29
Kentucky	2.20	.98	4.35	2.65
Louisiana	4.20	2.06	3.30	1.75
Maine	4.50	1.49	7.15	2.37
Maryland	3.45	1.25	6.90	4.13
Massachusetts	4.00	1.49	3.95	1.60
Michigan	3.95	1.09	3.60	1.39
Minnesota	3.60	1.49	9.45	5.10
Mississippi	3.75	1.80	2.95	1.03
Missouri	2.62	1.35	2.65	.60
Montana	5.35	3.75	5.50	3.50
Nebraska				
Nevada				
New Hampshire				
New Jersey				
New Mexico				
New York				
No. Carolina				
No. Dakota				
Ohio				
Oklahoma				
Oregon				
Pennsylvania				
Rhode Island				
So. Carolina				
South Dakota				
Tennessee				
Texas				
Utah				
Vermont				
Virginia				
Washington				
West Virginia				
Wisconsin				
Wyoming				

Parcel Post Rates

Revised Rates Effective since October 1, 1932.
Table for Packages Weighing 1/2 pound to 20 pounds

Weight in Pounds	Zones 1&2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
	Up to 150 miles from Chicago	150 to 300 miles from Chicago	300 to 600 miles from Chicago	600 to 1,000 miles from Chicago	1,000 to 1,400 miles from Chicago	1,400 to 1,800 miles from Chicago	Over 1,800 miles from Chicago
1	\$0.08	\$0.09	\$0.10	\$0.11	\$0.12	\$0.14	\$0.15
2	.10	.11	.14	.17	.19	.23	.26
3	.12	.13	.17	.22	.26	.33	.37
4	.15	.16	.21	.27	.33	.41	.48
5	.18	.19	.24	.33	.40	.50	.59
6	.14	.19	.28	.38	.47	.59	.70
7	.15	.21	.31	.43	.54	.68	.82
8	.16	.23	.35	.49	.61	.78	.95
9	.18	.25	.38	.54	.68	.86	1.03
10	.18	.27	.42	.59	.75	.95	1.14
11	.19	.29	.45	.64	.82	1.04	1.25
12	.21	.31	.49	.70	.89	1.13	1.36
13	.22	.33	.52	.75	.96	1.21	1.47
14	.23	.35	.56	.80	1.03	1.27	1.58
15	.24	.37	.60	.86	1.10	1.40	1.69
16	.25	.39	.63	.91	1.17	1.49	1.80
17	.26	.41	.66	.96	1.24	1.58	1.91
18	.27	.43	.70	1.02	1.31	1.66	2.02
19	.28	.45	.73	1.07	1.38	1.75	2.13
20	.29	.47	.77	1.12	1.45	1.85	2.24

If the weight of your package exceeds 20 pounds, add 1c for each additional pound or fraction of a pound if you live in the 1st and 2nd zones, 2c extra if you live in the 3rd zone, 3c extra if you live in the 4th zone, 5c extra if you live in the 5th zone, 7c extra if you live in the 6th zone, 9c extra if you live in the 7th zone, and 11c extra if you live in the 8th zone.

NOTE:—Packages weighing over 1/2 lb. (8 ozs.) and not more than 1 lb. take 1 lb. rate.
Packages weighing over 1 lb. and less than 2 lbs. take the 2 lb. rate. Always use the next higher pound rate for pounds and fractional pounds. **FOR EXAMPLE:**—1 1/4 lbs. requires 2 lb. rate, 2 1/4 lbs. requires 3 lbs. rate.

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(1) Total weights of items ordered, as shown on Order Blank. (2) Refer to table above for approximate Express Rates per hundred pounds to your state. (3) Then refer to left hand column of table below and find weight which corresponds with weight of goods you are ordering. (4) Follow to the right, line opposite the weight of goods on your order, through the columns to the column headed by the rate per 100 lbs. to your state. The amount in this Column will be the approximate Express charges on your goods.

Table of Express Charges Based Upon Rate per 100 Pounds

If Rate per 100 Pounds is	\$1.25	\$1.45	\$2.15	\$2.65	\$2.95	\$3.45	\$3.75	\$4.00	\$4.25	\$4.50	\$5.00	\$6.90
Package not over												
1 Pound	.36	.36	.37	.37	.38	.38	.38	.39	.39	.39	.40	.42
2 Pounds	.37	.37	.39	.40	.40	.41	.42	.42	.43	.43	.45	.48
3 Pounds	.38	.38	.40	.42	.43	.43	.45	.46	.47	.47	.50	.55
4 Pounds	.38	.39	.42	.44	.45	.47	.49	.50	.51	.52	.56	.61
5 Pounds	.39	.40	.44	.46	.48	.50	.52	.53	.54	.56	.61	.68
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40 Pounds	.71	.79	1.07	1.27	1.39	1.59	1.71	1.81	1.91	2.01	2.41	2.97
45 Pounds	.75	.84	1.16	1.38	1.52	1.74	1.88	1.99	2.10	2.22	2.57	3.30
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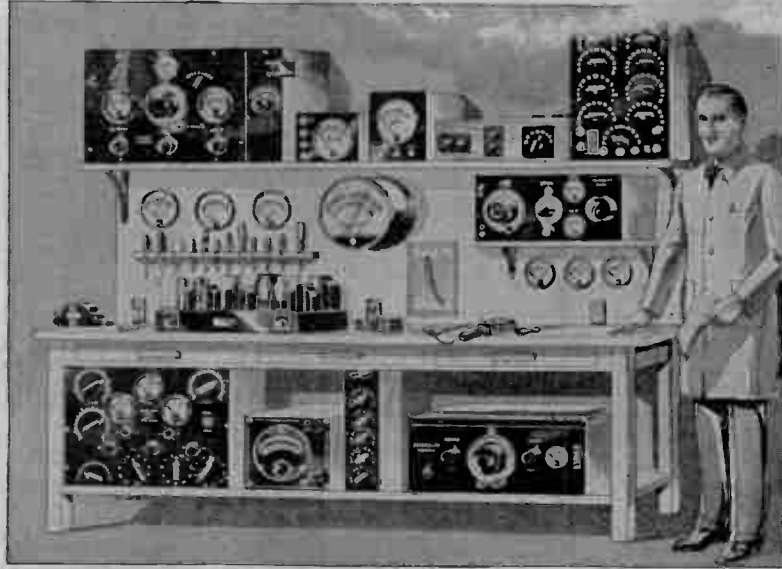
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Transportation Charges Must Be PREPAID On All Shipments To Us. All Receivers Will Be Returned Charges And Express Collect.

Shipping Instructions

FOR FASTEST SERVICE AND CAREFUL HANDLING, SHIP VIA PREPAID EXPRESS. Pack the chassis carefully. Include tubes and any associate apparatus which might be the cause of trouble, (speakers remove controls, etc.) Do not send cabinets occupying more than 1 1/2 cubic feet of space. Inclose with the Express shipment your firm name and address with your instructions and your customer's consent. State clearly if you desire: The most economical repair of the defective part only; A medium class repair involving parts equal in quality to the original; and a carefully inspection of the entire set; A Laboratory repair including a complete overhauling and replacement of weak or defective parts with better quality parts; or the Radolek Special "Tune-Up" Service. Always state if you wish defective tubes replaced. All defective parts will be returned. Upon request we will communicate with you about the receiver via telegram or special delivery, adding the cost to your repair bill. We endeavor to render 2 to 5 day service where correspondence is not necessary. Our shipments are C.O.D. in U.S.A.

World Radio History

Complete Equipment

Every possible type of test equipment which could better serve your requirements is included in this Super Service Laboratory. For extreme precision work we have General Radio Instruments such as the Standard Signal Generator, Low Frequency Oscillator, Thermionic Voltmeter, Beat-Frequency Oscillator, standards of resistance, inductance and capacity. General Electric, Hickok, Weston, Westinghouse and Jewell precision meters were selected for their accuracy and dependability. A Cathode-Ray Oscillograph is employed for locating distortion and checking audio quality. Also all regular service equipment is available.

Over 8000 different items, close to a million individual parts are in the Radolek stock, instantly available to the Laboratory for use in your repair job.

Permanent Registration: Listed in a file under your name or firm name, is a permanent record of each receiver sent in for repair to assist us in future correspondence with you about the set.

Fast Efficient Service

We are prepared to give Dealers and Radio Servicemen immediate attention on all repair jobs. Our skilled personnel and efficient system of analysis usually permits us to ship your repaired set the day after it is received by us.

Only experienced engineers work on your radio. These men are in close touch with the latest information about radio and solve problems that are ordinarily difficult as merely routine tasks.

J. P. Kennedy, A.M.I.E.E., in charge of the Laboratory, formerly a radio instructor and serviceman, is well known

for his many technical and business promotion articles in Radio Retailing and other trade publications. Mr. Kennedy secured his technical training at one of the country's leading engineering Universities. For the past several years he has served as a consulting engineer for the Radolek Company. Every chassis sent in for repair must receive his personal inspection before being returned.



EUROPEAN RECEPTION

7-TUBE RADOLEK DUAL-WAVE SUPERHET

"TRANS-OCEANIC"

There is a Receiver that Meets Today's Demand. Right in Price—Right in Design and Right in Performance!

There is a growing demand for Sets that will consistently bring in foreign short-wave broadcasting. News-papers are featuring this new Radio and are printing much information on short-wave schedules and programs. This publicity is creating a prospect for the thousands of other Dual-Wave Receivers, but best Sets capable of spanning the waves are too expensive for the average family to buy. These facts are important to YOU because they make sales easy for you with this proved low-priced Radolek 7-Tube set.

Higher Quality at Lower Cost Was Achieved

This New Radolek Model combines a regular broadcast and specialized Short-wave set of brilliant performance at a low Price. To accomplish this required the engineering. Its designers appreciated the fact that practically all domestic and foreign program-broadcast is concentrated to just two wave bands—550 to 1500 cycles and 6 to 17 megacycles—and incorporated only these ranges in this Receiver. This very sensible specialization of the two major bands made possible a better Receiver at a Lower Cost by eliminating engineering obstacles as well as concentrating development and manufacturing expenses on essentials.

Precision Workmanship

When you examine this New Radolek Model you are sure to be impressed by the masterful workmanship evident in every detail of its design and construction. Only the best materials are used and each component matches with laboratory precision to requirements of its position in the circuit. You will notice its husky power transformer—oversize to insure cool operation over long periods. You will also note that resistors and condensers are not only the best known makes, but also specially selected as for their current and inductive carrying capacities.

The Circuit

Being a Superheterodyne, this Receiver is very sensitive. Its seven tuned circuits develop excellent selectivity. Equally good performance on both bands is accomplished through the suppression of image frequencies by using a three-gang tuning condenser and by placing a stage of T.F. operation ahead of the first Detector. It operates on both bands and provides a very high signal to image ratio. The latest type Tubes are used: 2-6D6, 1-5, 1-76, 1-11 and 1-2. This set is designed to realize the full advantage of their improved performance characteristics and provides more than 100 Watts of Power with smooth, distortionless, ductile Jensen Dynamic Speaker output. The AVC is unselective and maintains a uniform level for various signal strengths. The automatic volume control permits frequent variation to suit the inclination of the listener.

"Let's Look at the Records"

It is easy to write a glowing description of Radio performance but it's quite another matter to build the Radio that measures up to claims made for it. You know this and so do we. Therefore we prefer to simply give you the following record of this Set's reception during a single afternoon here in Chicago, and let the facts speak for themselves:

- DJC.....Zeezen, Germany
- W3XAU.....Philadelphia, Pa.
- CP5.....La Pas, Bolivia
- HJABB.....Barranquilla, Columbia
- EAQ.....Madrid, Spain
- GSC.....Daventry, England
- YV3BC.....Caracas, Venezuela
- 0XY.....Skanilleback, Denmark
- IXRO.....Rome, Italy

All of these stations were received with sufficient volume to be easily identified and the majority came in clearly enough to be considered acceptable entertainment. While we freely admit that time, weather conditions, location and the skill of the operator play a large part in the successful reception of short waves, we do believe that here, at last, is a Receiver which you can legitimately sell and represent to your customers as one from which direct reception from Europe and other foreign countries can be expected.

A CHOICE OF TWO MODELS The Console Model

The "Trans-Oceanic" is available in one of the most distinctive of Console sets. It is modern without being bizarre; massive but not ponderous. It is eminently in good taste and will harmonize well with any interior. The upper front panel and center of top are of California Burl walnut in contrasting shades. Sides, base and fluted corners of select straight grain walnut. Beautifully finished throughout. Knobs to match. Overall size 10 3/4 inches deep, 20 1/2 inches wide, 36 inches high.

14E10984—Radolek "Trans-Oceanic" Console Model for 105-120 volt 50/60 cycle A.C. Complete with 7 RCA Tubes.

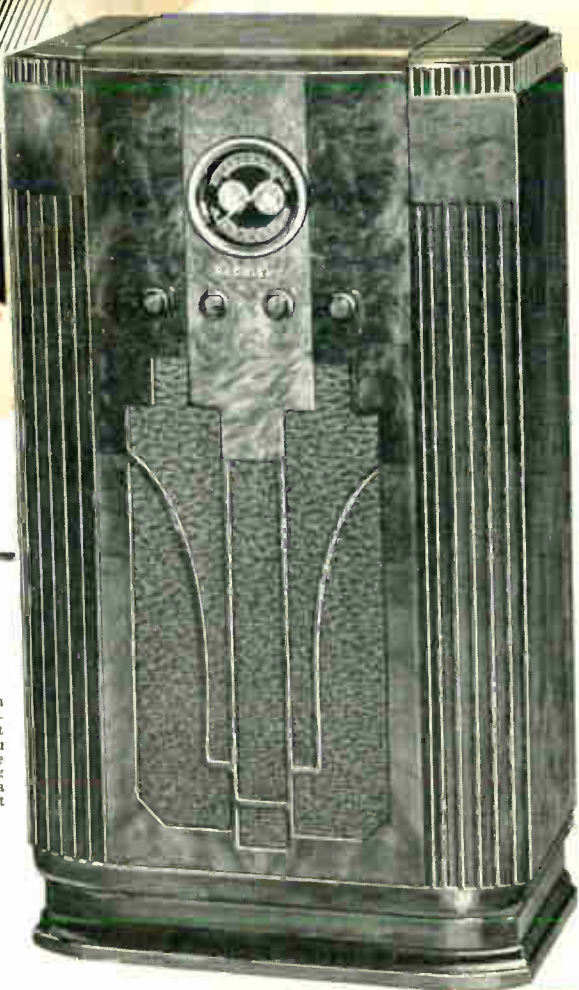
List Price, \$74.50. **YOUR PRICE \$43⁸¹**

The Table Model

For those who prefer the "Trans-Oceanic" Chassis and Speaker may be had in the beautiful Table Model Console model at the right. This console matches the beauty and quality of the one above and is of sufficient proportions to provide adequate baffle area for its husky Jensen Dynamic Speaker. Overall size 13 1/2 inches wide, 9 3/4 inches deep, 17 3/4 inches high.

14E10985—Radolek "Trans-Oceanic" Table Model for 105-120 volt 50/60 cycle A.C. Complete with 7 RCA Tubes.

List, \$63.50. **YOUR PRICE \$34⁹⁹**



New Airplane Dial

The 3 1/2 inch Airplane Dial of this Set is unique in design and construction. The upper half is graduated in megacycles for the short-wave band and the lower half, in kilocycles for the standard broadcast band. When the band-selector switch is adjusted for short-wave reception only the upper half of the Dial is illuminated and the drive is vernier; when the standard broadcast band is switched in, the lower half is illuminated and the drive becomes normal, or direct.



Illustrations by V. C. Braun.

THE RADOLEK COMPANY

RADOLEK 1935

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RASCO RADIO PARTS CATALOG No. 17

Radio Specialty Co.

96-98 PARK PLACE
NEW YORK



ALL GOODS SENT PREPAID IN U.S.A.

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FOREWORD

THIS Company is unique in the Radio Field to-day, inasmuch as it is the only one in existence specializing exclusively in small parts, raw materials and everything in fact, that goes into the making of standard modern radio apparatus.

A glance through our catalogue, which is unusual in many respects, will readily confirm this.

It is the only catalogue containing a great assortment of radio vacuum tube hook-ups, which are printed in the back of the book. This feature alone is quite important and will be the cause to keep this catalogue in your pocket at all times. The diagrams are the 75 most important vacuum tube hook-ups in use today. They will prove very handy and instructive at all times.

Note that this company has factories in Brooklyn, N. Y., and Elkridge, Md., and that most of the material shown here, on account of our own manufacture, can be sold cheaper and better than most other houses offer.

If in rare cases our prices are higher, remember that our materials must be better, besides we prepay all postage, or express on the great majority of all goods. You will find that by dealing with us, in the long run, you will not only save money, but annoyance as well, for our material is absolutely the best that money can buy.

When ordering, always be sure to give catalogue number. Goods by mail and parcel post are at your risk. In 99 cases out of 100 the goods will arrive without fail. If you wish to be absolutely sure, enclose a small fee for insured parcel post, 3c for \$10.00 insurance, 5c for \$25.00 insurance. We carry the

most complete stock of its kind in New York City, and ship invariably the same day the order is received. Just try us once.

We pride ourselves justly on our Service. The reputation of this house has been built upon Service. You will be amazed to find how fast we ship. We can only disappoint you once. Remember that most of our orders are small and that consequently the profit for us is very small. Only by continuous re-orders and by satisfied customers can we thrive and that means, Service, careful Service, courteous Service, prompt Service.

You will find in dealing with us, that you are never disappointed, you will never have occasion to write complaints to us. You will be surprised at the quick deliveries, unprecedented in mail order annals. Always remember that Rasco is a synonym for Service.

Before ordering, please read carefully

We accept no order for less than \$0.50. C.O.D.'s are only accepted if a 25% deposit accompanies your order. We make no C.O.D. shipments to points outside of the United States.

Our only terms, CASH WITH ORDER. No accounts can be opened with private individuals, as our low prices do not justify this.

Note particularly, all goods are shipped prepaid, throughout the United States. We pay the charges. We guarantee delivery to you in good condition. Should anything arrive broken, we will make good immediately upon receipt of advice.

Remittances can be made by New York Draft, Post Office or Express Money Order, or by registered mail. Never send money unregistered. Out of town checks accepted if 10c for exchange is added. United States stamps if in good condition are accepted instead of cash, in any amount.

Shipments to points outside of the United States **MUST BE ACCOMPANIED BY TRANSPORTATION CHARGES.**

Whereas we carry in stock a representative line of Radio sets and parts, we will cheerfully obtain any items not listed in this catalogue, and with no delay, as we are situated right in the heart of the World's Greatest Radio Center.

YOU SAVE OVER 10% WITH US, AS WE SHIP NEARLY ALL GOODS PREPAID IN U. S. A.



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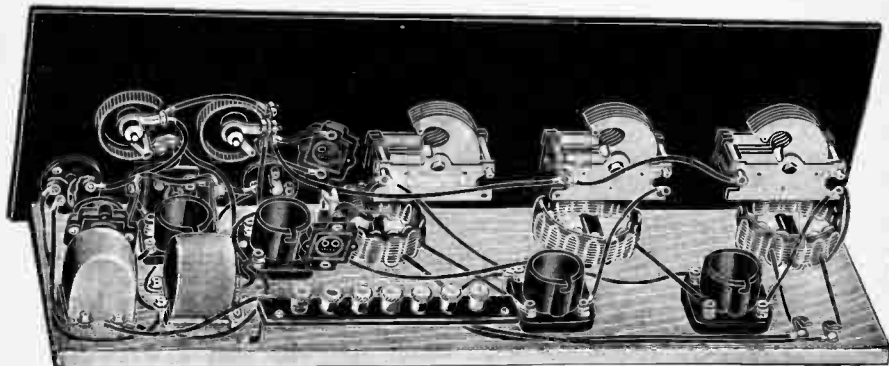
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96-98 PARK PLACE - NEW YORK CITY

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RASCO 5-TUBE TUNED RADIO \$17⁹⁵ FREQUENCY RECEIVER



No. 9216A

In laying out the wonderful receiver we are offering you, we decided to incorporate within this Radio Kit all of the best features to be found on commercially built Radio sets, selling for as high as even \$200.00. But the following natural obstacles, all purely electrical, had to be first considered:

The lower the wave length to be received, the greater will be the tendency for the radio frequency tubes to fall into oscillations, commonly termed "whistles" and "squeals."

If this tendency is curbed, then it severely impairs the efficiency of reception on the higher wave lengths, especially when distance reception is desired. And, vice versa, if you allow the higher wave lengths to come in near the point of oscillation, and set your adjustment there, with respect to the suppression of these oscillations, then, as you go lower down the wave length band, these oscillations become more and more severe, finally preventing you from even hearing the broadcasting station behind those oscillations.

Too short an aerial will promote extreme selectivity, that is, enable you to tune in distance stations while "locals" are broadcasting, but at the same time, those self-same oscillations will become violent on the average self-neutralized type of Radio kit or factory assembled set. To eliminate this condition, you must on those sets lengthen your aerial, but this will impair your selectivity, making your tuning "broad," working to a decided disadvantage in big cities where two to fifteen stations are broadcasting at one time.

Where a long aerial and lead-in is employed, through necessity, true, a fixed condenser, say, measuring .0025 to .001 mfd. may be inserted in the antenna lead, but this will produce the same effect as experienced with too short an antenna.

Our engineers, realizing these fundamental obstacles are ever present, decided to design a set that would embrace a universal circuit, in which the Radio set could be immediately suited to the correct conditions for your particular length antenna, and at the same time adjusting

the receiver for maximum efficiency at every wave length. Summing up, distance stations on 500 meters wave length can be tuned in with as much volume and clarity as those stations operating around 225 meters.

And strange to say, the operation of this most unusual Radio set we are offering you is no more difficult than other 5-tube receivers—there are but three tuning dials, which can be logged for future reference, and this one additional dial, which permits of all this wonderful reception. It is simply adjusted to a point at which the station will be received in a flood of volume, yet never with any sacrifice of clarity.

And remember, this is not a small set thrown together with questionable parts—refer to our list of parts, and notice the nationally advertised items used. The average concern would, and does, sell sets of this type (5 tubes) on a 7 by 18-inch panel in a 7-inch deep cabinet. We use a 7 x 24-inch panel. The crowding together of instruments always results in unwanted feed backs, uncontrollable howls, etc., which are completely overcome in our engineered product. And there is no other concern in this country who can compete with us offering the self-same value—our tremendous volume of business has made this low price possible, in the same way that tremendous volume of business made the Ford car what it is to-day.

Note that the panel comes to you already drilled and engraved, which means that a ten-year-old child can assemble this receiver. Our blue print and detailed instructions furnished will show you how to first assemble and wire the panel, independent of the baseboard, then to assemble and wire the baseboard independent of the panel, finally attaching the panel to the baseboard, and completing the assembly in a few minutes.

Build Your Own Receiver—

It's Easy The "No-Sod-er" Way
Revolutionary Improvement in Assembling Radio Sets

BIGGEST VALUE IN AMERICA

No solder—No bare wires—No poor connections—No dissatisfaction.

No tools needed except a common screw-driver and common pliers.

All connections are made by the use of our flexible, insulated eyeletted connecting wire in place of bus bar or wire, and solder.

And in a fraction of the time usually required when using the old fashioned way. And when the job is done it is neat and your connections are tight.

We Furnish a Special Blueprint Free With Each Kit

Connections Always Perfect

The binding posts are numbered in pairs, two marked No. 1, two marked No. 2, etc. All you have to do to make your connections is to take one of our flexible wires of the proper length, which we furnish, to run from one of the posts numbered 1 to the other post bearing the same number; another between the two posts marked No. 2, and so on. You place the eyelet at the end of our wire over the post, and with your pliers screw the cap down tight, and you have made a perfect connection complete in only a fraction of the time it would take you to cut and bend a bus wire and heat the now useless soldering iron.

No Expense for Soldering Tools

In addition to the saving of time and labor, you save the expense of a soldering outfit. This is only one of the many benefits you gain in dealing with us.

— NOTICE — To Experimenters

You can change your "No-Sod-er" Connectors from one hook-up to another as often as you please. No danger of damaging or destroying a connector or instrument, such as jacks, switches, etc., as in tearing off tight, soldered bus-bar.

No Skill or Knowledge Required

When you consider the fact that it is very difficult for most people to do a neat job of soldering and that no matter who you are you could attach a connecting wire by our method without any previous knowledge or practice whatsoever, and without any skill in radio, you will realize what a tremendous improvement this is over the old way.

Had you seen, as we have seen, hundreds of wired sets looking as though they had just been through a cyclone, you would see that a neat job of assembling by a novice or one not expert is the rare exception.

Cannot Break

Our wire is stranded, and covered first with rubber insulation and then fine woven webbing, and may be bent and twisted without danger of breaking. The eyelets cannot come off, so you have a connection that is firm, safe, durable, permanent, and you know that in merely moving or shaking your set there is no fear of shaking a connection loose.

No Short-Circuits

As our wires are insulated, you will never have the danger of a short circuit and the burning out of your tubes from these connections through accidentally bringing them together and touching each other or dropping over them a bare wire or a tool as in using the old-style solder and bare wire connection.

OUR Balanced Interflex Set is also equipped with "No-Sod-er" Connectors.



No. 9216

Parts included in this Receiver

Cabinet, mahogany finish, 7" x 24" x 7".....	\$5.24	Grid Leak, 2 Megohms Patent.....	\$0.32
Panel, drilled and engraved, Bakelite Dilecto 7" x 24".....	3.50	Fixed Condensers Pilot .002.....	.62
Baseboard, laminated.....	.40	Binding Post Strip, Rasco (with binding posts).....	.35
3 Freshman Type Coils—Our No. 2629.....	1.05	No-Sod-er connecting wires, full set.....	1.75
3 Pilot Variable Condensers .00038 S.L.P.....	.81	2 Carter 4 ohm Resistances.....	.30
Modified.....	5.10	Necessary hardware, screws, angles, etc.....	.25
3 1/2 Pilot Bakelite Dials.....	7.50	Blue Print and Instruction Sheet.....	1.00
2 Transformers, Audio Frequency, Patent @ \$3.75.....	7.50	Total Price of Set.....	\$33.01
1 6 ohm Pilot Rheostat.....	.48	Our Price, Catalogue No. 9216.....	\$22.95
1 400 ohm Potentiometer Pilot.....	.81	9216A Same as above, but without cabinet.....	\$17.95
5 Sockets, Pilot Bakelite low loss.....	1.25	9216B Same as 9216A, but with Patent U.X. Sockets.....	\$19.45
Jack double circuit improved.....	.70	9216C Same as 9216B, but with Patent No. 9372 Superaudioformers.....	\$24.55
Jack single circuit filament control improved.....	.85		
Switch, Pilot.....	.36		
Fixed Grid Condenser and Mountings, Pilot.....	.35		

Make Big Money by assembling these Kits into sets and selling them complete to friends and business houses who need a First Class Radio. Many of our customers sell these completed sets from \$30.00 upwards.

THE RASCO ONE-DIAL CONTROLLED 5-TUBE TUNED RADIO FREQUENCY RECEIVER

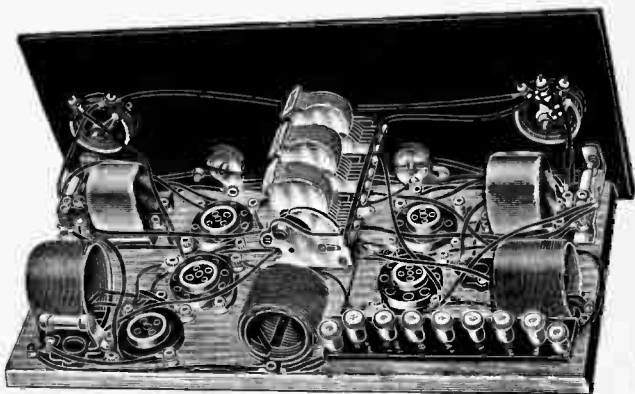
\$23.95 POSTPAID

COUNTRY-WIDE
RECEPTION
AS FAST AS
YOU CAN TURN
THE SINGLE
CONTROL DIAL.

A LABORATORY
PRODUCT

SELECTIVITY
SENSITIVITY
CLARITY
VOLUME
LOW UPKEEP
QUICKLY BUILT

NEW MODE OF
ASSEMBLY



No. 8888

For the past few years we have been selling our No. 9216 5-tube tuned radio frequency receiver kit to our customers in every quarter of this world. The unsolicited testimonials all acknowledged the superiority of that receiver to commercially assembled models of other makes selling for many times its modest cost—about 6 out of every 10 such testimonials requested us to post them immediately upon our offering of a one dial receiver incorporating the self-same circuit. And, thus, for the past two years we have been experimenting to perfect this receiver of apparent universal appeal. We are indeed proud to offer it in its now completed and perfected form—We have been entirely successful in accomplishing the goal of every serious radio fan and experimenter. . . . A perfect one-dial controlled 5-tube receiver. To accomplish this, we long since realized the absolute necessity of standard quality parts—our list appended below will certainly testify to our selection thereof. Then, after carefully weighing the matter from its every angle, we decided to so construct this receiver, that in a moment, without lifting the cabinet cover or re-calibrating the tuning instruments, you could avail yourself of the unquestionable superiority of the conventional 3 dials for extreme long distance reception. This is very simply accomplished: You will note on either side of the triple gang condenser, a small 7-plate midjet condenser, each of which is shunted to the center and front sections of the main condenser, and are controlled by very small knobs on the panel with engraved white arrows thereon. The center vernier dial is rotated to the desired wave length setting, and then these midjet condensers are used to complete the perfect tuning of that wave length, taking but a moment's time. To revert back to true one dial operation, these small knobs are set with the arrow immediately beneath a predetermined pencil mark on the panel. The radio frequency inductances are of the solenoid type, air spaced wound and

2 inches in diameter; the three of them are very carefully matched, as are the 3 sections of the triple condenser, insuring a wave length range of 200 to 550 meters. The sockets will accommodate any standard U X base tube, and for this reason, this receiver can be successfully used with either dry cell or storage battery tubes. The oscillations in the R.F. stages are very easily controlled with a potentiometer, and by virtue of this method, truly remarkable long distance reception with surprising volume is at all times within the range of this receiver—incidentally, this control is also used to subdue the enormous volume, in any degree you may desire. In our latest models, these kits are furnished with one single filament control jack, eliminating the necessity of a separate battery switch (removing the phone or speaker plug from the jack automatically disconnecting the batteries from the receiver) and simplifying the construction and assembly for your every benefit. In appearance, this receiver will most certainly grace any room in which it is placed—perfect symmetry of design and convenience of the few simple controls are very evident. The panel is handsomely engraved Bakelite, and is scored around its edges with an attractive and pleasing border. The 10 ohm rheostat affects the brilliancy of the 2 R.F. bulb filaments, greatly assisting in elimination of interference due to nearby local stations, and preventing over-loading of the detector tube, which always causes distortion. In fact, the final design of this receiver represents the incorporation of all the improvements that we have found out in our own laboratory efforts, and suggested to us by our many friends. And we claim that every kit must perform as we have herein set forth, or it is subject to immediate return to us. Furthermore, any 10-year-old youngster can assemble this receiver in a few hours, for the mode of assembly we have adopted insures this. Included with each kit, we supply a detailed picture diagram blue print, and each

part used has a letter designation, which, when referred to on the blue print, tells you what this instrument is, and what it does. The base board layout is full size, therefore, you could not possibly go wrong at this stage of the assembly—you merely lay the blue print on the baseboard and mark the center holes where every screw will hold down any particular item, removing the blue print, as soon as you are ready for this assembly. As the panel is drilled, there certainly will develop no trouble at that stage, either. No soldering of wires is at all necessary—we furnish various lengths of wires with lugs soldered thereto, and which you simply slip over the screw, tightening it, to hold them there—a moment's task! The wiring instructions tell you to run a 6-inch wire from such and such a point, to such and such a point. How could you go wrong? Why, you do not even have to know why you must make that connection—simply do it—we have done all the thinking for you! Furthermore, the instruments on the panel are wired before the panel is attached to the base board, for your mechanical convenience—and the same is true of the wiring on the baseboard. Completing the latter, you attach the panel to the baseboard, and complete the few remaining connections between the instruments on the panel, and on the baseboard. Should you wish to use a Power stage of audio frequency amplification, the directions clearly cover this point. "C" battery connections on the A-E transformer are provided. Separate R.F. "B" battery binding post is also provided. A trouble shooter list will quickly determine any snag you may run into, and at once assist you in the elimination thereof. As the wires furnished are appropriately insulated, you need never fear the possibility of burnt out tubes, incidental to bare, or poorly insulated wires, short circuiting. Once you have screwed or bolted the lugs of the NO-SOD-ER wires to their respective terminals, you need never worry of any troubles arising, incidental to noisy contacts, loosening connections, etc. The system of wiring we have employed is as fool-proof as possible—all leads are as short as possible—every electrical law of inductance, capacity and resistance has been compiled with—remember, we did not just "happen" into this circuit—it is a break, not a novelty, and it recognizes no alibis! Kindly bear in mind that only the very best of accessories must be used in conjunction with this exceptional quality receiver—and be particularly careful of your choice of a very efficient and powerful loud speaker to deliver successfully the enormous volume afforded by this receiver, and render its reproduction thereof with 100% pleasing clarity.

Parts Included in This Receiver

1 Panel 7" by 18 inches drilled and engraved Bakelite	
1 Baseboard, 7 3/4 by 17 inches Laminated (non-warping)	\$3.50
3 Coils, 2-inch diameter Solenoids—air space wound	.60
1 U.S.L. Triple .00035 Variable Condenser	5.00
1 Pilot Kilograd Vernier Dial	5.75
1 7-plate Midget Condensers	1.00
2 Engraved Miniature Knobs	1.50
2 Patent Shielded Audio Transformers	.50
1 10 Ohm Pilot Rheostat	7.50
1 400 Ohm Pilot Potentiometer	.46
3 Carter Fixed Filament Resistances	.81
5 Pilot Fil-all Sockets	.75
1 Pilot Single Circuit Filament Control Jack	1.40
1 Pilot Grid Leak Condenser and 2 Megohm Leak	.50
3 Pilot .002 Fixed Condenser	.85
1 Pilot .005 Fixed Condenser	.35
1 Binding Post Strip, Complete with Posts, Angles, etc.	.50
NO-SOD-ER connecting wires—complete set	.35
Necessary hardware, screws, angles, etc.	1.75
Blue Print and Detailed Instruction Sheet	.25
	1.00

No. 8888 Our Very Special Kit **\$23.95** \$34.32 PREPAID

No. 8889 Above Kit, with 7 x 18 Walnut Cabinet, 8 inches deep. **\$28.95**
(Cabinet is shipped via Express Collect.)



No. 8889

Silver Marshall Single Control No. 620 Silver Cockaday Kit

\$59.25
POSTPAID

Next to the 5-tube 3-dial tuned Radio frequency circuit, the most widely one used is the Roberts type—one that employs a stage of tuned Radio frequency followed by a regenerative detector and the usual stages of audio frequency amplification. Appreciating this fact, the Silver Marshall engineers have introduced their version of this circuit, making several valuable improvements thereto. Note that this kit is a one dial control job. By virtue of the plug-in coils, the wave length range is variable at will from 50 to 2500 meters. The regenerative detector employs a fixed regenerative coil, controlled by a C.R.L. variable resistance on the panel. U.X. sockets permit the use of any type of tubes—including a power tube in the 2nd audio stage. Wiring is extremely simple—Belden cable harness being furnished—all wires are cut to exact length. The enormous volume produced by this exceptional receiver is due to the use of the new super-Thordarson transformers, and the quality and clarity are perfect. The panel and sub-panel furnished are beautifully drilled and engraved Bakelite. By reason of the carefully engineered layout, the assembly of this remarkable receiver can be accomplished in surprisingly rapid time, by even the layman who has never assembled a receiver before. The overall dimensions of the kit, when assembled, are 7 inches high, 18 inches long and 6 1/2 inches deep. Licensed under Armstrong U. S. Regeneration Patent No. 1,113,149.



No. 9967

Parts Supplied in the Silver Cockaday

2 No. 316 Silver-Marshall .00035 Condensers.	
2 No. 313 Silver-Marshall Coil Sockets.	
1 No. 110A SM Coil.	
1 No. 114A SM Coil.	
4 No. 510 SM Tube Sockets.	
1 Vernier Dial.	
1 No. 113P Midget Condenser.	
1 Pair Mounting Brackets.	
2 S-C Thordarson Power Transformers No. 200.	
1 Yaxley 6 Ohm Rheostat.	
1 No. 1 Yaxley Open Circuit Jack.	
1 No. 2A Yaxley Two Circuit Jack.	
1 Yaxley Battery Switch.	
1 Centralab Resistance, 25,000 Ohm.	
1 Belden Wiring Harness.	
1 Polymet .00015 Condenser with Leak Clips.	
1 Polymet .002 Condenser.	
1 Polymet .005 Condenser.	
1 Polymet 2 Megohm Leak.	
1 7x18 Drilled and Processed Front Panel.	
1 Drilled Sub-panel.	
1 Wiring Instruction and Color Chart.	
No. 9967 Complete Kit, as Listed, Without Cabinet	\$59.25



No. 9967A

No. 9967A The same with Cabinet

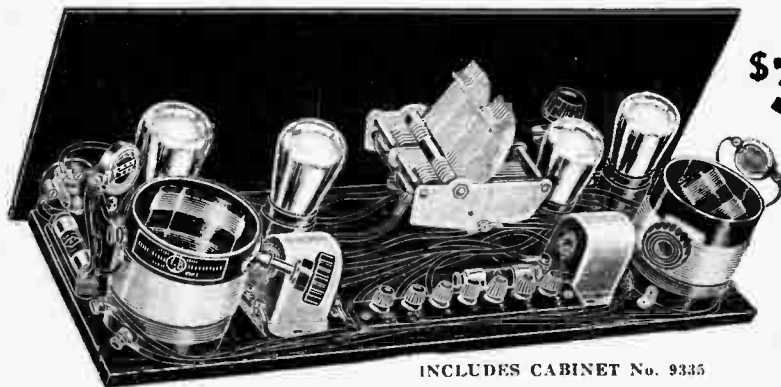
\$75.45

Balanced Interflex Four-A Four Tubes One Control

A Revolutionary Improvement!

The Single-Dial One-Control Receiver the World Has Been Waiting For!

The Discovery and Development of Hugo Gornsbach, Editor of RADIO NEWS



\$31⁸⁵

Range
1000
Miles
on the
Loud
Speaker

INCLUDES CABINET No. 9335

An Innovation—Ahead of All Other Sets

The Balanced Tuned Interflex Four-A comprises one stage of tuned radio frequency, crystal detector and three stages of audio frequency amplification, of which the two last stages are transformer coupled.

This is the first real single control tuned radio frequency set. Only one dial or control—no compensation of any kind. Its volume is not only great, but tremendous. It does not howl or squeal, and brings in the stations by turning one lone knob. This feature makes it greatly to be desired by the old folks and others who do not wish to bother with several controls. Stations can be logged with a single row of figures. The most easily tuned receiver in existence. And you will be surprised at the high selectivity.

Automatic — No Switches

When through receiving with the Balanced Interflex Four-A you pull out the loud speaker (or phone) plug, which automatically disconnects all the vacuum tubes.

Only ONE DIAL—Only ONE CONTROL

This circuit is the result of a determination which Mr. Hugo Gornsbach has had for a long time to originate the ideal receiver. Such a receiver as he had in mind to have these distinctively good qualities:

1. Single control—just one knob and nothing else;
2. Should not oscillate—should not howl and shriek at any point between 200 and 600 meters;
3. Should bring in stations without any disturbing noises.

The Balanced Interflex Four-A here described does all of these things and quite a good many more besides.

No two sets work alike because there are differences of tubes, differences of condensers, differences in coils and many other differences which are apt to throw the set out of balance. The inventor discovered a method of overcoming all these differences or defects in a way, so far as known, entirely original. By means of this, the Balanced Interflex Four-A may be adapted to whatever the local conditions may be.

If the tickler coils, of which two are used, are correctly adjusted when you begin using this receiver, this set does a most surprising thing. The ticklers can be adjusted at the lowest available wave, say 200 meters, so that the circuit is on the point of oscillation. If correctly adjusted, impossible as this sounds, the same condition will prevail through the entire broadcast range up to 600 meters, and you will never need to adjust them again!

In other words, stations of 200 meters up to 545 meters will come in with the same intensity, with the stations in between as well.

THEORY OF THIS SET

In all tuned radio frequency circuits, if the set howls and squeals on regeneration, it is necessary to provide losses. There are several methods of obtaining such losses, but the one most customary now is to place the inductances in the magnetic field of the condenser in such a way that there are certain absorption losses. But it is apparent that this is a very crude way of accomplishing these losses. In the first place, moving the coils even 1/64 of an inch closer to or further from the condensers will make a tremendous difference in signal strength. Furthermore, the losses are not always fully realized, and in spite of some constructors' claims, the majority of the sets thus made squeal and howl most annoyingly.

The coils could, of course, be made adjustable so that they could be moved toward or from the condenser. This, however, would necessitate a number of extra controls, which are not wanted.

In the Balanced Interflex Four-A the balancing principle provides the necessary losses efficiently with very little or no loss of signal volume. Once set, the balancing coils keep the receiver just below the oscillation point at all wavelengths within the broadcast range and it is then tuned by means of only one dial, which operates the condensers. It is, therefore, a real one-dial-control receiver combining greatest simplicity of operation with maximum efficiency.

RESULTS OBTAINABLE

In New York, in midsummer, this set, on a 60-foot aerial, brought in KDKA, East Pittsburg, Pa., at a dial setting of 50, and the volume was tremendous—stronger than many of the locals. The locals, of course, came in with great volume, regardless of the wave-length. Distant stations that have come in on a single evening are listed on next page. This should not be considered a record or the best this set can do, because receiving conditions here are poor. The log represents the results on a sultry August night when transmitting conditions were notoriously poor and there was so much static it was impossible to get the calls of many more stations whose programs were heard and otherwise could have been logged.

BALANCED INTERFLEX RECORDS

Mr. Elliott Carriger, of Wakarusa, Kans., 12 miles south of Topeka, reports having received with the Balanced Interflex Four-A Circuit on loud speaker 20 sta-

tions in these cities in one hour, between 8:10 and 9:25 p. m., one hour and fifteen minutes: Cedar Rapids, Council Bluffs and Shenandoah, Iowa; Hastings and Lincoln, Neb.; two in Kansas City, Mo.; Bristol, Okla.; Elgin, Ill.; and five in Chicago; Minneapolis, Minn.; Denver, Colo.; Dallas, Texas; Detroit, Mich.; Cincinnati, Ohio; and New Orleans, La. He used B batteries which had been used six months, 75 volts. He says he is more than satisfied.

I just want to outline my successful results with the Balanced Interflex. I built according to the description and, believe me, it is the best and simplest outfit yet, and for tremely low unexcelled. Extremely low tones and also extremely high tones, perfect and without the least distortion. Selective beyond even my fondest hope, as I can get KDKA easily without any interference from our local WSAI, only fourteen miles distant. My youngest daughter, only 6 years of age, tunes with the skill of a professional, as do all the rest of my older children, and wife. I certainly am very proud and am showing and demonstrating to all my friends and acquaintances this wonderful Interflex, and when I say I certainly am an Interflex booster, I am putting it mildly. My log to date is as follows:

WSBC Chicago, WTHO Chicago, WBBJ Fort Wayne, WOK Homewood, WBBM Chicago, WLEB Elgin, KSO Clarinda, Iowa, WREO Lansing, Mich., WBCN Chicago, KOA Denver, WSOE Milwaukee, KMA Shenandoah, WSM Nashville, WCCO Minneapolis, WHT Deerfield, KPRC Houston, WSMK Dayton, Ohio, KFJZ Fort Worth, WJAX Jacksonville, Fla., KTNT Muscatine, Iowa, WBZ Springfield, Mass., KOH Council Bluffs, Iowa, WJAZ Mount Prospect, WGEN Oak Park, KFNF Shenandoah, KFAB Lincoln, Neb., WGNR Chicago, WMBF Chicago, WDAF Kansas City, WBBH Chicago, WGN Chicago, WGY Schenectady, WLS Crete, WLW Harrison, KDKA East Pittsburgh, KFXX Hastings, Neb., WCRD Zion, Ill., WOC Davenport, WQJ Chicago, WSAI Mason, WTAM Cleveland, WWJ Detroit, WIAD Milwaukee.

L. H. WENSEL, 611 Clark Street, Middletown, Ohio.

We have constructed two machines with the Balanced Interflex circuit. The performance of the circuit is wonderful.
GUY SHUTER, 631 Park Avenue, Plaqu, O

I am glad to say that, with the Balanced Interflex made recently, I have been able to log the following stations:
WNYC, WEAF, WJZ, New York, WJY New York, WOR Newark, WMCA New York, WAHG Richmond Hill, WIN New York, WAAM and WGCP Newark, WBBR Rosville, N. Y., WGBS New York, WIP Philadelphia, WGBB Freeport, N. Y., WLIT Philadelphia, WRNY New York, WORD Chicago, WMBF Miami Beach, WGBU Miami Beach, WOC Davenport WHAZ Troy, N. Y., WGN Chicago, WDAF Kansas City.

WTAM Cleveland, WSAI Mason, Ohio, WOO Philadelphia, WHAP Brooklyn, KDKA East Pittsburgh, KW Chicago, WFG Atlantic City, WRC Washington, WERJ New York, WFBH New York, WCCO Minneapolis, Minn., WGY Schenectady, WLW Cincinnati.

J. SCHULTZ, 98 Parkville Avenue, Brooklyn, N. Y.

The article on the Single-Control Interflex read so well that I decided to build one; and I wish to say the results were most gratifying. After balancing I was able to log 25 stations in one evening, with equal volume to my five-tube set, and with more clearness and stability.

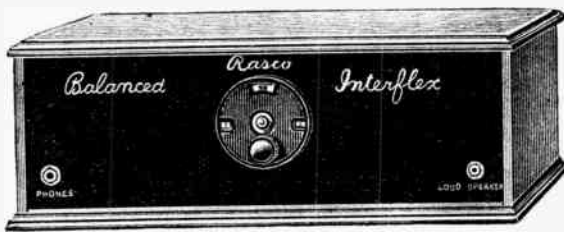
H. C. WATTERS, Jr., 1111 Eighth Street, Huntington, W. Va.

ALL ON LOUD SPEAKER

This is what the Balanced Interflex Four-A brought in on the loud speaker in one evening for Mr. Hugo Gersback, Editor of RADIO NEWS. No interference when two stations were within three points of each other.
WIP Philadelphia, WRC Washington, WJZ New York, WQJ Chicago, WEBB Chicago, WGN Chicago, WHN New York, WCRD Zion, Ill., WMCA New York, WGY Schenectady, WOR Newark, WSAI Mason, O., WGR Buffalo, WGBS New York, WAHG Richmond Hill, N. Y., KDKA, East Pittsburgh, Pa., WTAS Elgin, Ill., WFG Atlantic City, WCAU Philadelphia, WMAK Lockport, N. Y., WJAZ Chicago, WRNY, New York, WGCP, Newark, WNJ Newark, WOKO New York, WODA Paterson, N. J., WBBJ Chicago.

The Balanced Interflex Four-A takes in the entire broadcast range.

A BEAUTIFUL LOOKING RECEIVER



EASY FOR GRANDMOTHER

The old folks do not get the same "kick" out of playing with a half dozen or so dials that some of us do. They want simplicity, directness, ease of tuning. This is why they will be thankful for the chance to use this, the only single-dial and real single-control receiver.

PARTS INCLUDED IN KIT

Set Not Assembled

(List) \$1.18

Cabinet, mahogany finish, 7x21x8	3.75
Panel, drilled and engraved, 7x21. Bakelite	.45
Dilecto	
Baseboard, non-warping, 6½x20	7.00
Inductance Coils, special type, 2 at \$5.50	.36
Control Knob, 2 at 18c	
Variable Condenser, Double Straight Line, .00035, U. S. Lab. or Capacigrad	5.75
Fixed Condensers, .005, Hileco, 2 at 75c	1.50
Dial, Vernier, specially good, no backlash	2.50
Transformer, audio frequency, 3½ to 1, Paent.	10.00
2 at \$5.00	3.30
Rheostat, automatic, Amperite, 3 at \$1.10	2.00
Rheostat, one Filkostat	
Fixed Crystal Detector and Mounting, Carborundum	1.50
Sockets, low loss, bakelite Pilot, 4 at 40c	1.60
Jack, single, filament control, Jones Improved	.90
Jack, double, filament control, Jones Improved	.85
Binding Posts, moulded, Aristocrat, 7 at 7c	.49
Binding Post Strip, engraved	.25

"No-Sod-er" flexible, insulated, eyeletted connecting wires	1.25
Necessary Hardware (screws, angles, etc.), outfit	.50
Blue-print and Instruction Sheet	1.00

Kit, total, regular price.....\$49.13
Our special price, transportation paid.....\$31.85
 Catalog No.9335

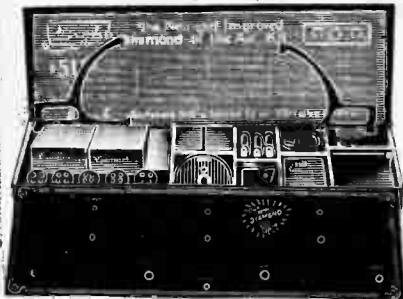
ACCESSORIES

Vacuum Tubes, UV-201A type, 4 at \$1.25	\$5.00
*Storage A Battery, 6-volt, 100 a. h.	9.50
B Batteries, 45-volt, large, 2 at \$2.30	4.60
Headphones, 2000-ohm	4.50
Phone Plug	.75
Aerial Equipment	4.50

Accessories, total, regular price.....\$28.85
Our price, postpaid*.....\$27.40
 Catalog No.9321
 *Exception: We do not pay transportation on any batteries.

Bruno 5-Tube Diamond of the Air Kit

Licensed Under Armstrong Regenerative Patent No. 1,113,119



\$45.85
POSTPAID

Radio receivers employing multi stage radio frequency amplification, are only truly effective, if they are laboratory designed and checked when completed by Technicians well versed in the science. In fact, a poorly designed, 5-tube receiver is often not even as good as an average 3-tube model. For all general purposes, a receiver, consisting of one Radio Frequency stage, with its tendency to oscillate either permanently neutralized, or slightly variable (very effective in the hands of an experienced Radio fan), and one ARMSTRONG REGENERATIVE Detector stage, followed by the usual stages of audio frequency amplification is proven to satisfy the wants, expectations, and receiving conditions of many broadcast listeners. Next to the 5-tube Tuned R.F. system of reception, this type of receiver is most universally used, being in principle very similar to the Roberts, Browning, Drake, etc. The R.F. stage employed in this Radio set has an amplification power of at least 10—and this it can be readily seen that not only all the virtues of the time tried and accepted Regenerative receiver are retained in this Diamond of the Air Kit, but also further improved upon, by the virtues of the R.F. stage just mentioned. You are assured extreme sensitivity on all distance reception, as well as selectivity which will not

"cut side hands" in its mission of better tuning, for that produces distortion. The Audio frequency system employed consists of one Audio transformer, coupled in the usual manner, followed by two Resistance coupled stages. A handsome drilled and tastefully decorated Bakelite panel, in conjunction with Bruno brackets and sub-base panel assures a very simple receiver to build. Detailed wiring instructions and general information included with each kit. Note the extreme high quality component parts we furnish with this outfit. Bear in mind this apparatus is not of questionable quality, nor, of any infringement on any patents—no make shift "schemes" are employed to evade the Armstrong Patents.

Parts For The Improved Diamond Of The Air Kit

1 Bruno No. 99 R.F. Coil @ \$3.00.....	\$ 3.00
1 Bruno No. 99 Tuning Coil @ \$5.50.....	5.50
2 No. 101 .0005 S.L.F. Bruno Condensers @ \$4.00.....	8.00
1 Bruno Pilot Light Switch.....	.75
3 Bruno Bakelite Vernier Dials @ \$2.00.....	6.00
3 1/2 Amp. Amerpites (mounted) @ \$1.10.....	3.30
1 1/2 Amp. Amerpites (mounted) @ \$1.10.....	1.10
1 3/4" 1 Bruno Trutone Model D Transformer.....	4.00
2 .1 megohm resistors.....	1.50
1 .5 megohm leak.....	.50
1 .5 megohm leak.....	.50
1 Bretwood Variable Grid Leak.....	1.50
2 Double Circuit Jacks @ .40.....	.80
1 Single Circuit Jack @ .30.....	.30
1 Century 7x24 Drilled and Engraved Panel @ \$5.00.....	5.00
5 Patent V.X. Spring Sockets @ .50.....	2.50
1 Century Drilled Socket Strip @ \$1.25.....	1.25
1 Pair Bruno Brackets.....	1.00
2 .25 Mfd. Aerovox By-Pass Condensers @ .70.....	1.40
1 5 Strand De Luxe multi-colored battery cable.....	.75
1 Push Pull Battery Switch.....	.50
1 .0025 Mfd. Aerovox Fixed Condenser.....	.40
1 Bruno Binding Posts @ .05.....	.20
5 Battery Cable Markers @ .15 set.....	.20
2 Flexible Leads for C Battery @ .10.....	.20
1 Mounts @ .20.....	.80
1 Bus Bar, Screws, Spaghetti, etc.....	1.00
TOTAL COST.....	\$51.90

YOUR SPECIAL PRICE

No. 9050 Complete Kit..... **\$45.85**

Bruno Basic Diamond of the Air Kit

Armstrong Regenerative Patent License No. 1,113,119

\$20.45
POSTPAID

You may wish to build this wonderful circuit employing certain parts which you may have on hand, and which will serve the purpose. To you, we offer this basic kit, consisting of:

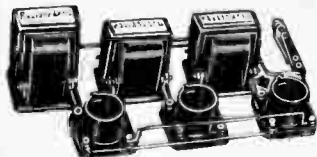
- 1 Bruno Jr. Tuning Coil.
- 1 Bruno No. 99 Jr. R.F. coil.
- 2 Bruno 101 Bakelite Shaft S.F. Condensers.
- 3 Bruno Vernier Dials.
- 1 Bruno Light Switch.

Or, you may order this essential kit, and wish to make up your own choice of the rest of the parts required, referring to the various pages of this catalogue. Very neatly boxed and furnished with an explanatory BLUE PRINT.

No. 9051..... **\$20.45**



Rauland Lyric Trio



\$18.95
POSTPAID

It has been proven, through much experimentation by the Rauland Lyric engineers and other competent authorities, that the combination of one stage of audio frequency amplification of the Rauland Lyric high quality type followed by two stages of IMPEDANCE COUPLED RAULAND LYRIC TRANSFORMERS will produce a quality of reception well worth the installation cost thereof. It is a happy combination of the merits of the two best amplifying systems, further enhanced by the determination of the Rauland Lyric organization to produce QUALITY APPARATUS, IRRESPECTIVE OF MANUFACTURING COSTS. The transformers are very attractively enclosed in black crystallized metal cases, with binding post connections, properly designated. This kit consists of one R-300, one R-300 and one R-310 Rauland Lyric transformers, complete with explicit instructions, wiring diagrams, etc. Can be installed in a few minutes.

No. 9004 Consists of 3 Transformers Described and Illustrated, but Without Sockets and Jack..... **\$18.95**

Our Leader Console With Built-in Loud Speaker

\$29.85

With Utah Balanced Armature Unit

The extremely low price that we name for this handsome console cabinet and built-in loud speaker is no reflection on the quality or appearance of same—in fact, it represents more value for your money than such similar combinations offered elsewhere for \$10.00 to \$20.00 additional cost! We believe in a large volume of sales, with small profits—your generous support substantiates our business principles. The batteries and chargers, or "A" and "B" battery eliminators can be housed within the spacious shelf room available for this purpose. The back of the battery compartment is removed for immediate access to the batteries, and proper ventilation thereof. The panel space is 7 inches high by 18 inches long, and has been especially designed to accommodate any of our receivers and kits built upon a 7 by 18-inch panel. Included with every console, is a \$9.00 Utah Balanced Armature Type Loud Speaker Unit, attached to the metal throat of a correctly designed wooden horn loud speaker, capable of enormous volume and perfect clarity. Handsome scrolled grill covers the speaker. Console is tastefully designed and finished in two-tone effect mahogany. The wood used is Genuine Mahogany Plywood—edge banded top. Overall size, 31 inches long, 37 inches high and 13½ inches deep. Shipped Express Collect. No. 9041 Console, with Speaker **\$29.85** and Utah Unit—No Receiver..



Note

By including with your order the list of accessories described in detail under No. 9071 (note that receiver chassis No. 8040 requires 6 tubes instead of 5) your Radio Receiver will be complete and will represent the greatest possible value for every penny you have invested with us for a thoroughly dependable Radio Receiver—your every satisfaction guaranteed.

Crosley One Tube "Pop" Receiver

\$9.63
POSTPAID



A complete one tube regenerative receiving set, completely assembled and ready for immediate use for this very low price of \$9.63! It is hard to believe that such value could be possible, even with American methods of mass production—but, the Crosley guarantee and absolute guarantee Vericon is every assurance of the integrity of the 100% performance possible with this miniature radio. With a

well constructed antenna, ONE DRY (CELL, one dry cell tube, ONE 2½" small "B" BATTERY, and a pair of head phones, it is possible to receive broadcasting stations even as far away as 500 to 1000 miles. Later on, you can add our 2-stage Itaco amplifier kit No. 9966, for loud speaker operation. Overall dimensions 7 inches by 6 inches by 5 inches. Only two very simple dials to operate—can be installed in a few minutes. Licensed under Armstrong U. S. Patent No. 1,113,149. No. 9800 Crosley Set, Without Tube **\$9.63** or Batteries, etc.....

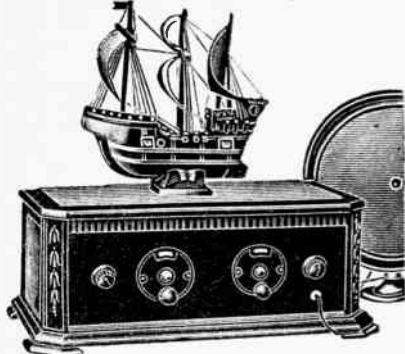
Notice

For your convenience we herewith list your cost price of the above console and Utah unit, with any of the following receivers, the price of the regular cabinet not regularly furnished therewith having been deducted:

No.	Your TOTAL COST
8940 6-tube TROPADYNE, and No. 9041 Combination	\$60.70
8941 5-tube Rasco EXPLORER, and No. 9041 Combination	\$58.80
8942 5-tube Rasco LEADER, and No. 9041 Combination	\$52.80
8943 5-tube 1 Dial Control Kit, and No. 9041 Combination	\$53.80
8944 5-tube 2-Dial Control Receiver, and No. 9041 Combination	\$60.70
8945 5-tube MELODEE Receiver, and No. 9041 Combination	\$50.80

(All of the above shipped Express Collect)

The New Shielded Hammarlund-Roberts 5-Tube HI-Q Receiver Kit



\$57.35

The underlying basic principles that have been most rigidly adhered to by this country's 10 leading Radio engineers are the principal causes for the ultra efficiency of this most marvellous receiver. True, due credit should be given to the unusually high standard of quality apparatus used throughout this set, but the total stage shielding and automatic variable coupling between the primary and secondaries of the 3 R.F. coils have made this receiver the exclusive choice of those who know sufficient about the art of Radio to logically determine that this Radio kit will perform in a manner that has long since been their fondest hopes. The circuit itself is composed of two stages of tuned radio frequency amplification, fully neutralized (or left slightly within the oscillating condition for extreme efficiency on very long distance, controllable in this state by the R.F. rheostat on the right of the panel)—one distortionless non-regenerative detector stage and two stages of extremely powerful audio frequency amplification. By using a clever tandem condenser on the 2nd R.F. and detector stages, the operation of this receiver reverts to only 2 vernier dials. The total shielding used for house and completely enclose the 2nd R.F. and detector stages accounts for the remarkable selectivity possible in this sensational receiver, for it prevents outside interferences (nearly local stations, static, radiating receivers, electrical disturbances, etc.) from affecting the tuning characteristics of these stages, and prevents the ever ruinous inter-stage coupling which throws radio frequency circuits into terrific oscillation, sometimes only controlled with attendant losses. Last, but not least, the almost uncanny sensitivity of this modern receiver is mainly due to the automatic coupling, effected by the adjustments of the condenser shafts, raising and lowering the primary coil in the field of the secondary coil, in correct unison with the settings of the condenser, or, in other words, the coupling is automatically correct for any wave length being received. Any old-timer will attest to the superiority of three-tube receivers 6 to 8 years ago, over most of the present vintage of five-tube receivers. Why? Because the variocouplers in those days were used as their very name implies: The secondaries of those coils were always adjusted to the wave length being received, and this adjustment was so critical, that its most necessary influence in the receiver was discarded in favor of the very inefficient "simplified controls," used to entice "new-comers" into purchasing receivers. In the old days, a receiver of the Hammarlund-Roberts HI-Q type would necessarily have to resort to 3 additional coupling dials, each very critical in their setting. But, on this masterpiece of the Hammarlund-Roberts engineers, the masterpieces of coupling are yours with not one valuable virtue of coupling are yours with not one additional dial to adjust, nor even a thought to be given to it. Stations heretofore regarded as extreme distance pour in with thrilling volume and clarity—stations never

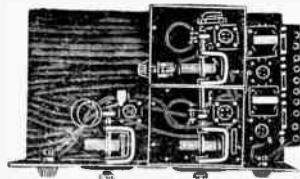
heard before, are yours at your very finger tips. And, the volume and clarity on all reception is typical of the high standards set for this receiver—it cannot be possibly improved upon. Wired for power amplification in 2nd stage. The instructions that accompany each kit are so explicit, and the mechanical layout so well engineered that this most marvellous receiver can be completely assembled by you in an evening. The following parts are included in the standard kit:

3—17-Plate, 00035 Mid. Hammarlund Midline	
2 Condensers @ \$1.75	\$14.25
1 set of 3 Auto-Couple Coils	10.00
1—9-plate 32-mmfd. Hammarlund Jr. Condenser	1.80
2 H. W. A 3 (3-1 ratio) Samson Audio Transformers @ \$5.00	10.00
2 Mar-co Vernier Dials, No. 192 @ \$2.50	5.00
2 No. 1 A Amperites @ \$1.10	2.20
1 No. 112 Amperite	1.10
3 Benjamin Sockets with bases, No. 9040 @ \$0.75	2.25
2 Benjamin Sockets without bases, No. 9049 @ \$0.50	1.00
2 Meg. Durham Metallized Resistor	.50
10 Eby Engraved Binding Posts @ \$0.15	1.50
1 .00025 Mfd. Sangamo Fixed Condenser	.40
1 .001 Mfd. Sangamo Fixed Condenser	.50
1 pr. Sangamo Grid Leak Clips	1.10
1 No. 10 M 8 Carter Combined Midget Rheostat and Filament Switch, 10 ohm	1.00
1 No. 1 Carter Short Jack	.25
1 No. 12 Carter "Inup" Aerial Switch	.75
1 Hammarlund-Roberts HI-Q Foundation Unit	10.50

Complete parts (without cabinet).....\$63.05

No. 9815 Your price, with above list of parts (ship model and cone speaker) **\$57.35** (not included)

Shipped Express Collect.



Looking down on the New Shielded Hammarlund-Roberts 5-tube HI-Q set.

Hammarlund-Roberts HI-Q Foundation Unit

\$8.38
POSTPAID



Although the contents of this kit are primarily intended for use in our No. 9815 kit, they can be adapted to your own special requirements. It consists of handsomely drilled and Engraved Bakelite Panel, drilled bakelite sub-panel, two complete aluminum shields, extension shaft, equalizers, fixed resistance, wire, screws, etc.

No. 9817..... **\$8.38**



How to Build the Hammarlund 5-Tube HI-Q Receiver

Complete instructions for assembling, wiring and operating the Hammarlund-Roberts HI-Q receiver. Prepared under the direction of the Hammarlund-Roberts Board of Engineers.

No. 9814..... **\$0.25**

Daven Bass Note Circuit 6-Tube Kit



\$52.25
POSTPAID

Built around the famous Daven Bass Note coils elsewhere described in this catalogue, and the Daven resistance coupled amplifiers, this 6-tube circuit offers possibilities of tonal reproduction and long distance reception that makes the performance of this kit, when assembled, equal to any commercially built Radio usually selling for \$300.00. The very best parts are only included in this kit, and a handsomely engraved drilled Bakelite panel 7 inches by 28 inches will facilitate your assembly thereof. Full detailed directions, blue prints, etc., accompany each kit. Your complete satisfaction is unreservedly guaranteed. The complete kit consists of the Daven Bass Note kit of coils—3 very high quality variable condensers, rheostats, jacks, sockets, complete parts for resistance coupled amplifier (3 stages), Bakelite tuning dials, binding post bridge, drilled and engraved Bakelite panel, baseboard, miscellaneous hardware, grid condenser and leak, rubber covered hook-up wire, blue print and wiring instructions.

No. 9854 Complete Unassembled Kit, Without Cabinet..... **\$52.25**

Pilot

Radio Frequency Essential Kit



\$6.15
POSTPAID

Please do not confuse the quality of these parts with that ordinarily offered in such kits—the very fact that we use the very same materials in our No. 9214 5-tube kit is proof of its exceptional merit. Consists of 3 17-plate Pilot condensers, in either the S.L.F. or S.L. modified type, 3 special coil mounts made of bakelite, and three Freshman type No. 2028 R.F. coils. Using these parts, and that material which you may have on hand from an old set, you can build a very efficient 5-tube receiver. In addition to above, you need rheostats, panel sockets, audio transformers, etc. If you wish to build a receiver of the non-oscillating type, you simply reverse the plate coil leads to that side on which such oscillations are not present. However, the more efficient receiver will allow for purposely introduced oscillations, controllable by either a potentiometer (100 ohms) across the "A" battery, with the return filament leads of the antenna and 2nd stage R.F. transformers connected to the movable blade or arm thereof, or, controllable by a variable resistance (Clarostat—C. R. L. products, etc.) in the R. F. "B" battery circuit. We can supply you with a special drilled and engraved bakelite panel, 7 x 23 inches, for this circuit, for \$3.50. Base Print and Baseboard layout for \$0.50 and wiring instructions (No-Sol-Ex method) for \$0.50.

No. 9623 Set of 3 R.F. Coils—3 Mounts—3 Condensers..... **\$6.15**

Aero Tuned Radio Frequency Kit



\$10.28
POSTPAID

Daven DRF Bass Note R.F. Coils

\$7.15
POSTPAID

Although especially designed for use in the famed Daven Bass Note circuit, these coils are so efficient that they can replace any existing type of R.F. coil, and produce unexcelled results. Scientifically designed to give greatest selectivity with perfect balance. Very small fields, no self-oscillation, no feed back. Degree of coupling between primary and secondary has been perfected. Smallest R.F. coils made: Wound on bakelite tubes 1 1/2 inches in diameter by 3 inches long. Connections can be twisted under cap nuts, nickel plated. Complete instructions for building the Daven Bass Note circuit furnished.

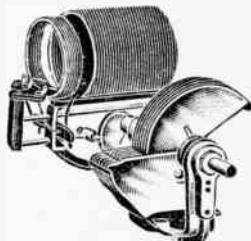
No. 9748..... **\$7.15**



Hammarlund Auto Couple Tuned Radio Frequency Unit

\$7.78
POSTPAID

Comprises the Hammarlund S.L.F. Mid-line .00035 variable condenser with special rear extension shaft, upon which is mounted a cam. When condenser shaft is rotated, this cam bears against a movable member of the primary of the coil, the



primary being mounted on a special track is therefore able to tune in and out of the secondary coil, thus varying the coupling thereof. Automatically, the coupling is set at the correct distance with respect to the secondary and the wave length being received. This principle has been known for many years by experts and laboratories to be the very essence of a perfect tuned radio frequency circuit—and it took the Hammarlund engineers to apply this accepted theory and actually make it possible for the layman, mechanically, to enjoy this feature WITHOUT REQUIRING ONE ADDITIONAL CONTROL. This principle is conducive of SENSITIVITY, SELECTIVITY, VOLUME AND CLARITY AT ALL WAVE LENGTHS IRRESPECTIVE OF ANY LENGTH AERIAL BEING USED. Condenser plates are non-corrosive brass, soldered to both of their respective frames. Reinforced ribbed standards—one hole mounting, with additional anchoring screw if desired—bronze spring tag—friction band brake—design of plates assures no crowding of stations on any wave length.

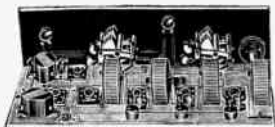
No. 9816 Complete Unit, Coil and Condenser..... **\$7.78**

Consists of three MATCHED units. Antenna coupler has variable primary, assuring maximum efficiency under all adverse conditions. Packed with 8-page color circuit, layout and instruction sheet for building the famed super-sensitive 5-tube Aero-Dyne. For .00035 or 17-plate capacity condensers. The unusually high electrical efficiency of these coils permit their use in many varieties of circuits. Air space wound—minimum of insulation in their field.

No. 9603 (Set of 3 Coils)..... **\$10.28**

The New Bremer Tully Counterphase Power Six Kit

\$78.15



Employing three stages of ultra sensitive tuned radio frequency, in which interstage coupling effects have been reduced to a minimum and in

which the external pick-up is practically nil, this latest product of the Bremer Tully laboratories is daily making extreme long distance reception records. The shortest possible aerials will produce results on this new receiver kit not even possible on other receivers using long aerials, proving its sensitivity. There are only two major tuning dials, two tandem condensers being employed. Wired for power stage amplification, assuring maximum volume and tonal reproduction second to no other receiver. Is very simple to assemble due to unique color coded wiring harness. Note the very high quality parts furnished in this kit—its performance warrants it:

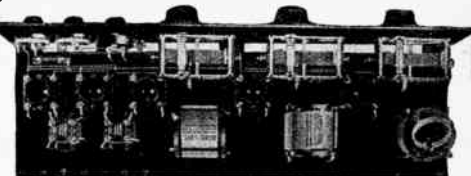
PARTS REQUIRED		Retail Value
1	TA Toroyale Transformer.....	\$ 4.00
3	TC Toroyale Transformers @ \$4.00.....	12.00
2	LD-17 Condensers @ \$9.50.....	19.00
3	B-T Mmf. Condensers @ \$1.00.....	3.00
1	B-T 500,000 Ohm Resistance.....	2.70
3	1500 Ohm Resistances @ 50c.....	1.50
1	Set color charts and diagrams.....	.90
1	Panel, 7x24, drilled and engraved.....	6.00
1	Wood Baseboard, 9 3/4 x 23 1/2.....	1.25
1	B-T Euphonic Audio Transformer; 2.2 to 1.....	5.00
1	B-T Euphonic Audio Transformer; 4.7 to 1.....	5.75
2	B-T Tuning Controls @ \$2.50.....	5.00
1	.001 Mfd. Fixed Condenser.....	.40
1	.0025 Mfd. Fixed Condenser.....	.40
3	.006 Mfd. Fixed Condensers @ 75c.....	2.25
2	1 Mfd. Fixed Condensers @ 90c.....	1.80
5	B-T Type UL or UXA Sockets @ \$1.00.....	5.00
2	Meg. Grid Leak.....	.50
1	B-T UL "Silent" or U.X. Detector Socket.....	1.25
1	Double Circuit Jack No. 101.....	.70
1	Single Circuit Jack No. 101.....	1.00
1	Flament Switch.....	.65
1	3 Ohm Rheostat.....	1.00
1	Single Pole, Double Throw Jack Switch.....	.90
1	Binding Post and Mounting Strip.....	.40
1	Jones B.M. Multi-plus Set.....	4.50
2	C Batteries—4 1/2 volts @ 60c.....	1.20
	Lugs, Screws, Hoop-up Wire.....	1.00

Total Retail Value.....\$91.05

No. 9867 Your special net cost **\$78.15**

(unassembled) Shipped Express Collect.

The Famous 5-Tube Super-Sensitive Aero Dyne Receiver



\$59.45

POSTPAID

This extraordinary receiver, employing the Aero Dyne No. 9603 Tuned Radio Frequency Kit, represents the very finest Radio set that can be made, whether it be custom built or even a factory assembled Radio receiver costing several times the price of this kit.

It is the receiver you have long wished for, as it combines extreme selectivity and its attendant result—distance reception, perfect clarity, ample volume, fool-proof, trouble-proof and very simple to assemble. An 8-page instruction sheet in color wiring, with actual size panel and baseboard lay outs, and comprehensive directions and wiring instructions, is furnished with this kit.

List of parts furnished with this Kit:

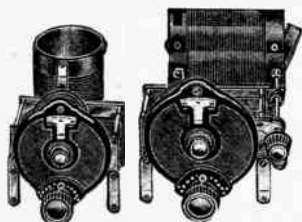
9	Binding Posts
1	.00025 Grid Condenser and Clips
1	5 Megohm Grid Leak
1	1 Mfd. By-Pass Condenser
1	.001 Fixed Condenser
1	Open Circuit Jack
1	Closed Circuit Jack
1	Set of No. 9603 Aero Coils (TRF-120)
1	Verichromed Aero Dyne Panel, drilled and engraved, 7 inches by 28 inches
1	Drilled Sub Panel
3	Sub Panel Brackets
1	20 Ohm Pilot Rheostat
1	10 Ohm Pilot Rheostat
5	Paent U.X. Sockets (cushioned)
3	4-inch Dials
1	C.R.L. or 200,000 Variable Resistance
2	Paent No. 2811 Transformers
1	1/2 Ampere Amperite Audio Tube Resistance
3	Paent S.L.F. Condensers
1	Reel of Hook-up Wire No. 4426 or Bus Bar Wire
1	Dixie Assortment Screws and Lugs.

Total List Value.....\$71.80

No. 9607 Complete kit as above. **\$59.45**

Our Price, Prepaid.....

"National" Tuning Units for Browning Drake Circuit



B D-1B

B D-2B

\$9.95

POSTPAID

The Browning Drake circuit is one of huge possibilities but for most efficient results the laboratory designed instruments should be used, for logical reasons. The coils must not only be of a certain inductive value, but the inductive relation to each other, and the over all distributed capacity must be of a known value. Then again, the proper coupling must be rigidly determined, on the one hand, and be properly variable, on the other. The National Coils are

wound with enameled wire on very thin bakelite forms, and are precision space wound. Lowest dielectric losses, with greatest possible transfer of energy. Both coils are attached to nickel plated brass angle strips, and are set at a predetermined electrically correct distance from the rear plate of the condenser. The coupling coil in the type B D-2B unit is controlled by a shaft which is supported in a bearing on the front end of the condenser, to insure stability in its rotation. A small tapered bakelite knob is furnished for the adjustments of this rotor on the panel. The National Eucycle condenser furnished are unique in that they rotate in an arc of 270° instead of the conventional 180°, the additional sweep further adding to the S.L.F. characteristics, especially at the lower and higher band of wavelengths. The B D-1B unit employs a .0005 variable condenser, whereas the B D-2B unit employs a .00025 variable condenser. A National type B Vernier dial (described in detail under our No. 9648) is furnished with each condenser.

No. 9626 Type B D-1B..... \$9.95

No. 8998 Type B D-2B..... \$13.27

Karas Equamatic 5-Tube Receiver Kit



\$88.50
POSTPAID

The sensational results possible with this new receiver are solely attributed to the very heart of the circuit—the Karas Equamatic coils, fully described under our No. 9009. The quality of reception places this radio set in a class by itself. Due to variable coupling feature, it is even superior to Radios selling for \$400.00—and proves it, too. Automatic oscillation control. Drilled and engraved front and sub panels assure a very simple mode of assembly. Directions and wiring instructions cover every possible detail. Note the very high quality list of parts that are furnished with this receiver—the exceptional results obtainable with this receiver certainly justifies its seemingly higher cost price. The quest of every Radio fan is **SELECTIVITY, SENSITIVITY, CLARITY AND VOLUME**, with ease of operation. **THE KARAS EQUAMATIC RECEIVER WILL DELIVER A 100% SHARE OF ALL THESE QUALITIES.** It is truly an investment, not a cost.

List of Parts

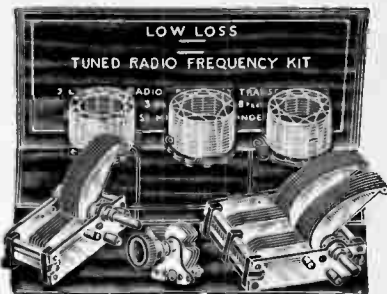
- 3 Karas Equamatic R.F. Transformers.
- 3 Karas Orthometric .00037 Extended Shaft Condensers.
- 3 Karas Micrometric Vernier Dials.
- 2 Karas Harmonik Audio Transformers.
- 2 Karas Equamatic Retard Coils.
- 3 Karas Sub Panel Brackets, Set.
- 1 7x28 Bakelite Panel, Drilled and Engraved.
- 1 Formica Drilled Sub Panel.
- 1 Carter 10-ohm Rheostat with Knob.
- 1 Carter 20-ohm Rheostat with Knob.
- 1 Carter Double Circuit Jack.
- 1 Carter Imp. Filament Switch.
- 1 Sangamo .00025 Grid Condenser with Clips.
- 1 Carter Open Circuit Jack.
- 1 Amseo 2 meg. Grid Gate.
- 2 No. 1-A Amperites.
- 1 4½-volt "C" Battery.
- 1 Jones Multiplying with Mounting and 8-ft. Cable.
- 5 Benjamin UX Cushion Sockets.
- Binding Posts, Screws, Bus Wire, Soldering Lugs, Spaghetti.

No. 9010—Complete Kit of Parts. **\$88.50**
YOUR COST

Pilot 2-Dial 5-Tube Kit

\$6.60
POSTPAID

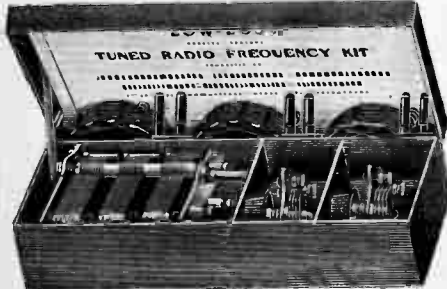
The conventional form of 5 or 6-tube Tuned Radio Frequency receivers is always equipped with three 17-plate variable condensers, and therefore needs 3 tuning dials. Should you offer any objection to the necessity of having so many dials to manipulate, yet wish to build a receiver using this ever popular and most efficient circuit, this problem is very satisfactorily solved by employing this **2-DIAL TUNED RADIO FREQUENCY ESSENTIAL KIT.** You will note in the illustration that one of the condensers is composed of two 17-plate sections, with common rotary plates, but with electrically independent stator plates. Thus the 2nd R.F. and the Detector stages are simultaneously tuned **WITH ONE DIAL.** The other condenser tunes the antenna R.F. stage. To compensate for any electrical differences that would, and do exist between the two stages tuned by this tandem condenser, a 7-plate Midget condenser is shunted across either the



2nd R.F. section of the condenser, or, the Detector section thereof—whereas this adjustment can be determined in a few moments, and left at that setting, it would be more preferable to place this midget condenser directly on the panel, using same for vernier adjustments on extreme distance reception. The coils furnished with this kit are the **BABY** compact basket weave type, and have special fibre mounts attached thereto. Tuning range: 200 to 550 meters. Quality apparatus throughout—the circuit involved demands it. The kit includes one 17-plate S.L.F. condenser, one Tandem 17-plate condenser, one Pilot 7-plate Midget condenser, 3 Baby Basket weave coils, 3 special coil mountings.

No. 9624 **\$6.60**

Single Dial Control 5-Tube Receiver Essential Kit



\$6.85
POSTPAID

The ever popular 5 or 6-tube tuned radio frequency receiver is now easily controlled by one vernier dial with the use of this essential kit. The 3 condensers ordinarily employed in a conventional tuned radio frequency receiver are combined into one triple condenser, the rotors of which are electrically and mechanically attached to a common shaft. To compensate for any differences between the three radio frequency stages, two 7-plate Midget condensers are included in this kit—they can either be mounted within the receiver, being permanently adjusted, or attached to the panel, for vernier adjustments thereto when tuning extreme distant stations. There is a wonderful thrill awaiting you, as you slowly rotate the one control vernier dial, stations from all over the country snapping in and out with hair line selectivity, from the lowest to the highest broadcast wave lengths. The 3 coils furnished are very carefully matched, and will cover the full broadcast band of 200 to 550 meters in conjunction with the 17-plate .00035 Mfd. condensers included in this kit. Mounting supports for the coils provide for mounting thereof either to a sub-panel or base board.

No. 9625 As Illustrated **\$6.85**

The Rasco De Luxe Console

FULL THROATED
HORN AND
ADJUSTABLE UNIT

ENORMOUS VOLUME
AND PERFECT
TONE QUALITY

\$36.45

\$54.15

No. 9037 CONSOLE ONLY

No. 9656 With 5-tube
Tuned Radio Frequency Re-
ceiver and Powerful Loud
Speaker Unit.

LUXURIOUS
APPEARANCE

ULTRA SENSITIVE
AND SELECTIVE



OPEN VIEW

OUR SENSATIONAL BID FOR YOUR PATRONAGE

We cannot properly describe this console to you with all its inherent beauty and extreme usefulness—but the most convincing statement we can make is that this Console exceeds all of our previous efforts to offer our many friends the very best values at the lowest possible prices—no other mail order concern, nor in fact your local dealer, could afford to sell the above illustrated Cabinet and set at the very low price that we name—for we depend on large sales with very small profits. Therefore, if we admit that this is our greatest bargain in a Radio Console and receiver combination, it must be a most unusual opportunity—and just as much an opportunity for us, as it is for you, for any customer purchasing this merchandise, will be the means of securing for us additional business—his further re-orders, and the orders that result directly from pleased recommendations of our customers to their many friends.

The Console Cabinet

The first impression that the De Luxe Console will make on you, is that it is a most beautiful piece of furniture—for it is most tastefully designed, with a hand-rubbed piano finish in two-tone mahogany. The loud speaker

chamber is screened with a gold-silk-covered, artistically scrolled grille in harmonious contrast to the general decorative effects of the Console. The two front legs are gracefully formed, yet of very sturdy construction. The top is edge banded, and the edges of the Console are attractively scored. The drop leaf, which conceals the Radio receiver when same is not in use, is large enough to be used as a writing desk—it also affords a most convenient arm rest while tuning in stations and recording them in your log. The battery compartment is readily accessible on the front of the cabinet, having a hinging door for this purpose, an exclusive feature only found on consoles selling for double our price. It is commodious enough to house all your batteries, chargers or eliminating devices, measuring 21 inches long, 13½ inches deep (behind the closed doors) and 10½ inches high. Any receiver whose panel does not exceed 8 inches by 21 inches can be placed in the space available for this purpose. The back of this cabinet is removable, for access to the receiver itself, the loud speaker unit (for any adjustments thereto) and to the batteries. It is therefore plain to perceive that this De Luxe Radio Console will not only enhance the beauty of any living room, music room, parlor, etc., but, it is extremely useful, and can be adapted to your particular requirements.

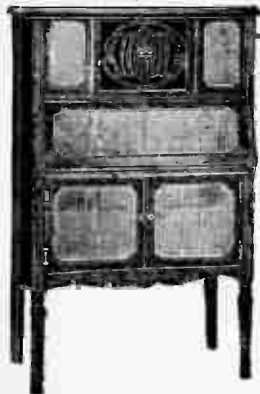
Gentlemen:

Received my Radio set in very good condition—am more than pleased with same. Please rush to me another order blank, so that I can send you a re-order in a week.

ELDRED ROLAND, 81: Vattier St., Manhattan, Kans.

The Built-In Loud Speaker

We realize that everybody judges the quality of any Radio receiver by what they actually "hear"—that is,



CLOSED VIEW

Their judgment is solely dependent on the limitations of the loud speaker. And so, we decided to incorporate in this console the very finest, acoustically perfect loud speaker. The unit is attached to a universal ferrule located in the battery compartment section of the cabinet, and then there is a scientific designed tapering throat that extends, practically to the top of the cabinet, where it opens out into a wooden tone chamber of ample proportions—is it any wonder then that every purchaser of this console is so enthusiastic over the sonorous and beautiful natural tones, only possible because we have spared no expense in our efforts to offer you the most possible value for your money?

Loud Speaker Unit

Appreciating the fact that you may have your particular choice of a loud speaker unit, we do not include one when simply the console is ordered—however, the unit that we do furnish with the receiver combination is very powerful, and of the adjustable type, for maximum volume and clarity.

The Receiver Furnished in This Combination

You will find this receiver described in detail under our No. 9657. When you remove the De Luxe Console from its crate you simply have to slip the chassis into the panel space cut to the exact size and perfectly centered, drive in a few screws into holes already started for you and attach the batteries—a few minutes' work. Detailed instructions included. Shipping weight, about 100 pounds. Shipped express collect.

No. 9656 De Luxe Console, with No. 9657 5-Tube Tuned Radio Frequency Receiver, and Adjustable Loud Speaker Unit.....\$54.15
 No. 9037 De Luxe Console, without receiver or loud speaker unit.....\$36.45
 Kindly state what size panel you intend to use.

Notice

Any of our assembled receivers, one dial control—Balanced Interflex—and No. 9216 5-tube kits can be set into this Console. If you intend to purchase this Console for a No. 9216 kit, we will include special instructions for the assembly of that kit on a 7 inches by 21 inches panel, instead of the 7 inches by 24 panel, as furnished or you can build any circuit of your own choice therein, ordering either of the following panels:

- No. 8927 8 inches by 21 inches by 3/16 inch Dilectrate Panel\$2.69
- No. 8928 8 inches by 21 inches by 3/16 inch Bakelite Panel\$3.89

Rasco Melodee 5-Tube Assembled Receiver



\$23.45

No. 9657
POSTPAID

Determined to offer our many friends a 5-tube Assembled Radio Receiver at the lowest possible price, we instructed our Radio Engineers to submit to us 6 receivers in which would be combined, not only the very latest and up-to-date improvements of this current season, but also their own new suggestions and ideas of both a mechanical and electrical nature. From these receivers we condensed all these features and improvements, incorporating them into the Rasco Melodee 5-Tube Tuned Radio Frequency Assembled Receiver. Because of the large volume of sales we enjoy we are able to sell you a high quality receiver, completely assembled, for a price even lower than several un-assembled kits. The only difference between this receiver, and The Rasco Sonata is the cabinet—which does not contain a built-in speaker—and the panel (size 7 inches by 18 inches)—which is set on a slight angle to afford you better view of the dial readings. The overall size of the cabinet is 19 inches long by 8 1/2 inches wide by 8 1/2 inches deep. The finish is mahogany on well selected and seasoned gum wood. A very pleasant surprise awaits you on your first audition of this receiver—and you will be very much impressed by its appearance and durable mechanical construction. Every receiver is very carefully tested on actual radio reception. A 100% binding guarantee of your complete satisfaction forms the veritable consideration of your purchase of this high quality Radio Receiver.

No. 9657 5-Tube Receiver with Cabinet.....\$23.45
 No. 9659 Without Cabinet—Chassis Only.....\$20.95

Walbert Penetrola

\$29.48

POSTPAID



This instrument will give you selectivity with a vengeance. Any Penetrola demonstration will show you results that certainly can attest for all that is claimed for it. The wanted station is immensely intensified—the unwanted stations and other interference are overwhelmed. Distance reception is even possible with a short aerial because of the Penetrola action. Its radiation from your receiver is suppressed. Your dial readings will remain substantially the same. The Penetrola represents theory put into practice with 100% success. It takes but a few minutes to attach to any Radio receiver. Furnished in Black, metal crystallite cabinet.

No. 9673.....**\$29.48**

TROPADYNE--6 RECEIVER

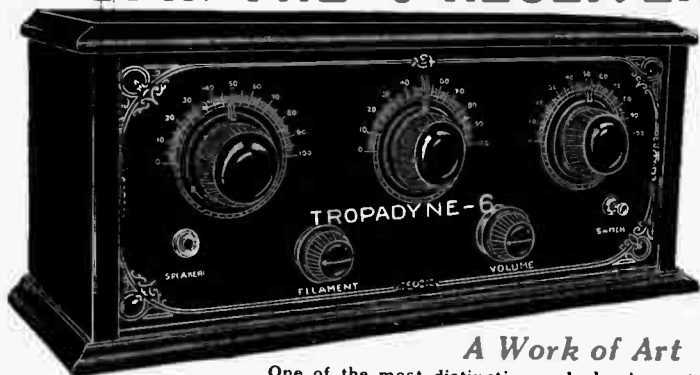
ASSEMBLED
Ready for Use

ONLY

\$34⁷⁵

No. 9487

6-Tube
Tuned
Radio
Frequency
Balanced
Amplifier



A Work of Art

One of the most distinctive and pleasing external features of the set is the exquisitely-grained bakelite panel, faithfully conveying the impression of the finest walnut. Bakelite manufacturers say it is the handsomest panel they have seen in any radio set. Kurz-Kasch Dials and Knobs used throughout to enhance the beauty. The limitations of production do not permit us even to approximately represent the beauties of the set.

Bakelite panel walnut finish—etch-o-gravure and gold decorations—bakelite sub-base—universal sockets, adapted to either UV or UX types of tubes—Kurz-Kasch bakelite walnut pointers, gold-filled to match—Kurz-Kasch bakelite gold-filled rheostat knobs—straight line frequency condensers—special coils, double silk enameled, primary and secondary—Shore audio transformers—distinctive Caswell-Runyan walnut-finish cabinet, 7 x 18 ins.—superior design and workmanship.

Easily tuned—no oscillations or squeals—no potentiometer—no resistances—self-equalized—low-loss materials used throughout.

*Both of
These Sets
Receive*

Broadcasts from
**OVER 2000
TO 3000
MILES**



ONLY
\$32.35

No. 9488

5-TUBE
TUNED
RADIO
FREQUENCY

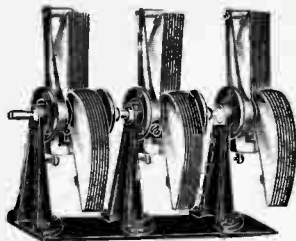
Both these sets are noted for clearness of tone. Programs of distant stations come in as clear as a bell. The refinement of tone is a revelation to all who hear these well-nigh perfect receivers.

Same specifications as for the Tropadyne-6, the chief difference being that this set uses only five tubes and the distance and volume of reception are a little less.

No. 9055 Chassis Only, Set Minus Cabinet....

\$28.85

Paent Triple 17-Plate Condenser



\$9.93
POSTPAID

For mechanical ruggedness and electrical efficiency, this triple condenser has no equal. It is composed of three 17-plate Paent S. L. F. condensers, mounted on a common "shaft" — electrically independent of each other, therefore, the rotary plates or positive film any other tandem thereon are always

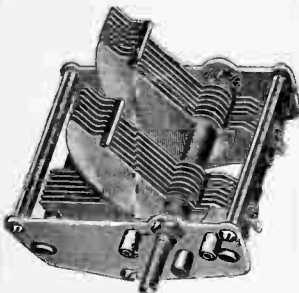
electrically connected to the same shaft. Furthermore, the rotary plates of any of the condenser sections may be shifted to the right or the left and then permanently set, to compensate for any electrical differences between these various sections, eliminating the necessity of employing compensating or midget condensers for this purpose. A hardened steel set screw in this bushing grips this shaft, with no lost motion being effected. The shafts of each of the condensers revolve in bearings attached to the 3 reinforced cast metal standards which are screwed to the metal base plate, in which there are two mounting holes for anchoring the condenser to the base board. From the center of the shaft which passes through the panel, and to which is attached a vernier dial, to the under surface of the base plate, it measures 3 1/4 inches. The baseplate measures 2 inches wide by 7 1/4 inches long. Overall dimensions of the condenser with the plates unmeshed is 4 1/4 inches wide, 6 inches high and 7 3/4 inches deep from the rear of the panel. Capacity of each section .00035 mfd. No. 8931 \$9.93
No. 8990 (Two Gang) \$7.95

can be attached to either the negative or positive terminal return circuit, not possible in a tandem condenser, because the rotary plates

Amsco Low-Loss S. L. F. Double Condenser

\$5.95 POSTPAID

Precision made by the famous Amsco laboratories. Grounded rotor. Curve—Perfect straight line frequency curve obtained by scientifically designated plates will separate stations equally at 10 kilocycles per division. Bearings—Combined ball and cone, which automatically take up the wear, assuring perfect alignment at all times. Insulation—Special grade of rayon, exactly proportioned to prevent warping in any direction and to cut down losses to a minimum. Frame—Heavy rugged aluminum construction, using hexagon supporting posts. Rotor—Extra



hard heavy gauged aluminum plates, with swaged end brace, assuring permanent, perfect alignment. Sizing—Extra hard heavy gauged aluminum plates, braced and swaged at three points, assuring rigidity and permanent alignment. Capacity—Low minimum with uniform maximum capacities. Used in the Superior Balanced Interflex Receiver. Size open 3 3/4" long; 4 1/4" wide, 4 1/4" high. Size closed 3 1/4" long, 4 1/4" wide, 2" high. No. 9513 .0005 mfd. \$5.95

Paent True Straight-Line Frequency Condenser

\$2.15
POSTPAID



Stations can be equi-spaced according to frequencies. Grounded rotor in continuous connection with metal end-plate—meets all requirements of low loss design. Perfect insulation. Isolantite properly placed. Special brass plates. Riveted and soldered. Rigid channel frame construction. Permanent plate alignment. Extra tie bars. Oversize, dust proof uni-bearing. Positive enclosed stop. Optional one-hole mounting. Design provides for uni-control tandem mounting. 17 plates recommended for neutrodyne and all tuned radio frequency circuits. 00035 Mfd. Max. 23 plates for super-heterodyne circuits. .0005 Mfd. Max. Size open 3 3/4" long; 1 1/2" wide, 4" high. Size closed 3 3/4" long, 1 1/2" wide, 2" high.
No. 8903 7-plate \$2.15
No. 8904 11-plate \$2.65
No. 4432 17-plate \$2.95
No. 4433 23-plate \$2.95

Pilot Midget Condenser



Small in size and the price is small. Low loss. One hole mounting. Can be used as a vernier condenser. Builders of super-heterodyne sets find it most desirable. Well-made. It will surely please you. No. 9468 (7-plate) **\$0.50**
No. 8802 (13-plate) \$0.97

Chelton Midget Condenser



Has been on the market several years and is increasingly popular. Used as a vernier. In great demand in superheterodyne circuits. Low loss design. One-hole mounting. Brass plates. Variable.
No. 9174 9-plate \$1.17
No. 9512 13-plate \$1.34

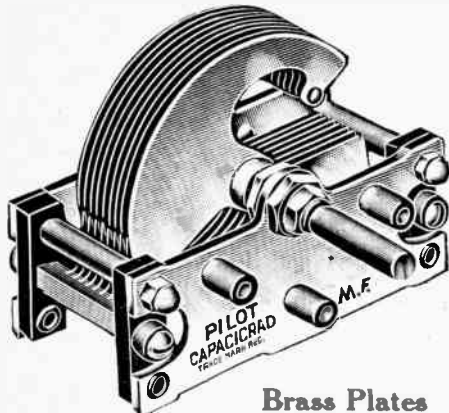
Neutralizing Condenser



For use where capacity balance is desired. The Balcon neutralizing condenser consists of two nickel-plated electrodes enclosed in a 1/4 inch glass

tube. Around the outside a piece of nickel-finished split brass tubing is fitted so that it may be moved from one end to the other, thus forming a condenser of very low capacity, the glass tube being the dielectric. The base is Radion. Maximum capacity is obtained when center of brass tube coincides with center of space between electrodes. No. 9377 **\$0.29**

Pilot Capacigrad Straight Line Modified Condensers



Brass Plates

\$1.30
POSTPAID

Necessity is the Mother of Invention, and hence was responsible for the manufacture of the above type of condenser. In the earlier days of Radio, the conventional variable condenser had rotary plates and stationary plates both shaped in the fashion of a half moon. It was noted that this type seemingly "jammed" all the lower wave lengths over a very small portion of the dial controlling that instrument, whereas the highest wave lengths generally terminated at 2/3 of the arc, rendering the remaining 1/3 of the condenser useless. Thus, between 60 to 70 degrees on the dials, wave lengths from 200 to 550 meters were crowded in an uneven fashion. The first improvement resulted in the lower wave length section of the rotor being slightly shaped off from the circular form, allowing slightly better relief on the lower wave lengths, but not of much consequence. Then came the first radical improvement: Our Pilot S.L.F. condensers, as described under Nos. 3580 to 3582. Although the fixed plates were not altered in shape, the rotary plates were, their form being altered from that of a half moon to that peculiar shape as illustrated under No. 3580. Furthermore, the shaft was so placed that the rotary plates described an eccentric arc, while being meshed into the stationary plates. The result: The lower wave lengths were spread over a much wider portion of the dial, greatly assisting in the tuning and selectivity thereof, and the highest waves came in very near the complete meshing of the rotary plates into the stationary plates, or, between 95 and 100 on the dial. But here again two obstacles presented themselves, necessitating the above illustrated departure from the heretofore accepted S.L.F. type—first, mechanically the S.L.F. type occupied considerably more space than previous types, due of course to the eccentric orbit the rotary plates cut, while being completely unmeshed; secondly, electrically, so much attention was paid to the more gradual distribution of the lower waves by shaping the rotary plates above referred to that the higher wave lengths were actually becoming huddled together, as was the case with the lower wave lengths in the original models. It was then apparent that a happy medium must be sought, a condenser that would allocate evenly over its 180° cycle the lower wave lengths as well as the higher wave lengths. In the modified condenser, the rotary plates are shaped in a half moon fashion on its circumference, but a considerable portion of the body has been removed, as the illustration clearly denotes, in a like manner, the stationary plates have been shaped; thus accounting for the happy medium of wave length distribution long sought for. The shaft is placed in the exact center of the instrument, therefore, the rotary plates describe an arc within the outer edges of the condenser, accounting for very small overall length on

your panel of 3 3/8 inches compared to 4 1/2 inches with the rotary plates completely unmeshed of the S.L.F. model. The 17-plate condenser, the most popular size, measures 1 3/16 inches high and 1 1/2 inches deep from back of the panel. End plates composed of bright aluminum, with solid brass rotary and stationary plates—minimum bakelite insulation—screw terminals. Note that this type condenser should be used in conjunction with a No. 9915 2 Gang S. L. Modified condenser, and the S. L. F. Model No. 3581 must be used with the No. 3590 2-gang condenser, so as to retain the same dial settings.

No. 9911	8-plate .00017 Capacigrad S. L. Modified Condenser	\$1.30
No. 9912	13-plate .0003 Capacigrad S. L. Modified Condenser	\$1.50
No. 9913	17-plate .00038 Capacigrad S. L. Modified Condenser	\$1.70
No. 9914	23-plate .0005 Capacigrad S. L. Modified Condenser	\$1.80

Two Gang Capacigrad S. L. Modified Condenser

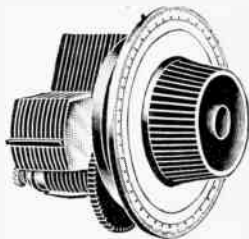
No. 9915 17-plate .00038 Capacigrad S. L. Modified Condenser \$3.20
Composed of two electrically uniform 17-plate condensers, having the same features as the single condensers above referred to.

Remler 360° Variable Condenser Twin Rotor Type

\$4.47
POSTPAID

This most unique condenser has two rotors which mesh into each other, both moving at the same time, actuated by a set of bakelite gears to which they are rigidly fastened—and these gears are in turn in mesh not only with each other, but also with a very small diameter gear which is attached to the operating shaft and dial. This small ratio gear produces a very realistic vernier effect. The Dial moves in a 360° arc, but the rotors only move in a 90° arc. All electrical connections are foreign to the metal shaft, and operating dial, insuring no trace of body capacity effects. The plates are "pebbled" brass, for rigidity, and are soldered to their shaft and at their tops with a common strip. A special 4-inch aluminum front 360° etched dial is included, together with a paper disc, which is removable at will, and upon which the station call letters may be written. The dial is locked to the 1/4 inch shaft with a split bushing and bolt, and the bakelite knob is threaded so that it may be screwed on and off the dial plate. Stop and marker included.

No. 9667	.00035 capacity 17-plate	\$4.47
No. 9668	.0005 capacity 23-plate	\$4.47

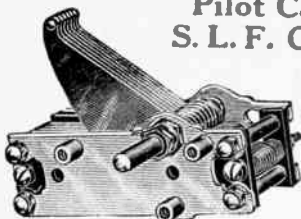


Pilot Lug Jack

The special connecting lugs, while designed to abolish soldering (connections being made thereto with a nut and screw) may be used for solder connections. The sturdy frame helps support sub-panel. Easily attached with screws through holes provided for the purpose. The lug-jack illustrated is No. 9897, the filament-control double jack.

No. 9894	Single circuit open	\$0.32
No. 9895	Single circuit closed	\$0.36
No. 9896	Filament control, Single Jack	\$0.41
No. 9897	Filament control, Double Jack	\$0.45

Pilot Capacigrad S. L. F. Condenser



**Brass
Plates**

\$1.30
POSTPAID

Here are the condensers with the "velvet feel." A TRUE straightline frequency condenser with solid brass plates. Built like a watch, it is the pinnacle of precision. Special bushings give that "velvet feel," free from chatter and noise. These condensers cost no more than ordinary condensers for the simple reason that they are produced by the world's largest radio parts manufacturer. A minimum of insulation gives rise to a minimum of losses.

It is not necessary to dwell upon the advantages of using straightline frequency condensers today. They will separate the lower wave stations and will give you better results all the way through. These condensers are all equipped with 3 screws; and plates are solid brass. Friction bearings, adjustable end plate bearing to adjust tension, etc., the highest class job in America, not only for those who build their own, but for set manufacturers as well. Where a high class condenser is a necessity.

DUE TO THE EXTRAORDINARILY CLOSE SPACING OF THESE PLATES, THIS CONDENSER TAKES ACTUALLY LESS ROOM THAN THE OLD STRAIGHT-LINE WAVE TYPE. Dimensions of .00017 type, closed, 4" long, 1 1/2" high; open 4" long and 4 1/4" high.

The larger types are of the same dimensions except that they are somewhat wider due to the additional plates.

No. 8902	8-plate, .00017 Capacigrad Condenser	\$1.30
No. 3580	13-plate, .00025 Capacigrad Condenser	\$1.50
No. 3581	17-plate, .00038 Capacigrad Condenser	\$1.70
No. 3582	23-plate, .0005 Capacigrad Condenser	\$1.80

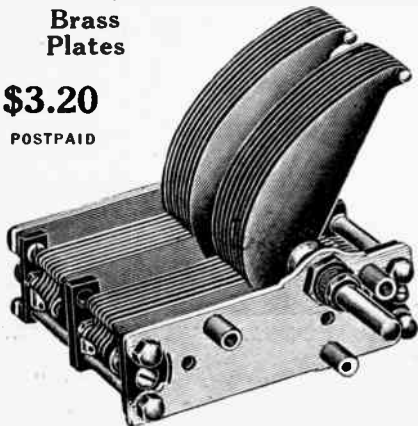
Two Gang Capacigrad Pilot Condenser

This is the same type condenser as described under our Nos. 3580, 3581 and 3582, and is made especially

**Brass
Plates**

\$3.20

POSTPAID

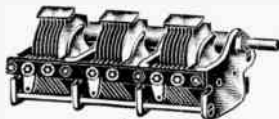


for tuned radio frequency, neutrodyne, and super heterodyne receivers. The important thing to remember about gang condensers is that the capacity of the two units must be absolutely uniform. Both of these condensers are within 2 per cent. accurate in their capacities, so it is a very simple matter to balance the set. Although of large capacity, the size of this condenser is remarkably small, measuring only 4 1/2" long and 1 1/2" high when closed, and 4 1/4" high when fully opened. The total width from panel to rear bearing is only 3 1/2". Carried only in one size, namely, 17-plate, .00038 mfd. Rugged in design, with pigtail and stout end plates, you will find this condenser to be the acme of perfection.

No. 3590 Two Gang, 17-plate, .00038 Capacigrad Condenser **\$3.20**

U. S. L. 3-Gang 17-Plate .00035 Condenser S. L. Corrected Frequency

\$5.45
POSTPAID



Extreme compactness and perfect efficiency is a rare combination in three-gang tandem condensers! But we

have succeeded in attaining this goal—offering you a triple condenser in a high quality precision instrument for less than half the price of a larger, and less efficient type. The three sections are EXACTLY ALIKE, and as the condenser is very strongly built, it will NEVER vary. The metal parts are all aluminum, with the result that there is 3 times LESS WEIGHT on the panel than with other types—thus you do not have to support the rear end of the condenser on the base board. The common rotor shaft, upon which the rotor plates are most rigidly attached, is 1/2 inch in diameter, terminating at the panel end. In the conventional 1/4 inch diameter. For extreme durability the rotor plates are strapped together, as the illustration will suggest. Minimum of Radion insulation. Connections to the various stators and the common rotor are possible on either the right or left side of the condenser. When the plates are fully unmeshed, the overall dimensions of this mechanical triumph are 3 1/2 inches wide, 3 1/2 inches high, and ONLY 5 inches from rear of panel. Choice of one hole mounting, or 2 anchoring holes. Furnished only in 17-plate capacity. IDEAL FOR ONE DIAL CONTROL 5 or 6 TUBE TUNED RADIO FREQUENCY CIRCUITS.

No. 8932..... **\$5.45**

Silver Marshall Interlocking Condenser

\$5.75
POSTPAID

This condenser is unique in that it can be used singly, or, due to the special mechanical arrangement provided therewith, a similar condenser can be interlocked by inserting the shaft of the next condenser (or even the shaft of a variable coupling primary coil) into the special hole in the rear portion of the condenser preceding it. After being adjusted for final electrical uniformity, they are firmly interlocked, and the tuning is thus confined to one dial. In this manner, any number of condensers can be employed, for multi R.F. stage assembly. Double bearings, fully adjustable, provide for smooth operation. Rigid die cast frame. Plates are lacquered brass. Provided with single or double hole mounting, and two-hole base mounting. Capacity .00035—17 plates.



No. 9971..... **\$5.75**

Bruno Compact Tuning Inductances

\$2.72
POSTPAID

Where space is at a premium, but a 100% EFFICIENT coil is to be used, the Bruno No. 99 will admirably serve this purpose. The diameter of this coil is only 2 1/2 inches. It is 3 inches long. The wire is very attractively wound in two colors of orange and green, upon a low loss Quartzite form, assuring a coil of utmost efficiency. There are 12 turns in the primary, 54 in the secondary and 45 in the rotating coil. For .0005 variable condensers. Will tune from 200 to 575 meters. Single hole mounting. Ends of moulded bakelite.



No. 9631

No. 9074 3-Circuit Tuner **\$4.99**

Bruno No. 99 R. F. Coil

Illustrated—same characteristics as above coil, mechanically as well as electrically, but without a rotating coil, or tickler. Same number of turns in the windings of both the primary of each coil, and secondary thereof, assures equal "logging" on the tuning dial.

No. 9631 **\$2.72**

Quartzite Winding Form

\$1.81
POSTPAID

Laboratory tests have conclusively proven that these winding forms will assure the least possible losses. Will lend distinction to the appearance of any set. Can be supplied in either a 3-inch diameter with a 2 1/2-inch winding space, or, in a 2 1/4-inch diameter with a 2-inch winding space. Supporting rods made of transparent Quartzite, moulded bakelite ends.



No. 9634 Either size **\$1.81**

Karas Extended Shaft "Equamatic" Condensers

\$6.55
POSTPAID

Especially designed for use in the Equamatic receiver because of its extended shaft from the rear plate of the condenser. This product is symbolic of the Karas efforts to offer the Radio public the very finest instruments that skilled engineers can design, and patient craftsmen can build. Mathematically designed plates assure perfect S.L.F. results in tuning. Frame is very heavily nickel plated, and substantially formed. Plates are heavy lacquered brass. The shaft revolves with a velvet-like feeling. Extended shaft model only supplied in .00037 Mfd. capacity—17 plates.

No. 9011 **\$6.55**

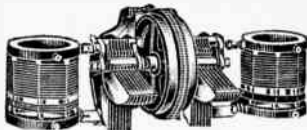


Other Karas Condensers

No. 8912	5 plate	.0001	.....	\$5.98
No. 8913	7 "	.0014	.....	\$5.98
No. 8459	11 "	.00025	.....	\$5.98
No. 9458	17 "	.00037	.....	\$6.29
No. 9457	23 "	.0005	.....	\$6.55

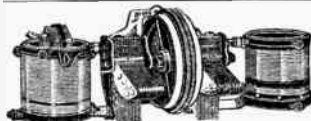
Bruno Unitune

\$15.28
POSTPAID



This combination represents the very latest improvements in Radio receiver construction. Consists of the Bruno Unitune No. 9635, with two No. 9072 Bruno R. F. Coils rigidly attached thereto. Can be used for two R. F. stages or in any variety of circuits. Tuning range—200 to 550 meters. Its appearance will enhance the appearance of any Radio receiver. Refer to No. 9635 and 9072 for detailed descriptions of condenser and coils.

No. 9637 **\$15.28**



\$18.09
POSTPAID

No. 9636.—Same as No. 9637, only the right-hand condenser holds a standard three-circuit tuner. For Roberts type receivers, **\$18.09**

Bruno Unitune Condensers

\$9.93
POSTPAID

The Bruno contribution to localized controls of multi stage tuning variable condensers has met with deserving praise. As the illustration will suggest, this unit consists of two condensers, both electrically matched yet electrically independent of each other in their rotors. Both dials can be turned TOGETHER with a one dial effect, and then either can be further adjusted independent of the other. Mounts to the panel by means of only two screws which also hold handsome bronze indicating plates. .0005 Mfd. straight line frequency. The plates are of aluminum and is very durable. The frame is of moulded bakelite, and on the circumference thereof, the dial numbers are clearly engraved. The edges of the drums are knurled for tuning purposes.

No. 9635 **\$9.93**

Notice

You can adapt your present condensers for localized tuning control, by attaching to them the Bruno Drums (2), panel plate and frame. Takes but a few minutes.

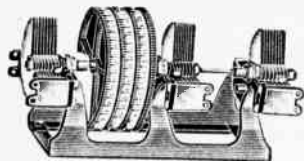
No. 8947 As Described **\$3.45**

Gentlemen:

I am getting good results with the same condensers I ordered from you several years ago—thus am sending you another order.

WILLIE L. BULLOCK.
674 Vance St., Henderson, N. C.

Na-Ald Localized Control Tuning Units



\$6.65
POSTPAID

The Na-Ald Localized Condensers are the latest contributions to the art of Radio set building. The tendency among all standard receivers of this season is to localize all the tuning controls, and at a very modest expenditure you, too, can avail yourself of this luxury. All dials can be turned at once, or singly, independent of each other, all within range of your FINGER TIPS. The dial numbers are to be found on the drums, and are handsomely set off in a frame of embossed polished bronze furnished with each condenser. Very compactly made. The drum is moulded of genuine Bakelite, reinforced with cleverly formed "spokes." The circumference of these drums not only furnishes the means whereby the condensers are rotated, but also there is attached thereon, the strip containing the dial readings. As these figures are milled below the surface, they are not accessible to your finger tips, therefore, will not rub off. The drums are milled to allow the finger tips to grip them. The condenser plates are aluminum, and are of the corrected frequency type. The mounting bridge is nickel plated brass. To offset any undue tension at any point on the condenser, several mounting holes are provided, according to the type of condenser.

- No. 9711 Double 17-plate .000375..... \$6.65
- No. 9710 Triple 17-plate .000375..... \$8.48
- No. 9713 Quadruple 17-plate .000375..... \$13.45
- No. 9075 Double .0005 23-plate..... \$8.95
- No. 9712 Double .0005 23-plate with tickler drum control, for Roberts type circuits, etc..... \$8.95

Na-Ald Connectorald

\$1.39
POSTPAID



This new UX171 and UX112 storage battery power tubes may be used in your present 2nd stage audio amplifier socket without having to resort to any internal changes of wiring, either to the "C" or "B" battery connections. Any additional voltages applied feed to the power tube only. As this adapter does not raise the tube, it may be safely used in receivers with limited head room. Substantially moulded of bakelite. Connecting wires are furnished with engraved tags with proper designations.

No. 9716..... **\$1.39**

Isolantite Adapter

\$0.32
POSTPAID



With the advent of the small UX type base tubes, the UX199 and the new power tube—the UX120—and similar types, there are occasions when it is desirable to use these small base tubes in STANDARD SOCKETS. This adapter takes the small base UX tube, and adapts the tube to the standard socket. As it is moulded

of ISOLANTITE, a superior insulating material, it is a pure low loss instrument.

No. 9774..... **\$0.32**

Bremer Tully Shock Absorber Socket

\$0.88
POSTPAID



Microphone conditions in a detector tube (and possible in all of the tubes) will cause a steady, monotone hum or roar in the loud speaker. This is caused by the vibrations of the loud speaker, or even passing vehicles, and footsteps in the room, setting the elements within the tube vibrating. To overcome this condition, the slide arms of this socket not only absorb these vibrations, but also prevent them from starting. The base is of genuine bakelite. There is a shock absorbing material between the base and U X socket holder. Contacts are positive, yet cause no undue strain on socket studs, thus necessitating no undue jerks to remove the tube.

No. 9868..... **\$0.88**

Howl Arrester

\$0.73
POSTPAID



The McDorald Howl Arrester is used to eliminate any microphonic tube hum or roar by simply sliding it over and on the offending tube. In principle, the weight of this device and the gripping effect of the stretched rubber tends to stave off any external vibrations which cause the elements of the tube to vibrate in turn, with a resulting hum. This is very noticeable in console cabinets, or wherever the loud speaker is immediately adjacent to the receiver. Particularly effective on detector tubes. Only the best grade of rubber is used in its construction.

No. 9627..... **\$0.73**

Na-Ald Connectorald

\$1.25
POSTPAID



This Na-ald product serves the same purpose as our No. 9716 Connectorald, only it is solely intended for using the UX120 (the UV199 power amplifier tube) in a UV199 socket. The tube is raised a minimum amount, as the illustration will suggest. Additional voltages can be directly applied to this tube without disturbing the other tubes in the circuit, or changing their battery requirements. For true reproduction of radio reception, a power tube must be employed, with additional voltages. Durably moulded of bakelite.

No. 9714..... **\$1.25**

UX120 Na-Ald Connectorald

\$1.08
POSTPAID

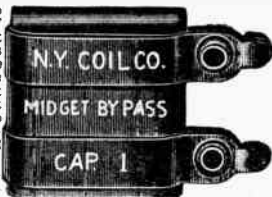


This adapter will allow you to use a UX120 or UV199 power tube in any UV201A type of socket. The additional voltage required on the power tube can be applied direct to this tube, without disturbing the battery requirements of the remaining tubes. This socket does not raise the tube. Battery leads are provided with engraved markers for safety.

No. 9036..... **\$1.08**

New York Midget By-Pass Condensers

For by-pass work we offer a condenser of sterling qualities that for by-pass work is unequalled by the best mica condensers yet is available at greatly reduced cost made possible by the employment of especially manufactured condenser paper, vacuum impregnated in a synthetic compound (no wax used) which gives the condenser a very high capacity factor and makes it unaffected by dampness in any climate. Equal in this particular to those moulded directly into bakelite. The special strap clamps employed maintain a constant pressure and afford a most convenient electrical connection. For resistance coupled amplifiers and by-pass work it is unequalled. The price is the same for all capacities ranging from .005 to .1 MFD.



No. 9406 **\$0.41**

Aerovox By-Pass Condenser

For any service where low impedance path for audio- or radio-frequency current is desired. The by-pass condenser prevents the loss of power in A or B batteries by keeping the fluctuation in the current out of the batteries. Essential in construction of B battery eliminators. Sturdy mechanical construction features this item. The lugs provide for either horizontal or vertical mounting. Finished attractively in black.



Cat. No.	Capacity	Price
9429	.1 mfd.	\$0.43
9430	.25 "	0.49
9431	.5 "	0.55
9432	1. "	0.67
9433	2. "	0.99
9434	3. "	1.59
9435	4. "	2.19

X-L Vario Deners



\$0.89
POSTPAID

MAKE POOR SETS GOOD — GOOD SETS BETTER
Endorsed and Used by the Foremost Radio Engineers.

MODEL N—Capacity range 1.8 to 20 micro-microfarads, for balance in Roberts two tube, Browning-Drake, McMurdo Silver's Knockout, Neutrodyne and tuned radio frequency circuits.

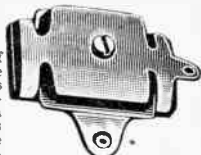
No. 9379 **\$0.89**

MODEL G—Two capacity ranges, .00016 to .00055 and .0003 to .001 Microfarads, for the Cockaday circuit, filter and intermediate frequency tuning in superheterodyne and positive grid bias in all sets.

No. 9380 **\$1.39**

Hammarlund Equalizing Condenser

\$0.49
POSTPAID



Possessing the distinction of being the smallest variable condenser, this compactness does not rob it of any efficiency; in fact, it has a wider range than condensers many times its size, the above view being about full size—the bakelite base measuring 1 3/16 inches long by 5/8 inch wide. Can be used to compensate for differences between condensers in gang assembly, or for neutralizing oscillations by balancing the R.F. tube capacities. Maximum capacity is 50 micro microfarads and minimum 2 micro microfarads. Base is genuine Bakelite, uses a mica dielectric and a heavy phosphor bronze spring plate. Adjusting the center screw, raises or lowers the top spring plate, causing the variation in capacity. Mounts directly to socket or variable condenser terminals, or can be suspended on any connection wire.

No. 9052 **\$0.49**

Aerovox Fixed Con- denser

\$0.30
POSTPAID



Aerovox Fixed Condensers are made of the best grade mica insulation. Genuine bakelite layers. Sealed under pressure. Very popular with leading set manufacturers. Each condenser tested and guaranteed. These are Style 501.

No. 5080	.0001	\$0.30
No. 5079	.00025	0.30
No. 5078	.0005	0.30
No. 5077	.001	0.33
No. 5076	.002	0.33
No. 5075	.0025	0.35
No. 5074	.003	0.41
No. 5073	.004	0.41
No. 5072	.005	0.50
No. 5081	.001	0.61

Pilot Bakelite Fixed Condenser



\$0.32
POSTPAID

This is without a doubt the best condenser made. It cannot short. Unlike most condensers which are built in layers, permitting solder or flux to

flow in to the condenser to short the mica plates, these condensers are moulded in one piece under 20 tons of pressure. They are made of beautiful brown bakelite. Are 98 per cent perfect in capacity. Each condenser individually tested and guaranteed.

No. 5026	.0001	\$0.32
No. 5027	.0002	0.32
No. 5028	.00025	0.32
No. 5029	.0005	0.32
No. 5030	.001	0.36
No. 5031	.002	0.36
No. 5032	.003	0.45
No. 5033	.004	0.45
No. 5034	.005	0.54
No. 5035	.006	0.63
No. 5036	.01 By-pass	0.81

Gentlemen:

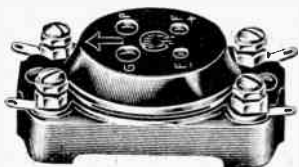
I have received my order sooner than I expected, and I was not sure that it was my order until I opened the package. The time was two days before a letter that I sent the same day I sent the order. I received them in good condition with the RASCO Catalog. In my vacation, just after the examinations, I will order other parts, and I hope to receive them with the quick attention and prompt delivery accorded my first order.

LUIS OUGPIN.

275 Luna Luna Street.
Binonco, Manila, P. I.

Cushioned Pacent U X Socket

\$0.51
POSTPAID



This is the last word in socket construction—it is shock absorbing, therefore reduces microphonic sounds and hum. Capacity effects reduced to a minimum. Rugged, side wiring contacts. Bakelite Moulded. Very compact. Either binding post or solder connections.

No. 9602..... **\$0.51**

"Rasco" Vacuum Tube Shell

Only very heavy brass is used. ⁴⁷⁴⁷ Especially useful to the man who builds his own on account of its four perforated ears. To mount is simple. Drill a hole into your sub-panel the same size of the metal shell opening; the size of this hole being 1 3/8". The socket is then mounted over the hole, while the four contact fingers which come with the shell, are mounted below the panel with screws and nuts. This gives a workmanlike job. It saves you money and your set will look like the factory-made article. Complete with 4 Contact Fingers.



No. 4747 Complete with 4 Contact Fingers..... **\$0.16**

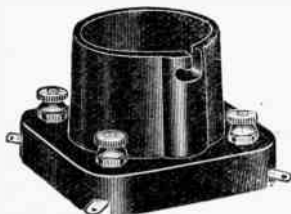
Vacuum Tube Socket Contacts

These contacts are used in connection with our No. 4747 vacuum tube shell. Made of phosphor bronze and nickel plated. The turned-up lug fits into a small hole which you drill into the panel. After the contact finger has been screwed down by nut and screw it is impossible for the finger to shift sidewise.

No. 4718 Dozen..... **\$0.15**

Rasco Vacuum Tube Socket

One of the best sockets made. Value unequalled anywhere. Made entirely of heavy composition and of course its use avoids the metallic ring and howling caused by metal sockets. Four springs giving maximum pressure against contact pins. Best finish. Nickel-plated binding posts. If not the best socket you have ever had, return it and your money will be refunded. There may be lower-priced sockets, particularly the porcelain kind, but these are usually worse than useless from breakage and other troubles.



No. 6500..... **\$0.35**

Carter Adapter

\$0.48
POSTPAID

With this adapter you can use any modern U X type base tube in a WD119 type socket, such as UX119, WX12, UX120 and UX201A.

No. 9715..... **\$0.48**



Pilot Universal Socket

\$0.28
POSTPAID



Here is a new bakelite socket for UV-201A tubes, with old style bases, as well as for the new UX tubes, both storage battery and dry cell types. Equip your set with these modern sockets and use whatever tubes you please. Equipped with four binding posts for quick and easy connections. Positive wiring contacts, a wonderful socket which you must see to appreciate. Genuine bakelite.

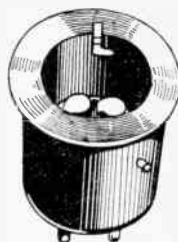
No. 6535 Pilot Universal Socket... **\$0.28**

Pacent Adapter

\$0.30
POSTPAID

This Adapter is made to place a UV-199 or C-299 tube in the ordinary 201A or 301A socket. The Adapter is made of bakelite throughout and has phosphor bronze contact springs in the bottom of the Adapter, which are carried through the base in slots that serve as a low loss part. Short-circuiting has been eliminated entirely. The best adapter on the market.

No. 6521, Pacent Adapter..... **\$0.30**



Air Gap Sockets

\$0.56
POSTPAID



No. 9798

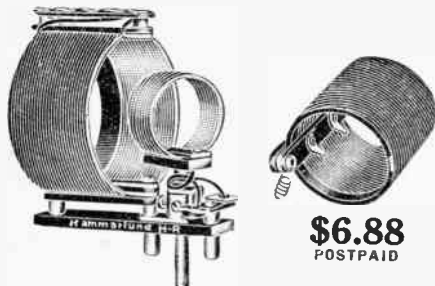


No. 9799

The inherent capacity existing between the grid and plate causes losses serious enough, without further adding to these losses, by using the conventional type of socket, for dust and other foreign conducting agencies can form an electrical path between the grid and plate terminals, impairing the general efficiency of the stage to which that tube is coupled—but, with the Air Gap sockets, this is impossible, for the base is so cleverly moulded that there is NO MATERIAL BETWEEN THE GRID AND PLATE TERMINALS—THEREFORE, THERE CANNOT BE ANY LOSSES. Base is of genuine moulded bakelite, with nickel plated phosphor bronze contacts. The Standard model is furnished with a nickel plated metal shell in which the pin of the Radio tube locks, whereas the U. X. type base will accommodate any radio tube, the prongs of the tube being pushed into the holes provided for them.

No. 9798 Standard Type Base..... **\$0.64**
No. 9799 U X Base..... **\$0.56**

Set of Hammarlund-Roberts Coils



\$6.88
POSTPAID

The Hammarlund products are so well established in the minds of every Radio Fan, that further elaborations on their superior craftsmanship is unnecessary. These coils consist of an R.F. Stage or Antenna Coupler, the primary of which is tapped for maximum efficiency for any length aerial, 3 such taps being provided, and a 3-circuit tuner of exceptional efficiency, the primary of which is tapped for proper neutralizing. Both coils are wound on 3-inch diameter films of celluloid, precision space wound, assuring electrical uniformity between both coils. The insulating material is genuine bakelite, upon which are mounted the soldering lugs for all connections. For .0005 23-plate condensers only. For use in any variety of circuits.

No. 9749 Set of 2 Coils..... **\$6.88**

Hammarlund Neutrodyne Coils

In appearance similar to the coil illustrated on the right, but wound on a 2-inch diameter film of celluloid. Consists of Primary and secondary, the most compact coil made, yet boasts of the Hammarlund high engineering attributes. Correctly tapped for neutralization. Can be used in any tuned R.F. circuit. Can be mounted closer together, with less interstage coupling. Small diameter means less pick-up, therefore helps eliminate interference and broad tuning. For 17-plate .00035 condensers only.

No. 9750 Set of 3 Coils..... **\$6.88**

180° Low Loss Three Circuit Tuner



\$1.69
POSTPAID

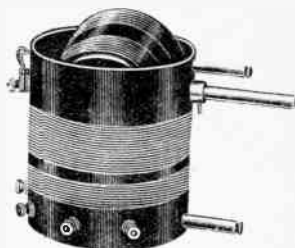
This coil represents the very best three-circuit tuner that is on the market to-day. It is not only very ruggedly made, but is also very pleasing in appearance, the windings being in two colors and metal parts handsomely nickel plated. Replace your present three-circuit tuner with this model, and marvel at the difference.

Can be used in the Ambassador type circuit, or in conjunction with our No. 9608 R.F. coil in the Roberts, Browning Drake, etc., type circuits. Wound on 3½-inch diameter tubing, 2¼ inches long.

No. 9609..... **\$1.69**

Three-Circuit Tuner

\$1.45
POSTPAID

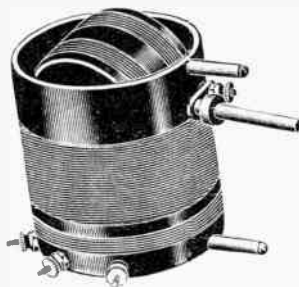


This three-circuit tuner has fine selectivity. It represents the latest in inductance design, having an untuned primary and a loosely coupled secondary. Its compactness and adaptability permit its use in the Ambassador circuit or any three-circuit receiver. A fraction of a turn will tune out locals and bring in distant stations, clear and sweet.

No. 9388..... **\$1.45**

Balanced Interflex 3-Circuit Tuner

\$3.50
POSTPAID



This special 3-circuit tuner was designed for the Balanced Interflex, as originally designed and described by Mr. Hugo Gerstback, Editor of "Radio News," and used in the Balanced Interflex kit described elsewhere in this catalogue. It can also be used as a standard three-

circuit tuner where a .00035 or 17-plate condenser is to be used. If your present three-circuit tuner does not cover the full wave length band of 200 to 550 meters, replace it with this one. Very ruggedly designed and constructed, assuring you every satisfaction. There are 12 turns on the rotor, 65 on the secondary and 40 turns on the rotor. Diameter is 3¼ inches, 3½ inches long.

No. 9601..... **\$3.50**

Antenna Coupler or Radio Frequency Coil

\$1.18
POSTPAID

This coil is constructed according to the latest principles of low loss winding, and is highly approved. Primary and secondary are in two colors. For .0005 or 23-plate variable condensers. Can be used to precede our No. 9609 3-circuit tuner (or any other 3-circuit tuner) to convert a 3-tube set into a



Roberts or Browning Drake 4-tube circuit. Can also be used as an antenna coupler in multi stage tuned radio frequency circuits, as well as for the radio frequency transformers. Wound on 3½-inch diameter tubing, 2¼ inches long.

No. 9608..... **\$1.18**

Bruno Compact 3-Circuit Tuner



\$3.15
POSTPAID

Although extreme compactness has been successfully accomplished in the design of this three-circuit tuner, the Bruno efficiency has not been sacrificed. Measuring only 2 3/8 inches long by 2 1/8 inches in diameter,

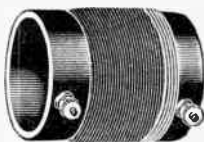
this coil can truly be called a baby coil. There are 60 turns in the secondary, 12 turns in the primary and 34 turns in the rotating coil. Designed for .0005 variable condensers. Wound on genuine Bakelite tubing—all metal parts are nickel plated brass.

\$3.15

No. 9632 One hole mounting.....

Bruno Baby R.F. Coil

\$1.88
POSTPAID



This small, but very efficient tuning inductance is a sister coil to the No. 9632 3-circuit tuner; in fact, it is the same size and of the same dimensions, only it has no rotating coil embodied within. It may also be used in any tuned radio frequency circuits, where the available space is at a premium. Measures 2 3/8 inches long and is 2 1/8 inches in diameter. There are 12 turns in the primary and 60 turns in the secondary. For .0005 variable condenser. Binding post connections. Wound on genuine bakelite.

\$1.88

No. 9633.....

Rasco Leader Baby Low Wave Coil 3-Circuit Tuner



\$1.79
POSTPAID

Your first descent into those seemingly mysterious wave lengths below 200 meters will thrill you and well repay you for your labor spent in constructing a SHORT WAVE 2 or 3-tube receiver. The BABY short wave 3-circuit

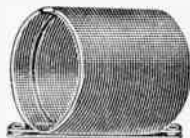
tuner is ideally suited for receivers of this type, covering a wave length band of 37 to 150 meters, when used with a 23-plate .0005 variable condenser. Its very compactness of size, measuring only 2 13/16 inches long by 2 3/8 inches in diameter does not detract from its electrical efficiency. The primary and secondary windings are bare wire wound, precision spaced. Wound on the least possible amount of insulation, and between machined slots. Fibre tubing used. There are 4 turns of wire in the primary, 14 turns in the secondary and 14 in the rotary coil. Pig tailed connections on rotary coil. Binding post connections. One hole mounting. Nickel plated brass hardware.

\$1.79

No. 8830.....

Compact Air Wound R.F. Coils

\$0.73
POSTPAID



The superiority of the solenoid coil over any other type is conceded. And, being air space wound with no insulation in its field, it is truly a low loss product. Another outstanding feature of this efficient coil is its extreme compactness, measuring only 2 1/4 inches in diameter and 2 inches long. This small size lessens the interstage coupling effects, and greatly reduces external pick up. The primary is enclosed within the filament end of the secondary. The ends of the wire are coiled, and are long enough to be run direct to their proper terminals. Precision wound, thus each coil is electrically matched with every other one. Ideal for use in shielded stages or wherever space is at a premium. Green silk covered wire. Can be used as an antenna inductance, or intermediate R.F. stage transformer. Can be screwed to base board through the heavy celluloid strip permanently attached to the coil. There are 12 turns in the primary, and 79 turns in the secondary—for 17-plate .00035 variable condensers—with which it will cover 200 to 550 meters.

\$0.73

No. 9836 Each Coil.....

180° Vario Coupler



This is one of the best couplers on the market. Can be used for panel and table mounting. The bracket is an aluminum casting. The bracket is the holder which secures the secondary to the coupler. Tubes are natural colored bakelite. Diameter of primary, 4"; height, 2". Diameter of secondary, 3 1/2"; height, 1 1/2". 3/8" shaft used. Two spring binding posts are provided for the secondary winding connections. By means of this, the instrument can be connected as a variometer. Primary has 13 taps. Wave length range, 180 to 550 meters.

\$2.00

No. 8150.....

Bremer-Tully Tuner



The Bremer-Tully Tuner is justly celebrated because of its great merit—its popularity is increasing. Variable secondary and fixed absorption coil. Variation is permitted by adjustable, untuned primary. Wound on skeleton forms. Equipped with pigtails. Can be used in any 3-circuit tuner. Full instructions.

\$4.39

No. 9507.....

Low-Loss Quartzite Tuner



\$4.64
POSTPAID

The well-known Bruno low loss quartzite tuner. Range 175 to 550 meters. Tickler rotor makes possible tuning without howls. Primary and secondary wound on quartzite glass and insures low losses. Substantially built. Silk wire wound. Pig-tailed.

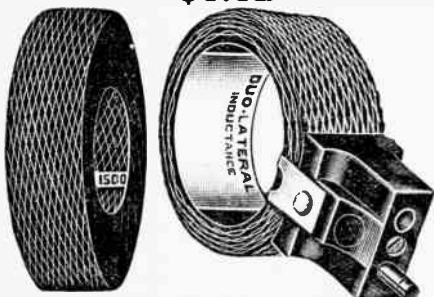
No. 2693.....

Gentlemen:
I was very much pleased with the Vario-coupler you sent me, and also highly appreciate your prompt service in dealing with customers.

LEWIS M. SANDFORD.
91 Wright St., Newark, N. J.

Pacnet Duo-Lateral Honeycomb Inductance Coils

\$1.12 POSTPAID

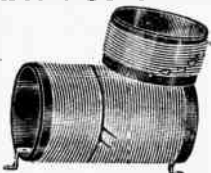


These very popular low-priced machine-wound Inductance Coils satisfy the needs of the amateur experimenter for concentrated inductances, at a very low cost and high efficiency. Compact and easily manipulated. They cover the entire wave length without the dead-end losses which exist when a tapped coil is used. Have low high frequency resistance and low distributed capacity losses. Unequaled. Successive turns of conductor are wound at an angle to preceding turns and spaced therefrom, which gives the coil the cellular structure from which it derives its name. These air cells and the angular disposition of the turns reduce the losses in the coil to a marked degree. With the proper condensers these coils will cover the entire range of wave-lengths used in radio. Two leads are brought out from each coil. All sizes are carried in stock as below. The range given is in meters when varied with a .001 Variable Condenser. In considering prices, please remember these are the high grade Pacnet brand.

Turns	Range	Un-Mounted		Mounted	
		No.	Price	No.	Price
25	120-250	5000	\$0.28	5016	\$0.75
35	175-450	5001	\$0.30	5017	\$0.90
50	240-720	5002	\$0.32	5018	\$0.96
75	390-910	5003	\$0.37	5019	\$1.00
100	500-1450	5004	\$0.42	5020	\$1.05
150	600-2000	5005	\$0.45	5021	\$1.10
200	900-2500	5006	\$0.50	5022	\$1.12
250	1200-3500	5007	\$0.53	5023	\$1.20
300	1500-4500	5008	\$0.59	5024	\$1.20
400	2000-5000	5009	\$0.60	5029	\$1.25
500	2800-6100	5010	\$0.70	5040	\$1.35
600	4000-10000	5011	\$0.89	5041	\$1.50
750	5000-12000	5012	\$0.92	5042	\$1.60
1000	7900-15000	5013	\$1.05	5043	\$1.78
1250	9750-18500	5014	\$1.70	5044	\$2.30
1500	14500-26500	5015	\$1.90	5045	\$2.45

Cockaday Circuit Coils

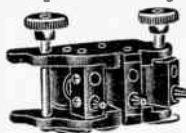
For all Cockaday circuits or similar circuits, using same combination. Three windings, two of the circuits being wound side by side and a tapped winding wound on a separate tube mounted at right angles to the large tube. Wound with great care and is properly calculated to give superior results. Tube especially treated cardboard, highly impregnated to do away with all losses. Not affected by temperature or weather conditions. Wound with No. 18 double cotton covered magnet wire. Tapped coil has seven taps. Two brass brackets for panel or base mounting.



No. 2750 **\$1.89**

Triple Honey Comb Coil Mount

\$4.85
POSTPAID



Universally used by many ship Radio receivers — because of its never failing accuracy and stability. Center mount (secondary) remains rigid, and the two end mounts are rotated over a wide arc by two knurled knobs. Flexible leads are brought out to the rear for connections. Moulded of Genuine Bakelite. Ideal for any wave length reception, up to 25,000 meters.

No. 9045 **\$4.85**

Baby Radio Frequency Inductance Coils



\$0.47
POSTPAID

Most essential in tuned Radio frequency circuits, where the available space for the inductances is very limited. Basket weave construction assures maximum efficiency. Maroon cotton covered enameled wire used. The primary winding is at one end of the coil. Furnished with a fibre mounting insert, for attaching the coil to the rear frame of a condenser, or, to a baseboard, sub-panel etc. Completely air spaced wound. NO DOPE USED TO HOLD THIS COIL TOGETHER, a waxed cord upon which it is wound, taking care of this, assuring low loss characteristics. For .00035 Mfd. 17-plate condensers—range 200 to 550 meters. THIS IS THE MOST COMPACT COIL ON THE MARKET, MEASURING 1 1/4 INCHES LONG and 2 INCHES IN DIAMETER.

No. 8929 EACH COIL **\$0.47**
No. 8930 Set of 3 coils **\$1.20**

Low-Loss Coil

\$1.05
POSTPAID

A new low-loss coil especially made for tuned radio frequency work. The same kind as used in the Freshman Masterpiece and many other popular sets. It is completely airwound, and has no dope or cement to keep the wires together; the entire winding is held together by means of waxed string. To keep the set from oscillating, a special aperiodic primary is wound in the center of the secondary, which gives best results. The primary is silk-wound, the secondary double cotton covered. To be used for wave-lengths between 200 and 550. Total diameter 3", width 1", 5/16" thick. Should be used only with a low-loss condenser, in order to get best results. There are four connections—two for primary, two for secondary. Usually mounted by using two 3/16" hard rubber or wooden rods, which pass through any two of the coil's holes, as is now standard practice.

No. 2628 Low Loss Coil, each **\$0.40**
No. 2629 Set of 3 **\$1.05**

Gentlemen:

Thanks for your very nice settlement. I must say that the Radio Specialty Co. is absolutely the squarest firm that I ever did business with, and if I can ever do your house a favor in any way I will certainly be glad to do so.

O. STEVENS, Drake, N. Dak.

Silver Marshall Plug-In Coils

\$2.43
POSTPAID



No matter what circuit you may wish to build, or one that you may wish to redesign, the Silver Marshall Plug-In Coils can be used with superior results. Their qualities of low losses, reduced to a minimum, electrical uniformity, mechanical perfection, extreme compactness, less pick up possibility, least interstage coupling, accessible connections on base, have made these instruments famous all over the World. Their small diameter makes them ideally suitable for use in shielded stages, considering that at least 1 1/2 to 2 inches of space must intervene between the walls of the shield and the outside of the coil. To change from one coil to another, for different band of wave lengths, or, to another circuit, the coils are simply removed, and another substituted. A key section moulded in the coil form must fit into the special slot provided on the base, preventing shorts, wrong connections, etc. Small adjustable rotors, supported on brass springs, and easily adjusted for various conditions, circuits, etc., form a part of every coil. The form and base is genuine bakelite. Due to the tubed effect on the winding form, the wire merely touches the form at these ribs. Connections to base may be twisted under cap nuts. Can be supplied in any of these 4 ranges:

A Range 190 to 550 meters C Range 30 to 75 meters
B Range 70 to 200 meters D Range 500 to 1500 meters
with a 17-plate .00035 condenser.

No. 9972 Type 110. Stator consists of two equal windings, with an adjustable rotor, A, B or C range. Kindly state which range you wish. \$2.43

D Range. Type 110. \$3.19

No. 9973 Type 111. Stator consists of a single winding, with concentrated primary in slot, and adjustable rotor. A, B or C range. \$2.43

D Range. Type 111. \$3.19

The Rasco Leader All-Circuit Tuning Inductances

\$0.99
POSTPAID



No. 8933

No. 8934

Where space is at a premium and the component parts must of necessity be very small, it is all important that your selection thereof be for instruments of proven merit, correctly designed and mechanically durable. The BABY R.F. coil can be used in a variety of circuits, EITHER in conjunction with the BABY 3 circuit tuner, or, with a number of their own type, for neutrodyne, tuned radio frequency circuits, etc. It can also be used as an antenna inductance for super heterodynes, etc. There are 10 turns of wire in the primary and 58 turns in the secondary of both coils, for 25-plate .0005 variable condensers, with which it will cover the broadcast wave lengths from 200 to 550 meters. The rotary coil in the three-circuit tuner has 14 turns thereon, wound on a 1 1/4-inch diameter tube. The primaries and secondaries of both coils are wound between slots, in the latest low loss fashion, with the least possible insulation beneath the windings. Pig tail connection on rotary coil in 3-circuit tuner. Binding Post connections. One hole mounting on 3-circuit tuner—all metal, pair of nickel plated brass. The dimensions of the fibre tubes are 2 3/18 inches in diameter by 2 15/16 inches long.

No. 8933 BABY R.F. COIL. \$0.99
No. 8934 BABY 3-CIRCUIT TUNER. \$1.79

R.F. Stage Shields

\$2.00
POSTPAID



Although primarily designed for use with Silver Marshall apparatus (as used in their new Shielded Six) these total shielding boxes may be adapted to your own specific requirements. Stage shielding prevents interstage coupling, and also completely eliminates "outside pickup," greatly assisting in the final selectivity of your receiver. Made of aluminum. Note that the cover and side walls are removable. Measures 7 1/2 inches long, 5 inches high and 3 3/4 inches wide.

No. 9969 (Shield Only) \$2.00
Collapsible Total Shielding Boxes

The sides and ends of this cleverly designed shield are latched and grooved, thus can be slipped in and out of their positions, for immediate access to any part of the R.F. stage, for repairs or minor adjustments thereto without the walls of the shield in your way. All the input and output wires are fed through the base section, which has sub-pressed holes provided for this purpose—you merely have to push these holes wherever they are most convenient to your requirements. By bolting a piece of copper bus bar wire to the bottom section, a hole also being provided for this purpose, all negative filament and ground leads can be soldered thereto. Multi stages of radio frequency amplification are only possible with these shields—ideal also for oscillators in super heterodynes, wave trans, etc. Made of aluminum—measures 8 3/4 inches long, 5 1/2 inches wide and 6 1/2 inches high. Will thus contain a complete R.F. stage consisting of coil, variable condenser, socket, neutralizing or by-pass condenser, etc. Dial and even rheostat can be mounted on front section, eliminating a bakelite panel, and cabinet, if so desired. Total stage shielding is now used in all commercial receivers—keep abreast of the times, and completely shield your receiver.

No. 9970 One Complete Stage Shield \$2.88
—7 Sections

Steinite Interference Eliminator

\$0.85
POSTPAID



Where the selectivity in your Radio receiver is not all it should be, either through adverse conditions, such as too close proximity to local broadcasting stations, long aerials, etc., or, due to a broad tuning receiver, the insertion of this wave trap between the aerial binding post and the aerial lead-in wire will greatly improve the selectivity, by adjusting the small knob in the center thereof. No alterations in the wiring of your receiver are necessary, nor does this instrument require an additional tube, batteries, etc.

No. 9927 \$0.85

Sterling Microdenser

\$0.89



The variations in tandem condensers can be compensated for with these very efficient midget condensers. In fact, they are to be used wherever a balancing condenser is suggested. Ideal for neutralizing. They are so compact, measuring 1 inch by 1 1/2 inches, that they can be wired directly to the desired connections. Mica insulation used. Adjusts by screw in center. Can only be varied by a screw driver—adjustment remains constant. Maximum capacity approximately 5 micro-microfarads. Nature of construction assures lowest possible minimum capacity.

No. 9924 \$0.89

Karas Equamatic Coils

Set of Three

\$10.88

POSTPAID

Long the dream and hope of every serious Radio engineer, at last it is possible TO MAINTAIN A CONSTANT EQUAL TRANSFER OF ENERGY between the primary and secondary inductances NO MATTER WHAT WAVE LENGTHS ARE BEING TUNED.

The conventional radio frequency coil has a fixed coupler, limiting its effective transfer of energy, through the rigid coupling employed, to a narrow band of wave lengths—and all wave lengths above or below this band proportionately receive less of this desired transfer of energy. The primary coil is wound on a special form with a metal sleeve variably attached thereto, which is slipped over the extended shaft of the Karas variable condenser No. 9011, and therefore describes an arc in accordance with any adjustments made to the condenser shaft. The secondary coil is mounted to the sub-panel, and is also variable, in angular position, with respect to this arc described by the primary, making possible further coupling effects. This equal transfer of energy assures a strong, clear and wonderfully pure signal, on any station being received, and also tends to eliminate overlapping of electrostatic and electromagnetic fields. The primary is wound on a 2-inch bakelite tube, with 14 turns of wire. The secondary consists of 60 turns of wire on a 2½-inch bakelite form. Complete with mounting screws, flexible leads, etc., and directions for building Karas 5-tube Equamatic receiver.

No. 9009 Set of Three Coils.... **\$10.88**

Karas Retard Coils

Essential in the grid circuit of R.F. stages in a Karas receiver, these shielded, compact coils permit the tubes to operate higher on their characteristic curve, without producing oscillations.

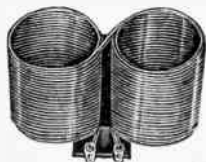
No. 8910 Set of 2 Retard Coils **\$1.88**

Karas Equamatic Sub Panel Brackets

Essential in Karas Equamatic receiver, to insure mechanical accuracy of mounting of parts, greatly affecting electrical efficiency.

No. 8911 Set of 3 Brackets.... **\$0.68**

Benjamin "Lekeless" Transformers



\$3.15

POSTPAID

This is the most ideal coil to use in any Radio frequency circuit, for it has uniformly high inductance, low distributed capacity and low resistance. It is "Lekeless" for its figure 8 shape assumes a very close field, preventing the ever ruinous feedbacks and power leakage. Neutralization is very easily affected because of this, and no special angles or minimum distances between centers of coils need be employed. Precision space-wound by special machinery assuring an electrical uniformity. Minimum of insulation is used in the field of these coils. Covers entire broadcast wave length band with a .00035 condenser. Makes a very attractive appearance for the wire used is double silk green covered. Much more efficient than the toroidal principle, for a solenoid is conceded to be the ideal inductance. Equipped with special taps if used as an antenna inductance for best results on various length antennas.

No. 9852..... **\$3.15**

Bremer Tully Torostyle

Transformer

\$3.59

POSTPAID



This is the coil that has made the Bremer Tully Counterphase Power-Six the success that it is. It is a laboratory product—the result of many years of experimentation. The outstanding features are the almost entire elimination of inter-stage coupling effects and signal pick up, due to its closed field. The 7 binding posts on this instrument are cleverly arranged for simplified wiring. Frame is of moulded bakelite. Can be supplied in Type TA for antenna coupler, TC for intermediate R.F. stages and Type IA for 4-tube sets. Kindly state which type you are ordering.

No. 9934 Each Coil **\$3.59**

Benjamin Tuned Radio Frequency Transformers

\$5.15

POSTPAID



Benjamin products are synonymous with high quality apparatus. These coils are unquestionably of the most efficient type, being air spaced bakelite weave wound on air—no dope, or any tubing is employed therein. The primary is inserted within the secondary, at the filament end thereof. Can be used as an antenna coupler, being tapped for long and short antenna, or as a Radio frequency transformer in any tuned R.F. circuit. If neutralizing is required in the circuit, a special tap will take care of this. Bakelite insulation. Soldering lugs. Low loss design. 3-inch diameter. Wound with heavy green silk covered wire—looks as good as it is efficient. Will cover 200 to 550 meters with a 17-plate .00035 mfd. condenser.

No. 9851 Set of 3 coils..... **\$5.15**
No. 9850 Individual coil **\$1.95**

Benjamin Compact Radio Frequency Transformer

\$1.85

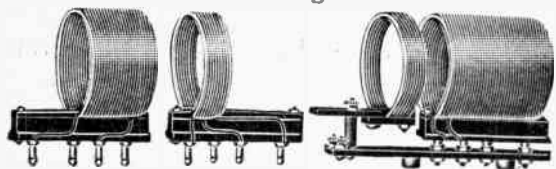
POSTPAID



This coil differs from the 3-inch diameter model Benjamin Radio frequency transformers in its extreme compactness, due to its very small diameter of only 2¼ inches, and, in this type transformer, the primary and secondary coils are on the same plane, the capacity coupling being thus reduced to a minimum. Very essential where space is at a premium. For .00035 mfd. condensers—17-plate, with which it will cover from 200 to 550 meters.

No. 9846 Individual coil **\$1.85**
No. 9847 Set of 3 coils..... **\$4.99**

Pilot Short Wave Plug-in Coils



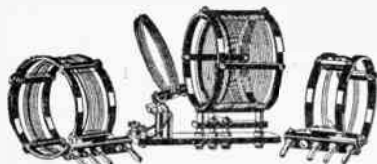
As soon as you reach ZERO on your present variable condenser dials, you reverse them, for "there is nothing beyond that." But were you to really know the "new worlds" that are yours to explore and delve in below the 200 meter wave length band allocated to amateurs and numerous high powered broadcasting stations all over the world, you would immediately redesign your receiver, to incorporate within it the above plug-in coils. And being instantly changeable, you can work your way from as low as 19 meters right back into the regular broadcast band of 200 to 600 meters. It is no uncommon occurrence to pick up European stations—and it is most thrilling to listen to two amateurs conversing across the continent—they are all good fellows, too, for they want you to "listen in" and write them, with your reports as to their reception in your town. Mechanically and electrically these plug-in coils have no superior. The mounts are solid bakelite, with the plugs and receptacles (tip jacks) moulded within. The coils are air space wound, 3 inches in diameter, and practically self-supporting. The primary coil is adjustable for correct coupling advantages. The secondary and tickler are on the same interchangeable piece. Overall length of base 7 5/8 inches. The same primary coil is used no matter what wave length band you may be tuning—the secondary (with tickler attached) is the one that is removed, and the next higher or lower wave length range coil substituted. Must be tuned with an 8-plate variable condenser, as, for instance, our Pilot Nos. 8902 or 8911, or Patent 7-plate 8903. Either of these condensers will not only cover the lower waves, but will cover the 200-600 meter bands, with, of course, the proper coil. The fixed tickler coil must be tuned with a 11-plate condenser, to control regeneration, with the capacity feed back principle. Note that we can supply spare wound coils 3 inches in diameter by 11 inches long wound with number 21 D.S.C. wire 32 turns to the inch, and another coil wound with number 18 S.C.C. wire, 13 turns per inch. Set builders find them extremely useful in making their own plug-in coils, or in fact, any form of solenoid coil for any purpose.

- 1 Coil used as the primary, including main base.
 - 1 Coil Range 19 to 58 meters, including plug.
 - 1 Coil Range 38 to 105 meters, including plug.
 - 1 Coil Range 86 to 220 meters, including plug.
- Pilot Short Wave Kit consists of:

No. 9838 Complete **\$8.23**
 No. 9842 Range 200 to 600 Meters, Fits Same
 Base as Supplied with Primary
 Coil in No. 9838 **\$2.23**

Aero Short Wave Tuner Kit

\$10.62
 PDSTPAID



Completely Interchangeable

Constructed with strict accordance with low losses. Inductances are space wound on special forms and bases with provision for immediate removal to change over to another wave length band. This kit covers 15 to 130 meters.

No. 9604 (Set of 3 Coils) **\$10.62**

R E L-R.F. Choke Coil

\$1.04
 POSTPAID



The correctly designed choke coil, single layer wound with No. 30 D.C.C. paraffined wire on a neatly finished black bakelite tube. Connections to screws or soldering lugs. Mounts in any convenient position by means of screw. Will safely carry 1000 milliamperes. Inductance .9 Mil Henrys. D. C. Resistance 3.1 Ohms. Measures 4 1/2 inches long, 3/4 inch diameter.

No. 9818 **\$1.04**

Bremer Tully Short Wave Outfit

\$7.63
 POSTPAID

Short wave reception depends entirely on the quality of apparatus used—the Bremer Tully engineers, mindful of this fact, have produced this kit, which is without question one of the most efficient short wave outfits. Consists of a variable rotor wound on a bakelite tube, and four interchangeable coils, wound on special bakelite forms, with the least possible amount of insulation within the fields thereof—the turns are precision space wound. The coils cover the following ranges of wave lengths: 12 to 25 meters, 25 to 50 meters, 50 to 100 meters and 100 to 200 meters. Designed for a 7-plate .00015 mfd. condenser.

No. 9853 As Described and Illustrated **\$7.63**

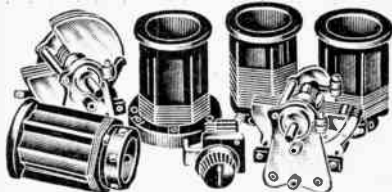


Silver Marshall Short Wave Kit

\$19.97
 POSTPAID

Consists of 4 coils which will enable you to tune in all stations broadcasting on wave lengths from 18 to 150 meters, the plug-in feature of these coils making this choice of various wave length bands a moment's work. Kit also comprises two .00011 Mfd., Silver Marshall Type 317 variable condensers and one antenna coupling condenser .000025 Mfd., Silver Marshall No. 310, and one Special 6 terminal base, with a slot allowing the plugs in coils to be inserted in only the correct manner. A harmonious assortment of well designed and engineered products, made to work with 100% efficiency in conjunction with each other. Condensers are most ruggedly made and are mounted upon a frame for base board or panel mounting. Plates are lacquered brass. Adjustable for tension on both front and rear bearings. Coil forms are solid bakelite. Complete directions accompany each kit. Licensed under Armstrong Regenerative patents No. 1,113,149.

No. 9629 Complete Kit as Illustrated **\$19.97**



Emcotran Transformer**\$2.49** POSTPAID

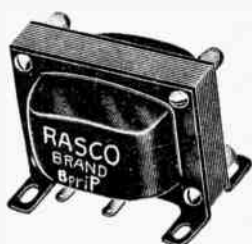
Windings are No. 40 wire—carefully layer wound highly insulated, reducing tendency to open circuit, vacuum impregnated to insure against

short circuits and changes in characteristic due to moisture. Laminations in the core of very thin rolled silicon steel so designed and assembled to insure even distribution of flux through entire magnetic circuit and low core losses. Connections plainly marked upon each transformer opposite the terminals.

Each transformer individually tested before the Emco guarantee tag can be attached. Coils have a surplus current carrying capacity—ample for any receiving tube. Insulation has been carried out to the last degree—not only between coils, but also between coils and all metal parts.

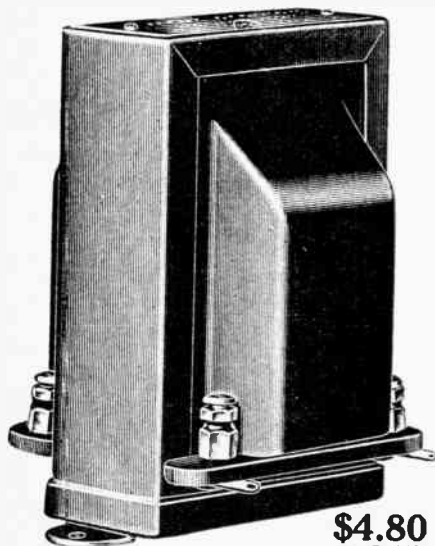
Uniform voltage amplification throughout the entire range of musical frequencies. The flatness of the Emcotran amplification curves throughout this range guarantees distortionless performance. Very compact. Provided with convenient holes in the base for mounting in any position.

No. 9503 Ratio 3 to 1...\$2.49
No. 9568 Ratio 5 to 1...\$2.69

Rasco Transformer**\$1.50** POSTPAID

This is made for us by the makers of the Emtotran described above and is of the same general character of construction. Very efficient and very low in price. Guaranteed by the manufacturer and us to be satisfactory.

No. 9502 Ratio 3 to 1...\$1.50
No. 9567 Ratio 5 to 1...\$1.60

Pacem Super-Audioformer**\$4.80**
POSTPAID**A 4-inch Miniature Power Plant**

The growing requirement for finer musical values in broadcast reception, causing a tendency for larger transformers, has resulted in the development of this giant brother of the Pacem Audioformer.

The ratio is 3 to 1—high enough for energy amplification of 500 to 1 per audio step (using 201A tube or equivalent) and yet low enough that higher frequencies are not distorted. Uniform amplification down to 100 cycles and up to 5000 cycles. Especially designed with power amplification requirements in mind, with insulation to stand plate potentials up to 500 volts.

No. 9372 Input Superaudioformer...\$6.05
No. 9361 Unshielded Type...\$4.80

Pacem Audioformer

The improved Audioformer, of striking and unique appearance, gives an exceptionally high degree of amplification over entire band of sound frequencies. Ratio of 3½ to 1 permits use in either first or second stage of audio frequency amplification without distortion and reaction. Case grounded to base. Binding posts located at bottom thus keeping wiring close to base below level of sockets. Size 2½" high, 2¼" wide

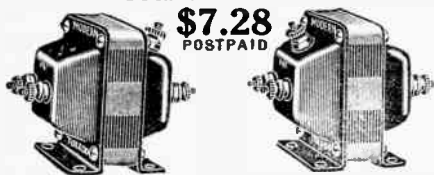
No. 2811, Mounted...\$3.75

Pacem Output Transformer

For true and faithful reproduction of reception, an output transformer is used with voltages of 135 and over on the last audio stage. In fact, its use is imperative, for voltages of 135 and over, to keep the harmful D.C. currents out of the loud speaker windings. Can be attached outside of cabinet in a few minutes. Stands 4 inches high, and has the same physical characteristics as our No. 9372 Input Superaudioformer.

No. 9600...\$6.05
No. 9773 Unshielded Type (Same dimensions as No. 9361)...\$4.80

Modern Push Pull Transformers



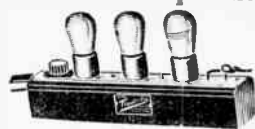
\$7.28
POSTPAID

When power amplification is employed, distortion immediately enters into the reproduction, even if power tubes are used. However, with a pair of push pull transformers, this condition is impossible, due to the important part they play in the audio circuit. The two transformers represent one stage of amplification always replacing the last audio stage and are used with 2 bulbs, preferably of the power type, as for instance, our Mogul Musselman tube. Each transformer measures 2 inches wide, 2 3/4 inches long and 2 1/2 inches high.

No. 9146 Per Pair (2 transformers) **\$7.28**

Na-Ald Truphonic Amplifier

\$17.97
POSTPAID



This radically different and better amplifier employs a new system of coupling which balances the essential coupling elements and every distortion is impossible and perfect reproduction is assured—yet, enormous volume is produced, and every frequency in the audible range is given full value in the reproduction thereof. It is not to be confused with any other system or form of amplification. Can be attached to your present receiver in a few minutes by means of a special cable furnished for the "A" and "B" battery connections, plus one simple additional connection to your receiver. Only three tubes are employed after the detector tube. The addition of this amplifier to your set transforms it into one that would sell for over one hundred dollars, for the tonal qualities will be the finest possible. It is attractive enough in appearance to be set outside of the cabinet, yet compact enough to even be installed within. The casing is of lacquered steel. The radio tubes fit into a genuine highly polished bakelite socket strip on which is also mounted a rheostat and phone tip jacks for the output. Size 12 1/2 inches long, 2 1/2 inches wide and 2 1/4 inches high.

No. 9709 Amplifier, including **\$17.97**
cable, but no tubes.....

F M C Double Impedance Audio Amplifier Units

\$4.89
POSTPAID

Herein have been combined all the good features of audio frequency amplification transformers, and of impedance coupled transformers, by a very ingenious system, requiring no different wiring than a straight audio frequency transformer. It quadruples the power output of audio tubes, because grid currents are permissible, with no magnetic coupling. The volume is practically unlimited, and there is no tube blocking, due to the condenser discharge through the inductance. The high value of inductances causes all frequencies to be faithfully reproduced. The quality is perfect—a straight amplification curve being possible. Any number of stages may be used without howling. Enclosed in black, crystallized metal cases, all terminals clearly designated on bakelite insulation strips.



No. 9981 One Complete Stage..... **\$4.89**

Polymet 3-Stage Resistor Kit

\$3.49
POSTPAID

This extremely low price is no reflection on the quality of these instruments included in this resistance coupled amplifier kit—the quality of reproduction and the volume is truly comparable to that of kits selling for considerably more money. It offers the convenience of compact assembly in a mechanically more desirable manner. Correct resistances and blocking condensers included, together with detailed instructions. Connections to terminals may be soldered to special lugs provided, or twisted under the nut and bolt. Resistor bases are genuine Bakelite, all metal parts nickel plated. Resistors and condensers are of Polymet manufacture, and are thus fully dependable. Represents splendid value.



No. 9674 3-Stage Resistance-Coupled Amplifier.
Complete \$3.49
No. 9675 4-Stage Resistance-Coupled Amplifier.
Complete \$4.79

Remler Infradyne

\$21.29
POSTPAID

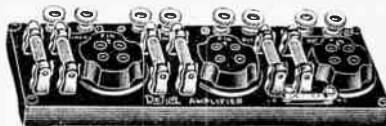
The heart of the Remler Infradyne Receiver. An entirely new principle Radio frequency amplifier.



Unlike Super Heterodynes, it profits by all the advantages to be obtained by amplification of multi-tube short wave stages. Complete within itself—consists of Remler sockets, Remler coils, special vernier condensers and fixed mica condensers, assembled in a highly polished lacquered copper, shielded casing. Can be wired into the cabinet of a set you will build, or can be set outside.

No. 9669..... **\$21.29**

De Jur Resistance Coupled Amplifier—Assembled



Bottom View

\$5.95
POSTPAID

A three-stage non-inductive resistance coupled amplifier, reproducing tonal qualities second only to your actual presence at the broadcast studio. Entirely moulded of Genuine Bakelite. U.X. sockets are adaptable to old U V type and new U X type. Connections (see illustration) are not soldered—no screws—nor no bolts; all connections are metal RIVETED STRIPS, assuring noiseless operation. Fool-proof. Protective of good volume with no distortion. All connections lead to patent blinding posts, plainly marked. Hook-up book included. Overall size is 3 3/4 inches by 8 3/4 inches.

No. 9644..... **\$5.95**

"Rasco" Radio Frequency Transformer



\$1.10
POSTPAID

R.F. Amplifying Transformers are coming into use more and more every day, as with the use of them distances can be covered not possible to do without their use. When compared to audio frequency amplification, radio frequency does not give as much amplification, for the simple reason that the purpose of a radio frequency amplifier is not to boost up the sound, but to increase the sensitivity of the outfit tremendously, thereby enabling the owner of the receiver to pick up distant stations that could never be heard with audio frequency amplifiers alone. Remember this motto: "Radio for Range—Audio for Audibility."

Our Radio Frequency Amplifying Transformer, which has been developed and designed for us by Mr. Robert E. Laeault, former Associate Editor of RADIO NEWS, is the latest word in this style of Transformer. Air core type.

Will give good results with any vacuum tubes now on the market, but it is recommended that "hard" tubes be used. It should be remembered the efficiency is greater than that of any iron core type on the broadcast band of wave-lengths.

The secondaries and primaries lie side by side in five grooves, reducing the capacity between windings. The diagrams Nos. 46, 49, 51 (in rear of catalogue), show how to connect our transformers to form a one, two or three stage radio frequency amplifier. The dotted lines mark the point where the circuit of an ordinary receiver should be cut to insert the radio frequency amplifier.

When an outside aerial is used, one or two stages of radio frequency are sufficient. For long distance reception with a loop, three stages should be used although within 10 or 20 miles from a broadcasting station, one or two stages are enough even with a loop. In connecting the amplifier, make all connections as short as possible and solder all contacts.

Our illustration is full size. The transformer has a central screw with an insulating bushing, as shown, so that it can be mounted on a panel or base, using but a single screw for attaching. Sold on a money back guarantee, if it is not all that we claim for it.

No. 2800 250-600 meters size, 1 7/8" x 2 1/2" ... \$1.10

Acme Reflex Transformers



There has been a growing tendency recently to employ two or more tuned R.F. stages with an untuned detector stage instead of the conventional tuned detector stage. Thus, one condenser is eliminated, as well as one control. As the name implies, this transformer can also be used in a Reflex circuit.

No. 9368

Resistance Coupled Transformer



No. 1127

\$0.85
POSTPAID

The latest in resistance coupled amplification. Complete information furnished. Sold complete with condensers and resistances or mounting alone.

No. 1125—Double resistance coupled mounting only \$0.85

No. 1126—Single mounting only for condenser and resistance \$0.38

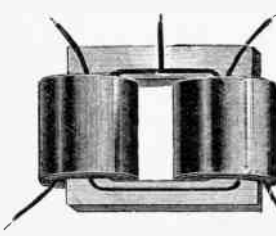
No. 1127—Complete resistance coupled amplifier, double mounting, Dubilier condenser, with resistances required ... \$2.57

Daven Amplifier Kit

For 3 stages of amplification. Supplied (without sockets) for those who prefer self-assembly. All resistors and grid leads included. Includes three Daven No. 42 Resisto-Couplers fitted with coupling condensers of proper capacity.

No. 9350 **\$7.60**

Push-Pull Transformers



This is a new push-pull transformer for many new circuits. See any radio magazine or text book for circuits. Tremendous increase in the volume without distortion can be obtained. Most audio - frequency transformers distort the sounds. By means of these transformers not only is all distortion done away

with but a tremendous increase in sound volume is gained. We furnish a complete set of directions. For best results two of these transformers should be used. This push-pull transformer is made in all respects as our No. 1100 transformer except that two coils are used. Full directions for assembling are furnished. We guarantee results. The ratio is 6 1/2" to 1". Dimensions, 2 1/2" x 3"

No. 1159 **\$2.25**

Gentlemen:

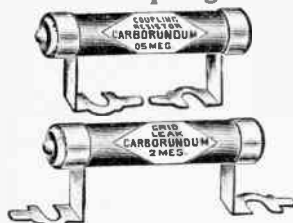
Sometime ago I ordered a set of your verniers. Wish to state that we were more than pleased with them, but the part that pleased us most was the prompt shipment. You no doubt have received quite a few orders from Gatun that can be traced back to that first order. Some of your radio and audio transformers are incorporated in sets here. Will you please send a copy of your catalog. G. D. POOLE, Gatun, Canal Zone.

Gentlemen:

Just a few lines to let you know I received the Rice Phono O. K. and find they are very powerful, as they give a clear tone. Thanking you for the favor—wishing you success.

JAS. A. SHERMAN, Wappingers Falls, N. Y., P.O. Box 75

Coupling Resistor



\$0.33
POSTPAID

The Carborundum grid leaks and resistors do not depend on any metallic film, but instead are made in the electric furnace, wherein a rock like substance is obtained, and used as the actual resistance. They

will never disintegrate, and thus will never change their values or produce any noises. Note the unique mounting clips. You may fasten one of them directly to the grid terminal on the socket, and the other to the filament in the circuit used. The clips can be bent at any angle to accommodate all possible mechanical conditions—in fact, they can be bent so as to even allow this lead to fit into the conventional mounting clips of grid leak condensers. The slots in the clips are much more satisfactory than holes, for they permit more accessible mounting. The following values in grid leaks can be supplied, and your order should state just which ones you wish: $\frac{1}{2}$, 1, 2, 3 and 5 megohms.

No. 9077 \$0.33

Resistors

No. 9078 100,000 (.1 meg.) Ohms.....\$0.33
No. 9079 50,000 (.05 meg.) Ohms.....\$0.33

Note

The 50,000 Ohms Resistor is generally recommended for the plate circuit of 201A Type tubes, whereas the 100,000 Ohms Resistor is favored if you are using Hi Mu Tubes in your Amplifiers.

Bretwood Variable Grid Leak

\$1.35
POSTPAID



We can heartily recommend this variable grid leak, as its merits warrant it. It has a smooth, noiseless variation of from 0 to 10 megohms. A cartridge type leak is never a cure all, but the Bretwood admirably solves the problem. The proper adjustment of your grid leak will bring in the most elusive distance stations with surprising volume and clarity. One hole panel mounting.

No. 9445 \$1.35

Daven Leakandenser

\$0.89
POSTPAID



Where space is at a premium, this combined Daven grid leak and grid condenser is essential. It can be either soldered to the proper terminals with the soldering lugs furnished, or, snapped into any standard resistance mount, and connections made to the latter. End caps are highly polished nickel plated brass and are threaded for a 6-32 nut. The cartridge is enclosed in a glass tube. Condenser value .00025—usual leak resistance furnished is 2 megohms—although we can also supply it with a 3 or 5 megohm leak.

No. 9006 \$0.89

Ayanbee Battery Tester



\$0.68
POSTPAID

Measuring only 7 1/2 inches long. The walls of the float are covered with studs which thus prevents the float from sticking against the sides of the hydrometer.

No. 9866 \$0.68

Carborundum Stabilizing Unit

\$3.39
POSTPAID



The stabilizing unit is an electrically controlled Carborundum Detector, and is adaptable to all circuits, as the detector impedance, being adjustable by a very high resistance potentiometer and flashlight battery shunted across same, exactly matches the particular circuit requirements. Regulation is possible within 1/100th of a volt. There are provided clips for snapping in place the flashlight battery, a built-in mica condenser, a carborundum detector. Control may be effected from the panel, or unit can be mounted on a baseboard. Bakelite knob is supplied with white engraved arrow. Bakelite frame, Nickel plated brass. Only two connections required—same as any crystal detector. Overall dimensions: 2 1/2 inches wide, 3 1/2 inches long, extends 2 1/4 inches from rear of panel. No. 9639 (Without Flashlight Battery).....\$3.39
No. 9679 Flashlight Cell for Above.....\$0.35

Poly Claro Plug



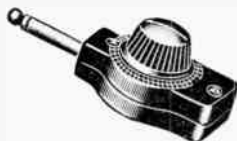
\$1.29
POSTPAID

This plug gives your loud speaker reception new life. It eliminates all raspy noises and some distortion without changing a wire in the receiver itself.

No. 9676 \$1.29

C. R. L. Modulator Plug

\$2.24
POSTPAID



Give your loud speaker half a chance to prove its merits—perhaps it needs but the above plug shunted across its terminals to clarify the reproduction.

Replaces your present plug—the knob, when adjusted, will match the impedance of your loud speaker to the output impedance of your Radio receiver, and also acts as a very effective volume control. Composed of genuine bakelite base, with bakelite knob and engraved white arrow thereon, and highest quality bakelite sleeves in the plug itself. Will fit any standard jack.

No. 9677 \$2.24

Bell Wire

\$0.34
POSTPAID



A very universally used form of wire. A plentiful supply of this should always be kept on hand. It is made of No. 18 B. & S. copper with double cotton covered insulation, heavily impregnated with a coating of paraffine. Can be used for a temporary lead-in wire—as an aerial for portable sets—for battery connections—for wiring a receiver—for winding certain forms of inductance coils, etc.

No. 9746 50-foot Roll.....\$0.34
No. 9035 1/2 pound Roll.....\$0.49

Amperite

**\$0.95**

POSTPAID

The self-adjusting rheostat. It does away with the common, adjustable rheostat, and in addition, prevents burning out of tubes. Regular price \$1.10.

No. 9288 Type 1-A, for UV-201A or C301A or 201A on 6 volts.....\$0.95

No. 9185 Type 6-V for UV-199 or 299 dry cell tubes on 6 volts.....\$0.95

No. 9510 Type 4-V for UV-199 or 299 on 4 or 4½ volts.....\$0.95

All other types same price.

Adjustable Grid Leak

**\$0.85**

POSTPAID

Employs a unique principle, which eliminates all sliding or pressing contacts. Free from microphonic noises, 1 3/4" in length and 3/8" in diameter. The glass cylinder, which is hermetically sealed, contains a smooth, heavy resistance liquid. As the grid leak is turned, the electrodes engage the liquid and it responds instantly, giving an accurate range from 1/2 to 5 megohms, adjustable to the exact value for tube circuit and signal. It is easy to operate—mounts in any standard grid leak clips. Its our regular grid leak mountings, No. 1-69. These brackets are included in the price, and therefore constitute a complete unit. Nothing else to buy. We are the only company selling this turnable grid leak at the regular price, including the mounting.

No. 5747 Adjustable Grid Leak with Mounting, complete.....\$0.85

Pilot Bakelite Grid Condenser

**\$0.35**

POSTPAID

Best condenser on market. Fully moulded. No shorting. Moulded brown bakelite covers the entire resistance. Prices on condensers without grid leaks.

No. 5182 .0001 Mfd.....\$0.35
No. 5183 .00025 Mfd.....\$0.35
No. 5184 .0005 Mfd.....\$0.35

Lynch Metallized Fixed Resistors

\$0.43

POSTPAID



Metal long has been recognized as the best electrical conductor—in a grid leak a certain unwanted electrical charge must be led from the grid of the tube to which it is connected and the Lynch resistor has no equal for this purpose, as it employs a CONDUCTIVE, non-arcing metallized resistance on a glass core, sealed within the outer glass tube. It is warranted absolutely noiseless, permanently accurate and forever dependable. Specify resistance wanted.

No. 9687.....\$0.43

5-10-2-1, 5-25 megohms.....\$0.64

1 or .05 megohm.....\$0.85

No. 9689.....\$0.85

.005 or .002 megohms

De Jur Grid Leaks

**\$0.19**

POSTPAID

We offer you a very dependable grid leak in the De Jur, for it will never change its electrical value. Absolutely moisture proof, air tight, and noiseless. Soldered caps assure permanency of mechanical construction. Laboratory tested to within 5% calibrated values. Supplied in the resistance values: 1/4, 1/2, 1, 2, 3, and 5 megohms.

No. 9645.....each \$0.19

Carter 4 Ohm Resistance

\$0.13

POSTPAID



The most compact automatic rheostat on the market, and the most inexpensive. Just as effective as more costly and bulkier type. Wherever the filament setting is not critical, as in audio stages, the bulbs can be controlled by this simple resistance of 4 ohms. Eyelets at either end provide for accessible mounting direct to terminal on socket, or a nut and bolt may be slipped on. Can be bent to any mechanically convenient angle. Measures only 1 15/16 inches long.

No. 9663.....\$0.13

700 Ohm Pilot Adjustograd

**\$0.45**

POSTPAID

Various circuits call for resistances being connected in series with the grid circuits, to eliminate any self-oscillation. The Pilot Adjustograd is ideally suitable for this purpose, having an adjustable slider and contact arm, allowing for various capacities to produce the proper setting thereof, eliminating all squeals and howls. Screw cap terminals or soldering lugs. Fibre base. Measures only 2 3/4 inches long. Two holes for mounting directly to base board, condensers, sockets, etc.

No. 9910.....\$0.45

De Jur Resistor Unit

\$1.38

POSTPAID



Do not judge the quality of this complete resistance amplifying unit by its low price. The quality of reproduction possible in resistance coupled amplifiers is obtainable in full degree with this unit. Mechanically and electrically well designed. Moulded bakelite base. Patented phosphor bronze clips, heavily nickel plated, gripping the resistors at all points of contacts. The condenser is moulded in the base, and is therefore not subject to atmospheric conditions. Complete with De Jur Soldered Cap resistors. Kindly state which type you are ordering—For 1st Stage, 2nd Stage or 3rd Stage.

No. 9641 1 Stage, Complete.....\$1.38

Single Resistor Mounting



Moulded of Genuine Bakelite. Patented nickel plated phosphor bronze clips so designed that they grip the cartridge all around, insuring ever perfect contact. Can be used as an independent grid leak mounting, or for any other purpose involving a tubular device. Soldering lugs facilitate connections.

No. 9642 Without resistor.....\$0.24

Pilot Rheostat

\$0.46

POSTPAID

Consists of an oversize resistance winding on genuine moulded bakelite support. Slider is integral with special rotating bushing and rheostat knob shaft adjustable in and out for different panels. Locking means provided so positive that knob cannot loosen when once set. Threaded inserts moulded into body for panel mounting screws. Equipped with genuine bakelite knob with white arrow.



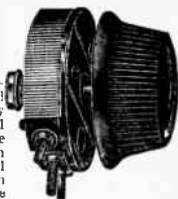
No. 1309 6 ohms	\$0.46
No. 4315 10 ohms	0.16
No. 4415 20 ohms	0.46
No. 4316 30 ohms	0.16

Pilot Bakelite Potentiometer

\$0.81

POSTPAID

Consists of a rugged high resistance winding on a moulded bakelite form. The slider of heavy spring phosphor bronze is integral with its own bushing so that the correct adjustment is not lost when the knob is removed. A novel clamping means is provided which permanently locks the knob to the slider when in position. Threaded inserts are moulded into the body for the panel mounting screws.



No. 4313 200 ohms	\$0.81
No. 4314 400 ohms	0.81

Pacnet Rheostats and Potentiometers

\$0.59

POSTPAID



The smooth-running Pacnet Rheostat is popular because it is different and better. Its efficiency and unusual beauty appeal to every radio user and to set manufacturers too, for you will find it on many well-known makes of receivers. Because of the two-unit construction the contactor and winding assemblage need never be disturbed. Thus the adjustment of the sliding contactor is carefully and permanently made at the factory. Will pass 1 1/2 amperes continuously without danger. The core and base will not crack or warp. 3/16" shaft.

Moulded composition base; black knob with silver dial.

No. 9416 Rheostat, 6 ohm	\$0.59
No. 9417 Rheostat, 10 ohm	\$0.59
No. 9418 Rheostat, 20 ohm	\$0.59
No. 9419 Rheostat, 30 ohm	\$0.59
No. 9420 Potentiometer 200 ohm	\$0.59
No. 9421 Potentiometer 400 ohm	\$0.59

Carter "Imp" Rheostat

\$0.89

POSTPAID



Everyone knows that Carter-made goods are high class, and this rheostat is no exception. The smallest made. Diameter is 1 3/8" and it projects 3/4" of an inch back from panel. Metal parts nickel plated. Wide contact arm maintains constant pressure. 1-hole mounting. Includes knob.

No. 9371 6 ohms	\$0.89
No. 9511 25 ohms	0.89

Filkostat



One of the best devices for controlling the filament current. Has shown its ability to give an absolutely accurate control of any tube on the market. This makes it possible to set the detector current at exactly the correct point for best results. With C-501A and 201A detector this is a great advantage, as it helps to bring in the distant stations with great clearness. Made with special resistance element that is constant in resistance and almost indestructible. Due to its fine current regulation, adopted exclusively by us in our "Balanced Interflex" set.

No. 9921

Carter Imp Potentiometer

\$1.11
POSTPAID

This potentiometer, a sister to the Carter Imp Rheostat family, is unique in that it is the most compact instrument made of its type, yet it retains the same 100% efficiency to be found on much larger ones. Same size as the Carter Imp rheostats. Furnished in either 200 or 400 ohms. Diameter 1 3/8 inches, and projects only 3/4" of an inch from back of panel



No. 9511 25 ohms	\$1.11
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Carter Hi-Ohms Volume Controls

A non-inductive, variable wire wound resistance, same dimensions as Carter Imp rheostats. Invaluable wherever a volume control is essential. Furnished in 500, 000, 300,000, 200, 000, 100,000, 50, 000, 10,000 ohms. Diameter 1 3/8 inches. Projects 3/4" of an inch from rear of panel.

No. 9665.....\$1.79

Amsco Double Rheostats

\$1.13
POSTPAID

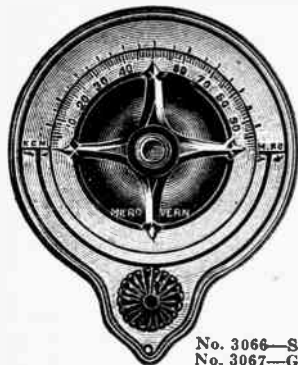


This most unique rheostat serves a double purpose—it enables you to install two rheostats of like or different resistance, in the space ordinarily occupied by one—and, accordingly localizes the adjustment controls thereof. Various combinations in resist-

ances can be adopted to your specific requirements; for instance, you may control the R.F. tubes with one knob, and the detector tube with the other. Occupies no more space than the conventional form of rheostat. A quality product—durably moulded of bakelite. The knobs are knurled for convenient gripping thereof, and embossed arrows guide the direction of adjustment. Screw terminal connections.

No. 9869	Combination 6 and 20 ohm	\$1.13
No. 9870	Combination 6 and 30 ohm	\$1.13
No. 9871	Combination 20 and 20 ohm	\$1.13
No. 9872	Combination 20 and 30 ohm	\$1.13
No. 9873	Combination 30 and 30 ohm	\$1.13

Pacnet Microvern



\$1.50
POSTPAID

A super tuning device. A vernier dial for extremely sharp tuning. No gears. No backlash. Permits permanent logging and direct reading of stations by name, wavelength or frequency. 5 to 1 vernier ratio. 4 1/2-in. diameter and provides an electro-static shield. Bakelite knob. Easily attached.

No. 3066—Silver finish \$1.50
No. 3067—Gold finish . . . 1.50

Bakelite Knob

Highly polished bakelite—brass bushings solidly moulded within. Steel set screws. Diameter 2 inches.
No. 8907 Bushing threaded for 8/32 screw \$0.13
No. 8908 Bushing with 1/4 inch diameter hole \$0.13
No. 8909 Same as No. 8908, with white arrow, as illustrated. . . \$0.18



\$0.13
POSTPAID

Cornell Dial



\$1.47
POSTPAID

This beautiful dial must be seen to be fully appreciated. It is finished in an unusually attractive, antique gold finish, and is etched embossed. Its vernier action, of 9 to 1, is so positive, there is no trace of backlash, even if it is turning a heavy double or triple condenser, nor will it slip. The Cornell Vernier Dial will modernize any Itadio set.

No. 9779 **\$1.47**

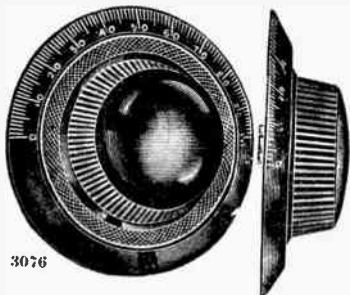
Pilot All Bakelite Vernier Dial

Closely resembling the above Cornell dial, preference may be shown to the Pilot Art Dial due to its being almost completely moulded of genuine black, highly polished Bakelite. A very attractive design is beautifully embossed thereon. The shank which receives the shaft of the condenser is highly nickel plated—a steel set screw therein locks the shaft. A full 360-degree scale is provided—upon a white background are printed the dial settings reading from 0 to 100—and on a black background are printed in white letters, the dial settings from 100 to 0; therefore, the dial is adaptable to clockwise, and counter clockwise rotation. The vernier action is accomplished by a friction drive—always positive—never any back lash or microphone noises always incidental to gears. Diameter of hole in shank is 1/4 inch. Diameter of tuning knob is 1 inch. The outer surface of the dial protrudes 3/8 of an inch from the panel—the total depth from the knob to the panel is 1 1/4 inches. Overall dimensions are 3 1/4 inches at the widest portion and 4 inches long.

No. 8850 **\$0.95**

"Rasco" Molded Dials

\$0.20 POSTPAID



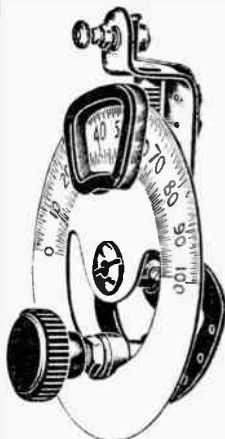
3076

These one-piece composition molded dials are the latest work in design, high grade throughout. The lettering and figures are inlaid in brilliant white enamel. The metal bushings are very heavy and will always remain firm, and the entire dial will sit positively true. The illustration shows the slight boss at the back of the dial, which makes the dial stand off from the panel about 1/16" so that the rim will not grind against the panel. Beveled edges. 3/4" bushings used. Set screw included. By using our No. 8866 adapter dials will fit a 3-16" shaft.

No. 3074, 2" Dial \$0.20
No. 3075 3" Dial \$0.25
No. 3076 4" Dial \$0.30

Illuminated Vernier Dial

\$1.71
POSTPAID



This latest improvement over pre-existing forms of vernier dials, is not only extremely useful, but also transforms the appearance of any home-built receiver to that of the very latest models, and gives to it a certain professional-like appearance, greatly enhancing its resale value—if you build Radios "on the side." It consists of a well printed scale, on translucent celluloid, the numbers of which are 1/2 of an inch in height, showing from behind an attractive panel window, upon which is etched a very fine marker, for dial settings. Placed directly behind this "transparent" scale is a 6-volt, very small consumption (1/10th of an ampere hour) bulb, which is wired, through its socket, directly to the

plus and negative leads of your "A" battery within the receiver. When this bulb is lit, a most pleasing appearance is effected, for the light appears in a soft glow from behind the dial readings, making possible tuning entirely without any strain on the eyes, as would be the case were the general lighting effects in the room objectionable. To cut out this bulb, the switch on the top of the dial is used. The vernier action provides for "razor sharpness"—there is no back lash, or play, for a smooth friction drive is employed. Diameter of scale is 5 1/2 inches Bakelite knob used. All metal parts are brass, and the switch is nickel plated. Black figures against a white background.

No. 8920 Without Bulb \$1.71
No. 8920 Special Mazda 1/10th Ampere Bulb for Above \$0.20

National Velvet Vernier Dial

\$2.47
POSTPAID



This dial truly represents the last word in vernier type construction, for it has several very valuable and unique features embodied therein. The vernier action is positively noiseless, and will not produce any microphonic disturbances due to any gears, back lash, etc. The vernier ratio is also variable by a simple lever adjustment, located immediately above the operating knob, from 6 to 1 to 20 to 1. The latter ratio is certainly of great value when in the quest of long distance reception. Furthermore, there is provided a dual range, from 0 to 100 and from 100 to 0 to accommodate any tuning instrument, in its manner of rotation. This dial can also be supplied reading 0 to 200 or 200 to 0 in a 360° type—this must be specified in your order. Four-inch diameter, highly polished black Bakelite, with black figures clearly legible against a white background. No. 9648 Combination 0 to 100 and 100 to 0..... **\$2.47**

Kurz-Kasch Vernier Aristocrat Dial

\$1.79
POSTPAID



In this newly offered dial, no gears, chains, nor bands are employed. The shaft end of the instrument which it is tuning is not visible, but instead, a beautifully polished rounded Bakelite surface graces the panel front. The dial attaches to the shaft of the instrument to be tuned by the famous Kurz Kasch Split Bushing method. Friction action employed—with a spring ever ready to compensate for wear—vernier ratio 14 to 1. Readings are visible through a port hole in upper section of a dial. The outside of the dial is handsomely chased in a very decorative effect. Four-inch diameter.

- No. 9984 200 to 0..... \$1.79
- No. 9098 0 to 200..... \$1.79
- No. 9097 100 to 0 to 100..... \$1.79

Mar-co Inductance Switch

\$0.90
POSTPAID



These switches can be used for varied purposes other than as a vario coupler tap switch. A special celluloid panel mounting numbered dial plate is included. The base is genuine Radion, and all the metal parts are handsomely nickel plated. Requires only one hole to mount.

- No. 9720..... 5 point..... \$0.90
- No. 9721..... 7 point..... \$1.15
- No. 9722..... 9 point..... \$1.15

Gentlemen:
My order arrived safely and in good time. Thanks.
B. W. ELLIS, Jr.,
124 6th Ave., McKeesport, Pa.

Jewell Panel Mount Meters

\$8.10
POSTPAID



The trade mark "Jewell" on any current measuring device is an immediate assurance of its superiority over any other such instrument. In the double reading types, the voltage condition of both your Storage and "B" batteries can be instantly determined on the panel. The milliammeters are used to determine how much "B" battery is being consumed, as well as a check on distortion. The serious Radio fan cannot afford to be without these gauges. Black Japanned Cases. No. 9650 Double Reading—0 to 7.5 volts and 0 to 150 volts. Two-inch case diameter. With wide flange front panel mounting. Self-contained switch with an automatic off position..... **\$8.10**

\$6.55
POSTPAID



No. 9651 Same type as No. 9650 but with narrow cup-shaped flange, with back panel mounting. The 7 1/2-volt scale is always in the circuit, a built-in push button on meter being used to read higher voltages.... **\$7.80**

- No. 9652 8-volt meter, same mount as No. 9651..... \$6.55
- No. 9653 0 to 25 Milliammeter..... \$6.55
- No. 9654 0 to 50 Milliammeter..... \$6.55

Sterling Panel Meters

\$2.97
POSTPAID



To obtain good Radio reception and long life for the radio tubes, the adjustment of rate of current flow from both the A and B battery voltages must be measured—not guessed at. An inexpensive and dependable means of checking this information at will, on your panel, is the use of Sterling Meters for this purpose. They may be left continuously in the circuit, or, in some instances, must be switched on and off, either by means of a push button provided on some models or by throwing a switch intended for this purpose. These meters are furnished with silver etched dials. The diameter of the body proper is 2 inches, and of the rim, 2 1/4 inches. Back clamp mounting included.

- No. 9690 Combination D.C. Voltmeter 0 to 7 1/2 volts and 0 to 150 volts..... \$4.09
Supplied with Built-in Push Button.
- No. 9691 0 to 8 volts..... \$2.97
- No. 9692 0 to 150 volts..... \$2.97
- No. 9693 0 to 15 Milliammeter..... \$2.97
- No. 9694 0 to 50 Milliammeter..... \$2.97
- No. 9695 0 to 3 Ammeter..... \$2.97
- Numbers 9693 and 9694 with push button built in can be furnished for \$0.50 additional.

Gentlemen:
I would like to say you have the lowest prices of any catalogue, so am enclosing my order.
FRANK HANKINSON,
c/o A. C. L. Rwy. Co.,
Savannah, Ga.

Rasco Special Phones



\$1.99

Here is a pair of phones that you could not duplicate in most stores for less than \$5.00. Yet our price is only a fraction of as much. We are in the heart of the best radio market in the United States and buying opportunities come to us which never come to the dealers less fortunately located. This is why we can offer you such a bargain as this and the many others you will find in this catalog. Take these phones at our low price and if they do not excel other phones at higher prices, or you are not fully satisfied, return them and we will refund your money. This applies as well to everything we offer.

These phones not only act the same as those more costly, but their appearance and construction are first class. The caps are of moulded composition, nicely finished. The headband is easily adjustable and comfortable. The cord is five feet long. In many homes several of these inexpensive phones could be used enjoyably attached to the one radio receiver.

No. 2237, 2,200 ohms..... **\$1.99**
 No. 2238, 3,000 ohms.....\$2.23

Rascophones



Remarkable for distance and clearness, especially when you consider the small price. 2200 ohms, 550 to each coil. Five foot cord. Extra light headband. Feels good on the head.

No. 9493 **\$3.49**

Gentlemen:

I received the "B" Battery in very good condition. It is the best battery that can be bought for the price. It is a lot better than I expected it to be. In the future you may expect more orders from me.

MR. CLEMENT PACK,
 131 Broad St., Menasha, Wis.

Brandes Matched Tone Phones

\$3.70
 POSTPAID

No brand of phones is better or more favorably known than Brandes. This is because Brandes phones are always uniform in quality and we are able to offer them at very reasonable prices. Easy headbands. The windings are evenly matched which produces even tones. The cord is extra long, being six feet. You are always safe in choosing a Brandes.

No. 2031, Superior model, 2,000 ohms...\$3.70

No. 3037 Navy Type 3000 Ohms... **\$4.94**



Frost Phones

\$2.40
 POSTPAID

This brand needs no introduction. Frost is one of the oldest telephone manufacturers and his product is good. The shells in these phones are of moulded bakelite. The headbands are light and comfortable. The tone quality is very satisfactory to all users.

No. 9366 2,000 ohms, aluminum shells\$2.40

No. 9365 3,000 ohms, aluminum shells ...\$3.10

No. 9361 3,200 ohms, bakelite shells....\$1.93



Double Phonograph Adapter

\$0.65
 POSTPAID



The body of this double phonograph adapter is moulded of polished hard rubber, and will adapt itself to any pair of head phones placed under the metal straps. The reception flows through the two channels, and issues forth at the nozzle, which will fit any standard phonograph, with or without a rubber bushing.

No. 1320 **\$0.65**

N & K Phones

Distinguished by remarkable clearness of tone and extreme comfort. Magnets of specially selected metal wound by an entirely new method which guarantees uniformity and long life. Extremely sensitive diaphragms 2 1/4 inches in diameter. This greater diaphragm area, together with the scientific design of the sound chambers, is responsible for the clear, natural tone. Highly polished hard rubber ear caps, accurately machine threaded to insure correct seating of diaphragm. Casting of rigid brass heavily nicked. Head bands covered with genuine leather. Six feet of strong cord. 4000 ohms.

No. 9412 **\$6.95**

Cone Speaker Units

\$2.95

POSTPAID



A cone speaker consists of a conically-shaped diaphragm, commonly termed a cone, made of cover stock, medium weight blotting paper or any material with very little grain in it, a coupling device, called an apex, which locks the end of the unit's stylus, receiving the vibrations thereof and in turn imparting them to the cone surface, which, when thus set in motion, reproduces the broadcast sounds with uncanny fidelity. In addition there is the unit proper. The unit we offer you (above illustrated) is constructed along principles recognized as theoretically and mechanically perfect. In fact, it will enable you to assemble your own Cone speaker, equal in efficiency, volume, clarity, fidelity of reproduction, etc., to the highest priced speakers—for, herein, lies the secret of any good cone: A PERFECT UNIT. Massive tungsten steel permanent magnet. Step down leverage of placement of stylus rod assures concentrated energy, producing tremendous volume. Ohmage is 1300—and the impedance will match the average receiver. Several tapped holes allow for various mounting positions. Armature (flapper upon which is attached the stylus) correctly adjusted between pole pieces. Pole pieces and armature are Norway Iron. Will operate successfully at 90 volts or up to 600 volts.

No. 9783 (As illustrated) \$7.85

No. 9785 Competitive model—for voltages not exceeding 157 \$2.95

No. 9784 Cone Apex, consisting of two conical caps (30° pitch)—bushing with center hole for stylus—threaded vertical hole—knurled screw for locking stylus to apex bushing—and 8/32 hexagon nut. \$0.69

How To Build An Efficient Cone Type Speaker

Prepared by an expert on this subject, its contents imparts to you, in simple language, complete detailed information for building a cone speaker you will be truly proud of. This knowledge will not only save you money on your own cone speaker, but you will then be able to make them for your friends, putting dollars into your pockets.

No. 9098 \$0.50

Ultraphonic Phonograph Reproducers

\$8.35

POSTPAID



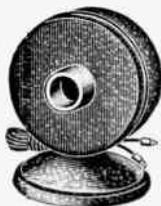
Although this instrument has no connection with radio apparatus, we are listing it for the improvement that this type of reproducer makes possible in the tone reproduction of ANY phonograph, is correlative to the trend of universal adaptation of cone speakers, for Radio reception—they both reproduce the lowest, the medium and highest registers of the full musical scale with startling fidelity. The special diaphragm used in this reproducer IS ONLY AS THICK AS A HUMAN HAIR—it is a scientifically proportioned aluminum alloy, blended from Manganese, Silicon, Iron, Copper, Zinc, Magnesium, Nickel and Aluminum. A most pleasant surprise awaits you on your first audition thereof—takes but a moment to install.

No. 9094 **\$8.35**

Utah Loud Speaker Unit

\$9.03

POSTPAID



Admirably suitable for attachment to either a loud speaker, or phonograph tone arm. It is capable of tremendous volume, yet clarity dominates the reception. Will respond to the lower and higher frequencies better than any other loud speaker unit. Employs a corrugated metal diaphragm, larger than others. Balanced armature type. Extremely powerful electro magnet insures extreme sensitivity on distance reception. Black crystallized case—phone cord furnished. Diameter 3 inches.

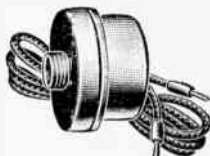
No. 9793 Without stand \$8.48

No. 9792 With stand, as illustrated \$9.03

Baldwin Type "H" Unit

\$7.03

POSTPAID



Baldwin's reputation for loud speaker units and other reproducing devices was founded on merit alone. The type "H2" above illustrated represents the culmination of many years' experience.

The approved balanced armature is employed, actuating a specially laminated aluminum diaphragm, which will counteract any tendency to blasting, and render this unit sensitive to weak impulses. High quality workmanship—and high quality materials. Polish-wed aluminum case. Durable phone cord included. Best value.

No. 9781 **\$7.03**

Dulce-Tone Radio Phonograph Attachment

\$8.95

POSTPAID



The objection to attaching phonograph loud speaker units to the tone arm is the fact that the vibrating box holding the needle must be removed for Radio reception, and vice versa, should you wish to use the phonograph. But now it is possible to have immediate access to either form of entertainment, for, in using the Dulce-Tone Phonograph attachment, the needle of your vibrator box is simply rested in the special recess provided on this instrument, in the manner shown. The vibrating reed in the unit is set in motion by the electro magnetic response of same to the audio output of your Radio receiver, and these vibrations, imparted to the phonograph mica diaphragm, produce the most mellow and sonorous reception possible, due to the acoustically perfect tone chamber employed within. Adjustable type of unit. Phonograph may be in any room of the house, apart from the Radio, connected therewith by an extension cord of appropriate length. Crystallized metal case—phone cord included.

No. 9893 **\$8.95**

N & K New Loud Speaker



The Acoustic principle is "All directional." Sends the sound out equally strong on every side. **TONE** is exceptionally clear, natural, pleasing, with excellent volume. **MATERIAL** used is a scientific material that counteracts false sound vibrations, keeping the tone pure, clear and natural. **FINISH** is black "crackle" effect with simple, beautiful floral decoration. **ADJUSTABLE UNIT** an entirely novel design of N & K adjustable bi-polar unit. Large permanent magnets, with coils and pole pieces mounted on platform carried by plunger with over-size bearing, insure perfect alignment in every position. 2 1/4-inch diaphragms. **SHAPE** is original, suggesting a square-cornered jar with four feet, resting on a square, beveled base. **SIZE** is: height, 9 inches; base, 6 1/2 inches square. Very compact. **No. 9387 \$8.25**
Model S

"Rasco" Senior Special Loud Speaker Unit



Loud speaker unit combines mellowness of tone with ample volume. It has been scientifically constructed to produce true tone without rattling or distortion. Tone may be varied by adjusting screw. Comes with bushing for connection to phonograph with rubber connector. It is specially built of cast aluminum and brass. Many \$15.00 units cannot compare with it for volume or clarity. **No. 9384 \$2.27**
POSTPAID

Other Popular Loud Speaker Units

- No. 9408 Amplion A-R 67 \$17.10
- No. 9409 Music Master A-R 35 \$7.75
- No. 9407 Tower Scientific \$3.95

"Rasco" Junior Special Loud Speaker

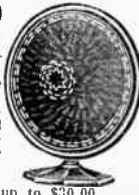
Cannot be equalled in tone quality or volume by many other high grade speakers even at twice our price. It is the same as the "Rasco" Senior Special except not quite so high in size. Attractively finished in black stipple. Bell diam. 9 in. Horn height, 19 in. Noted for great volume. Complete with 5-foot cord. **No. 9351 \$5.95**



Cone Loud Speaker

\$12.50
POSTPAID

This loud speaker is made of parchment or wood fibre on the same principle as the Western Electric loud speaker. Is adjustable. Capable of great volume. This same quality usually sells up to \$30.00. **No. 9376 \$12.50**



Baldwin Phonograph Unit

\$4.99
POSTPAID

This is the type H-1 unit characterized by its T-shaped holes and circular magnet, with the armature balanced in the center. Its beauty and volume of tone and its response to all frequencies of high notes and low notes make it a unit to be greatly appreciated and desired. The price is much lower than formerly. The unit comes complete with cord. **No. 9382 \$4.99**



"Rasco" Nonpareil Loud Speaker Unit

\$4.99
POSTPAID

We give it to you as a positive fact that this unit is equal in merit to those used in many loud speakers retailing up to \$25.00 or more. The tone quality is rich and mellow and will please you. You are always safe in choosing any of our offers as every article is good value. **No. 9373 \$4.99**



Melotone Loud Speaker

\$13.80
POSTPAID

Every receiver of two or more tubes, and some 1-tube sets, should be equipped with a loud speaker, so all the talks may hear and enjoy the program. We have selected the Melotone as representing more value per dollar of price than any other speaker we know of. It is called "The Peak of Perfection" in tone, clarity and volume. It will give you perfect service in our "Interflex" set or used in connection with any set made. The height is 24 inches, and the diameter of bell is 12 inches. Has a beautiful melode finish. Fully guaranteed by manufacturer and us. **No. 9131 \$13.80**



Adjustable Table Talker

You will be surprised at the beautiful tone quality and volume coming from this celebrated low priced loud speaker compared with those at higher prices. 22 inches high. Fully guaranteed by manufacturer and ourselves. **No. 9233 Reg. Mod. \$8.93**



Other Popular Loud Speakers

- No. 9402 Amplion A-R 19 \$39.50
- No. 9403 Amplion A-R 14 \$25.95
- No. 9404 Amplion A-R 111 \$22.25
- No. 9405 Kodel Microphone \$17.97
- No. 9401 Tower Scientific \$8.50
- No. 9444 Tower Meister-singer \$15.00

Baldwin Type "C" Loud Speaker Unit



Every one knowing anything of radio knows of the high quality of every Baldwin product, especially the most popular of loud speaker units. The diaphragm is unique, being corrugated, producing superior effects in tone and volume. Sure to satisfy you. **No. 9381 \$4.85**

Spartan Cone Loud Speaker

\$11.77

POSTPAID

Exceptionally pleasing in tone, and covering the entire musical scale with excellent volume, this popular priced cone speaker is heartily recommended for replacement of your present type of horn speaker, or, as one of the accessories of any of our kits and assembled receivers. The bass notes, lacking in a horn speaker, are reproduced herein with surprising fidelity—and at all times, perfect clarity dominates the reproduction. It is unusually pleasing in appearance—the artistically formed frame (acting as a sounding board), the mahogany and gold PITH WOOD CONE PARCHEMENT and mahogany rubbed base give this speaker its distinctive appearance. Note that the actual vibrating surface of the cone is WOOD, only found on speakers selling for \$35.00. And the semi-balanced armature disc unit is a triumph of present day improvements in reproducing units. Dimensions: Height 15 1/2 inches, diameter 13 3/4 inches.

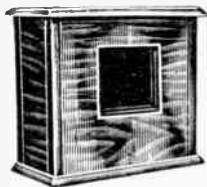


No. 9998..... **\$11.77**

Cabinet Loud Speaker

\$8.57

Free from all metallizing and possessed of a sonorous, natural reproduction, this speaker is proving a boon to all its satisfied users. There is no metal used in its construction (except the unit)—the throat, chamber and cabinet being made of specially selected Douglas Fir wood, and supplied in the natural finish—you can stain and varnish it in any color—full directions furnished. The square horn opening is covered with colored silk. Overall dimensions are 12 1/2 inches long, 6 3/4 inches wide and 13 1/2 inches high. Very good quality loud speaker unit included, ready attached. Shipped direct from factory in Illinois via express collect.



No. 9813..... **\$8.57**

Utah Book Type Cone Speaker

\$17.40

POSTPAID

This most unique speaker has rapidly come to the fore, and is now being sold in the same quantities as the conventional "cone" type of speaker—for it combines not only a most attractive appearance, but also, delivers a quality of reception second to no other speaker. Resembles a book, lying on a table, with its pages spread open, slightly arched—and upon these "pages" there are most attractive colored etchings depicting wood-land scenes. The actuating unit is concealed beneath these "pages"—there is no visible evidence of its being anything else BUT A BOOK! Can be set on a table, or stood up on a mantelpiece, etc. Measures 17 1/2 inches wide by 13 1/2 inches high—about two inches thick at the widest point. It will prove a revelation to you.

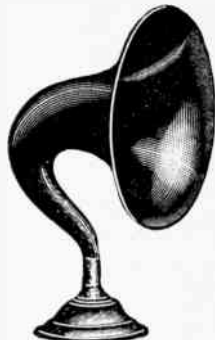


No. 9987..... **\$17.40**

Laminated Wood Loud Speaker

\$11.95

Without a doubt, this instrument represents the very finest loud speaker that can be purchased, irrespective of extravagant claims made for other horn types selling for even double the price of ours. After much extensive research, conducted by acoustical engineers and famous directors of music it was found that the Laminated Wood used in the bell of these speakers was conducive to the quest of every manufacturer of Loud Speakers, namely: TONE PLUS VOLUME. But, they did not stop here! Not yet satisfied, they culled the entire industry to select the loud speaker unit that would best adapt itself to the ideals and high measure of standards set for this speaker. There was only one choice: THE BALDWIN CONCERT TYPE UNIT! Is it any wonder then that this speaker enjoys the reputation it has earned, solely on its merits? The size of the bell is 12 inches, the height of the bell and throat is 15 inches, and the total overall height is 21 inches. The base is made of cast metal appropriately patterned and finished. The throat is cast aluminum—the recognized material for this purpose. Shipped direct from factory in Wisconsin, express collect. Shipping weight 10 pounds.



No. 9995..... **\$11.95**

Saal Eccentric Cone Speaker

\$22.78

POSTPAID



The eccentric construction of the cone diaphragm creates a natural reproduction of all tones, due to the higher notes vibrating to their best advantage on the short radii of the parchment (note that the apex is not set in the exact center of the cone, as is the usual procedure) and conversely, the lower base notes receive full justice on the longer sides of the parchment. The logic of this system of cone construction can be more readily understood by reminding you of the length of harp or piano strings, with their shortest ones reserved for the highest notes and their longest strings for the bass notes. Does not produce any objectionable drum or barrel effect. Efficient with or without a power amplifier—90 volts is even sufficient. Stands 22 inches high. Diameter of cone is 20 inches. Beautifully decorated scrollwork medallion, and outside border in gold.

No. 9993..... **\$22.78**

Gentlemen: I am ordering again from you because I am pleased with your safe and rapid deliveries.

LE ROY WILLIAMS,
P. O. Box 525,
Mountain View, Calif.

Windsor Cone Loud Speaker



As a Pedestal Type



As Wall Type

\$13.45

It has been conclusively proven that a cone parchment of generous proportions and of correct pitch, vibrated by an efficiently designed cone speaker unit, will produce both high and low frequencies with a fidelity of performance that would command its immediate purchase by its listeners. The Windsor Cones not only approach the perfection of design and tonal qualities just referred to, but, also, offer you an instrument of such pleasing and tastefully decorated appearance, that you will always feel proud to invite your friends to "listen in." Note that it can be either set on the floor, or even on a table, or mantel piece, by means of the hinging pedestal, or it can be hung on the wall by the handle provided, the pedestal swinging in against the back of the speaker. The parchment is 22 inches in diameter, and its edge is very neatly bound in braid. The unit is readily adjusted in a convenient manner, to allow you to use this speaker with 90 volts, or even all the way up to 500 volts, as delivered by Power Pack amplifiers. The wooden back has the effect of a sounding board, further enhancing the beautiful tonal qualities of this Cone Speaker. \$35.00 VALUE. Shipped direct from factory in Chicago, express collect.

No. 9989..... \$13.45

Spartan Cabinet Cone Speaker

**\$22.22**
POSTPAID

The best features of the most expensive cone speakers are incorporated in this instrument—and for this reason, a most beautiful and well proportioned matched walnut cabinet is used to further reflect the exceptional quality of this speaker. The PITH WOOD parchment, actuated by an

exceptionally sensitive and powerful semi-balanced armature cone speaker unit, will respond to the low booming notes of the great organ or bass drums as well as to those notes high in the treble scale of the violin, with surprising fidelity and volume. In fact, your first audition of this instrument will thrill you, for its reality truly brings the broadcasting studios into your own home. Therefore, the reproduction possible with this speaker will win the plaudits of any musical critic—and the appearance thereof will suit the fancy of the most fastidious tastes. Overall dimensions are 14 inches high, 16 inches wide and 6 inches deep.

No. 9003..... \$22.22

Windsor Console and Built-in Cone Speaker



FRONT VIEW



BACK VIEW

\$28.85

This ensemble of cone type loud speaker built into a console to house the "A" and "B" batteries, etc., and upon which your present or any table type radio receiver rests, as the illustration suggests, is so logical a combination, both from the electrical and mechanical angle, that it is a wonder it was not thought of long before this time. You will note that the cone speaker itself does not occupy any space within the console, allowing the entire area within for all your batteries and other accessories. The speaker itself is the identical one described under our No. 9989, and is 22 inches in diameter. The board upon which it is attached, forms not only a substantial support thereof, but also acts as an effective sounding board, which can be removed, allowing immediate and comfortable access to the batteries. This console is of generous proportions, to accommodate any length receiver. The back is removed, so as to provide the proper ventilation of the batteries. Overall dimensions are 30 inches long by 17 inches wide, and stands 29 inches high from the floor. The battery shelf measures 26 inches long by 11 inches wide. Shipped from Chicago, express collect. State whether you wish us to ship you the Mahogany or Walnut finished console.

No. 9991 (Receiver not included) \$28.85

Windsor Table Cone Speaker

\$18.85

A very original and extremely useful piece of furniture—combining the choice of many uses. Here we offer you the celebrated Windsor cone speaker (described in detail under our No. 9989) in a 16-inch diameter size, suspended to the under side of the top of this tastefully finished table, with its conical point facing the floor. As the top only measures 20 inches long by 17 inches wide, none but any receiver whose panel length does not exceed 18 inches may be rested thereon. Then again, Mother may rather decide to simply throw a scarf or center piece over the top, and place thereon her favorite photograph or statuette, vase, etc.; just imagine serving tea to your guests over this table, while the speaker is in operation with appropriate tea music, now a regular feature of all broadcasting stations, producing an impression upon them they will never forget. Stands 26½ inches from the floor. Shipped Express collect from Chicago. Kindly state if you desire Mahogany or Walnut finish.

**No. 9044..... \$18.85**

Windsor Combination Cone Speaker—Loud Speaker Console

\$42.45

Cone speakers are particularly well adapted for reproducing the low bass notes because of the large vibrating surface the cone parchment provides—the analogy of this can be best expressed by calling your attention to the length of the strings in a harp or piano—the longer they are, the lower the note is produced. But, on the other hand, a loud speaker of the conventional horn, or wooden chamber type (as in a Victrola) can reproduce the higher frequencies best. If you use either type of loud speaker to the exclusion of the other, you will lose either side of the tone register. It logically follows that if you use BOTH OF THEM AT THE SAME TIME, full justice will be given to the full musical scale—the cone speaker will reproduce the bass notes in its inimitable characteristic manner, whereas the loud speaker will do justice to the higher frequencies, with a rendition that places it on a parallel of reproduction to an old violin, in the hands of an accomplished virtuoso. The conclusive test that will thrill you is the first time you listen in to a 100-piece Symphonic orchestra, with both of these speakers connected to your receiver. With a simple arrangement of a single pole double throw switch, you can connect either type of speaker to your output, and with the switch arm disengaged from either contact, both speakers play at the same time, their leads being in series with each other. The cone parchment provided in this console is 18 inches in diameter, but otherwise the same speaker as described under No. 9989, and the loud speaker is the same type as described under Loud Speaker console No. 9992. There is ample shelf space to set your "A" and "B" batteries, charger eliminators, etc., and the back of the console is left open, to provide for ventilation to batteries, eliminators, etc.—and to make access to same a very simple matter. The top is 30 inches long, 17 inches wide and stands 29 inches high. The battery shelf is 26 inches by 11 inches. Finished in either Mahogany or Walnut. Shipped Direct from factory in Chicago, express collect.



No. 9990..... **\$42.45**

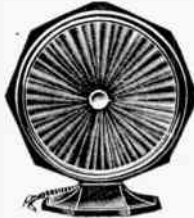
Sonochorde Cone Speaker

\$22.85

POSTPAID

The secret of Sonochorde superiority lies in its sound reproducing mechanism—a unit that is scientifically and basically correct. There are sixteen technical features of design exclusively Sonochorde, such as the use of four super-powered magnets capable of lifting more than ten pounds. These special magnets account for the exceptional volume. They are both scientifically balanced and angularly spaced, with a minimum air gap, thus producing a rich, deep, sonorous tone, wholly new and entirely free from distortion.

Add to the mechanical superiority of this Cone master-piece, its unique and truly beautiful design! Octagonal in outline, the Cone itself is covered with deep wine-colored silk, its folds extending radially from the silk button in the center. The supporting frame is practically unbreakable. It is handsomely finished in rich semi-gloss mahogany, with base to match. The base rests upon a heavy felt pad, making it impossible to mar the finest surfaces. Thoroughgoing workmanship is to be noted in every detail. Height 18 inches. Width 16 inches.



No. 9093..... **\$22.85**

Windsor Enclosed Loud Speaker Console

\$35.85

If your Radio receiver is one that you are very proud of, because of its performance, then the right place for it is in the parlor of your home; but, this you cannot do for its presence therein would clash with the general decorative effects because of the detached batteries, which would lie on the floor, and the loud speaker—which would have to be set elsewhere. And battery connection wires would give your parlor a "work shop" effect. The console above illustrated not only enables you to store within its capacious quarters all your Batteries, charger and even "A" and "B" eliminators, but it also has built in an acoustically perfect loud speaker. In addition to these features, bear in mind that it is a most beautiful piece of furniture—it will grace the decorative effect of any room. The specially shaped space under the loud speaker enables your knees to fit within, allowing you to tune in on your Radio for hours at a time, in absolute comfort. The Console measures 28 inches long, 18 inches wide and stands 29 inches high, thus it will accommodate any receiver; should your Radio set measure much less than the total length provided, a very pleasing effect can be produced by setting a lamp, or a vase, or a photograph on either end of it. The reproduction produced in the specially moulded loud speaker, and unit provided, will thrill you with its marvelous fidelity, clarity and volume. The speaker is so designed that it does not occupy any undue space within the console, thus affording you an abundance of room for your batteries. Can be furnished in either Mahogany or Walnut finish. Shipped direct from factory in Chicago or Los Angeles, charges collect.



No. 9992 Including Loud Speaker **\$35.85**
Unit

Graydeon Electrical Phono- graph Reproducer

\$17.50

POSTPAID

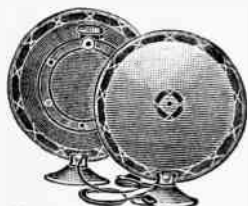
With the advent of the latest type phonographs which reproduce all notes with an "uncanny" reality, either through newly designed tone chambers and vibrating boxes, or through electrical pick-up and tube amplification with reproduction by means of a cone speaker, thousands of people throughout the world are foolishly discarding their present phonographs for the new improved type. We again repeat—foolishly—for by simply replacing the present tone box (the mica disc which holds the needle—the one illustrated on the left, and connecting the socket on the right DIRECTLY TO YOUR PRESENT RADIO RECEIVER, USING THE SAME TUBES AND BATTERIES, the record is reproduced with that same "uncanny" reality in your loud speaker, which we presume is of the cone type. The instrument in the center of the illustration is a special modulator, controlling the volume, as well as the clarity of the reproduced music. Complete installation takes but a few minutes—and takes only a moment to allow you the use of your Radio, or phonograph at will! Detailed instructions accompany each Graydeon—a David Grimes, Inc. product—imagine! For only \$17.50 you may enjoy all the luxuries of quality reproduction only possible on electric phonographs, the cheapest price for one on the open market being about \$250.00.



No. 9054 Complete as Illustrated **\$17.50**

Pacont Cone Speaker

\$23.45
POSTPAID



For unexcelled and faithful reproduction of reception, a Cone Speaker is necessary to do justice to the low, medium and high notes. The Pacont Cones will perform this task in so perfect a manner, they are conceded to be THE MOST SUPERIOR

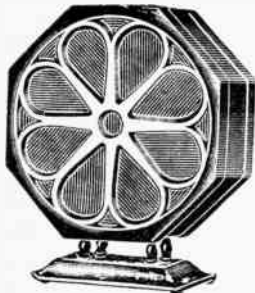
CONE SPEAKERS. They will transform a low priced set into one of substantial value—and are most necessary on high priced receivers. Will work satisfactory at 90 volts or in conjunction with a power pack amplifier employing considerable voltage. Illustration shows front and back view.

No. 9616 17-inch Model **\$23.45**

No. 9034 36-inch Model **\$71.65**

Octacone Cone Loud Speaker

\$18.98
POSTPAID



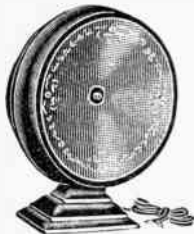
Mechanically, a cone speaker is always subject to damage due to its nature of construction. In the Octacone, however, every benefit of the best Cone Speakers is incorporated within, together with a most unique metal shell housing the complete speaker. You can deliberately drop this cone speaker on the floor, with no resulting damage. The metal diaphragm case measures 1 3/4 inches

high, 4 3/4 inches deep and 11 inches wide, and is beautifully finished in golden bronze, blending artistically with any color scheme in your home.

No. 9670 **\$18.98**

Zeco Cone Loud Speaker

\$16.27
POSTPAID



Although this is a free edge cone, and full floating, a very ingenious metal "drum" protects it from damage, a valuable feature. The full musical register is produced on this cone speaker with remarkable fidelity—and volume. The actuating unit is sensitive to voltages as low as 90 applied to the audio stages, or will withstand the tremendous volume delivered by power tube amplification. The rear of the metal drum is meshed, allowing the sound vibrations to

properly distribute themselves. The metal is attractively finished in dark tan. The cone parchment is tastefully decorated. The base is covered with felt, and can thus be set on the finest furniture. The overall dimensions are 15 inches high, 7 inches long and 3 3/4 inches wide. The diameter of the drum is 11 inches. Splendid value. 5-foot length of phone cord included.

No. 9099 **\$16.27**

Acme Cone Speakers



\$16.95
POSTPAID



K-3

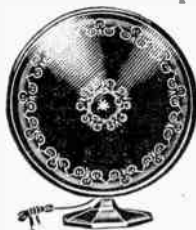
K-1

Acme acoustical engineers can well be proud of their two latest contributions to the Radio art—their cone speakers above illustrated. They possess a power of volume second to none, yet, with no sacrifice in quality of reproduction. The K-1 is a double FREE EDGE cone speaker—each cone is 14 inches in diameter. Having an adjustable unit, this speaker can be immediately adopted for utmost satisfaction if your "B" battery supply is only 90 volts or even 500 volts, as delivered by "power pack" systems. The metal drum casing is finished in tan, and will harmonize with the decorative effects of any room. The K-3 employs a single free edge cone of 11 inches in diameter, and is very similar to the K-1 in general design and principle. Can be adapted to hang on the wall with a tassel, by removing the base. The metal case and base are finished in green bronze, making this product unusually attractive. Capable of enormous volume—and retains the same 100% perfect clarity as the K-1.

No. 9985 (K-3) **\$16.95**

No. 9986 (K-1) **\$22.45**

Crosley Super-Musicone Speaker



\$14.75
POSTPAID



The Crosley organization have made themselves world famous through their efforts to give to the Radio fan THE GREATEST POSSIBLE VALUE FOR HIS MONEY. And, in fact, your perusal of this catalogue will also suggest to you that this is OUR SLOGAN, TOO. The Crosley Musicone exemplifies their values, for it is truly equal in performance to any cone speaker selling for much more money. A beautifully decorated floating. The 16-inch diameter parchment is used, full of the high standards set by the Crosley engineers—AND ACHIEVED BY THEM. Overall dimensions are 18 inches by 16 inches by 5 3/4 inches. The outer edge of this speaker is protected by a tastefully finished metal ring. Can be detached from the cast base, and hung upon the wall as illustrated above.

No. 9999. Crosley Cone Speaker
(No Tassel Cord) **\$14.75**

Single Phonodapter

Your phonograph now a loud speaker. The Phonodapter is made to fit any phone unit. The pure soft rubber stretches over the phone. Brass tube furnished, which is inserted as shown. Fits all Columbia phonographs; remove the brass tube and it fits Victor and Sonora machines. In an emergency you can slip a horn made from bristol or other stiff paper into the brass tube, which will give you quite a good loud speaker temporarily.



No. 1310 **\$0.38**

Benjamin Adjustable Metal Brackets

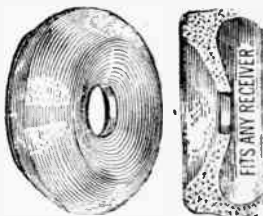
An improvement upon our No. 9501 self-supporting brackets inasmuch as the section which fits against the front panel is adjustable at will to any angle due to clever pivoting feature. Especially suitable for sloping front panels when it is desirable to mount the sockets, transformers, etc., on a level plane. Made of very rigid aluminum, and finished in dull nickel. Mounting screws furnished for panel.



No. 9791 **\$1.12**

Fonekushions SPONGE RUBBER

No matter how good your head set it will press too hard on your ears and temples, after wearing them for a few hours. By our sponge rubber cushions, make it a positive pleasure. They exclude all outside noises, which is important when listening for long distance stations. Made of the best and most expensive sponge rubber of great elasticity. They are light and can be slipped on any pair of phones. Highly sanitary because they can be washed with soap and water.



No. 5050 Pair **\$0.35**

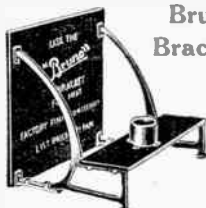
5-Tube Sub-Panel

\$2.60
POSTPAID



For standard 1A-201A type 6 tubes. For 5-tube radio frequency set 17x23/10 inch black hard rubber. 5 nickel plated socket shells secured to base with eyelets. Contact springs of nickle plated phosphor bronze, with turned tips for soldering.

No. 9490 **\$2.60**



Bruno Brackets

Supports the front panel, to which it is screwed and bolted, at the four corners thereof, preventing sagging of panels in time, due to the weight of the condensers, etc., on them. They are die-cast of aluminum. Designed to be used with 7-inch high panels and 7-inch deep cabinets.

No. 9007 (Per Pair) **\$0.97**

Self-Supporting Brackets



For use in mounting sub-panels. The space provided underneath gives plenty of room for small parts and wires, reducing short-circuit risks. Drilled for attaching to front panel. Drilled flange takes grid leak panel. Metal in dull nickel finish. Screws included.

No. 9501, Pair ... **\$0.69**

Non-Metallic Sub-Base Brackets



Made of moulded Bakelite. They prevent dielectric losses and electrical disturbances. Will not vary the inductive capacity value of coil or condenser. Mechanically true right angles. They leave plenty of room underneath for small parts and wires.

No. 9531 Each... **\$0.46**

Pilot Snap Terminal Connecting Strip



\$0.46
POSTPAID

This item fills a long felt want where quick and positive connections are necessary. Will take all standard phone tips, or the special terminal, illustrated under No. 2900 Separable Cord Tip, the wire being slipped within same and quickly tightened. Insulation is hard rubber. Metal parts handsomely nickel plated, with the characters engraved in white enamel.

No. 9898 **\$0.46**

Rasco Binding Post Strip



\$0.35
POSTPAID

This is an excellent binding post strip, equipped with our well-known Aristocrat posts. These are mounted on a hard rubber strip, and the denominations are engraved in gold. The entire strip is supported by two brackets, 1" high, to clear wiring and other obstacles. The best strip on the market, barring none. There are 7 hard rubber binding posts. The markings are "Antenna"; "Ground"; "A"; "A+"; "B"; "Det B+"; and "Amp. B+";

No. 870, Binding Post Strip **\$0.35**

Gentlemen:

I received the order you sent me in good condition. I certainly do appreciate your promptness in sending out orders. I have dealt with other large firms, but none of them give as much satisfaction as you do.

LEONARD MAYERS,
2809 Holtybeach Ave., WILMWOOD, N. J.

Radio Cabinets

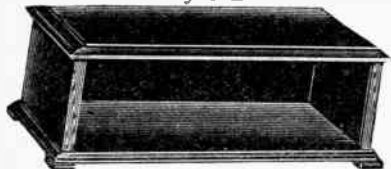
We offer a variety of sizes, patterns, finishes and qualities to suit every customer. You will be well pleased with any cabinet you get from us. Shipped direct from factory in Wisconsin express collect.

Style A



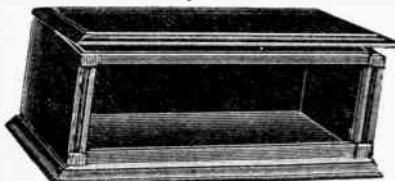
Imitation Mahogany—Made substantially and of neat design of good hard wood with fine hand rubbed finish in imitation of mahogany. Each one is fitted with hinged top. The front is fully rabbetted to fit the panel.

Style B



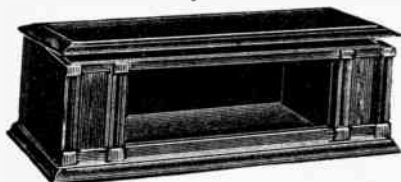
Imitation Walnut and Genuine Black Walnut—Fine looking, sturdily built and elegantly finished, and will greatly improve the appearance of the receiving set. It is a "dandy" in the way many users express themselves. The black walnut Master cabinets have continuous piano hinges and lid holders. The imitation walnut have regular hinges, three to each cabinet supplied with lid holders.

Style C



Genuine Black Walnut—For distinctive appearance this style is not easily excelled. It is most beautiful and therefore well adapted for homes of refinement. Has continuous piano hinges and lid holders. Space back of bakelite panel is 8" or 10". Top and ends of selected figured walnut special built fire-fly stock. Cannot warp. Base built upon heavy molding. Pillars on front are made of solid black walnut accurately fitted.

Style D



This style has ample space in end compartments for B and C batteries. The space under top is 4 1/2" wide, 10" deep and 8 1/2" high. They also can be used with sets having 7" mounting, the three remaining inches

used for dry cell space if a portable set is wanted. Has continuous piano hinges and lid holders. Space back of panel is 10". Top and ends are of figured walnut special built fire-fly stock. Cannot warp. Base built upon massive molding. Pillars on front made of solid black walnut accurately fitted.

Panel Size	Style A	Style B		Style C		Style D
	Imitation Mah. 7" Deep	Imitation Walnut 8" Deep	10" Deep	Genuine Black Walnut 8" Deep	10" Deep	Genuine Black Walnut 10" Deep
7" x 10"	2.60					
7" x 12"	3.00					
7" x 14"	3.35					
7" x 18"	3.60	4.69	6.40	6.56	8.80	9.36
7" x 21"	3.90	5.04	6.80	7.28	9.40	10.08
7" x 24"	4.40	5.69	7.20	8.05	10.05	10.80
7" x 26"		6.16	7.84	8.48	10.68	11.28
7" x 28"		7.09	8.64	8.90	11.48	11.76
7" x 30"		7.20	8.96	9.44	12.24	12.24
8" x 36"			9.92		13.44	16.24
8" x 40"			10.32		14.64	17.44

Radio Dilectryte Panels

\$0.65

POSTPAID



These panels are meeting with approval because they are good and cheap, and which, moreover, fit our wood cabinets listed elsewhere. These panels are accurately cut and are the best on the market at anywhere near our price. The finish is a high polish on both sides. Can be drilled and tapped where necessary, by tools which are ordinarily used by radio set builders and amateurs. Dilectryte Radio Panels are highly recommended because they have the following properties: (1) high dielectric strength; (2) high surface resistivity; (3) high volume resistivity; (4) grained surface; (5) ample tensile strength; (6) splendid tooling properties; (7) low cost. 3/16" thick. We do not cut sheets to order.

No. 7100	7" x 10"	\$0.65
No. 7120	7" x 12"	\$0.79
No. 7140	7" x 14"	\$0.89
No. 7180	7" x 18"	\$1.15
No. 7210	7" x 21"	\$1.31
No. 7240	7" x 24"	\$1.46
No. 9786	7" x 26"	\$1.69
No. 9787	7" x 30"	\$1.89

Bakelite Panels

IN GLOSSY BLACK FINISH
3/8-INCH THICK

No. 9516	7" x 6"	\$0.55
No. 9517	7" x 10"	\$0.88
No. 9518	7" x 12"	\$1.22
No. 9519	7" x 14"	\$1.39
No. 9520	7" x 18"	\$1.74

3/16-INCH THICK

No. 9521	7" x 10"	\$1.27
No. 9522	7" x 12"	\$1.77
No. 9523	7" x 14"	\$1.92
No. 9524	7" x 18"	\$2.42
No. 9525	7" x 21"	\$2.89
No. 9526	7" x 24"	\$3.29
No. 9527	7" x 26"	\$3.44
No. 9528	7" x 30"	\$4.44
No. 9529	8" x 36"	\$5.93

Standard Drilled-Engraved Panels



\$3.57
POSTPAID

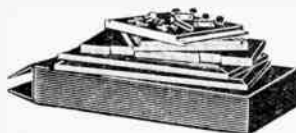
The problem that always confronts the Radio set builder, whether he is assembling his first receiver, or the professional custom set constructor, is the drilling of the front panel. And, at its best, it is always a drab, colorless looking affair, inviting no praises. But now, you can build a receiver utilizing any Standard circuit which will have all the appearances of a commercially designed set, for we can supply you with these panels, as described by the originators of the various circuits, drilled to their specifications, AND HANDSOMELY ENGRAVED IN A VERY PLEASING MANNER. A partial list of the standard panels we can supply is as follows:

No.	Type	Tubes	Size	Each
No. 9622	Bremer Tully Nameless	5	7x26x3/16	\$4.97
No. 9080	Bremer Tully Counter-phase	6	7x24	\$4.57
No. 9081	Hammarlund Roberts	5	7x18	\$3.57
No. 9082	Browning Drake	4	7x21	\$4.65
No. 9083	Browning Drake	5	7x24	\$4.65
No. 9084	Freshman Tuned R.F.	5	7x18	\$3.69
No. 9085	Madison Moore Superhet.	8	7x28	\$6.17
No. 9086	Victoreen Superhet.	8	7x24	\$4.97
No. 9087	Silver Marshall	6	7x24	\$4.79

Note

We can supply Standard drilled and engraved panel for any circuit not listed above, such as: Karas Equanette, Davon Bass Note, Samson, Aerodyne, Hammarlund Roberts III-Q, Henry Lyford, Aene, Ultradyne, Ambassador, 3 Circuit 3-tube receivers, Controlladyne, Isofarad, Nine in Line Super Het, Fenway Super Het, L-C Cockaday, Camfield Doudine, Rasco 9216 5-tube Rasco 5-tube One Dial control, Rasco 2-stage amplifier, Rasco Tropadyne, etc. Further information and prices cheerfully furnished.

Knock Down Cabinets



\$2.03

The knock down form of cabinet not only offers you an appreciable saving in cost, but also enables you to finish it

in any manner you may please, to better harmonize with your requirements. The wood is beautifully sanded—all the metal hardware is nickel plated brass. All sections are machine cut to size and planed, therefore insuring a perfect assembly. Corners of cabinet rest on rubber tack bumpers. Can be assembled in a few minutes. Shipped express collect direct from factory in Iowa.

No. 9803	For 7 by 14-inch panel. 7 inches deep.	\$2.03
No. 9805	For 7 by 18-inch panel. 7 inches deep.	\$2.24
No. 9806	For 7 by 21-inch panel. 7 inches deep.	\$2.73
No. 9807	For 7 by 21-inch panel. 7 inches deep.	\$3.17

Carter Short Jack

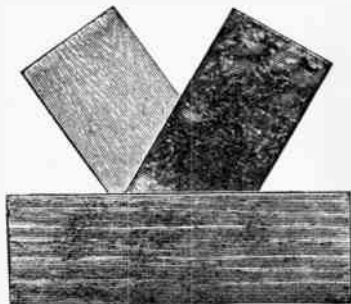
\$0.21
POSTPAID



Smallest jack made—Ideal in cramped quarters, yet contacts are perfect. Single hole mounting in 3/8 inch hole. Is about 3/8 inch long.

No. 9662	Open Circuit	\$0.21
No. 9095	Closed Circuit	\$0.26

Grained Bakelite Panels



\$0.99
POSTPAID

Custom built Radio sets can be made to harmonize with any home surroundings by using one of our beautifully decorated Bakelite panels, finished in a natural wood grain effect of Mahogany, American Walnut and Creasian Walnut. Or, you can select a panel to match your console or cabinet. Only the very best grade of Bakelite insulation is used in these panels. Kindly specify which grain finish you are ordering.

1/8 Inch Thick		3/16 Inch Thick	
No. 9752	\$0.99 7x10	No. 9762	\$1.48
No. 9753	1.29 7x12	No. 9763	1.84
No. 9754	1.47 7x14	No. 9764	2.07
No. 9755	1.87 7x18	No. 9765	2.66
No. 9756	2.09 7x21	No. 9766	3.11
No. 9757	2.46 7x21	No. 9767	3.54
No. 9758	2.61 7x26	No. 9768	3.84
No. 9759	2.71 7x28	No. 9769	4.14
No. 9760	2.94 7x30	No. 9770	4.43
No. 9761	3.54 7x36	No. 9771	5.31

Notice

We can also supply the above grained Bakelite Panels in special sizes cut to your measurements—accuracy guaranteed. Kindly state which grain effect you are ordering.

3/16 inch thick	\$0.03 a square inch
1/4 " "	0.04 " " "
1/2 " "	0.05 " " "

(For example, you may wish a special panel to fit a vitrolite console, or a desk, drawer, etc. If it measures 17 inches by 13 inches, multiply the length by the width, and that will give you the square inches. Therefore, 221 square inches at \$0.03 a square inch would cost \$6.63.)

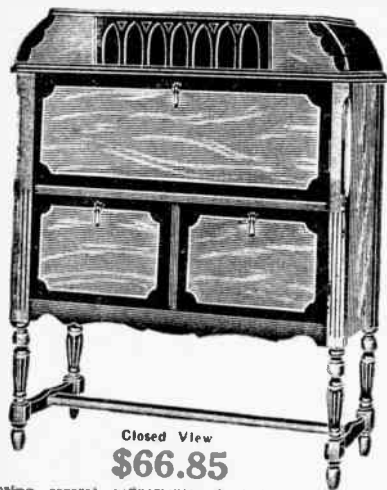
Baseboards



Made of non-warping material. 3/8 inch thick.

No. 9549	6 1/2 x 6	\$0.23
No. 9550	6 1/2 x 9	0.26
No. 9551	6 1/2 x 11	0.26
No. 9552	6 1/2 x 13	0.28
No. 9553	6 1/2 x 17	0.29
No. 9554	6 1/2 x 20	0.33
No. 9555	6 1/2 x 23	0.42
No. 9556	6 1/2 x 25	0.46
No. 9557	6 1/2 x 27	0.48
No. 9558	6 1/2 x 29	0.54
No. 9559	9 x 17	0.54
No. 9561	9 x 20	0.67
No. 9562	9 x 23	0.78
No. 9563	9 x 25	0.85
No. 9564	9 x 29	0.93

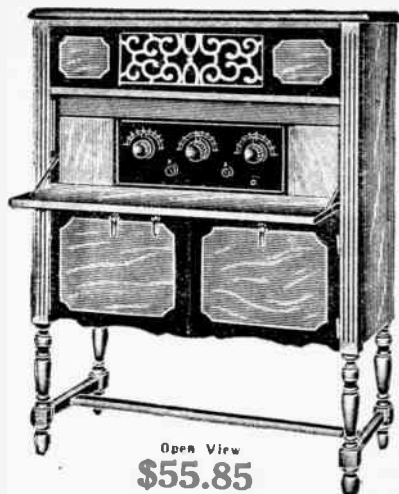
Excello Radio Consoles



Closed View
\$66.85

Offering several refinements of design and decorative effect, besides several valuable mechanical advantages over our No. 9043 Excello Console, this model will appeal not only to the Radio fan of more fastidious tastes, but is especially recommended for Radio panels that are wider or longer than 9 inches by 30 inches provided in our No. 9043. In this console, it is possible to adapt the space to any size panel not exceeding 10 1/2 inches wide by 32 inches long, an adjustable panel being supplied to provide for any smaller size. A very unique and valuable feature is the clever sliding leaf upon which the storage battery (or eliminator) is rested, enabling you to slide it forward, for recharging, testing, etc. The dimensions of this masterpiece Radio Console are 37 inches wide, 16 inches deep and 45 inches high. Made of selected American Walnut, with five-ply walnut veneer top and panel doors of matched butt walnut, finished over all in a two-tone Walnut PLANO FINISH. Shipped from our factory in Illinois, express collect, shipping weight 150 lbs.

No. 9039 (No Radio Receiver included)..... **\$66.85**



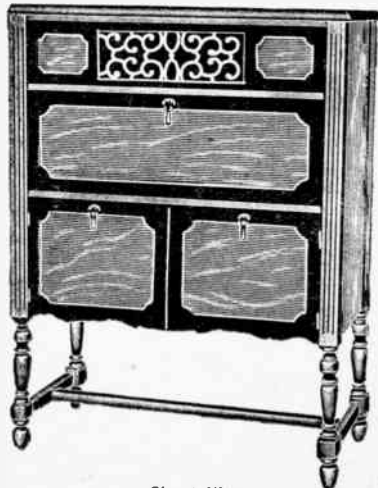
Open View
\$55.85

Constructed by Master Cabinet Makers, of 5-ply Walnut veneer top, and Walnut end panels with matched butt Walnut doors. It is truly in keeping with the best appointed homes. The panel size is adjustable up to 9 inches by 30 inches—any of our Radio receivers, kits or chassis will fit within. The self-enclosed loud speaker consists of a tone chamber and metal throat truly capable of unexcelled perfection of clarity, and volume. The top hinges to provide more convenient access to the receiver. The battery compartments opening from the front with two doors, will hold any possible form of "A" and "B" devices—with chargers. Overall dimensions are 35 inches wide, 16 inches deep and 45 inches high. Two-tone Walnut PLANO FINISH of unusual beauty. Shipping weight, 150 lbs. Shipped express collect from our factory in Illinois.

No. 9043 (No Radio Receiver included)..... **\$55.85**

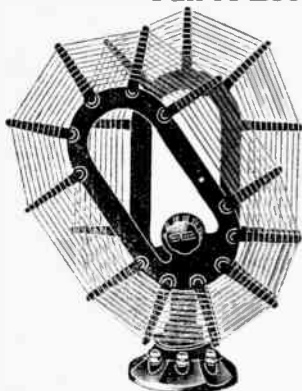


Open View



Closed View

Tun-A-Loop



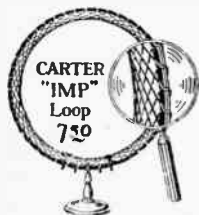
\$13.38
POSTPAID

The advantages of Loop reception are very well known and conceded. The Tun-A-Loop, on the other hand, has decided advantages over any other type of Loop. By adjusting the over-size knob, this loop can be tuned to the peak of the wave length range, assuring maximum pick-up ability on distant stations. Incidentally this tuning effect enables you to match your tuning

dials, regardless of the capacity of condensers being used. The Tun-A-Loop can be used in conjunction with any superheterodyne, neutrodyne, straight radio frequency, or Reflex receiver. No portable loop receiver is truly portable or efficient without this instrument. It is made of genuine Bakelite, and the wires are spider web wound—only genuine phosphor bronze silk covered wire employed. It is as attractive as it is efficient.

No. 9655..... **\$13.38**

Carter Imp Loop



\$6.59
POSTPAID

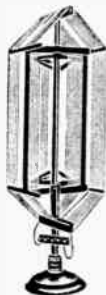
The radically different loop. Only 1 1/2 inches in diameter—weighs but one pound, due to compound progressive form of winding. As efficient as larger loops. 3/4 and center taps provided.

No. 9089..... **\$6.59**

Aero Loop

\$10.49
POSTPAID

The advantages derived with an outside aerial over any loop are extreme long distance reception, and, increased volume on all stations. The advantages of a loop and those of an antenna system are combined in the AERO LOOP, when it is used in conjunction with an antenna, acting as a very effective "booster" with added inductance, and thus, increased selectivity. The inside loop can be rotated, too, resulting in a marked decrease in static reception, thus further greatly aiding selectivity. Its many uses are listed in a special pamphlet furnished with every loop. The strands are wound on Bakelite strips, and the binding posts are also brought out to a Bakelite strip. The wood work is beautifully mahogany finished, and in keeping with the furniture of any finely appointed room.

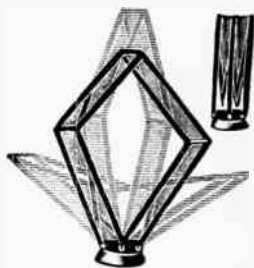


No. 9649..... **\$10.49**

Aalco Loop

\$10.23
POSTPAID

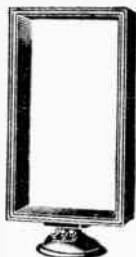
The virtues of a large size loop are sometimes disregarded due to their cumbersome appearance when not in use. Logically, a larger loop will collect more of the feeble radio waves than a smaller one. The Aalco loop stands 30 inches high when opened, and only 21 inches when closed. In the right-hand corner of the accompanying illustration is to be noted the compactness of the self same loop when folded, compared to it when ready for use. Wound with 83 strands of very low resistance wire on a genuine walnut frame, it can be supplied for use with either a 17 or 23-plate variable condenser. The hanging frame provides for adjustments of the shape of the loop, as illustrated, varying results being obtained from such angular positions.



No. 9047..... **\$10.23**

Signal Encased Loop

\$8.15
POSTPAID



There are two objections to a loop on which the turns of wire are exposed. These are first, they may loosen due to frequent contact with your hands, furniture, etc., and, second, they never ADD to the appearance of any room. In this loop, all of the turns are encased in a walnut frame, very attractively antique finished. As the frame plugs into a jack in the base, there are no wires visible even at that point, or wires to become twisted from constant swiveling of the loop. Three connections are brought out to a bakelite strip, one of them being the exact center of the loop. The wires are wound around bakelite strips—no losses—very efficient in every manner. Height 21 inches.

No. 9742..... **\$8.15**

Steinite "Aerialiminator"

\$0.85
POSTPAID

Where an outside aerial cannot be conveniently installed, you can plug this device into your house current socket, and unroll the 25-foot length of double wire, which carries the "aerial" and ground impulses, connecting the ends thereof to the aerial and ground binding posts on the receiver. A special condenser self-contained in this attachment prevents the house current from entering the receiver—therefore, is absolutely safe. Takes only a few minutes to install—the most practical aerial substitute on the market.



No. 9928..... **\$0.85**

Folding Loop Aerial

\$3.50

POSTPAID



This is the best collapsible loop of its kind. It is 36" high and 23" wide. It is electrically and mechanically correct. It has a heavy cast base, nicely finished in black, upon which the loop turns easily. The wire winding consists of special stranded, flexible, multiple standard super-antenna wire. The loop easily folds to fit into a 4-inch tube. It is beautifully finished throughout. Hard rubber insulation only is used. The wires are held in place by polished hard rubber strips. Two hard rubber binding posts are attached.

No. 2610, Collapsible Loop Aerial\$3.50

Knocked Down Loop Aerial

This aerial is 35" high, 24" on each side. Made entirely of well-seasoned wood. Comes to you knocked down. Can be put together in less than five minutes. Enough No. 22 enameled wire is furnished to make ten rounds.

No. 2600 Knocked Down Loop Aerial\$0.85

Aerial Insulators

\$0.15 POSTPAID

The larger ball insulator is the popular style, 3½" x 2¼". The smaller is used for light work, size 1½". High grade insulation compound, not affected by the weather. Mechanically right; will stand several thousand pounds pull.



No. 7914 Small\$0.15
No. 2012 Ball0.30

Rasco Ground Clamp

\$0.15

POSTPAID



Has long been a favorite among amateurs. Is inexpensive, never comes loose, and fits any pipe from ½" to 3". Strap is adjustable and galvanized and will not rust. Has binding post to clamp wire.

No. 2236\$0.15

Rasco Antenna Lead-in Connector

Here is the solderless Connector that you can trust. Eighty per cent of all radio troubles are caused by a faulty connection between the aerial and the lead-in.

The plunger and screw holds both aerial and lead-in with a vice-like grip that is never relaxed.

Our illustration of the connector is full size. Once tried you will never discard it. Nothing to wear out. Brass, nicely nickel-plated with a good plating. Diameter of connector is ⅝", height ½". (Patents pending.)

No. 4244

\$0.20

Universal Lightning Arrester

**\$0.87**
POSTPAID

Very fine outdoor. Made of brown glaze porcelain. Easily attached to window sill or against wall. Generous binding posts with lugs for connections. Passed by Fire Underwriters. Well made, and when used insures your house against lightning and your instruments against damage. Guaranteed in all respects. Size over all, 3¼" x 1½".

No. 2300\$0.87

Copper Antenna Wire

**\$0.48**

All the wire we offer is of the dependable kind, the best grade. The stranded wire is hard drawn copper cable and is preferred generally by those desiring the best results.

No. 9227 Solid Copper, single, No. 14, 100 ft. \$0.48

No. 9228 Stranded, No. 22, 100 ft......\$0.49

Enameled Aerial Wire

Will insure superior reception as the usual increased resistance caused by corrosion of plain wire is prevented by the enamel coating. Made of fine copper strands, each coated with enamel insulation.

No. 6401, 100-foot coil **\$0.52**

Antenna Connector

**\$0.35**
POSTPAID

Made entirely of aluminum. Light and will not rust. The only connector of its kind. The 4 antenna wires go to the upper holes; the lower hole takes the lead-in. A good metal to metal contact as in using this connector is better than nearly all solder connectors. Dimensions 2" high, 1½" wide, ⅝" thick.

No. 999\$0.35

Aerial Lead-in



It is a flat strip of metal, entirely insulated with weatherproof material. Fits under any window. Can be bent into any shape. Neat and durable. It can be mounted on the window sill or clamped in at the upper part of the window. The insulation is perfect. Length, 18½"; width, ¾".

No. 8628 **\$0.25**

Another Popular Aerial.

No. 9451 Talking Tape, ribbon, per 100 feet.

\$0.89

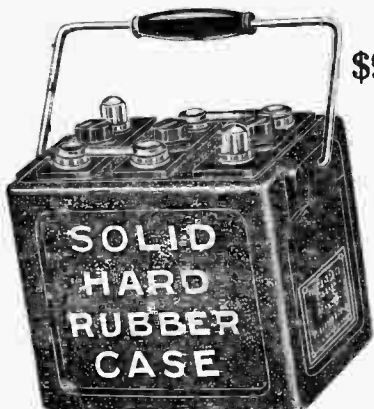
SAVE OVER 10%

Do not forget that the Prices on all goods in this Catalog—although exceedingly low—are really subject to a discount of over 10 per cent.

YOU SAVE OVER 10% WITH US—AS WE SHIP NEARLY ALL GOODS PREPAID IN U. S. A.

Hard Rubber Case Storage Batteries

\$9.50



We have specialized in storage batteries a number of years and this battery, although called a radio battery, is really an automobile battery. That means that it has been constructed for extra hard work. While used in the automobile the battery is shaken up all day long and undergoes a terrific wear and tear. Only the highest grade batteries can stand this constant jarring, consequently you know what to expect from our battery. We use only the very best materials and guarantee not only results, but guarantee the batteries for two years. We will replace any battery that becomes defective within two years.

Certain low priced batteries are made of plates taken from old batteries and made over. Such batteries cannot last. Our new plates are extra heavy and guaranteed to last. Another important point is that our battery will withstand sulphation, i. e., coating of the plates even if the battery has been run down quite low. Solid hard rubber case. We furnish only acid-proof terminals that will outlast the battery, full automatic vents are provided. Positive (+) and negative (-) terminals are marked in a distinctive manner. Impossible to make a mistake. Acid-proof. 100. In addition to all this our battery is sold at the most attractive price. 7" wide, 10" long, 9 3/4" high.

No. 9100 6 Volt, 100 Ampere Hour **\$9.50**
 No. 656 6 Volt 60 Ampere Hour 7" Wide; 9" long; 8 3/4" high **\$8.50**
 Shipped transportation collect.

Tungar Charger

\$15.30

The world famous Tungar bulb type battery chargers are too well known for further detailed information here. They are noiseless in operation and practically fool-proof for they do not require any chemicals or vibrators, which must be re-wound. For 110-volt A.C. lines only. Tungar bulb included.



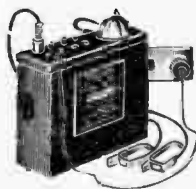
No. 9718 60-Cycle, 2 Ampere Rate.....\$15.30
 No. 9424 25-Cycle, 2 Ampere Rate.....\$18.70
 No. 9225 60-Cycle, 5 Ampere Rate.....\$23.80
 Battery chargers are shipped Express Collect.
 Shipping weight, 15 pounds.

New Genuine Tungar Bulbs

No. 9026 2 Ampere Rate Bulb.....\$3.88
 No. 9027 5 Ampere Rate Bulb.....\$7.78

Tungar Trickle Charger

\$9.95



This latest product of the General Electric Co. will charge any 4 or 6-volt storage battery up to a 1/2 ampere rate. Its construction and principle is similar to the higher rate Tungar battery chargers. Bulb included. No. 9028... **\$9.95**
 Shipped Express Collect.

Tapped "B" Batteries



2250

Our "B" batteries are made of the finest and best material obtainable, by one of the largest battery manufacturers in the country. We positively guarantee these batteries to be noiseless and the longest lived. We carry only fresh stock at all times. The output of these batteries is very uniform. With fair use they will last a year or more. We only list the tapped batteries, as we have

found by experience that they are the best for all experimental work, and the difference in price is so negligible that our customers will welcome this departure.

No. 2250, Small size, 15 cell, 22 1/2 volt type, tapped, each.....\$0.85
 No. 2251, Medium Navy size battery, 22 1/2 volt, tapped from 16 1/2 to 22 1/2 volt, in 1 1/2 volt steps, each...\$1.20
 No. 4500, Combination tapped 45 volt, 30 cell battery tapped to give 45, 22 1/2, 21, 19 1/2, 18, 16 1/2 volts. This battery is designed especially for detector and amplifying tubes, each.....\$2.30
 No. 4509, LARGE Size, 45-volt, 30-cell Battery, tapped for 45, 22 1/2, 21, 19 1/2, 18, 16 1/2 volts. This is an extra large size giving 50 p. e. more service than No. 1500, Made for heavy duty, for 5, 6, 7, 8 bulb sets. Size, 3" x 8" x 6 1/2", each.....\$2.75
 No. 4503 Tapped 4 1/2-volt "C" Battery, for negative grid bias on R.F. and A.S. tubes. Eliminates distortion, permits high "B" battery voltages and lengthens life of "B" batteries. Also used as an "A" battery in portable sets using 199 type tubes. Each.....\$0.51

Shipped Express Collect.

Balkite Trickle Battery Charger

Charges 4 and 6 volt "A" batteries. Slow charger. Can be operated while set is in use. For any number of tubes. Size - 5 1/4 x 3 x 5 inches high. Charging rate 1/2 ampere. Shipped dry. For 110 volt A.C. 60 cycle current.



No. 9358

\$9.25

Shipped Express Collect.

Balkite Model J Two Rate Charger

\$18.85



Combining a trickle charging rate of .5 of an ampere per hour and the maximum rate of 2.5 amperes per hour, this new Balkite charger is making itself invaluable to its many users. There are times and conditions when either of these two rates are necessary—and in this one instrument both are combined. Takes but a moment to swing over from one rate to another. It is

so efficient that even while your receiver is in operation the charger can be functioning, while locals are being received. The electrolyte level is at all times visible—only at infrequent intervals is it necessary to add distilled water thereto. This is the only upkeep attached to this charger. Furthermore, while in operation it only costs about 1/2 cent per hour. It will also charge a 1-volt battery at a high rate of .8 of an ampere per hour, and .2 of an ampere per hour at the low rate. Operates from 110-volt A.C. current, at 60 or 50 cycles. It can also be supplied to operate from a 25 to 40-cycle 110-volt A.C. current with a 1.5 ampere high rate.

No. 9941 Combination Model J Balkite Charger, with Cord, Plug, Battery Leads and Clips **\$18.85**

Full Wave Battery Charger

\$16.85



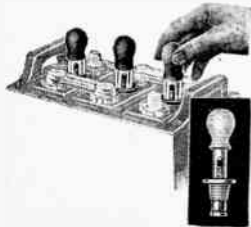
The radical improvements incorporated in this charger permit the complete charging of a run down battery OVER NIGHT for, in using the FULL WAVE OF the A.C. cycle, INSTEAD OF ONE-HALF OF IT, a charging rate of 6 to 8 AMPERES PER HOUR is delivered. Entirely fool-proof—will last a life time. A black crystallized finished metal case encloses the entire mechanism and rests on durable rubber feet. Note the folding handle. Generous length of cord and detachable plug is included. The clips that snap on the battery terminals are lead covered, to resist acid corrosion effects. For 110-volt, 60-cycle A.C. current. Shipped express collect.

No. 9936 **\$16.85**

Scranton Battery Cap Tester

\$1.83

POSTPAID

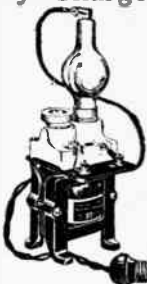


A recent innovation which will prove its value to you many times its modest cost. You simply replace your present battery caps with three of these combined battery caps and built-in hydrometers. It is always ready for immediate use—there is no chance of spilling any acid with its ever ruinous effects. To test, simply squeeze these caps, you can glance at the floats as they rise, denoting the condition of charge IN EACH OF THE CELLS. The solution will then slowly drain back. Should no solution arise, then it is proof positive that the particular cell needs replenishing of distilled water. The conventional vent for battery gases is provided. The ball and cap are the best quality rubber, and will withstand the acid for many years. Universal plug fits all batteries.

No. 9865 Set of Three **\$1.83**

Holmes Tungar Bulb Type Battery Charger

\$9.45



This 2 ampere Tungar bulb type storage battery charger is not to be confused with any other low priced charger, whether it be of the bulb or vibrator types. In fact, our customers have told us that this instrument is as efficient as even those selling for double its low price. In operation, there is no noise to disturb you—there are no acids or liquids to contend with, nor burning out of vibrator contacts. Simply snap connections from charger to battery terminals, plug into your lighting circuit

—the Holmes charger will do the rest, at a 2 ampere charging rate. Can be permanently mounted in your Radio console, due to small size, and special mounting holes provided for the purpose, or, picked up and moved around at will. Charges both "A" and "B" batteries, the transformer is heavily shielded with a black japanned iron case, and is of generous proportions. The Tungar socket and fuse block is made of high quality insulating porcelain. The connection to the Tungar element is a specially treated coil spring. Size overall: Height 7 1/2 inches, width 4 inches, length 1 inch. For 60 cycle, 110 volts A.C. current.

No. 9076 With 2 Ampere Tungar Bulb, Cord and Plug **\$9.45**
No. 9090 With 5 Ampere Tungar Bulb, Cord and Plug **\$19.95**

FOR 25-CYCLE 110-VOLT A.C. CURRENT
No. 9091 With 2 Ampere Bulb, Cord and Plug **\$15.85**

Note

All battery chargers are shipped Express Collect from factory in Chicago.

Chaslyn Sink or Swim Hydrometer

\$0.69

POSTPAID



This hydrometer does not depend on a float therein for determining the condition of charge of the battery; but instead, three differently colored balls. If all three float, the battery is fully charged, if one ball sinks, the charge is almost full, if two balls sink, the charge is low, and if the three balls sink, then the battery is totally discharged, and should be immediately attended to.

No. 9788. **\$0.69**

Storage Battery Clip

\$0.14

POSTPAID



These large size clips are non-corrosive and are warranted to make a positive, ever gripping connection. Lead wire is attached to the clip by twisting it under a screw and then tightening same. Lead covered.

No. 9719 **\$0.14**

Apco "B" Battery Charger



\$3.95
POSTPAID

Supplied without bulb. Charges at any desired rate. Use ordinary light bulb for charging. Full instructions accompany it. The neatest charger using your ordinary 50, 75 or 100 watt electric light bulb. Charges at 1-10 to 1/2 amperes. According to wattage of bulb.

No. 9375 "B" Battery Charger, without lamp.....\$3.95
For Alternating Current Only.

Valley Battery Charger \$16.25

Charges any 6-volt storage battery at a 6 ampere rate, or any 12-volt battery at a 3 ampere rate. The most efficient high rate battery charger made. Equipped with full length cord to attach to your lighting circuit, clips and leads to attach to your battery, and a very accurate ammeter, registering rate of charge. Transparent moulded cover. Rests on rubber feet. For 110-volt A.C. current. Size 6 x 6 3/4 x 7 1/2 inches.

No. 9671 For 25-30-40 Cycle.....\$16.25
No. 9073 For 110-volt A.C. current.....\$19.10
Due to excessive weight, Valley chargers are shipped Express Collect. Shipping weight 21 pounds.



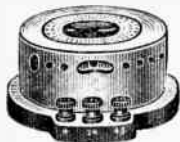
Test your B storage battery with this hydrometer. It will save you money by warning you in time. It will help you get the best results from your set. Priced very low.

"B" Storage Battery Hydrometer



No. 9225 **\$0.29**

Apco "A" and "B" Battery Chargers



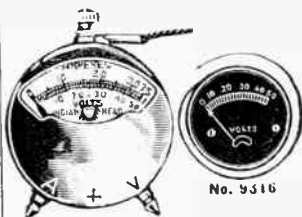
\$11.47

Fully guaranteed by the manufacturer and us. The finest quality, small in size, nationally known. A big bargain at our cut price. Sure to please you. Complete instructions for operation. For 110-volt 60-cycle A.C.

No. 9357 "A" Battery Charger, 2 amp. rate, no tubes required.....\$11.47

Battery Chargers Are Shipped Express Collect.

Voltmeters



No. 9515
An accurate indicator of the strength of your B batteries. Specially useful in testing 22 1/2 and 45-volt batteries, but registers from 0 to 50 volts. Case is cast metal, nickel finish, glass crystal, flexible contact cord.

No. 9316 For "B" Batteries.
0-50 volts.....\$0.87

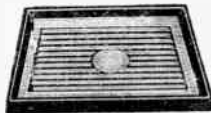
No. 9515 Combination meter
0-50 volts, 0 to 50 amperes, tests "B" Batteries and Dry Cells also.....\$1.39

Battery Tester

A very fine quality instrument for testing your A and B Storage batteries. The proper construction of the float and barrel assures accuracy of readings.

No. 9091.....**\$0.47**

Battery Tray



We hardly need suggest the wisdom of placing your wet batteries in this tray so no acid can get to the rug. It may save its cost many times over and the wiser folks will appreciate your thoughtfulness. Full size for your battery. Heavy black rubber.

No. 4512.....**\$0.57**

Sterling 6-Volt "A" Battery Charge Indicator

\$1.63
POSTPAID

To the Radin fan who objects to the use of a Hydrometer, because of its attendant possibilities of dripping acid and its ruinous effects, for testing the condition of his storage battery, this charge indicator is indeed invaluable. By applying the two contacts included with this device to both terminals of the storage battery the arrow will advise you whether to start charging the battery—when it is nearly full charged—and when you should stop charging it. Handsomely nickel plated.



\$1.63

Brach Non-Drip Hydrometer

\$0.95
POSTPAID

Your first thought upon examining this unique hydrometer is to wonder why this non-drip feature was never thought of before. The moulded cup that catches any drips from the nozzle is attached to two very pliable-rubber standards which arswung out of the way while the nozzle is inserted into the vents of the battery, and, when the nozzle is removed, this cup swings back into its original position ready to catch any drips of acid. Another very valuable feature is the use of the famous "Claslon" system of three colored balls of various weights which sink according to condition of charge in the battery.



No. 9696.....**\$0.95**

Tobe By-Pass and Filter Condensers



\$0.56
POSTPAID

In every manufacturing industry there is always one outstanding concern whose products are the recognized leaders, and by which competitive products are compared. The Tobe Deutschmann By-Pass and Filter condensers are conceded to be the most efficient made. Their handsome silvered metal cases will lend grace to any receiver. Although the By-pass type can be used in "B" battery eliminators at low voltages, the Filter type is solely recommended. The By-pass type are used in any Radio receiver, in the Radio Frequency or Audio Frequency circuits. Connections may be made by soldering to the timed lugs provided, or screwed and bolted thereon.

BY-PASS TYPE

Cat. No.	Capacity	Price
No. 9729	.1 mfd.	\$0.56
No. 9730	.25 "	0.60
No. 9731	.5 "	0.72
No. 9732	1. "	0.86
No. 9733	2. "	1.58
No. 9734	4. "	2.85

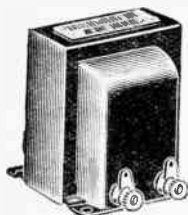
FILTER TYPE

Cat. No.	Capacity	Price
No. 9735	.1 mfd.	\$0.60
No. 9736	.25 "	0.65
No. 9737	.5 "	0.80
No. 9738	1. "	1.11
No. 9739	2. "	1.58
No. 9740	4. "	2.85

TOBE HI-VOLTAGE POWER PACK CONDENSERS

Cat. No.	Capacity	Price
No. 9030	.5 mfd.	\$1.48
No. 9031	1. "	2.18
No. 9032	2. "	3.48
No. 9033	4. "	5.95

Thordarson Filter Choke Coil



The name of Thordarson on any transformer is an immediate assurance of a quality product. Every "B" eliminator is only as good as its Filter system, and the choke coil therein plays the main role. The Thordarson choke coil will serve these requirements with 100% efficiency. Inductance 30 Henries—current carrying capacity of 70 milliamperes—D.C. resistance of 280 ohms. Can also be used as a filter choke for keeping high voltages off your loud speaker. Measures 2 1/2 inches by 3 inches high.

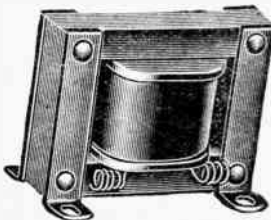
\$4.48
POSTPAID

No. 9646

Choke

\$1.55
POSTPAID

This excellent choke, especially manufactured for "B" battery eliminators, and used in the KONITE NO-IUM Eliminator, has about 40-milliamperes capacity, (10,000 turns of No. 32 wire) and is warranted to do the work right. Will not heat or burn out under normal load.



No. 4002 Choke\$1.55

Tobe "B" Eliminator Blocks

\$7.65
POSTPAID



Any "B" eliminator is only as good as the Filter system employed. The Tobe Deutschmann Filter Blocks offer you the assurance that your completed eliminator will be an absolute success. Attractively sealed within a silvered case. For all Raytheon and other plate supply circuits where the working D.C. voltage does not exceed 300 volts.

For use in small "B" eliminators in which there will be no intermediate voltages used—or where separately enased filter condensers would by pass these intermediate voltages, if they were to be used. Contains one 8 Mfd. and Two 2 Mfd. condensers—heavy binding posts are on the top of this model.

No. 9725 **\$7.65**

Especially designed for use with the Raytheon Tube Type B and contains one 8 Mfd., two 2 Mfd., and two 1.0 Mfd. Tobe Filter Condensers. Height is only 5 1/2 inches, width 4 inches and depth 2 1/4 inches. Binding posts are brought out on the bottom of the case for safety sake.

No. 9726 **\$8.65**

Very similar in appearance and size to our No. 9726 Block, but contains Three 4 Mfd., and two 1.0 Mfd. Tobe Filter Condensers—especially designed for use with an R. C. A. or Cunningham 213, or two 216 or 316 Thermionic Rectifying Tubes.

No. 9727 **\$8.65**

Same as our No. 9726—designed especially for the new BH Raytheon Tube. Contains two 4 Mfd., one 6 Mfd., and two 1 Mfd. Tobe Filter Condensers.

No. 9728 **\$10.15**

Tobe Raytheon Buffer Condenser Unit

The Raytheon circuit requires two .1 Mfd. condensers on the A.C. side of the tube.

No. 9060 **\$1.19**

High Capacity Condensers

\$0.60
POSTPAID



These are standard condensers and are of the best vacuum impregnated paraffin type. The insulation is specially-prepared paper, and the units are compressed hydraulically before they are sealed in their metal casings.

All of our condensers are tested for 500 volts breakdown; each condenser comes in an enameled black tin casing.

There are two metal terminals to which wires or bus bar can be readily soldered. We have developed these condensers especially for "B" eliminator work, and we believe our prices are the lowest in the country. Try connecting a number of these condensers together. You can make any capacity "Filter Block" for any style "B" or "A" eliminator.

No. 4007	4-Mf.	Condenser, each	.....\$2.00
No. 4008	3-Mf.	Condenser, each	.....1.60
No. 4009	2-Mf.	Condenser, each	.....1.30
No. 4010	1-Mf.	Condenser, each	.....0.75
No. 4011	1/2-Mf.	Condenser, each	.....0.60
No. 4012	1/4-Mf.	Condenser, each	.....0.50

Comments:

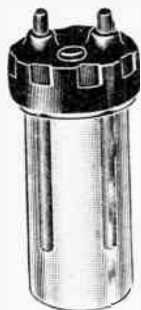
Recently I ordered a triekle charger, and am very much pleased with same.

S. W. DEARTH,
Deer Creek, Ill.

Rectifier Cells

\$0.60
POSTPAID

These rectifier cells, of which four must be used for the complete full-wave rectification, are standard with us, having been specially designed for "B" eliminator work. These 4-oz. jars, with acid- and heat-proof rubber screw covers, are furnished with two electrodes, namely, pure aluminum and lead. A vent cap is also provided. The special connectors listed below should be used for connecting the cells together. Size $4\frac{3}{8}'' \times 2\frac{1}{4}''$.



No. 4003 Rectifier Cell (but no connectors nor salts) complete with cover and electrodes.....each \$0.60

Connectors

\$0.25
POSTPAID

These special connectors are used in order to connect four of the rectifier cells together. Set of 4 special connectors sold as one unit. These connectors snap over the round electrodes, giving a positive binding contact at all times, that stays put. No loose connection possible. Illustration shows how connector clamps over $\frac{1}{4}''$ rod. Center hole is used for screw and nut binding post.



No. 4004 Set of 4 Electrode Connectors...\$0.25

Resistances

\$0.50
POSTPAID

These resistances are standard for eliminators and will carry about half a Watt on continuous load. Glass enclosed, cartridge type. Two of these must be used in standard eliminators. The resistance is 10,000 Ohms per unit. Resistances come complete with two spring clip mountings.



No. 4005 "B" Eliminator Resistance, 10,000 Ohms.....each \$0.50

Rectifier Salts

\$0.20
POSTPAID

Only long experience can produce the correct "B" eliminator rectifier salts. Borax and similar salts "creep" over the electrodes and usually short circuit them. Our patent salt combination is guaranteed to keep electrodes clean and will not "creep." Sold only in units for our No. 4003 rectifier cells. One filling charges one cell.

No. 4006 Rectifier Salts, per box (one complete charge).....each \$0.20

Electrodes

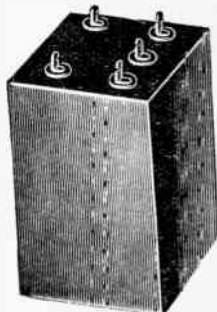
For those who wish to make their own rectifiers we supply electrodes. The success or failure of a rectifier lies in the purity of the aluminum used. We use only 99.5 per cent pure Aluminum in connection with our rectifiers. The small electrodes measure $3\frac{1}{2}''$ long by $\frac{1}{2}''$ diameter. The large electrodes are $4\frac{3}{8}''$ long by $\frac{1}{2}''$ diameter, and are equipped with Fahnestock clips rigidly screwed into one end thereof. The large electrodes are intended for pint jars.

No. 4015 Small Aluminum Electrode.....\$0.10
No. 4016 Small Lead Electrode.....0.08
No. 4017 Large Aluminum Electrode.....0.35
No. 4018 Large Lead Electrode.....0.30
PRICES POSTPAID

Konite Filter Block

\$3.65
POSTPAID

This is the high capacity 500-volt tested condenser system used in the NO-HUM "B" Battery Eliminator. Contains 4 condensers, all in one housing, as follows: One each 4-mfd., 2-mfd. and two $\frac{1}{2}$ -mfd. Complete as illustrated, with 5 terminals; in tin shell, size $2\frac{1}{2}''$ wide, $1\frac{1}{4}''$ deep, $1\frac{1}{4}''$ high.



No. 4001 Block.. \$3.65

Large Size Rectifier

\$1.17
POSTPAID

Commonly termed a "pint" size rectifier jar, it can be used in either a Trickle charger rectifier, or in a "B" battery eliminator. In the former instance, only one jar is required, in the latter, four jars are required. Consists of a heavy jar, with a threaded "neck" upon which is screwed the moulded cover, and through which are inserted the $\frac{1}{2}$ inch diameter lead and aluminum electrodes (No. 4017-4018) separated by $1\frac{1}{2}$ inches. A removable vent cap completes the unit. Note the Fahnestock clips which are screwed into the electrodes for convenient and positive connections—also note the notches on the moulded cap, for gripping same, when unscrewing it from the jar. Besides this unit, you need a lamp cord and plug, and our No. 8004 resistance to assemble your own trickle charger. Overall dimensions are $5\frac{3}{8}$ inches high, $3\frac{1}{4}$ inches diameter.



No. 8003 As Illustrated..... \$1.17

Trickle Charger Resistance

\$0.99
POSTPAID

Constructed to our specifications for use in a trickle battery charger, you are assured every satisfaction when used in conjunction with our No. 8800 Rectifier. The resistance itself consists of a long "spring," wound around the porcelain standard, in which are moulded the grooves to receive this resistance. The ends of same are connected to a plug which screws into the porcelain standard base plug furnished. Two mounting holes and two connection terminals are conveniently provided on the base. The capacity is rated at 75 watts. Overall length of resistance is $4\frac{1}{4}$ inches, and including the socket, 5 inches.



No. 8804..... \$0.99

Gentlemen:
I was well pleased with the "B" eliminator parts I received from you, and the results obtainable therewith.
W. A. SANDERS
2005 12th St., Charleston, W. Va.

Ford Raytheon "B" Battery Eliminator Tran-Choke Unit

\$8.88



Using this instrument, and a few others listed below, any Radio fan can assemble in a few minutes a "B" battery eliminator to work direct from your 110-volt A.C. line, delivering results as good as only obtainable on eliminators ready built and selling for \$50.00. Mass production, with accompanying heavy sales, enables this combination of transformer and two chokes to be sold at this extremely low price, considering the 100% efficient results obtainable therewith, and unusually attractive manner in which it is finished. In addition to this unit, you need a filter condenser block, containing one 8- two 2- and two 1 Mfd. filter condensers, a "buffer" condenser of two .1 Mfd. filter condensers, a line switch, a tube socket, a Raytheon bulb, two variable resistances for intermediate voltages and a fixed resistance of 10,000 ohms. (Also, such incidentals as binding posts, base board, screws, etc.) Note that the connections to this unit are all on the bottom, for safety sake, as well as ease in assembly. You have a choice of either a "High" or "Low" output of "B" battery voltages, the actual difference in voltages being about 1/3 as per the following table, showing voltages obtainable according to amount of current required. (An average 5-tube receiver draws about 30 milliamperes.)

"B" Eliminator Output at Power Terminal Voltage Output

Milli-amperes	Voltage Output	
	Low	High
20	135	212
30	116	194
40	96	173
50	...	153
60	...	132

Above table was derived with Raytheon "B" tube. Measures 9 inches long by 3 1/4 inches wide by 3 1/4 high. Beautifully finished in a shielded black crystallized metal case. Binding post connections mounted on a genuine Bakelite strip, and are engraved for reference thereto. Splendid value. Detailed and explanatory book-up and instructions are included with each Tran-Choke Unit. Guaranteed to produce NO HUM, even while standing close to the speaker.

No. 9789 **\$8.88**
Shipping weight, about 10 lbs. Sent Express Collect.

\$1.93 Clarostat

POSTPAID

In 5 complete turns of the knob, the resistance of this instrument can be varied from practically zero to 5,000,000 ohms—thus it can be adapted for practically any purpose where a variable resistor is called for. Although the resistance is variable at will, it is positive once set. The Clarostat is extremely useful in "B" eliminators, where it is used to reduce the voltages for the Detector and R.F. tubes.

Connected across the secondary of the 2nd stage audio transformer, it will eliminate all raspy noises, and eliminate distortion. Connected in the R.F. plus "B" battery lead, it will very admirably control the oscillations in the R.F. stages. Connected across a fixed tickler coil, it will control the regeneration therein. Can be used in resistance coupled amplifiers, with pronounced success, as the resistance required therein can be varied for best results. Encased in a compact insulated shell, and is equipped with a bakelite knob with engraved white arrow thereon.

No. 9983 **\$1.93**



Aerovox "B" Eliminator Filter Blocks

\$5.95
POSTPAID

Aerovox offers a very high quality filter block at a modest price due to the large sales enjoyed therefrom. The Rasco guarantee is a further assurance of the 100% efficient performance at all times possible with these blocks. Each one of them is tested at 100 volts D.C. Encased in an attractively finished metal case. The terminals are plainly marked, and are flexible for direct connections to proper instruments. Most compact blocks made.



No. 9880	Consists of 2-2-8 Mfd. Filter Condensers	\$5.95
No. 9881	Consists of 2-2-8-1 Mfd. Filter Condensers	\$6.70
No. 9882	Consists of 2-2-8-1-1 Mfd. Filter Condensers	\$7.47
No. 9883	Consists of .1 and .1 Mfd. in Series (Buffer Condenser)	\$1.08

Aerovox "B" Eliminator Filter Condensers

Where it is desirable to mount the various capacities of filter condensers in mechanically convenient assembly, rather than have them all self-contained, the following condensers are ideally suitable. Each one tested to 100-volt D.C. breakdown. Flexible connection leads. Metal cased.

No. 9884	1 Mfd.	\$0.49
No. 9885	.25 Mfd.	\$0.58
No. 9886	.5 Mfd.	\$0.73
No. 9887	1.0 Mfd.	\$1.09
No. 9888	2.0 Mfd.	\$1.54
No. 9889	3.0 Mfd.	\$2.59
No. 9890	4.0 Mfd.	\$3.39

Notice

By connecting any two like condensers in parallel, the micro-farad capacity is doubled, thus two 4 Mfd. so connected will be the equal of an 8 Mfd. condenser.

For Power pack filter condensers, the voltage test must withstand 750 volts D.C. For such condensers, add 50% to above listed prices, specifying all details in your order.

Crescent Lavite Resistances

\$1.48
POSTPAID



These resistances are truly laboratory products and in fact, almost every broadcasting station employs them for the speech amplifier gain control. They are non-inductive and promote distortionless amplification in Resistance Coupled Amplifiers. Guaranteed to remain constant and noiseless.

No. 9610	12000 ohms	\$1.48
No. 9611	42000 ohms	\$1.48
No. 9612	50000 ohms	\$1.48
No. 9613	100000 ohms	\$1.48

Aerovox Lavite Resistances

Dependable and accurate. Will carry 10 watts, and will fit any standard grid leak or resistor mount. Can be supplied in the following sizes, laboratory tested: 2,000, 5,000, 10,000, 15,000, 20,000, 25,000, 30,000, 50,000, 75,000, 100,000, 200,000, 250,000, 500,000 ohms. Kindly state which type you are ordering.

No. 8939 Each. Any Resistance. **\$0.88**

Thordarson Power Compacts

\$10.88

The wonderful and extremely useful possibilities of power pack amplification devices, with built in "B" battery eliminators, similar to the FACENT POWER-FORMER and the POWERIZER described elsewhere in this catalogue, has doubtless convinced you that it should be used in conjunction with your Radio receiver—but perhaps you would rather assemble your own Power Pack and "B" battery eliminator incidentally, there are only 11 wires to connect!) deriving therefrom a valuable fund of knowledge, and the praises of whom- ever may listen to its performance. The Thordarson Power Compacts are symbolic of their high standards of electrical efficiency, mechanical perfection, and pleasing



No. 9038 Power Compact R-171 **\$13.95**

Contains a power supply transformer for full capacity operation of Raytheon B11 rectifier, 2 filter chokes of 80 milliamperes capacity, a five-volt center tapped filament supply for one UX 171 power tube, and 2 buffer condensers—all in one compound filled steel case. Equipped with 4-foot cord and separable plug for attachment to the 110-volt, 60-cycle light circuit. Shipped express collect. Dimensions 3 3/4 by 5 1/2 by 6 inches high overall.

Maximum Voltage Output

The voltage table below represents the maximum voltage output of the B-supply, using the power tube U. X. 171 on the last stage. The average current drain of a normal set with the power tube is approximately 40 milliamperes. The C bias for the power tube is automatic, varying proportionately and directly with changes in the plate voltage.

Total Output M. A.	Total Output Volts	2000 Ohm C Bias Volts	171 Tube Plate Voltage
40	225	45	170
50	255	55	190
40	275	60	205
30	300	65	225

No. 8924 Power Compact R-210 **\$18.45**

Contains a power supply transformer for full capacity operation of the UX 210-B rectifier furnishing 100 volts to the plate of the power tube UX 210, 2 filter chokes, a 7 1/2-volt center tapped filament supply for one UX 210 power tube and all intermediate voltage—all in one compound filled case. Equipped with a 6-foot cord and separable plug for attachment to the 110-volt, 60-cycle light circuit. Dimensions 3 1/2 by 5 3/4 by 6 1/2 inches high overall. Shipped express collect.

No. 8926 R-198 Power Amplifier **\$10.88**

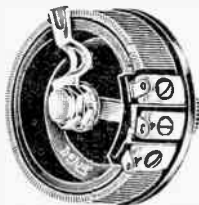
Supply Transformer
Furnishes power for both plate and filament of power tubes UX 210 or CX 310. Supplying 7 1/2 volts for the filament and 100 volts for the plate. In addition the amplifier supplies "B" voltages for the complete receiver. Core clamped and sealed to prevent hum. Dimensions 4 by 5 by 3 3/4 inches high. Weight 9 1/2 pounds. Shipped express collect.

De Jur Power Rheostat

\$1.78

POSTPAID

This rheostat was designed for a large current carrying capacity. It has a large Bakelite base, 2 3/4-inch diameter, and has a single-hole mounting. The resistance element ranges from 1 to 2000 ohms, its variation furnishes the required negative grid bias to power amplification tube.



\$1.78

No. 9643.....

Tubes for Power Pack "B" Eliminators and Power Amplification Stages

U. X.—Made by Radio Corp. of America.
C. X.—Made by General Electric Co. for Cunningham.
No. 8915 U. X 171 or C. X 371 Power Amplifier. \$5.85
5-volt, .5 amperes—for up to 180 volts.
No. 8917 U. X 210 or C. X 310 Power Amplifier. \$8.65
6.0 to 7.5 volts—1.25 amperes (max.)
Can be used up to 450 volts. For Power Packs.
No. 8916 U. X 216B or C. X 316B Single Wave Rectifier \$7.35
7.5-volt; 1.25 amperes. For single wave rectifiers in "B" battery eliminator circuits—heavy duty type.
No. 8918 U. X 213 or C. X 313 Full Wave Rectifier \$5.85
5 volts, 2 amperes. Will deliver full wave rectification up to 65 milliamperes, the rectified voltages not to exceed 220 volts A. C.

Raytheon Tube

\$6.00

POSTPAID

Until the advent of the Raytheon Tubes, the success of "B" battery eliminators was never a certainty, but to-day, practically 7 out of every 10 eliminators, assembled or home built, use this tube exclusively for the rectification of the alternating current. This tube gives full double rectification.

No. 8921 Raytheon **\$6.00**

"B" Tube.....
Delivers about 1/3 more output voltage than No. 9790 Raytheon tube.

No. 9790 Raytheon **\$6.00**

"B" Tube.....
No. 8922 Independent Double Rectifier Type **\$4.95**
Bulb



Thordarson

"B" Eliminator Transformer

\$6.35

POSTPAID

For those Radio fans who will build their own "B" eliminators we heartily recommend the Thordarson Raytheon tube type transformer, solely because of its recognized efficiency. The 110-volt primary is supplied with a 6-foot cord and separable plug for attaching to the lighting circuit. The secondary is tapped at the exact electrical center. There are provided two secondary voltages, to suit the particular requirements of any receiver as to its current consumption. These voltages are 235 "Low" and 285 "High." The transformer itself is mounted in a compound filled steel case, and will not heat up in continuous service. Conservatively rated. Dimensions are 4 1/4 inches by 3 3/4 inches by 3 inches high.



No. 9647..... **\$6.35**

UX213 Transformer

This transformer supplies necessary voltages for operating B-eliminators employing the U. X. 213 or C. X. 313 full wave rectifying tube. Eliminators built with this transformer will satisfactorily furnish B voltage up to 180 volts with sufficient capacity to operate any receiver. Dimensions: 4 1/2 by 3 1/2 by 3 3/4 inch. Weight 6 lbs.

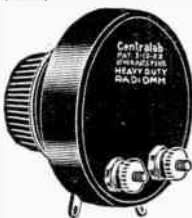
No. 8925 R-197 B-Eliminator **\$6.33**
Thordarson Transformer.....
Shipped Express Collect.

Heavy Duty Centralab Radiohm

\$1.89
POSTPAID

These variable resistors are recent additions in the family of Centralab products, and have been especially produced and offered to the public to answer a demand for a heavier carrying capacity resistor for "B" battery eliminator work. The Raytheon Laboratories have placed their stamp of approval on them, and for good reason, too. Although they are variable, the voltage is constant at any setting, and thus, the panel to which they are affixed can be calibrated for various voltage readings. Insulation is tested to withstand 1,500 volts.

No. 9678 0 to 50,000 ohms. Principally used as the detector voltage control. \$1.89
No. 9679 0 to 10,000 ohms. Used as the intermediate voltage control. \$1.89
No. 9029 2,000 ohm potentiometer, for providing "C" bias from any eliminator. \$1.89



Centralab Radiohm

\$1.79
POSTPAID

The Centralab Radiohms are constructed in the same manner as our No. 9029 Modulator, but has only two connections. This instrument has lately sprung into popular favor due to its efficiency when used as an oscillation control in any tuned radio frequency circuit. Connected in the "B" battery circuit feeding the R.P. tubes, it effectively



and noiselessly diminishes the voltage to a point or setting just before the tubes begin oscillating. Our No. 9683 is recommended for this purpose. It can also be used to control the regeneration in a fixed tickler circuit. Single hole mounting. Dial has an attractive white arrow engraved thereon.

No. 9680 2,000 ohms maximum. \$1.79
No. 9681 50,000 ohms maximum. \$1.79
No. 9682 100,000 ohms maximum. \$1.79
No. 9683 200,000 ohms maximum. \$1.79

Centralab Modulator

\$1.79
POSTPAID

For a volume control in any audio frequency amplifier, there is no equal to the 500,000 ohm Centralab Modulator, for it is a non-inductive NOISELESS variable resistance, smoothly variable from zero, affording the only satisfactory means of regulating the output of the amplifier, with improved quality of reproduction, from a whisper to maximum loudness. The outer shell is Bakelite, encasing the element in a novel dust-proof transparent case. Single hole mounting. Same size as a potentiometer or rheostat.



No. 9686. **\$1.79**

Centralab Potentiometer

This potentiometer is of the same construction and principle as our No. 9686 Modulator.
No. 9684 400 Ohms \$1.59
No. 9685 2,000 Ohms \$1.79

Bradleyohm Type E

\$2.21
POSTPAID

This heavy duty variable resistance is ideal for varying the output of any "B" battery eliminator, so as to obtain a lower reading voltage for the detector tube, or any intermediate voltage, using one Bradleyohm for each tap desired. It will successfully dissipate up to 4 watts but must not be used where the full voltage exceeds 250. Fluted knob provided. Top and bottom is heavily nickel plated brass, with white porcelain walls. Terminal screw connections. Dimensions: 2 inches long, 1 inch wide and extends about 1 1/2 inches from rear of panel. One hole mounting on panel or baseboard mounting.



No.	Type	Range	Ohms	Each
9922	E	1 to 100	.....	\$2.21
9923	1E	100 to 5,000	.....	\$2.21
9924	5E	1,000 to 50,000	.....	\$2.21
9925	10E	10,000 to 500,000	.....	\$2.21
9926	25E	25,000 to 1,500,000	.....	\$2.21

Ward Leonard Vitrohm Resistor Kit

\$7.95
POSTPAID

For use in all "B" battery eliminators, Power packs, transmitting sets, etc., where the highest grade of resistor is essential. The resistors are wound with wire only half as thick as a human hair, and then covered with vitreous enamel. Will never change in value, and will dissipate from 2 to 8 watts continuously, thus can be successfully used with voltages as high as 500 volts surging through them, down to 90 and 180 volts. The 5000 ohm resistor measures only 2 inches long. Soldering lugs provided. Detailed instruction sheet with diagrams show use to supply intermediate voltages in eliminators, etc. The 8 Vitrohm Resistors in the Kit have the following values:

1	750 Ohm
3	1500 Ohm
1	3000 Ohm
1	3500 Ohm
2	5000 Ohm

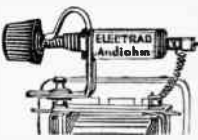
They are hard to break but easy to use.
No. 9935 Complete, with 8 Resistors **\$7.95**



Audiohm

\$1.38
POSTPAID

Raspy or nasal reproduction in your loud speaker can frequently be traced to the secondary of your 2nd stage a u d i o transformer. By shunting the Grid and Filament terminals thereof with this variable resistance, you can adjust the output in your speaker to your own satisfaction. A cleverly arranged mounting bracket and flexible coil spring permits the immediate installation of this device on the secondary of any transformer, without any drilling, special tools or soldering.



No. 9899. **\$1.38**

Gentlemen:
I have already received a supply of Rasco parts from you which I found to be very satisfactory.

F. A. LEITH,
92 Avenue A. Bayonne, N. J.

Gould Unipower "A" Battery from Your House Current

\$33.85

By simply plugging in to your house current and connecting the "A" positive and negative "A" battery leads on your Radio to this instrument, you have a perpetual source of "A" battery current. This is accomplished by the use of a Gould Storage Battery (and there is no finer storage battery made), a genuine Balkite Trickle Charger with variable charging rates for the No. 9861 and an Automatic Relay switch, all encased in a handsome black rubber case. The moment your receiver switch is turned off, the relay switch is actuated, causing the Trickle charger to charge back into the battery the current you may have consumed. Thus, at all times your storage battery supply is up to full capacity, very essential for clear reception—extreme volume and long distance results. The moment your receiver switch is turned on, the relay disconnects the charger, eliminating every trace of any hum. Has gas-tight cover, with special vent tube. Can be set in battery compartment of console cabinet, or left on the floor—its appearance will not mar the room. The No. 9861 also controls a "B" battery eliminator, if one is to be used. Shipped express collect. Acid-proof heavy flexible rubber covered wire and plug included. Installation takes only a few minutes. Detailed instructions furnished.

No. 9861 Model AC 6. For 6-volt tubes. 11 1/2 inches long, 7 5/16 inches wide and 10 inches high. For 110-volt, 60-cycle lines. \$39.45

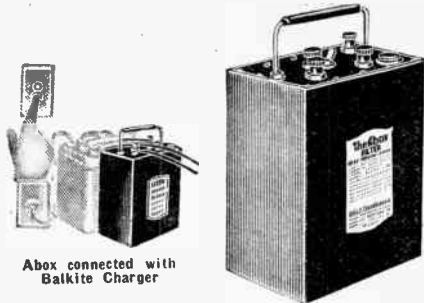
No. 9862 Model AC 4. For 4-volt 193 tubes. 8 1/4 inches long, 5 inches wide, 8 3/8 inches high. For 110-volt, 60-cycle lines. \$33.85

No. 9863 Model AC 6A. Same as No. 9861, but for 110-volt 25-50 cycle A.C. lines. \$44.45

No. 9864 Model AC 4A. Same as No. 9862, but for 110-volt 25-50 cycle A.C. lines. \$36.85



Abox Filter for "A" Battery Eliminator



Abox connected with Balkite Charger

\$18.83

The Abox filter is not a storage battery—it is not a trickle charger and it is not an "A" battery eliminator in itself. It is used in conjunction with a 2 1/2 ampere rate Balkite charger, with which it will deliver steady 6-volt current with no trace of an audible hum, and is always at your service, no matter how long it may have stood idle. The moment your current is turned off from your Radio tubes, the Abox filter stops drawing current from the house line. Only about half the size and weight of a 100 ampere hour storage battery. In theory, the house current flows to the 2 1/2 ampere Balkite charger, within which it is reduced in voltage to about 6 volts, and converted into direct current, through the electrolytic action within. But, at this point, this current has every trace of the A. C. hum present, and it is the SOLE PURPOSE OF THE ABOX FILTER TO THOROUGHLY ELIMINATE THE A. C. HUM, WHICH IT DOES MOST EFFECTIVELY, passing on to your radio receiver a pure supply of 6-volt current, for up to 6 201A 1/4 ampere tubes. Only requires DISTILLED WATER—NO CHEMICALS—NO SALTS—NO "TRICKLE" COST. It can also be used with a 2 ampere Tungar bulb type charger, following special instructions furnished, but is not recommended with any vibrator type charger. Very ruggedly constructed. Black metal case. Binding post connections. Takes a few minutes to install. Shipped express collect

No. 9615. \$18.83

Brach Controllit



\$4.95 POSTPAID

If you employ a trickle or regular rate charger and wish to automatically disconnect same while your receiver is in operation, and then, to automatically switch it back to its charging position, the Brach Controllit will solve the problem. Your battery switch or rheostat, when turned on, automatically causes this relay to SWITCH OFF, and vice versa. Can also be used with B eliminators. No alterations to your set required—a few minutes to connect. This switch has made possible an "A" battery current supply direct from your house current, in conjunction with a trickle charger and storage battery.

No. 9697. \$4.95

Automatic Control Switch

\$1.79 POSTPAID

Connect this switch to your receiver, Trickle charger and "B" eliminator. Turning on the bulbs in your receiver will automatically cause this switch to disconnect the trickle charger, and vice versa—will also control them independently. Or, "B" eliminators can be controlled in same fashion—in fact, it is very essential with every "B" eliminator. Instructions cover varied uses. All parts sealed in durable black porcelain base—very attractive. 3 inches in diameter.



No. 9005. \$1.79

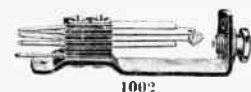
Majestic "B" Battery Eliminators

\$30.95



A very widely advertised and highly recommended "B" Battery eliminator. The Majestic Super B (No. 9939) will deliver a maximum voltage of between 150 and 180 volts to receivers using as high as 12 tubes. Is provided with a separate switch to control the current from the light socket. Four terminals are provided, reading: Negative, Detector (adjustable), Intermediate (Adjustable) and Amplifier. A special switch controls the "Low" or "High" output, offering a wide range of voltages. The Majestic Master B will deliver between 150 and 180 volts at 60 milliamperes, assuring more than ample output voltage to operate a 171 or 371 power tube. This model has an additional adjustable resistance, for controlling all the voltages. Both eliminators are supplied complete with Raytheon tube, plug, cord, directions, etc. Shipped express collect. Shipping weight about 25 pounds.

No. 9939 Super B. \$30.95
No. 9940 Master B. \$35.75

"Rasco" Jacks

1002



1000



1004



1001

We offer to the radio fraternity the Rasco line of plugs and jacks. After having studied all the other plugs on the market, we have eliminated all the disadvantages of the poor ones and have incorporated in our all of the good points of the best plugs, and have added several improvements of our own. By having our own metal factory, which has for twelve years made plugs and jacks for the Postal Telegraph Company, we are in a position to sell these plugs and jacks at a lower price than those of high quality offered by other reputable concerns. Rasco jacks are made of the best material that money can buy, and the construction is correct, behind it being the soundest engineering practice. The springs are very heavy and the tension is right. The jacks are rugged, have positive action at all times, while the pure silver contacts are very large, insuring absolute electrical contact. The construction of the bracket is brass, heavily nickel-plated and buffed.

No. 1000 4 Springs, double circuit. Price \$0.35
 No. 1001 3 Springs. Price 0.35
 No. 1002 Automatic, 5
 Springs 0.49
 No. 1004 1 spring, open circuit \$0.25
 No. 1005 2 spring, closed circuit 0.30

Jack Nameplates

Set of 13. Maybe mounted behind the hex nut of a jack to indicate the purpose of the jack. Silver or gold, finished brass with black lettering, most attractive and useful.



Thirteen titles: Detector Jack, 1st Stage Jack, 2nd Stage Jack, 3rd Stage Jack, External Jack, Input Jack, Output Jack, Loud Speaker, Phones, Loop, Aerial, Antenna, Ground, Voltmeter, and "On and off."

No. 9362 Silver finish ea. \$0.05
 No. 9399 Gold finish ea. 0.05

"Rasco" Cord Tip Jack

\$0.15
POSTPAID

This specialty has been developed by us as we have realized for a long time that experimenters require something better than binding posts for attaching telephone cord tips to instruments. It takes up less room than a binding post, and when attached to a panel does not extend more than 1/8". It is particularly useful in connection with instruments where neat appearance is desired, and not much room can be spared. Right mechanically as well as electrically. The novel feature of this jack is that the connecting wire is attached to the eccentric hexagon nut by means of a small screw which fastens on the nut. No soldering is necessary, and there are no complications. Simply drill a hole in your panel, insert the jack, then by means of pliers screw up the hexagon nut on the threaded shank. The connecting wire is then attached to the screw in the hexagon nut. This finishes the job.



The four slots of the jack give enough spring tension to grip the cord tip tightly, but at the same time do not give too much friction so the cord will be pulled out from the cord tip, as is the case with many other similar devices. The construction is such that almost the entire part of the large shank of the cord tip extends from the panel so the fingers pull on the cord tip itself, not on the cord. Once you have adopted the RASCO Cord Tip Jack you will always use it. Will take any standard cord tip.

No. 1500, Cord Tip Jack (patent applied for) 2 for. \$0.15

Yaxley Battery Switch and Pilot Light

\$1.09
POSTPAID

With the use of this combination switch and pilot light there is no danger of your leaving the current on when you cease using the receiver. It does not take long to save its cost in current saved. The light from the lamp shines through the red jewel set in a hole in the panel. Switch is snap-off type. Complete with switch, 6-volt lamp and jewel.



No. 7921 Complete \$1.09
 No. 7922 Pilot light only, including Jewel and lamp \$0.67

Pacnet Battery Switch

\$0.36 POSTPAID



Produced under highest standards of workmanship. Its action is positive. Solderless contact screws used.

No. 7986 \$0.36

Pilot Switch

\$0.40
POSTPAID



Compact, well designed, well constructed. Only Bakelite and metal used. One hole mounting. Makes or breaks contact with a quarter turn. Binding post connections means no soldering. Dial plate furnished.

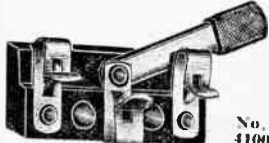
No. 9464 \$0.40

Carter Lock Switch

\$0.63
POSTPAID

Lengthens life of tubes and batteries by reducing chance of accidentally leaving the tubes lit or tampering. A quarter turn of the key lights the tubes. When key is not in, the set cannot be operated. Neat, small and durable.

No. 9378 \$0.63

Throw Switch

\$0.25
POSTPAID

Mounted on composition block. Solid composition handle. Spring binding posts which give quick and better contact than the ordinary kind and they stay tight.

No. 4100, Single pole, single throw switch \$0.25
 No. 4101, Single pole, double throw switch 0.35

"Rasco" Lubricated Panel Switch



\$0.29
POSTPAID

After fussing around with switches that came loose, and otherwise did not stay put, had loose contacts, etc., we designed the "Rasco" switch, which we claim to be superior to anything offered heretofore.

Our patent spring fork holds the switch handle always under a uniform tension, at the same time it insures the best contact possible. The double-leaf springs are nickel plated and polished and in addition we are now using the new winging contact, which covers every point of the switch point.

The ritted ribbed bushing, forced into the wood or bakelite, stays there forever—cannot come loose. Vastly better construction all the way through.

The lock fork assumes three differ-

ent positions to accommodate the switch to various thicknesses of panels. No screw threads used in bearing. Our bearing is a true mechanical machine bearing; no threads to wear and wear. Then comes the best improvement, the groove for vaseline or heavy lubricating oil. This makes it the only lubricated switch on the market. You will be surprised at the silent, smooth action. You have never experienced anything like it. The price is so low it must appeal to anyone. Blade radius 1 1/2"

No. 1921 \$0.29

Panel Switch Lever



New style switch lever with lock fork. Impossible not to make positive contact at all times. The blade radius is 1 1/4". Blade is nickel plated and polished. Fork is phosphor bronze. The lock fork holds the screw (in which it rotates), securely.

No. 200 Complete **\$0.23**

Weston Plug

\$0.59 POSTPAID



This is the justly celebrated Weston plug. On the market for years and always giving perfect satisfaction. Cord tips held firm. Cannot pull out unless released by pressure on spring which releases the grip.

No. 9565 \$0.59

Bakelite Plug

\$0.28



POSTPAID

Moulded plug, efficient operation, good appearance, perfect electrical contact. Cord tips easily inserted in this connector. Value high, price low.

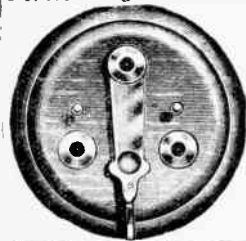
No. 9437 \$0.28

Wood Base Switch

\$0.10 POSTPAID

Low price set well made and equipped with spring binding posts in the back for quick connections. Will do anything any other wood base switch will do.

No. 707 Single Point \$0.10



Battery Switch

\$0.15

POSTPAID

Same as No. 707 except equipped with double point. It is a well made switch and well worth the money.

No. 888 Double Point \$0.15

Nickel Pointer

Made of brass and is nickel plated and highly polished. Hole clears 8/32".

No. 726
\$0.05



Switch Lever



Brass, nickel plated and polished. It is used on our No. 200

switch. The new thing about it is that it has a central elongated slot which makes it possible to use it on a radius from 1/4" to 3/4", therefore adjustable. Entirely nickel plated and polished.

No. 728 **\$0.06**

Patent Auto Plug

\$0.51 POSTPAID

Entirely shock-proof. Entire length of cord tips is incased by plug; shell and no metal parts exposed. Cord tips are quickly connected and held with a biting grip. Cannot pull out unless buttons are pressed. Fairly indicated by red and blue push-buttons. Shell is genuine bakelite. No screws. Nothing to work loose or cause trouble. No. 9363 Nickel-plated metal parts..... \$0.51
No. 9400 Gold-plated metal parts..... 1.00



"Rasco" Phone Plug



A solid composition shell plug which usually sells from 75 cents to \$1.00. Nicely finished. Mechanically and electrically right. Patented cord tip holder which holds tips tight. Size over all "x1".

No. 1030 **\$0.23**

Switch Blade



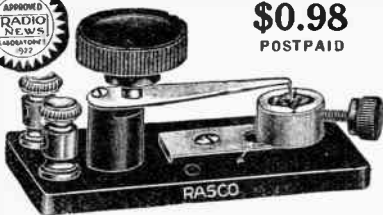
Made of brass, nickel plated and highly polished. Radius 1 3/4".

No. 727 **\$0.06**

"Rasco" Crystodyne Detector

(Patents Pending)

\$0.98
POSTPAID



For the Famous Oscillating Crystal Circuits

The invention of the oscillating crystal by Mr. O. V. Lossev has created a sensation in radio circles. The following is an abstract from Radio News, Mr. Hugo Gernsback, Editor. Has this to say about it:

"We are happy to present to our readers this month an epoch-making radio invention that will be of the very greatest importance within the next few years. It is the invention of a young Russian inventor, Mr. O. V. Lossev. It is now possible to do anything and everything with a crystal that can be done with a vacuum tube. The crystal now not only detects but oscillates and can, therefore, be used for amplifying purposes in both radio and audio frequency circuits. It has already been used to transmit C. W. While we do not look forward to having the crystal displace the vacuum tube, nevertheless it will become a very powerful competitor of the tube. We predict great things for the new invention."

Here is a detector which has been especially developed by us for the new Crystodyne circuits. This detector while using the natural mineral zincite can be used with any other crystal as well. Several unique features are embodied in this detector. To begin with it is the only detector that has a sliding crystal cup with perfect contact arrangement and which cup not only slides but rotates with an eccentric motion. By means of the small knob the cup slides easily so that any point of the crystal can be brought into contact. A new crystal can be inserted immediately by unscrewing the small knob. The contact point which at the same time forms the cat-whisker is made of spring steel. The combination of steel-zincite is the only one that was found practical by Mr. Lossev for the oscillating crystal. Note the micrometric adjustment that can be made by the large knob bearing against the steel spring. This raises and lowers the steel point to the finest possible degree. The base is of moulded bakelite, all parts nickel plated and polished.

No. 6900 Crystodyne Zincite Detector

with Mounted Zincite Crystal\$0.98

No. 6901 Natural Zincite Mounted Crystal

especially tested for Crystodyne work,
fits any crystal cup\$0.10

"Rasco" Baby Detector

GALENA PATENT
NICKEL DETECTOR
CUP AND BINDING
POST

SLIDING HARD
RUBBER KNOB

NICKEL HOLDER
AND BINDING
POST

SOLID
COMPOSITION
BASE

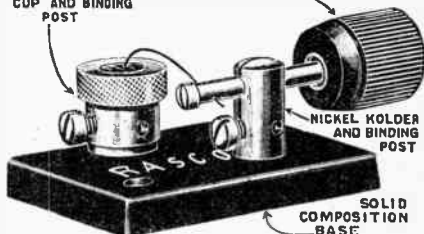
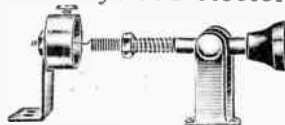


Illustration is full size. Base is solid, black composition. Mounted on same is a nickel holder and binding post which holds a fluted hard rubber knob with its sliding rod member.

This rod turns in slotted holder, and can be pushed from one side to the other to move the cat-whisker wire. Cat-whisker is attached by a screw so it can be taken off when desired and replaced. The outstanding part of the Detector is the patented nickel detector cup and binding post. The knurled cup unscrews and you place the galena crystal in the cup, then replace the knurled cap and the galena crystal is held secure. The crystal can be renewed in two seconds. Wire connections can be made quickly. Metal highly nickel plated and polished. Complete in all details. Furnished complete with cat-whisker and one galena crystal. Sizes overall: 1 1/2" x 1 1/2".

No. 1898 Detector\$0.40
No. 1899 With Galena and Radiocite
Crystals 0.50

Crystal Detector Stand



\$0.35
PREPAID

The one which we offer is perhaps the best cat-whisker that money can buy. Entirely nickel plated, all brass parts. It takes the swivel adjustment, of the ball-socket type. It is possible to move the arm in every direction.

No. 1350 Unassembled, complete,\$0.35
each

Patent Detector Stand



Dust-proof and easily adjusted. The crystal is always readily accessible. Top and base are high-grade moulded insulation. Metal parts are highly nickelled. Ideal for reflex circuits, for when once adjusted it does not easily jar loose.

No. 9374\$0.40

Permanent Carborundum Detector

\$1.29
POSTPAID



Heavy five-pound contact pressure makes this detector permanently sensitive. Carborundum manufactured by the Carborundum Co., in the great electric furnaces at Niagara Falls, is the only rectifying substance that can be used with a heavy pressure contact; consequently, it is the only material suited for permanent detectors. Built solidly and holds its adjustment indefinitely. Guaranteed not to "burn out". When used with the controlling unit, Carborundum Detectors excel all other crystals in permanency, efficiency, selectivity, sensitivity, volume and perfect adaptability to any set.

No. 9340\$1.29

Radiocite Crystal

We recommend Radiocite as the best all-around radio crystal in existence. The size of this mounted crystal is 1/2" x 1/2". It contains a piece of the best tested radiocite. The crystal will fit any standard cup.

No. 317\$0.25

Crystal Cups

\$0.25
POSTPAID



This crystal cup is well made and has a knurled set screw. Nickel plated and polished; complete with screw and nut. Fits all standard mounted crystals.

No. 318\$0.25

Minerals and Crystals

We are headquarters in the United States for all kinds of minerals and crystals. We carry a very large stock of all the minerals which we list below. Our long experience in this line is a guarantee that you will get the correct crystal, that is sensitive. All our minerals and crystals come direct from the mines, and we only accept such material that we know has passed rigorous tests for certain characteristics which we know from experience make for high sensitivity. You will find that our crystals, even if sold at a very low price, are superior to many of those so-called tested ones on the market today, which as a rule are not tested but are simply crystals taken as they come.



Galena (Argentiferous)

This mineral is thought by many to be one of the most sensitive discovered. Used to best advantage by having a fine phosphor bronze or brass wire spring, size about No. 26 B. & S. Press very lightly on the Galena. We carry only a specially selected argentiferous crystal grade. No. 2001 Per oz.\$0.25

Bornite

Very popular abroad. Can be used with a phosphor bronze contact wire, or with zincite. Marvelously sensitive.

No. 2000 Per oz.\$0.45

Copper Pyrites

Very sensitive and very stable. Even sensitiveness along whole surface. Not easily jarred out. Use phosphor bronze contact wire. Guaranteed 100 Per Cent. Pure. No. 2002 Per oz.\$0.45

Zincite

The aristocrat of all wireless minerals. Too well known and too far famed to need to praise it here. Undoubtedly the most sensitive of all crystals. Guaranteed 100 Per Cent. Pure.

No. 2003 per oz.\$1.75
No. 2004 ¼ oz. 0.45

Silicon

There are two kinds: Silicon crystals and fused Silicon. The former, manufactured in this country, is absolutely unfit to use; the latter imported by us, is the only kind that should be used. It comes in chunks and somewhat resembles graphite. It is very hard and extremely brittle.

No. 2005 Per oz.\$0.45
No. 2006 ¼ oz. 0.20

Iron Pyrites (Ferron)

Our iron pyrites are all imported Spanish stock that may be used for years without deterioration. Very sensitive.

No. 2007 Per oz.\$0.40

Mineral Sets

No. 2010 Zincite and Copper Pyrites (Perikon), per set\$0.95

Mineral Assortment

Consisting of generous pieces of each of the six minerals and crystals shown on this page. An excellent assortment for the wireless experimenter. Each mineral in a separate box. No Radiocite supplied. No. 2025\$1.00

Galena Mounted Crystal

RASCO Galena Mounted Crystals are all tested. Each spot is sensitive. We use only striated (argentiferous) "steel" galena. No. 327\$0.15

"Rasco" Cat Whisker



\$0.05 POSTPAID

Made accurately of phosphor bronze spring wire, and specially recommended for use with our mounted crystals. So cheap that you will not wish to make your own after you have seen them. Can be either soldered to the adjusting screw or the conical wire can be slipped over the screw itself without soldering. No. 4420\$0.05

Selenium



\$0.50
POSTPAID

This metalloid is used for a variety of purposes, particularly to make selenium cells, etc. We carry only the chemically pure kind. Sold only in one ounce lots. No. 557 1 ounce\$0.50

Gentlemen:

I have sent you several orders in the last few months and have been pleased with the quality of the goods.

FRED COUSINS,

Moravia, Iowa.

Tested Radiocite



\$0.30
POSTPAID

The most famous crystal in existence. Used by U. S. Navy and all up-to-date Radio companies. The only crystal that does not wear out or burn out as do others; as sensitive as galena and more stable. Sold only by the piece; packed in tin foil in a wooden box.

No. 900 Per piece\$0.30

HERE IS AN INTERESTING FACT

At the head of our business are men of wide experience and good reputation for knowledge and skill in the radio field. The present management issued the first radio mail order catalog in the United States in 1904. Every man and woman in the organization, from the head engineer to the office boy, is hand-picked. The result is reflected in the superb quality of our products—which are so good that they can be sold on an unconditional guarantee of satisfaction or money back. The large volume of business per year reduces our overhead expenses so that it amounts to very little on each item we sell. This helps explain the wonderful values we give and why you save money in doing business with us.

Magnet Wire

The very best grade, sold only by the spool as offered here.

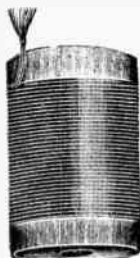
No. 2500, Double Cotton covered, 18 B. & S., 8-oz., spool \$0.10
 No. 2501, Double Cotton covered, 20 B. & S., 8-oz., spool \$0.12
 No. 2502, Double Cotton covered, 22 B. & S., 8-oz., spool \$0.16
 No. 2503, Double Cotton covered, 24 B. & S., 8-oz., spool \$0.18
 No. 2504, D.C.C., 26 B. & S., 8-oz., spool \$0.17
 No. 2505, D.C.C., 28 B. & S., 8-oz., spool \$1.03
 No. 2506, D.C.C., 30 B. & S., 8-oz., spool \$1.13

\$0.40 POSTPAID



Litz Wire

\$0.02
POSTPAID



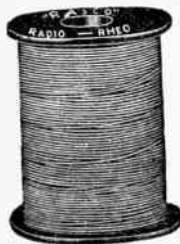
Litzendraht High Frequency Cable is used more and more for winding coils, and for radio instruments. Made of many thin enameled wires twisted into a thin cable. The difference in results between solid conductor and Litz cable is tremendous, and can not be appreciated till a trial has been made. No. 893 is used particularly for C. W. transmission. No. 323 and 830 are used in connection with vario-coupler rotors, variocouplers, bank windings, etc. The B & S size given is the size of the cable.

No. 323, 20 No. 38 wires stranded, Double white silk insulation. Equivalent to No. 25 B&S, per foot \$0.02
 Per 100 feet 1.15
 No. 890, Litz Wire; 10 No. 38 wires stranded. Double white silk insulation. Equivalent to No. 28 B&S, per foot \$0.01
 Per 100 feet 0.75
 No. 891, Litz Wire; 48 No. 38 wires braided. Double white silk insulation. Equivalent to No. 21 B&S, per foot \$0.03
 Per 100 feet 2.25
 No. 892, Litz Wire; 60 No. 38 wires cabled into 3 strands of 20 wires each; all cabled together. Double white silk insulation. Equivalent to No. 20 B&S, per foot \$0.01
 Per 100 feet 3.50
 No. 893, Litz Wire; 34 No. 28 wires cabled 6 strands of 4 wires twisted and separately silk insulated. Double silk insulated outside. Equivalent to No. 14 B&S, per foot \$0.12
 Per 100 feet 10.50

Single Green Silk			Enameled			
No.	Spool	Per Spool	B.&S.	Gauge No.	Spool	Per Spool
2507	4-oz.	\$0.50	20	2514	8-oz.	\$0.45
2508	4-oz.	\$0.55	22	2515	8-oz.	\$0.55
2509	4-oz.	\$0.60	24	2516	8-oz.	\$0.60
2510	4-oz.	\$0.65	26	2517	8-oz.	\$0.65
2511	4-oz.	\$1.05	30	2518	8-oz.	\$0.70
2512	4-oz.	\$1.30	32	2519	8-oz.	\$0.80
2513	1-oz.	\$1.85	36	2520	8-oz.	\$1.00
.....	.....	.....	38	2521	1-oz.	\$0.85
.....	.....	.....	40	2522	1-oz.	\$1.15

Rheostat Wire

\$0.01
POSTPAID



Designed especially for rheostats. A special grade that will not crystallize in use and will always keep clean and bright. The only wire for Rheostats. Resistance is 1 ohm. per foot. Not less than 25 feet sold.

No. 1650, per foot....\$0.01

Tinsel Cord

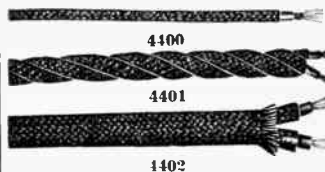
\$0.10 POSTPAID



Two tinsel conductors, each of 3 strands of tinsel, insulated by two cotton wrappings. The two conductors surrounded by cotton wrapping. One of the black wrappings has a tracer in color, for polarity. This cord is useful for extension purposes, to connect the loud speaker with instruments, etc., etc.
 No. 6450, per foot \$0.10

Flexible Silk-Covered Rubber Insulated Wire

\$0.02
POSTPAID



We list three styles, two of which are rubber insulated. These are not to be used for telephone receiver work. They are used to make temporary connections on instruments, and can also be used for carrying small amounts of current such as for lighting battery lamps, to connect the leads to the filament of Vacuum Tubes, etc. The Tinsel Cord can only be used for telephone work.

No. 4400, 1 conductor rubber insulated;
 14 No. 34 copper wires, green silk cover, per foot \$0.02
 No. 4401, 2 conductors rubber insulated;
 14 No. 34 copper wires, silk braid cover in green, per foot \$0.05
 No. 4402, 2 conductors Tinsel Cord. Each conductor insulated with cotton braid, the whole outside covered with green Silk Braid. Used on telephones, per foot \$0.06

Extension Cord



To enable you to place your loud speaker or phones at a distance from the receiver. Fine quality. Connecting plugs included.

- No. 9491 20 feet.....\$0.89
- No. 8818 30 feet.....\$0.99
- No. 8819 40 feet.....\$1.09
- No. 8820 50 feet.....\$1.19

5-6-7-8-9 Wire Cable



\$0.09
POSTPAID

Ideal for connecting receiver to battery placed at a distance as in basement. Insulation of each wire marked so you can distinguish instantly. Comes in any length up to 100 feet.

- No. 9494 Per ft. (5 wires) \$0.09
- No. 8806 Per ft. (6 wires) \$0.12
- No. 8807 Per ft. (7 wires) \$0.15
- No. 8808 Per ft. (8 wires) \$0.18
- No. 8809 Per ft. (9 wires) \$0.19

- No. 8814 (6 wires)\$0.85
- No. 8015 (7 wires)\$0.91
- No. 8016 (8 wires)\$0.97
- No. 8017 (9 wires)\$1.03

Bus Bar Wire

This copper, tin-plated and polished bus bar wire is square and measures 1/16" x 1/16". Very easy to solder, because the wire is tinned already. Comes only in 24" length. No. 6400 10 lengths.....\$0.20
No. 6402 Round, 10 lengths.....\$0.20

Rubber Covered Hook-up Wire

Extensively used for wiring sets. Consists of a stranded copper wire size 18, covered with layer of gray black rubber. Smooth, neat appearance. Flexible and easily handled.

No. 4426, 25 ft..... **\$0.44**

When Comparing
Prices — Remember
we prepay transportation
on practically all
items—a saving of
more than 10%

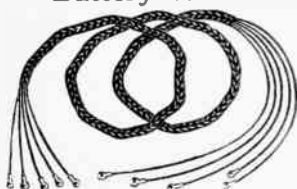
Battery Cable



Consists of five wires of different colors of insulation for convenience and accuracy in connecting your set to the batteries. Rubber insulation covered with woven thread. Highest grade. 2 large storage battery clips furnished.

No. 9003 **\$0.79**

Battery Wire Assembly



\$0.47
POSTPAID

Make your A and B battery connections quickly and easily. Made of different colored rubber and cotton covered insulated wires woven together. Eliminates unsafe and unsightly wiring as when using the old style wires with their ragged appearance. Five feet long. Reaches from table to floor. Can be used with any type of cabinet. Lugs on one end.

- No. 9224 (5 wires)\$0.47
- No. 8010 (6 wires)\$0.53
- No. 8011 (7 wires)\$0.59
- No. 8012 (8 wires)\$0.65
- No. 8013 (9 wires)\$0.71

10-Foot Length Cable

Very indispensable if you intend to install your batteries in a closet, or in the cellar, another room, etc. Length 10 feet.

- No. 8821\$0.94
- No. 8822\$1.06
- No. 8823\$1.18
- No. 8824\$1.30
- No. 8825\$1.42

Phone Cords

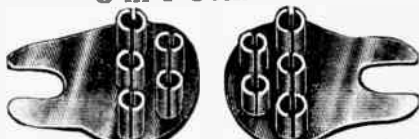


\$0.31
POSTPAID

We carry two styles of telephone cords, as illustrated, one 5 ft. long, the other 3 ft. Made of best tinzel throughout. We do not carry the cheaper and worthless kind of cord, where stranded wire is used, for the reason that constant bending of 'phone cords destroys and breaks these wires in short order, giving rise to terrific amount of 'phone noises. Black only, mercerized cotton. The three-foot cord comes with 2 loops and 2 tips. The loops can be used on 'phones that are made for the tip cord. All that is necessary to do is to flatten the metal loops by means of a pair of pliers, which make a tip out of the loops.

- No. 5500 5 ft. with 6 tips, each\$0.31
- No. 5501 5 ft. with 2 tips and 4 loops, ea. 0.31
- No. 3300 3 ft. with 2 tips and 2 loops, ea. 0.16

5-in-1 Connector



With this ingenious and inexpensive device attached to the positive and negative phone binding posts you can use from one to five pairs of phones on any radio receiver. The spring sockets grip any phone tip. Loose contact is impossible. Works while loud speaker is in operation. Licensed under Gernsback Patent No. 1,557,248.

No. 7117, Pair **\$0.23**

Yaxley Cable Connector Plug



\$3.27
POSTPAID

This battery cable operates on the same principle as any plug and jack—you simply insert the plug, and that is all there is to it. There are 7 vari-colored strands of insulated stranded copper wire, each one of them plainly designated with an engraved metal tag, corresponding with prong to which it makes contact. The connecting plate is mounted, as a rule, on the rear of the base board, sub panel, etc. The plug can be inserted or removed at will. As plug can only be inserted one way, there is no chance of making an error. The ends of the cable and prongs are tinned, to facilitate soldering thereto. The plug proper is made of genuine bakelite, richly polished. Contacts therein are phosphor bronze, and the contact prongs are brass. Length of cable 5 feet. Your first thought on adapting this device to your Radio is how you could have ever done without it.

No. 9708..... **\$3.27**

Yaxley Multiplug

\$2.19
POSTPAID

This device fits into the space occupied by any standard house current outlet box—or it may be separately attached to the base-board, near the floor, or, even in the floor itself. The batteries to which this receptacle are attached, may be placed in an adjacent closet, or even in the cellar, the lead wires running to the proper terminals of the outlet, then through the plug to their respective terminals in the Radio receiver. You simply plug in the special attachment furnished—there is only ONE way it can be done, as a safeguard. When you have shut off your Radio, the plug can remain in the receptacle, or can be removed. Complete directions for wiring furnished. Handsome brass finish.

No. 9088 Complete, with Plug... **\$2.19**



Battery Lead Tags



SET OF 8
\$0.19
POSTPAID

These little tags are indispensable on any Radio set—time and again their use has prevented short circuiting of batteries and blowing out of costly tubes. Illustration is

full size. Made of polished aluminum. Prongs will clamp any size battery lead or cable. Full set consists of A+, A-, B-, B+ Detector, B+ Amp. 90, B+ 1.35, C+, C-.

No. 9780 Set of 8..... **\$0.19**

Screw Eye Insulator



\$0.09
POSTPAID

A very handy type of insulator for keeping the lead-in away from walls or any foreign object. Galvanized iron screw. Porcelain insulator. Length of screw 2½ inches.

No. 9980..... **\$0.09**

Lead-in Wire



\$0.39
POSTPAID

No aerial installation is truly complete and efficient unless this rubber covered lead-in wire is attached thereto, for it is a positive means of properly insulating against any losses in the antenna system should the lead-in wire rub against any object, whether it be the leaves or limb of a tree, a roof, a gutter, etc. This wire can also be used to very good advantage as the ground lead to an outside ground, or through the flooring to the cellar, etc.

No. 9743 25-foot Roll..... **\$0.39**
No. 9744 50-foot Roll..... **\$0.73**
No. 9745 100-foot Roll..... **\$0.95**

Flexibus Hook-up Wire

\$0.72
POSTPAID

In the early days of Radio receiver construction, square wire connections of bus bar were universally used—and at a great loss in efficiency, due to the longer leads involved, as well as necessitating a tedious task. Point to point wiring is now solely resorted to, for the leads are always as short as possible for greatest efficiency. Besides, there are no angles to "figure out." Flexibus wire is covered with a varnished cambric flameproof insulation finished in the following colors: Red, Green, Yellow, Brown, Black. The wire itself is flexible tinned stranded copper.



No. 9747 Per 25 ft. Roll..... **\$0.72**
State which color you wish.

Brach Arrester

\$1.98
POSTPAID

The price of this very efficient lightning arrester is more than compensated for in the absolute faith you can place in it as a 100% CERTAIN arrester. You enjoy that feeling of complete safety no matter how severe an electrical storm may be raging. It is intended for out-door use, and attaches directly to the lead-in wire just outside the window. The ground wire is bolted to the lower section. Enclosed vacuum cartridge can be replaced and thus can be readily examined. Protecting hood is of bakelite. Approved by Underwriters.



No. 9999..... **\$1.98**

De Jur Lightning Arrester



\$0.46
POSTPAID

Moulded of a high heat dielectric material. The accepted commercially used air gap is incorporated in this arrester. It is weather proof and is intended for both outdoor and indoor use under any climatic weather condition. Transparent casing covers the air gap. Connections are made to large Fahnestock clips. Approved by Underwriters Laboratories.

No. 9640..... **\$0.46**

"Rasco" Clip Leads



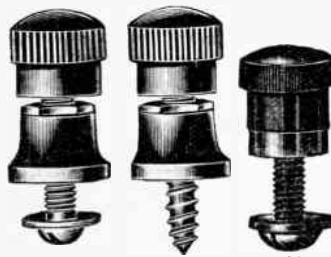
\$0.12
POSTPAID

This is a flexible silk-covered conductor to the ends of which are soldered powerful brass spring clips. Instead of using wires to make your connections—screwing and unscrewing binding posts—a clip lead hooks in a jiffy onto any wire, and binding post or other conductor to

make a safe experimental connection. Two colors, green and red, to distinguish connections. Length of clip lead, one foot.

No. 7887 "Rasco" Clip Leads, each\$0.12
Dozen lots 1.35

"Rasco" Binding Posts



All Cuts
of
Binding
Posts
Full Size

650 651 202

Well made of composition. Will give good service. No. 650 has 7/32 machine screw and No. 651 has a wood screw; both have a hexagonal brass nut in center. No. 202 is nickel plated at bottom and has a machine screw. No. 650\$0.05
No. 651 0.05

Dozen, either style, \$0.50

No. 202 Each \$0.04 doz.\$0.41

No. 028 Binding Post is of a smaller type and looks mighty nice on Switch Boards, etc. No. 029 and 030 are used for telephone connecting cards, etc.
No. 028\$0.08
No. 029 0.04
No. 030 0.03



028



030



029

Lock Binding Posts

\$0.25 POSTPAID



325

Something new. The top screws down and clamps the finest wire. A clamping action and not shearing action. Figure 325 shows post open. Figure 326 shows post closed.

No. 325 Large, ea. \$0.25
No. 326 Small, ea. \$0.15



326

Binding Posts

Our binding posts are all accurately made, of brass only; illustrations are full size. We have specialized for years in binding posts and you will find them right in every respect. Each post comes with screw and washer, not shown in illustration. We furnish all style posts, either nickel plated or brass lacquered. State which style you desire.



025

Instrument Posts

\$0.15
POSTPAID

No. 02 is an old timer, well known by every experimenter. Height over all 1 3/8"; dia. 3/8". No. 02 1/2 is 1" high; dia. 3/8".



No. 02

No. 02\$0.15
No. 02 1/2\$0.10

Initial Binding Posts

Set of 8 **\$0 26**

These binding posts are somewhat similar to to our No. 202, only larger and better. Tops are inlaid with white enamel in various denominations. Tops are of full composition bottom brass part, nickel polish.
Nos. 122, Antenna; 123, "A" Battery; 124, "A" Battery; 125, "B" Battery; 126, "A" Battery; 127, Ground; 128 Telephone; each style, \$0.01.



"Rasco" Slant Binding Posts



201

The slant shaped bottom part gives these posts a very classy appearance, something not seen elsewhere. Top of composition, the bottom brass nickel plated polish.

No. 201 8/32 thread each\$0.05
doz. \$0.50

No. 600 8/32 thread each\$0.08
doz. \$0.80



600

Aristocrat Binding Post

\$0.06 POST PAID

The latest style and has been enthusiastically received. Illustration full size. Hard rubber composition. Fada type knob, nickel plated bottom piece. Brass screw furnished. Will greatly improve the appearance of your set.



No. 2022 Each\$0.06
Dozen 0.60

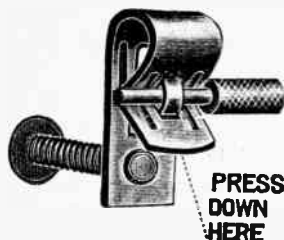
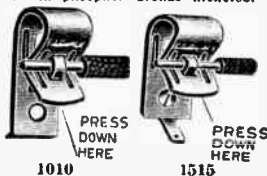
Spring Binding Posts

A favorite with all experimenters. Absolute contact at all times—simply press down prong, insert wire and the connection is made. Too well known to require much description. All finished in phosphor bronze nickel.

No. 1010 Takes No. 11 B & S. wire. Width 5/16"; length 3/4"; hole clears 6/32 screw. Each, \$0.05; Dozen **\$0.50**

No. 1515 Takes No. 16 B. & S. wire; has lug to which wire can be soldered. Width 7/32; length 3/4". Each, \$0.03; per dozen\$0.30

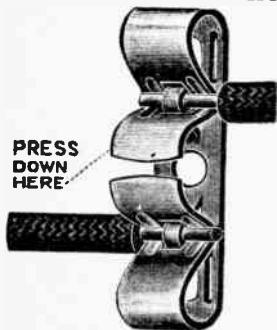
No. 33 Takes No. 12 B. & S. wire. Length over all, 3/4"; width, 3/8"; clears 6/32 screw. Same as No. 43, except without screw. Each, \$0.06; per dozen.....\$0.60



\$0.03
POSTPAID

No. 44 Takes No. 10 wire. Length over all, 1"; width 3/8"; screw hole threaded for 8/32 screw. Each \$0.03; per dozen, \$0.25

Double Connector



\$0.04
POSTPAID

No. 99 Takes No. 10 B. & S. wire. Length over all 1 3/4"; width 3/4"; screw hole passes 8/32 screw. Each .. \$0.04
Dozen ..\$0.38

Panel Post



\$0.04
POSTPAID

Can be mounted on panels. Stands upright. One of the handiest connectors made. Has tapped hole which takes an 8-32" screw. Furnished with Post.

No. 45
Each ..\$0.04
Dozen ..\$0.40

Engraved Character Binding Posts

\$0.16
POSTPAID

If you want the best binding post, here it is. Not only are these Bakelite tops non-removable, but they are beautifully engraved in white enamel, with any of the following characters:

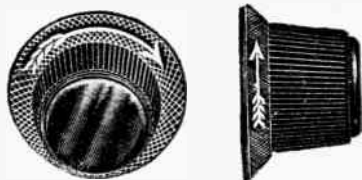
ANT. GND. A— A+ B— B+ DET.
B+ C— C+ Plain.

The non-removable head prevents short circuiting of batteries and burnt out tubes, if heads were incorrectly spun back on to the thread at any time.

No. 8914 (State which posts you wish). Each **\$0.16**



Indicator Knobs

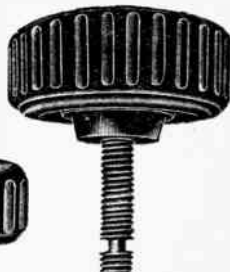


A most modern knob, used entirely by some of the largest set manufacturers. Has an arrow engraved as shown. Made of black hard rubber composition, of generous size. Total diameter is 1 1/2". Height over all, 1 1/8". There is also molded into it a brass insert to take standard quarter-inch shaft.

No. 5321 **\$0.15**

Twirler Knobs

Favorites with all experimenters. The size of both is: dia. 1 1/8". height 3/4". No. 4451 comes with 8-32 and 10-32 bushing. The No. 199 is furnished with our No. 1200 screw to fit No. 1250 fork, length of screw 3/4".



No. 1451 (at left) **\$0.06**
No. 199 (at right)\$0.10

Bushing

\$0.03
POSTPAID

No. 791 Bushing for use with our No. 650 posts is 1/2" dia. x 3/8" high; clears 8/32 screw.

No. 791\$0.03



Shank Knob

\$0.15
POSTPAID

This beautiful knob is a special favorite with all amateurs. It has a nickel shank $\frac{3}{8}$ " long with a central hole of $\frac{1}{8}$ "; side hole is tapped 8-32 for screw. Dia. is $1\frac{1}{2}$ ", thickness 9-15".



Switch Handles

\$0.10
POSTPAID

These handles are used for switches and other similar purposes. No. 55 measures 13/16" high; $\frac{5}{8}$ " dia.; furnished with 8/32 bushing only. No. 59 handles measure 13/16" over 8/32 screw imbedded.



No. 55 (left) \$0.10
No. 59 (right) 0.04

Fluted Knobs

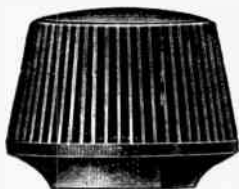
\$0.15
POSTPAID



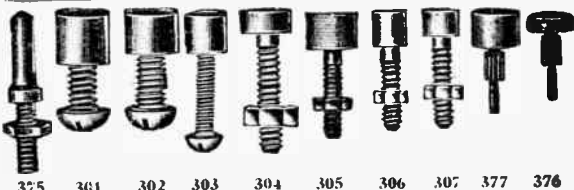
No. 2054

Our latest fluted knobs with inserts. The insert is provided with 8-32" bushing. Black composition.

No. 2054, Without shoulder, $\frac{3}{4}$ " high, $1\frac{1}{4}$ " dia., ea. \$0.15
No. 2055, With shoulder, 1" high, $1\frac{1}{4}$ " dia., each, \$0.15



No. 2055



"Rasco" Switch Points

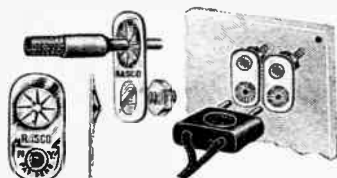
\$0.15
POSTPAID

Our switch points are made of brass, nickel plated and polished. The following nine sizes have been found the most popular. Illustrations are all full size. Size may be ascertained by measuring cuts.

No. 301, $\frac{3}{8}$ " x $\frac{1}{4}$ ", 6-32 thread \$0.15
No. 302, 3-16" x $\frac{1}{4}$ " diam, 6-32 thread \$0.15
No. 303, 3-16" x 3-16"; 4-36 thread \$0.15
No. 304, $\frac{1}{4}$ " diam, $\frac{3}{4}$ " thick; stem 6-32 \$0.15
No. 305, $\frac{3}{8}$ " diam., 3-16" thick; stem 4-36 0.15
No. 306, 3-16" dia., 3-16" thick; stem 4-36 0.15
No. 307, 3-16" dia., $\frac{1}{4}$ " thick; stem 4-36 0.15
No. 375, switch Stop, can be used with all

Doz. switch levers, $\frac{3}{4}$ " long, 6-32 thread, complete with nut \$0.15
No. 376, New style Switch Point, to be pressed into bakelite panels with forced fit. Wire is soldered to pin end. Head $\frac{3}{4}$ " diameter; 1-16" thick \$0.15
No. 377, same as above, but head is $\frac{3}{4}$ " diameter by 3-16" thick \$0.15

"Rasco" "Jiffy" Jacks and "Jiffy" Plugs



\$0.15
POSTPAID

JIFFY JACKS are the simplest, and most efficient Cord Tip Jacks ever designed. Stamped from a single piece of metal they grip any style cord tip from any make phone or loud speaker. The JIFFY JACKS take minimum room. Drill two small holes in your panel and around the JIFFY JACK with screw and nut furnished. No soldering neces-

sary as the wire goes right on the screw. X-ray view shows how two of the jacks are used in conjunction with our Jiffy cord plug. The jacks go on in back of panel, only screws show in front. Made of best spring brass that will not wear out. Hundreds of other uses for our JIFFY JACKS. We will pay \$1.00 for every new use for JIFFY JACKS that is accepted by us.

JIFFY PLUGS are made of semi-hard rubber into which the tips of your phones or loud speaker are pushed. The cheapest and simplest plug ever designed. Its small size and neatness made it famous overnight. Size 1" long, $\frac{3}{4}$ " wide and $\frac{3}{8}$ " thick. No tools required. Just wet the metal cord tips and push through openings. Plug can be used with any standard cord tip jack, but best with RASCO JIFFY JACK.

No. 4875 Two Jiffy Jacks with nuts and screws and one Jiffy Cord Plug \$0.15
No. 4870 One Jiffy Jack complete with nut and screw 0.05
No. 4871 Jiffy Jacks without nuts or screws, two for 0.05
No. 4860 Rasco Jiffy Plugs (semi-hard rubber part only) 0.10

Get them: RASCO Service is sure all it is cracked up to be. I have received three different orders from RASCO and I am still waiting for an order from another company, which was sent in before the first RASCO order.

GEO. B. INGRAM, 41 Rodney Street, West S. John, N. B.

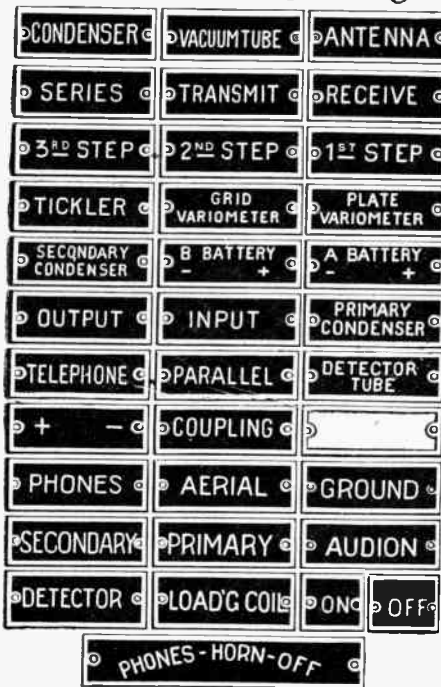
"Rasco" Name Plates

Our name plates are of brass with a black background. Letters are polished nickel, standing out strongly against black background. Each name plate has two screw holes. They are well made and will outlast your outfit. Order by name and number. Name plates measure 1" x 3/4".

No. 839 "Increase Current" No. 840 "Increase Current" (Right) (Left)

No. 806 "Phones-Horn-Off"

Each Style \$0.08



No. 6050 Condenser
No. 834 Series
No. 821 3rd Step
No. 827 Tickler
No. 823 Secondary Condenser
No. 817 Output
No. 829 Telephone
No. 837 + -
No. 807 Phones
No. 811 Secondary
No. 814 Detector
No. 813 Vacuum Tube
No. 831 Transmit
No. 820 2nd Step
No. 826 Grid Variometer
No. 835 B Battery + -
No. 818 Input

No. 828 Parallel
No. 822 Coupling
No. 809 Aerial
No. 812 Primary
No. 808 Loading Coil
No. 6051 Antenna
No. 830 Receiver
No. 819 1st Step
No. 825 Plate Variometer
No. 836 A Battery + -
No. 824 Primary Condenser
No. 833 Detector Tube
No. 841 "Blank"
No. 810 Ground
No. 813 Audion
No. 866 on 865 off

EACH STYLE, \$0.02 1/2

Price of all our name plates, in dozen lots 25c., with the exception of the two "Increase Current" Plates, and "Phones, Horn, Off," the price of these is \$0.75 per doz.

"Rasco" Binding Post Name Plates



6000



6010



6013

Here is a name plate that goes under your binding post, that fits any binding post, and looks good no matter what type of post you use. The RASCO Binding Post Name Plates can be mounted on all instruments, and on account of their small size greatly enhance the appearance of your set. Each denomination is repeated twice on each Name Plate. It is thus possible to read the designation on a panel above and below the binding post. Illustration is full size.

No. 6000. "Phones."	No. 6010. "Aerial."
No. 6001. "Ground."	No. 6011. "+ -"
No. 6002. "Output."	No. 6012. "Input."
No. 6003. "A Battery +"	No. 6013. "A Battery +"
No. 6004. "B Battery -"	No. 6014. "B Battery +"
No. 6005. "B Battery -"	No. 6015. "Loop"
No. 6006. "Load Speaker"	No. 6016. "Tickler"
No. 6007. "Grid."	No. 6017. "Plate"
No. 6008. "Load"	No. 6018. "C Battery +"
No. 6009. "C Battery -"	No. 6019. "Filament"
No. 6020 New "A" Battery +.	"B" Battery -

All Styles \$0.02
Dozen Lots \$0.20

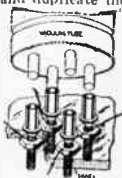
"Rasco" Vacuum Tube Sockettes

Substitute for Vacuum Tube Sockets



A distinct novelty, originated by us. Four make a complete Vacuum Tube Socket for panel mounting. The Sockettes are used on panels and bases where there is a scarcity of room, as when many tubes are to be mounted in a small space. Positively the best means for making contact, and holding tubes. The reason is clear. In all other sockets contact is made only by the lower tips of the Vacuum Tube touching the flat surface. Not so in the RASCO Sockettes. Here the tube pins actually engage with a 3/8" contact and this contact surrounds the entire surface of the pin. If you have ever been exasperated by tube noises due to poor contacts, you will welcome the RASCO Sockettes. Each Sockette has a shank which is split into four parts, which gives enough springiness to allow sufficient variation for the varying thickness of the tube contact pins. To mount, take your tube and press it down hard on a piece of paper. This gives the exact location of the four pins. Secure the exact center of each pin, by means of a pin prick punching right through the paper. Then transfer the piece of paper, on the panel, and duplicate the location of the holes by another pin or hole punch instrument. Then drill your holes, insert the Sockettes, and the job is done.

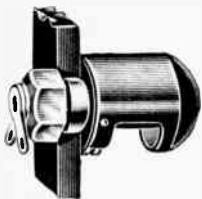
Two brass nuts are furnished with each Sockette, and when connections are made to these brass screws underneath the panel, no better contact is possible. Once you have used the Sockettes you will never do without them. They hold the tube with a vise grip. One set of 4 Sockettes is sufficient to hold one Vacuum Tube. No. 1550 made to take the Standard U.X. base, long prong (or T.V. base), tube.



No. 1550, Brass Sockettes, nickel-plated, per set of 4 \$0.15

Panel Light

\$0.48
POSTPAID



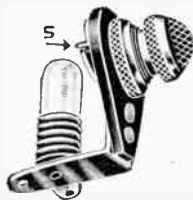
A great convenience for every Radio set. The set can be placed in any part of the room, independent of the lighting within, as this Panel Light illuminates the dials with a pleasing effect. Consists of a hand-sone reflector and metal socket. One hole mounting, easily wired.

No. 9707 Less bulb \$0.48
No. 9776 6-volt bulb for above..... \$0.30

Bruno Light Switch

\$0.73
POSTPAID

This instrument combines both a battery switch and a ruby pilot light which glows in an attractive manner when the switch is turned on. This is a truly one hole mount device, for the glow is visible through the center of the switch button. Its cost is insignificant in the saving of batteries it effects, warning you that your switch is ON, and should be turned off. Red ruby jewel supplied. Uses our No. 9776 6-volt bulb.



No. 9777 Without Bulb..... **\$0.73**

Pilot Light

\$0.35
POSTPAID

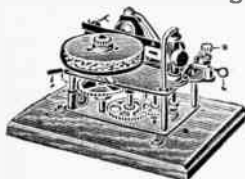


The Pilot Light is practically indispensable on any set. Tells at a glance when tubes are lit from the front panel, thus preventing waste of battery current, when your Radio is not in operation. Single hole mounting. Attractive as well as useful.

No. 9775 Without bulb... \$0.35
No. 9776 6-volt bulb for above..... \$0.30

Omnigraph

\$22.85
POSTPAID



Model 4

In order to own a transmitter either for phone or key (code), you must be able to transmit and receive code messages. And there is a new World awaiting you, as soon as you start transmitting—for you soon list your friends in every corner of the Union, especially on the ever increasing popular short wave band. The New Omnigraph consists of a dependable clock motor, which revolves a turn table upon which are nested removable plates, on the edge of which raised characters cause the machine to "transmit" to you its message which you decipher. The speed of this turntable is governable from 5 words to 50 words a minute at will. The spring runs motor for 45 minutes. Complete with 5 Dials, size 8 inches by 6 inches by 5 1/2 inches. In a short time, you can apply for a license (no charge), this machine having quickly taught you the code.

No. 9638..... **\$22.85**

Miniature Bakelite Base Knife Switches

\$0.47
POSTPAID



These knife switches can be adapted for many purposes. They are the most compact switches made, yet their insulating qualities are dependable as switches twice their size. Mechanically and electrically perfect. Base is genuine Bakelite—all metal parts are brass, heavily nickel plated. Binding post connections provided. A comparative suggestion of their compactness can be given by mentioning the size of the No. 9604 switch, 2 1/2 inches long by 1 3/8 inches wide.

No. 9061	Single Pole, Single Throw.....	\$0.47
No. 9062	Single Pole, Double Throw.....	0.56
No. 9063	Double Pole, Single Throw.....	0.65
No. 9064	Double Pole, Double Throw.....	0.82
No. 9065	Triple Pole, Single Throw.....	0.99
No. 9066	Triple Pole, Double Throw.....	1.19
No. 9067	Four Pole, Single Throw.....	1.58
No. 9068	Four Pole, Double Throw.....	1.78
No. 9069	Five Pole, Single Throw.....	1.78
No. 9070	Five Pole, Double Throw.....	1.98

Porcelain Base Throw Switches



No. 9856

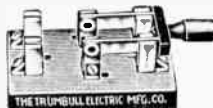


No. 9855

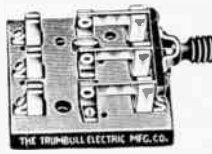


No. 9857

\$0.23
POSTPAID



No. 9858



No. 9859

No experimenter can afford to be without a full supply of these most necessary switches—for many purposes. Genuine high insulating quality porcelain bases. Copper contacts. Wood knobs. Fibre insulation cross bar. Terminal screw connections. No. 9858 measures 2 3/4 inches wide by 4 inches long.

No. 9855	Single Pole—Single Throw.....	\$0.23
No. 9856	Double Pole—Single Throw.....	0.33
No. 9857	Single Pole—Double Throw.....	0.33
No. 9858	Double Pole—Double Throw.....	0.49
No. 9859	Triple Pole—Double Throw.....	0.97

Time-Lite Radio Clock Switch

\$7.48
POSTPAID



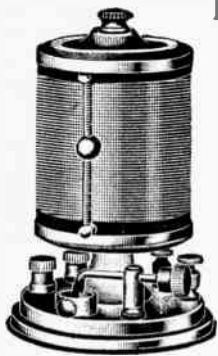
Herein is contained not only a very efficient and highly ornamental clock, but an automatic, controllable means of pre-determining the exact moment you wish your Radio receiver to be turned on or off. Prevents the oversight of allowing your tubes to burn all night. Does not require any current to actuate its own mechanism. Takes one moment to install—adaptable to any and all receivers. Keeps perfect time. An attractive ornament for any mantel-piece—the case is hand rubbed, and hand polished mahogany finish.

No. 9860..... **\$7.48**

Pandora Crystal Receiving Set

\$1.73

POSTPAID



This is not a toy, but a scientifically correct crystal detector receiver. Simplest operation—no batteries ever required. Complete. Pair of head phones and aerial only required. Can only be used where local broadcasting stations are no further than 25 miles. Handsomely finished in rich Tusset Bronze. Binding posts and trimmings are bright lustre nickel plated. Overall size 3 inches in diameter by 5½ inches high.

No. 9982 . . . **\$1.73**

Radio Tools

No. 8792 **SIDE CUTTING PLIERS** . . . **\$1.19**



Indispensable for cutting wires in cramped quarters — for stripping insulation, etc. Forged and tempered.

No. 8793 **SQUARE JAW PLIERS AND SIDE CUTTER** . . . **\$1.49**



The handy all around tool, should be in every experimenter's tool kit. Forged from crucible steel. Knurled gun barrel handles.

No. 8794 **HEXAGONAL NUT WRENCH** . . . **\$0.29**



For tightening hexagonal nut—the projecting screw fits into hollow of handle. For 4/32, 6/32, 8/32 and 10/32 nuts. State which size you are ordering.

No. 8795 **RATCHET SCREW DRIVER** . . . **\$0.99**

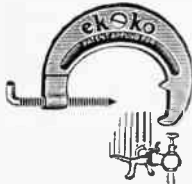


The advantages of an automatic ratchet screw driver are well known. Ratchet mechanism is perfect. A quality product. Especially designed for Radio experimenters.

Ground Clamp

\$0.23

POSTPAID



No more laborious scraping off the paint or rust on your ground pipe, for proper contact thereto! The hardened steel points on the screw and frame bite into the metal, assuring a perfect contact. In a few moments, the job is over. Will fit any pipe, ¼ inch to 1¼ inch in diameter. Terminal screw connection on frame.

No. 9929 . . . **\$0.23**

"No-Sod-er" Wires



The use of the up-to-date "No-Sod-er" wire connectors makes easy what until now has been difficult and annoying in many cases. Besides it gives you a better connection than nearly all cases where solder is used. Made of highly insulated flexible stranded copper wire, with brass eyelets. Order the quantity of each length you desire.

No. 9571 Length, 2, 3 or 4 inches, each. . . \$0.04
 No. 9572 Length, 5, 6 or 7 inches, each. . . \$0.05
 No. 9573 Length, 8, 9 or 10 inches, each. . . \$0.06
 No. 9574 Length, 11, 12 or 13 in., each. . . \$0.07
 No. 9575 Length, 14, 15 or 16 in., each. . . \$0.08
 No. 9576 Length, 17, 18, 19 or 20 in., ea. . . \$0.10

Nail-It Knobs

\$0.09

POSTPAID



This insulator is made of good quality porcelain, and has a nail through its center for driving into wood, stone, etc. The wire is set into the recess shown and the upper section of the insulator is then closed tightly upon it. Very useful.

No. 9795 . . . **\$0.09**

Brach Totem Pole Antenna

\$5.68



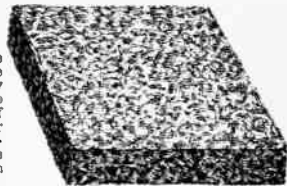
Where conditions will not permit the erection of an aerial, the Brach Totem pole can be installed in a few minutes, with superior results. Stands about 44 inches high, and very substantially built. It consists of a non-inductive wound coil of enameled wire, scientifically and theoretically designed to serve as the most suitable substitute for an antenna. Can be mounted at any angle, or erected like a flag pole. An adjustable iron base, clamp, screw eyes and 25 feet of guy wire are included with this instrument. Shipped express collect, due to excessive weight involved.

No. 9698 . . . **\$5.68**

Sponge Rubber

\$0.10

POSTPAID



Some tubes are notorious for the ringing sounds they give out due to furring. The use of our sponge rubber cushion will eliminate the noises. Use one piece for each tube.

Size 2½" x 3" x 5/8" thick.

No. 8989 . . . **\$0.10**

Antenna Spring Tightener

\$0.45

PER PAIR. POSTPAID.



Consists of two porcelain high insulating quality insulators, rigidly attached to both ends of a coil spring, which takes up all slack, or yields, if either end of your antenna is attached to a swaying tree limb or clothes pole. Over all length about 9 inches.

No. 9796. Per Pair . . . **\$0.45**

"Rasco" Radio Cement

\$0.36

POSTPAID

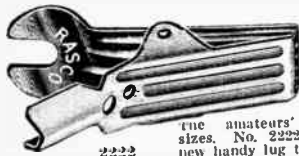


For all radio work. It is highly insulating, water-resisting, and quick-drying. Used particularly for cementing covered wires together. A cotton or silk wound coil is wound upon any form, while the form is first covered with a piece of thin paper. Then the wire is wound on top of this. Apply the Cement by means of a brush that comes with the bottle. The Cement dries quickly and the wire form can be removed in twenty minutes. The paper is then removed from the inside of the coil and another coat of Cement is applied to the inside. You now have a wire form that holds together without any visible support. Variocouplers, loose couplers, etc., can thus be made without using the usual tube or mandrel. The furnish enough Cement for many

two-ounce bottle will windings.

No. 1750 **\$0.36**

Spring Clips



\$0.12

POSTPAID

are the amateurs' favorite. Three sizes. No. 2222 is provided with new handy lug to slip under binding post. The others are plain.

No. 2222, 1 1/2" over all **\$0.12**
 No. 4411, 1 1/4" over all **0.07**
 No. 777, 1 1/4" over all (light type) **0.05**

"UX" Tube Bases

\$0.15
POSTPAID

For the serious experimenter who wishes to assemble his own plug-in coils, these bakelite "plugs" are indispensable. After the coil is mounted within the hollow of the base, the "plug" can be inserted into a tube socket, or into our No. 1550 Sockets. Contact pins are 9/16" long. The plug measures 1 1/8" in diameter by 1 1/8" high.



No. 8790 **\$0.15**

Sliders

\$0.18 POSTPAID

Of this patented slider probably more have been sold than of all others combined. It is furnished with ball and spring. Holder fits 3/8" square rod, the size over all is 3/4" x 3/4" x 1/2". Comes in red and black rubber composition only.
 No. 875 Black **\$0.18**
 No. 876 Red **\$0.18**



"Rasco" 16-in-1 Radio Tool



Here it is! Here is a tool that does 16 different things and does them well. A tool that does practically everything required in building your radio set. The tool is built of hardened steel, exactly as per illustration, highly finished. Here are some of the uses: 1. Screwdriver. 2. Center punch. 3. Countersink. 4. Bus bar and wire bender. 5. Bus bar and wire bender for 8-32 screw. 6. Bus bar and wire bender for 6-32 nut. 7. Socket wrench for jacks. 8. Socket wrench for 4-36 nut. 9. Socket wrench for 6-32 nuts. 10. Socket wrench for 8-32 nuts. 11. Wrench for knurled nuts. 12. Screw gauge for 4-36 screw. 13. Screw gauge for 6-32 screw. 14. Screw gauge for 8-32 screw. 15. Screw gauge for 10-32 screw. 16. Knife for wire skinning.

These are only the important uses of the tool, but many other uses will readily suggest themselves to every radio experimenter. You will wonder how you have gotten along before without the 16 in 1 radio tool. Size 4 1/2 x 1 1/2 in. No. 4800 Rasco 16 in 1 Radio Tool **\$0.27** each

Radio Dial Button



For you and every radio enthusiast the new radio dial button has been created. It identifies you immediately and will help you to become acquainted. 3/4" in diameter. An exact replica of a standard modern radio dial. Raised knob, dial graduations are like the best radio dial. "RADIO" is set in gold. The dial is best black enamel. Lettering, figures and graduation marks are in-laid gold on enamel. The knob part is also in gold. Best gold plate is used. Equipped with a screw back

No. 7799 **\$0.25**

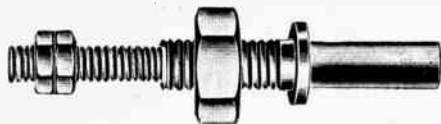
Set of Drills

\$0.59
POSTPAID



These Carbon steel drills are for use in our or any standard hand drill, being the most widely used sizes. This set of four drills consists of one each: 4/36, 6/32, 8/32 and 14/20 screw, for clearance thereof.

No. 9046 Set of four drills **\$0.59**

"Rasco" Universal Bearing**\$0.25** POSTPAID

Bearings designed by us to fill a distinct need. We have often felt that it was necessary to have a bearing and bushing combined when we mounted certain apparatus directly on the panel. Useful with rotors, rheostats, in connection with honeycomb coils, for various other coupling purposes, and dozens of other uses. A few of these Bearings will quickly pay for themselves. Made of brass, and comes in five parts, inner shank, bushing that holds whole device in panel, large washer, which screws against inside of panel, and two hexagon nuts to secure the work to the center of shaft. The illustration of the Bearing is full size. The outside of the shaft is $\frac{1}{8}$ " ; the length of the thread is 1"; the total length of bearing is $2\frac{1}{2}$ " ; the length of the threaded sleeve is $\frac{3}{4}$ " over all. Made heavily of brass throughout. So strong it will hold up a heavy rotor without sagging.

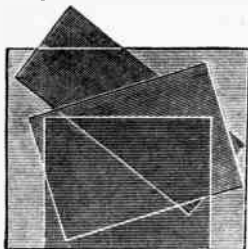
No. 1375 **\$0.25****"Rasco" Cardboard Tubing****\$0.20** POSTPAID

Used to wind inductances, to make tuning coils, loose couplers, variocouplers, etc. This is the only kind that will stand up. It is not the ordinary spiral-wound tubing such as is used in mailing tubes, which is worse than useless. No straw-board used. Ours is made of grey pulp, well seasoned and is the only seamless tubing made in the United States. Wire wound upon our tubing will never come loose. Tubing does not shrink; very heavy. The wall thickness is $\frac{1}{8}$ ". This gives a tremendous strength to the tube and it is almost impossible to crush it.



	Inside dia.	Outside dia.	Length	
No. 6600	3	$3\frac{1}{4}$	7	\$0.20
No. 6601	$3\frac{1}{2}$	$3\frac{3}{4}$	7	0.25
No. 6602	$3\frac{1}{2}$	$3\frac{1}{2}$	5	0.18
No. 6603	$3\frac{3}{4}$	4	5	0.20
No. 6604	4	$4\frac{1}{4}$	5	0.35
No. 6605	$2\frac{3}{4}$	3	$2\frac{3}{4}$	0.15

No. 6600 fits into No. 6601 for loose couplers.
No. 6602 fits into No. 6603 for loose coupler.
No. 6605 is used as a variocoupler rotor and can be used with No. 6604.

Mica**\$0.01** POSTPAID

We carry the best grade of electrical mica only. Sheets can be split readily into any thickness.

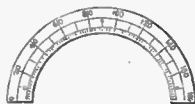
	Per sheet
No. 860 $1\frac{1}{2}$ "x3"	\$0.01
No. 861 $1\frac{1}{2}$ "x2"	\$0.01
No. 862 $2\frac{1}{2}$ "x3"	\$0.02
No. 863 $2\frac{1}{4}$ "x3"	\$0.04
No. 864 $3\frac{1}{2}$ "x5"	\$0.07
No. 865 $4\frac{1}{2}$ "x5"	\$0.10

Zinc Spark Gap End

These are used on spark gaps. The plugs measure $\frac{3}{8}$ " x $\frac{3}{8}$ ", tapered 8/32 thread. They are machined accurately and well worth attention.

No. 324 Each **\$0.04** **\$0.40**
Dozen**Dial Marker****\$0.05** POSTPAID

Using our patent dial marker you do not need to spoil your panel by scratching a mark. Illustration full size. Made of a single piece of brass with shank to take a nut. Just drill a single hole, mount the marker point, tighten up nut on back of panel and that is all. Heavy milled-in line takes place of the old scratch line. Point is nickel plated. It improves appearance of set. Thickness $1/16$ ". Mount with tip nearly touching dial.

No. 7788 **\$0.05**
3 for 10c**Metal Panel Scale**

Heavy brass stamping, large black figures, readily distinguishable. Total diam. $3\frac{1}{2}$ ", width $\frac{1}{2}$ ". 3 holes for attaching.

No. 725 **\$0.10****Micanite Tubing****\$0.86**

POSTPAID

Needed wherever a very high grade material is required. This Tubing is especially suitable for C. W. work, on account of its exceedingly high insulation quality. Nothing better on the market at any price. The color is natural, a very dark brown. It is seamless and smooth inside and outside. It can be readily machined, drilled, etc. The thickness is $3/32$ ".



No. 250, 4" dia. by 6" long.
Each **\$0.86**
No. 251, 6" dia. by 6" long.
Each **\$1.10**
We recommend for C. W. transmission either of these two tubes and our No. 893 Litz Wire.

Metal Panel Scale

A very neat 90° metal scale made entirely in brass. Silver background. Black letters. Size $2\frac{1}{2}$ ".

No. 715 **\$0.10**

Gentlemen:

To my satisfaction and happiness I forgot to write you that I received the merchandise in excellent packing. I wish to thank you for your service in handling my order for radio parts. They are still better than I expected and also the big, clear blueprint you sent. I am recommending your service to my friends. Have also given away your catalog. Wish you would send me another one of your Radio Set catalogs, and some order blanks.

DELFIN PIOPONGCO.,
Pasig Rizal, P. I.

"Rasco" Set Builder's Assortments

This Lug Assortment includes fifty of the most important lugs for the man who "Builds His Own" as follows: 10 lugs for 8-32; 10 for 6-32; 10 prong lugs (solderless) 6-32 and 10 8-32; 10 flat 6-32. All lugs are tinned.

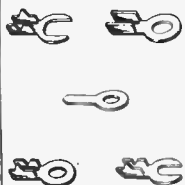
No. 4995 \$0.22
This assortment includes 108 pieces as follows: 36 "T" Wire Bus-Bar Connectors; 4 Adapter Bushings (to fit 3/4" dial to 3/16" shaft); 4 Separable Phone Tips; 4 Angle Brackets; 21 Lock Washers; 36 Assorted Lugs, already tinned for easy soldering.

No. 4996 \$0.48
Here is an assortment that everyone building a radio set needs. Includes the following: 12 Assorted "Perfect" Lugs, 6 Grid Leak Mountings; 4 Dial Markers; 6-1476; 6-1476; 3-1490; 2-1505 Brackets. Price of all separately, \$1.32.

No. 4997 \$0.68

\$0.22
POSTPAID

LUG ASSORTMENT
50 LUGS
5 DIFFERENT STYLES
No. 4995



RADIO HELPS ASSORTMENT
No. 4997



RADIO NEEDS ASSORTMENT
108 PIECES
No. 4996



Adapter Bushing

Designed so that a dial or other attachment normally equipped with a 3/4" bushing can be fitted to a 3-16" rod. Slotted so that it will take up slight unevenness of rods. Perfect fit assured. Comes only 1/2" long.

No. 8866 \$0.04



Phone Tips

No. 315. Standard Telephone Cord Tip, nickel plated and polished.



Per Dozen \$0.15

Separable Cord Tips

Replaces the usual cord tip, or when it is necessary to make connections with flexible conductors. Requires no solder. The flexible wires are bared and inserted in one end of the ferrule, then the shank is screwed in. Wires can't pull out.

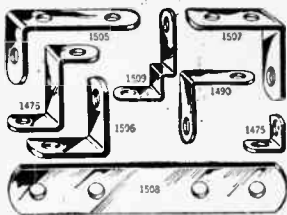
No. 2900 Each \$0.06
Dozen \$0.35



"Rasco" Radio Brackets

Can be used to hold tuning coil tubes; inductances; spider webs, etc.; to hold up panels; to attach various instruments to baseboards and in many different ways. Stamped from heavy metal, nickel-plated and carefully finished. Illustrations are half size. Thickness varies. Where special strength is required we recommend Nos. 1505, 1506, 1507 and 1508. All of these are heavy brackets made for the best outfits to hold heavy panels or heavy sub panels. Thickness of all of these is a full 1-16". Brackets Nos. 1475, 1476 and 1490 are lighter and are not for such heavy duty work. Bracket No. 1509 is really not a bracket but is used in connection with all other and go directly on the panel or sub panel instead of using separate insulating pieces. It is the cheapest and most practical grid leak mounting. Made of spring phosphor bronze. No. 1475 is used to attach all cardboard or bakelite tubes (inductances) to panels. No. 1476 is used for the same purpose. Bracket No. 1508 is used for special work and can be bent by the builider into any form. Note particularly that all brackets are nicely nickel plated.

RASCO BRACKETS IN STOCK



No. 1475 Brass Angle Piece, 5/16" wide by 7/16" high. Each \$0.03
No. 1476 Brass Bracket, 3/4" high by 2 lugs 1/2" long. Each \$0.05
No. 1490 Brass Angle Piece, size 3/4" by 3/4". Each \$0.04
No. 1505 Brass Angle Piece, size 1 1/2" high by 3/4" long \$0.05
No. 1506 Size 3/4" high, 3/4" long and 1/2" wide. Each \$0.04
No. 1507 Size 1" long by 1" high by 1/2" wide. Each \$0.03
No. 1508 Size 3" long by 1/2" wide. Ea. \$0.06
No. 1509 Size 7/8" high by 1/2" long by 3/8" wide. Each \$0.04

Dozen lots, each style 20% discount.

Brass Nickel Plated Screws

Machine Screws. We carry the following sizes of machine screws: 4-36, 6-32, 8-32 and 10-32 in flat head and round head styles, in the following lengths: 1/4", 3/8", 1/2", 3/4", 1" and 1 1/4".

No. 1401 Price, all size threads, 1/4", 3/8", 1/2", per dozen, nickel plated \$0.15
No. 1402 Price, sizes 3/4" and 1", dozen. 0.18



1300 1200

NICKEL PLATED



\$0.02
POSTPAID

No. 1300, Screw, 8/32 top, wood screw bottom, each \$0.02
No. 1200, Screw, 8/32 thread, 1" long. Fits lock fork No. 1250, each \$0.02
No. 1400, washer head iron machine screw 8/32, 3/4" long, each \$0.01

Threaded Brass Rod

\$0.06

POSTPAID



We carry two styles, 6-32 and 8-32 thread. Only 6" lengths sold. No others.

No. 8032 8/32 thread, per 6" length.....\$0.06

No. 6032 6/32 thread, per 6" length.....\$0.08

Brass Strip

This strip is particularly handy for the experimenter, and is a size for which we have had much demand. Width $\frac{1}{2}$ " ; 1-10" thick; comes in 6" lengths only. No other sizes are furnished.

No. 1430

\$0.10

Brass Tubing

To satisfy an insistent demand we are listing this brass tubing, favored by all radio experimenters and used particularly in connection with variocouplers, etc. Outside diameter, $\frac{1}{4}$ " ; Inside diameter, 3-16". Comes only in 6" lengths. No other lengths furnished.

No. 1431

\$0.15

Round Brass Rod



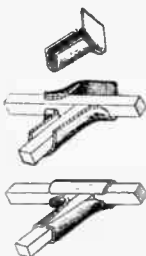
We carry only two sizes of plain round brass rod; 3-16" and $\frac{1}{4}$ " diameter. Both are popular with radio constructors, as each can be used with variocouplers, variometers, as shafts, bearings, etc. Furnished only in 6-inch lengths. No other sizes furnished. Ends carefully milled and squared.

No. 1425 $\frac{3}{16}$ "

No. 3616 3/16"

\$0.10**\$0.06**

"T" Wire Connector



This big little article will solve your problem when making "T" wire connections. Nickel plated brass. Can be used without solder but you can solder over the connector if you wish. Illustrations show how connector is attached to bus-bar wire. It is made to take wire 1-16" square or round wire 1/16" diameter. A pair of pliers is all you need. This "T" wire connector will give your set a workmanlike appearance. Now used by nearly all the latest set manufacturers.

No. 2975, dozen

\$0.05

Switch Handle



This switch handle is of a well known design and has hard rubber knob. All metal parts are nickel plated, center from knob to center of screw is $1\frac{1}{2}$ ". Used on panels in connection with switch points, etc.

No. 300

\$0.20

Hexagon Nuts

\$0.05

POSTPAID



We specialize in Hexagon Nuts. We furnish the best kind only, in six sizes, 4-38, 6-32, 8-32, 10-32, 10-24 and 12-24.

Nos. 4-36 and 6-32, per dozen

Nos. 8-32 and 10-32, per dozen

Nos. 10-24 and 12-24, per dozen

\$0.05**\$0.06****0.15**

"Rasco" Brass Washers

\$0.05 POSTPAID

63 247

These washers are standard and are accurately stamped and as flat as it is possible to make them. The experimenter recognizes that for many purposes warped washers are worse than useless, particularly when they are used for spacing purposes, etc.

Cat. No.	Clears Size of Machine	Out-side Diam-eter	Inside Diameter	Thick-ness	Price Doz.
49	No. 4	9-32	.125	.025	\$0.05
63	No. 6	3-8	.150	.032	0.05
83	No. 8	3-8	.170	.032	0.10
107	No.10	7-16	.195	.036	0.12
121	No.12	1-2	.228	.040	0.15
149	No.14	9-16	.260	.043	0.18
165	No.16	5-8	.285	.040	0.20
181	No.18	11-16	5-16	.051	0.22
203	No.20	3-4	11-32	.064	0.25
247	No.24	7-8	.385	.064	0.30

Not less than 1 doz. sold. 10 per cent dis. in 100-lots.

"Rasco" Lock Washers

**\$0.05**

POSTPAID

Made of phosphor bronze. Split as shown, but the two flat surfaces are not on the same plane; there is a difference of about 1-16". When the binding post or screw is driven in tight against the lock washer, the latter is always under tension which is not possible with other devices. The washers are about 1-32" thick when compressed.

No. 3001, for 1/32" screw, doz.

No. 3006, for 6/32 screw, doz.

No. 3008, for 8/32 screw, doz.

\$0.05**0.05****0.10**

Lock Nuts

\$0.04

POSTPAID



Something new. Screwed down, will never loosen. Numerous uses readily found for this useful article. Brass, nickel plated. For 8-32 only.

No. 312, Lock Nut, each

Dozen

No. 313, Wing Nut, each

Dozen

\$0.04**0.40****0.04****0.40**

Lock Fork



Made of phosphor bronze. Used on switch No. 200 and screw No. 1200. The only device to keep screw from coming loose. No 1250. Lock Fork, each.....

\$0.10

RASCO STANDARD LUGS

"Perfect" Lugs



\$0.02
POSTPAID

Made of brass tubing and flattened at the ends. To attach lead wire hold the lug by the flat end with a pair of pliers and heat over an alcohol, gas or match flame and when sufficiently hot, insert a little solder in the tube part with a little flux. Then insert the bare wire. When cool you have the most perfect connection. Shown full size and will take up to 10-32 screw. Fully nickel plated and will improve the looks of your set very greatly. Very popular.

No. 3110, Open\$0.02
No. 3080, Closed\$0.02
Dozen\$0.20

\$0.06
POSTPAID



Brass, nickel plated, used for making connections. Only for 6-32 screw.
No. 308, dozen\$0.06

No. 309, Copper Lug, made in 3 styles for No. 4, 6 and 8 screwsdoz. \$0.10

No. 310, Brass Lug, made only for No. 8 screw
dozen\$0.10

No. 311, Copper Lug comes for No. 6 and No. 8 Machine Screw
dozen\$0.10

"Rasco" Nosolder Lugs



This small lug, shown full size, grips either round or square bus bar with a vise-like grip. Bus bar can now be connected or disconnected in a jiffy direct from the lug. It saves at least 25 per cent of time and when it comes to dismantle your set you do not have to throw away your bus bar wire for it can be used all over again.

Soldering is positively done away with. Perfect contact. The tension always powerful, yet it is easy to slip the bus bar wire into the friction grip. Use No. 15 square or No. 11 round bus bar for best results. Finally, if you insist on soldering, you'll be pleased to see that the lug is fully tinned.

No. 3727, Ten only **\$0.05**

Cap Nuts



\$0.03 POSTPAID

No. 314, Nickel plated brass cap nut, 8-32 or 6-32, each,\$0.63
Dozen\$0.25

Thick Brass Washers

\$0.04 POSTPAID

All washers are brass, nickel plated and polished.

No. 340, 7/16" dia.; 1/8" thick; 3/16" hole, each\$0.04

No. 341, 7/16" dia.; 1/16" thick; hole for No. 10 screw, each\$0.02

No. 342, 7/16" dia.; 1/8" thick; hole tapped 8/32", each \$0.04

Screw and Lug Assortment

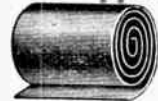


\$0.39

POSTPAID
Contains 100 pieces, all handy, in useful standard sizes. Includes a good assortment of all standard screws, copper lugs, machine screws, wood screws. All screws plated. Cheapest

buy you could think of. Saves time, trouble and money.
No. 9413\$0.39

Copper Foil



\$0.10
POSTPAID

Useful for many experiments, such as, for instance, condenser work, where it is often necessary to have a material that is better than tinfoil, which latter has not a high conductivity, whereas copper, being the second best conductor, is much superior. Very flexible, and the best made. Annealed, and can be flattened out perfectly. Any length, but only 4 in. wide. Thickness .001 inch.

No. 5025 Per running foot **\$0.10**
10-ft. length 0.80

Copper Ribbon



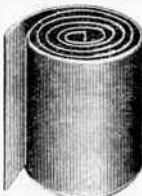
\$0.01
POSTPAID

This ribbon is used for connecting and other purposes and is .005" thick. Not less than 10 feet sold.
No. 700 3/4" wide, per ft. \$0.01
No. 701 1/2" wide, per ft. .01
No. 702 3/16" wide, per ft. .01

Silicon Steel

\$0.08 POSTPAID

This is an article for which we have had much demand. Silicon steel is specially used for transformer purposes, and is now used in all audio frequency transformers. It is a much better material than soft iron sheeting, as it will not give rise to eddy currents as much as iron. Exceedingly soft. Can be cut with pair of old scissors. One size which is standard—2 3/4" wide and .007" thick. Sold by the foot only.



\$0.08

No. 4900 Per running foot

Tin Foil



\$0.45 POSTPAID

Standard for all electric purposes. We carry two grades. The thin type running 1,500 sq. ins. to the lb is suitable for all radio receiving condensers, and heavy type, 700 sq. ins., for transmitting condensers. Per pound:

No. 850, Thin\$0.45
No. 851, Heavy 0.47

VACUUM TUBE HOOK-UPS

In the following pages will be found 75 of the most important V. T. Hook-ups. Only the best and most popular hook-ups have been illustrated and described. Special hook-ups furnished at \$0.50 each.

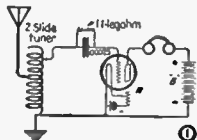


Fig. 1 This is the simplest VT hook-up. K is the grid condenser and L the grid leak. For a Radiotron V 200, the capacity and leak used are .00025 mfd. and $\frac{1}{2}$ mfd. and $\frac{1}{2}$ megohm, respectively. **Fig. 2** shows how a VT detector is connected in a receiving circuit using a loose coupler and also how a crystal detector is connected. By opening switch A audion may be used.

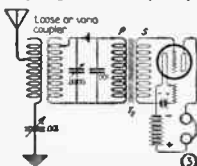
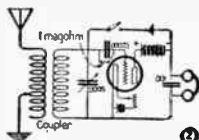


Fig. 3 is a simple circuit for a crystal detector and a one-step amplifier. T2 is an amplifying transformer. The secondary is connected to grid and negative side of the filament.

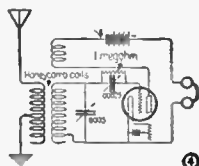


Fig. 4 is the typical regenerative circuit; a coil having about 2-3 or $\frac{1}{2}$ the value of the secondary is connected in the plate circuit. The coupling is critical and gives a high amplification. With tight coupling, undamp waves may be received.

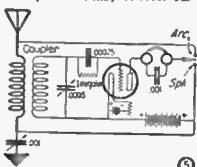


Fig. 5 is a circuit in which the primary of a loose coupler is used as plate inductor; by means of a switch it can be connected between the "B" battery and the plate, allowing the reception of undamp waves. **Fig. 6** shows the typical hook-up for three honeycomb coils and a VT detector. The functioning of this circuit is explained in Fig. 4.

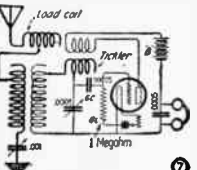
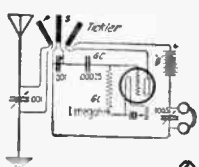


Fig. 7 is a hook-up for long waves using a short-wave coupler. In this case, the primary is loaded with a coil and the secondary wavelength also increased with an additional inductance coupled to a plate coil for the reception of undamp waves, as explained in Fig. 4. **Fig. 8** is a receiver using a sodion tube detector. Our No. 3150 Variocoupler permitting very loose coupling is necessary, and the secondary should have little resistance. R2 is 100 ohms and R3 200 ohms.

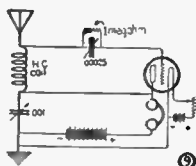
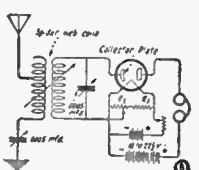


Fig. 9 This circuit is the well known De Forest ultratrou. A single inductance is used with a .0015 or .002 mfd. variable condenser in series. This circuit is particularly suitable for portable sets where little space is had and where simplicity is required.

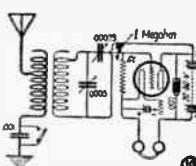


Fig. 10 is the ultratrou circuit to a loose coupler. This circuit oscillates on any wave-length and allows undamp waves to be received with a loose coupler without any external inductance.

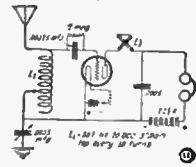


Fig. 11 is a single circuit regenerative receiver in which our No. 5350 variometer is employed to obtain regeneration. This circuit is very simple to assemble and may be built in a compact form for portable sets. **Fig. 12** is another simple hook-up for a loose coupler to receive undamp waves and spark signals. The coupling between the coil T and the primary should be variable.

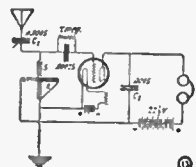
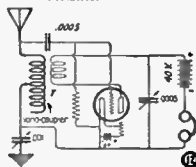


Fig. 13 is another simple regenerative receiver in which our No. 5350 variometer acts as the tuning and the fixed back coil. A connection is taken at the contacts between the fixed and the movable coils. **Fig. 14** is the hook-up for a loop aerial with a VT detector especially adapted for long waves. By connecting the positive side of the filament to the center of the loop, the set is made to oscillate for the reception of undamp waves.

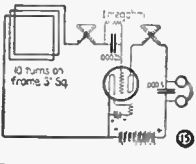
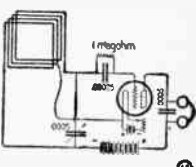


Fig. 15 When a loop is used for the reception of short waves, it should consist of two or three turns only and the tuning made by variometers or variable inductances in order to have a regenerative effect.

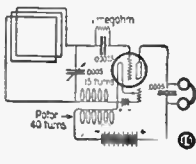


Fig. 16 is the Armstrong circuit used in conjunction with a loop aerial. By using inductances of suitable size, this circuit is equally efficient on short or long waves.

Gentlemen:

Enclosed find the sum of seventy cents (\$0.70) for which please send me one 30-ohm Rheostat No. 4311 at 4c, as advertised in Radio News. Also, one C-299 type Bakelite socket, No. 6511, for 26c as advertised in your No. 12 catalog. Would like to say that the No. 3100 vario-coupler, which I received a short time ago, is one of the most wonderful instruments I have ever had. I was almost afraid to buy it, it was so cheap, but now can see that it is equal in value to a \$4.00 coupler. My last order arrived in good shape and was quickly filled.

WALKER TOMPKINS,
Turlock, Calif.

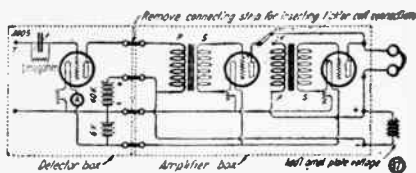


Fig. 17 shows the connections of a two-step amplifier and how it is connected to a detector tube. A two-point switch is used to connect the tube to the first or second step of amplification.

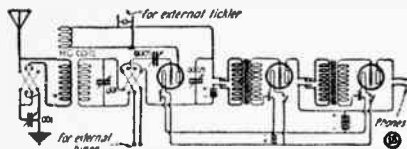


Fig. 18 is a practical, complete receiving circuit with detector and two-stage amplifier. The detector and amplifier may be used with another set, such as a regenerative one, by means of a series parallel switch. This circuit is designed especially for use of honeycomb coils.

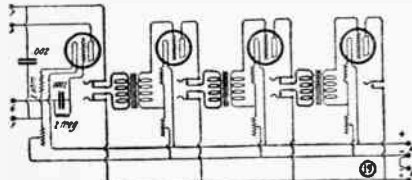


Fig. 19. Complete circuit of a detector and three-stage audio frequency amplifier. The proper negative grid potential is obtained by inserting a one-ohm resistance between the filament and secondary of the transformer. By means of jacks and plugs, the tune may be connected to any number of step of amplification.

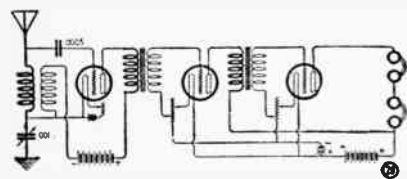


Fig. 20 is an unusual hook-up for short waves, using only one variometer and two steps of amplification.

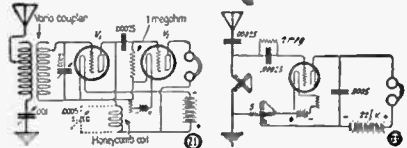


Fig. 21 shows a one-step radio frequency amplifier and detector. The value of the coil L3 depends upon the wave to be tuned in; it should have about the same value as the secondary of the coupler. If a honeycomb coil is used, tune with variable condenser (Dotted Lines). Fig. 22. In this circuit two of our No. 5350 variometers are used to tune and to cause regeneration. As may be seen, the lower variometer has a center tap between the fixed and the movable coils so that the rotor in the feed back coil. If a short antenna is used, the .00025 mf. fixed condenser is not necessary.

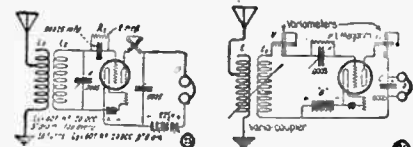


Fig. 23 is the same circuit as that shown in Fig. 11, but with loose coupling between the antenna and the secondary circuit. This circuit provides greater selectivity and is recommended for a long antenna. Fig. 24. This circuit is well known among amateurs as the short-wave regenerative one. It uses two variometers and a variocoupler. A variable condenser is placed on the fumes and at other one could be used to advantage in series with the primary of the coupler.

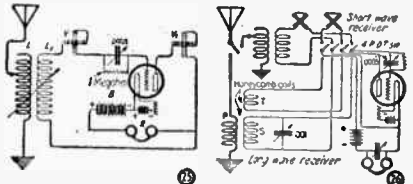


Fig. 25 is the same circuit, but with the fuse connected outside the oscillating circuit, thus suppressing the use of a condenser to shunt them and which is used as a pass-by in the former hook-up. Fig. 26. By the use of a 4-PDT telephone, or anti-capacity switch, the same VT detector may be connected to a short-wave regenerative circuit or a long-wave tuner using honeycomb or other inductances.

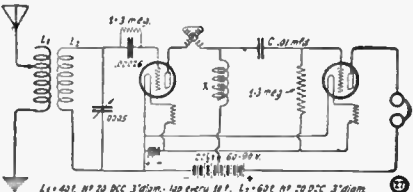


Fig. 27 shows a standard regenerative receiver similar to the one shown in Fig. 23, but with one stage of choke coil coupled audio frequency amplification. The choke coil (A) should have an iron core and be of fairly large size. This type of audio frequency amplification gives very good quality.

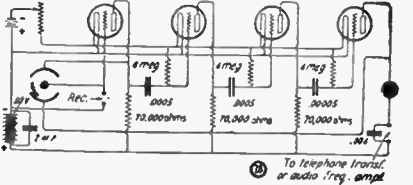


Fig. 28 is a four-stage radio frequency amplifier using resistance coupling. The four tubes act as amplifier and detector at the same time. A small condenser having two fixed and one movable plate is used as a coupling capacity between the plate of the last tube and the grid of the first one to make the tubes oscillate and produce beats for the reception of undamped waves. For waves over 500 meters.

Gentlemen:
You are to be congratulated on your quick service for small orders such as was sent me some time ago, so I am enclosing another small order on the reverse side of this sheet which I feel sure will receive the same quick accurate attention.
JAMES WAY, Lowell, Ohio.

Gentlemen:
In reference to your advertisement in the March Radio News I am writing for your new Rasco catalog No. 12. I have used several Rasco parts and found them of very good quality indeed. Hoping to hear from you soon, I remain
M. J. WARD,
Christchurch, New Zealand

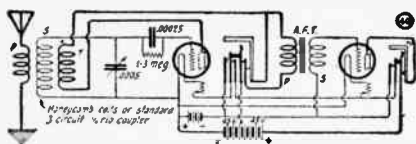


Fig. 40 This diagram shows a standard regenerative circuit with one stage of audio frequency amplification in which automatic flame-out control jacks are used so the tubes light automatically when the telephone plug is inserted in one or another of the jacks.

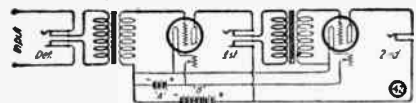


Fig. 42 Here is a circuit of a two-stage audio frequency amplifier. It may be used with any form of detector, either a vacuum tube or a crystal. In the latter case, the input is connected in place of the telephone in the receiver.

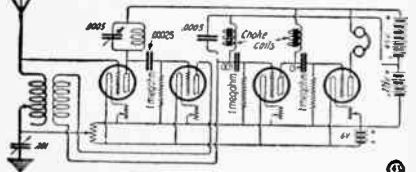


Fig. 43 This circuit is very sensitive and may be used with Myer tubes and choke coils. It consists of one stage of radio frequency, detector and two stages of audio frequency with a feed-back coupling to the first tube.

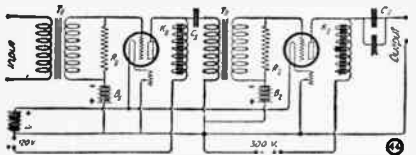


Fig. 44 When it is desired to operate a loud-speaker and obtain great volume of sound, a power amplifier is necessary. A two-stage amplifier of this type is shown in the circuit above with the constants. The 30-Henry choke coils, K1 and K2, may consist of the primary of a W-type bell-ringing transformer, the secondary of which is left open. R1, R2 and leaks, C1 C2 .05 M. P. condensers.

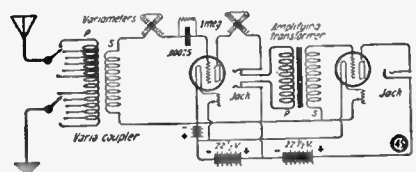


Fig. 45 This hook-up of a regenerative receiver and one-stage amplifier is very efficient for all-around use, as well as for D.K. work. The variable capacitors and variocoupler should be chosen, wound with large size wire, not smaller than No. 22.

Gentlemen:

I have found your JIFFY JACK one of the most useful parts of my radio sets. I experiment with hook-ups, and so like to change connections easily. I fastened a JIFFY JACK to each binding post on my variable condenser and I used round bus bar wire to connect the condenser to the other instruments. I did the same on my tube sockets. I also soldered two clips on my aerial and ground and I use JIFFY JACKS for the binding posts.

EDWARD KELLY,
1959 East 73rd Street, Cleveland, Ohio

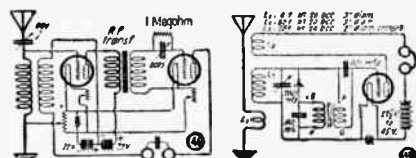


Fig. 46 This diagram shows how to connect a one-stage radio frequency amplifier between any tuner and the detector unit. The radio frequency transformer, if of the air core type, should be preferably shunted by a small variable condenser. Use this hook-up with our R. F. transformer.

Fig. 47 This diagram shows how the tuner and amplifier units may be mounted in separate cabinets. In the tuner, either a variable condenser or a variocoupler may be used for tuning in the secondary circuit.

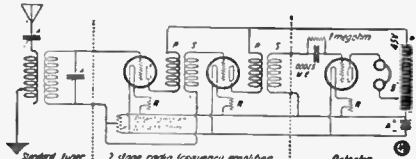


Fig. 48 This circuit is another one-tube reflex, in which the detector and audio frequency amplifier are connected in parallel with the secondary circuit. In this diagram coil L3 is for the purpose of causing regeneration to take place.

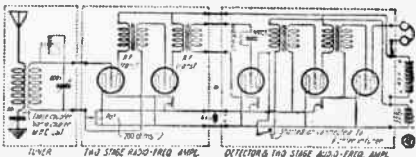


Fig. 49 Hook-up for a two-stage radio frequency amplifier and detector. The dotted lines show where the connections from the tuner to the detector should be cut to insert the amplifier. The correct hook-up for our No. 2900 R. F. transformers.

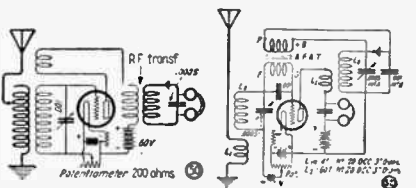


Fig. 50 When only one tube is available, it is sometimes preferable to use it as a radio frequency amplifier, as shown here, a crystal detector being used for rectification. The transformer may be our standard radio frequency transformer No. 2900 or a variocoupler tuned to the incoming waves.

Fig. 51 In this reflex circuit a tuned radio frequency transformer is employed in the plate circuit of the tube. This provides sharper tuning and should be used when interference from other stations is experienced.

Gentlemen:

Congratulations on your quick service. Everything arrived o.k. Am sending you another order which I hope you will fill just as quickly. I remain, a booster for Rasco.

ROBERT W. ACKER, Millsboro, N. Dak.

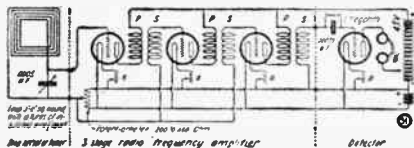


Fig. 51 This three-stage radio frequency amplifier and detector is very sensitive and permits reception on a small loop aerial or with an indoor antenna. The dotted lines mark the separation between the tuner and the detector. Correct hook-up for our R. F. transformers.

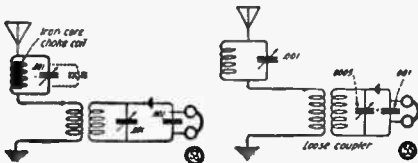


Fig. 53 This trap circuit composed of an iron core choke coil, is useful to eliminate low frequency induction from nearby power lines. The size of the choke coil depends upon the frequency of the interfering buzz, but fixed condensers may be added to the variable one in parallel as shown by the dotted lines, to obtain the proper capacity.

Fig. 55 By means of a "trap" inserted in the antenna circuit, it is possible to eliminate a station causing interference by tuning this trap to the particular wave-length of the interfering signals. This may be used with any type of receiver.

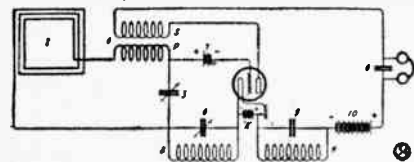


Fig. 54 This is a diagram of the one tube super-regenerative receiver. The constants are as follows: 1—vacuum tube with secondary re-wound with 80 turns of No. 22 D.C.C.; 2—loop aerial 3" square, 12 turns of lamp cord $\frac{1}{4}$ " apart; 3—.0005 M. F.; 4—.0025 M. F.; 5—.001 M. F.; 6—.005 M. F.; 7—3 to 6 volts; 8—L1250 honeycomb coil; 9—L1500 honeycomb coil; 10—90 to 120 volt "B" battery.

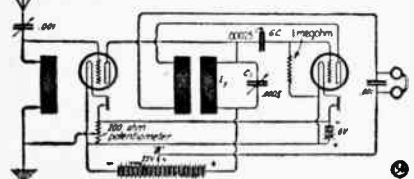


Fig. 56 Here is a very sensitive receiver using two coils and honeycomb coils for the reception of any wave-length. The coil connected in the aerial circuit should be at right angles or away from the two others.

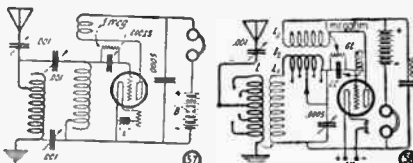


Fig. 57 This is a circuit of a capacity-coupled tuner. This circuit is very selective and gives sharp tuning. The coils may be honeycomb pancake or spider web and should be at right angle.

Fig. 58 This diagram shows how to build a short-wave regenerative receiver with two variocouplers. L and L1 constitute the aerial and secondary circuit, while L2 is the primary of the second coupler acting as a load in the secondary; L3, rotating inside of L2 acts as a tickler coil.

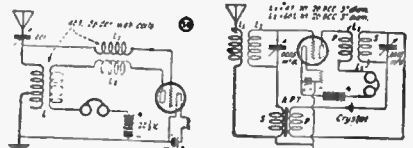


Fig. 59 is another type of single-circuit regenerative receiver in which regeneration can be very finely controlled by means of two spider-web coils.

Fig. 60 is a reflex circuit which is stabilized by grounding the secondary circuit. This form of reflex circuit gives good results.

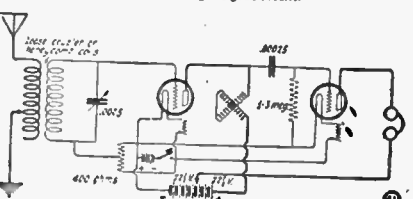


Fig. 61 This circuit shows a one-stage radio frequency amplifier and detector in which the plate circuit of the first tube is tuned by means of a variometer. This circuit is very sensitive and is recommended when the reception of distant stations is desired.

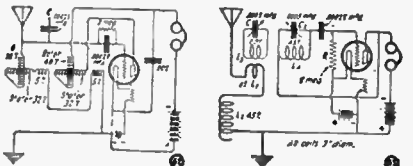


Fig. 62 This regenerative circuit is tuned by means of two No. 8850 variometers and uses two small coils of 5 turns each to couple the tuner to the feed back variometer. All the coils shown horizontally are wound on the same tuning.

Fig. 63 is the Cockaday four-circuit tuner which is another form of regenerative circuit. In this tuner only one turn of wire couples the antenna circuit to the secondary and provides great selectivity.

Notice

The regenerative or feed-back circuit is covered by Armstrong Patent 1,113,149, and the superheterodyne circuit by Fessenden Patents, 1,050,441 and 1,050,728 and Armstrong Patent 1,342,885. The parts listed in this catalogue were not designed or intended to be used in these circuits.

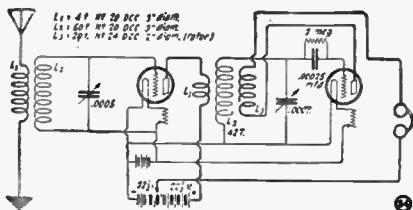


Fig. 64 This circuit has one-stage radio frequency amplification and detector. The latter is made regenerative by a special coupler. This is recommended as it prevents radiation of energy in the antenna circuit even when the detector tube oscillates.

TRANSMITTERS

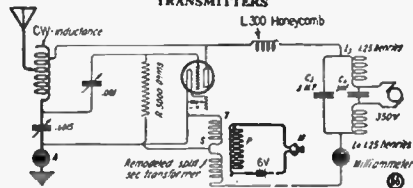


Fig. 66 is a Radiophone using the plate and grid system of modulation. A special modulation transformer having a split secondary should be used. Circuit gives fair results with any number of tubes.

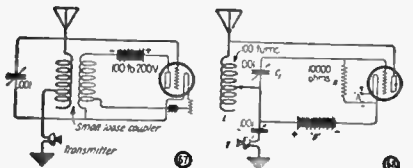


Fig. 67 shows a simple experimental Radiophone that the experimenter may build, using an ordinary short wave coupler and a V. T. A range of a few miles may be obtained with this set using a hard tube.

Fig. 68 a type of oscillating circuit which is suitable for C. W. or phone. If the circuit does not oscillate readily insert a .001 variable condenser in the ground lead and ground the negative of the filament battery.

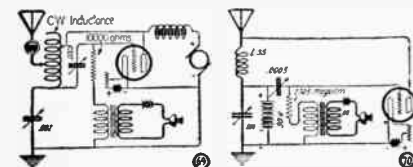


Fig. 69 A very efficient one-tube Radiophone is shown in this sketch. The modulation transformer may be a grid-spark coil, and the H. T. supply a generator or three or more "B" batteries.

Fig. 70 Another simple Radiophone using a honeycomb coil for inductance. This hook-up is also very efficient and simple to operate.

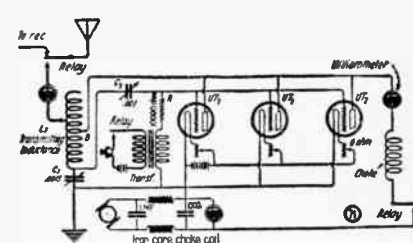
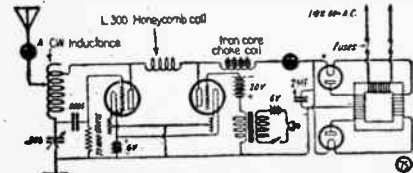


Fig. 71 This Radiophone uses the Colpitts oscillator circuit. Three or more tubes may be used in parallel and a long range is obtained when using transmitting tubes with a 300 V. motor generator.

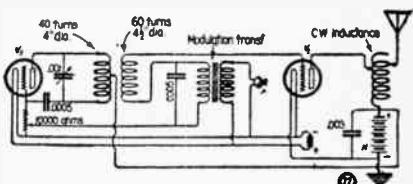


Fig. 72 In this circuit one tube is used as an oscillator and the other as an amplifier. The modulated current is applied upon the grid of the amplifier tube. This gives very good modulation and greater output than the conventional circuit.

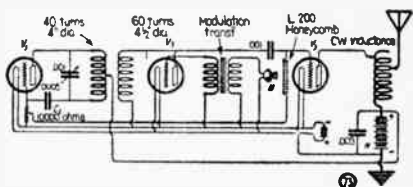


Fig. 73 is well adapted for greater power. One tube is used as oscillator, one as modulator and one or more as amplifier. Excellent results and a very long range may be obtained with this circuit. The same number of tubes should be used as amplifier and modulator.

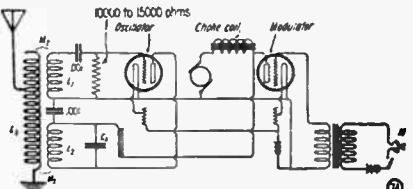


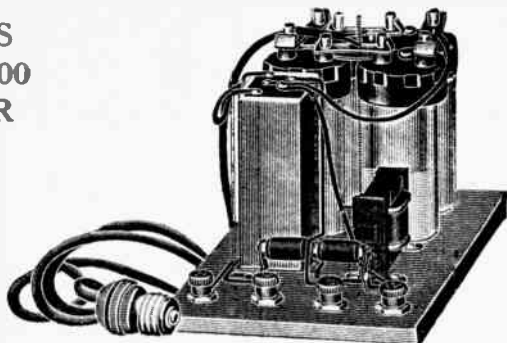
Fig. 74 This is one of the best hook-ups for two tubes. The output is uniform over the entire range of wave-lengths of the set. L1 may consist of 10 turns of heavy wire on a tube 4 1/2" in diameter; L2 and L3 may consist of 14 turns on a tube of the same diameter. The coupling coefficient between the two coils may be of .00075 M. P. and C1 of .00015 M. P. The coil on the right of this condenser is a honeycomb L200.

Fig. 75 This circuit uses one tube as modulator and one as oscillator and is supplied with A. C. The H. T. D. C. is obtained through two rectifier tubes connected to the H. T. winding of the transformer. A low voltage winding with a grounded center tap may also be provided to supply the filament current to the two V. T.s.

Gentlemen:
Enclosed you will find an order for a number of your small parts, some of which I have found to be entirely satisfactory. If the order is given the same prompt attention as my first, it will afford me the utmost satisfaction.
W. E. ZINGG.
112 Abbott Ave., Ocean Grove, N. J.

RASCO "B" ELIMINATOR KIT

USES LESS
THAN \$1.00
PER YEAR
OF YOUR
HOUSE
CURRENT



\$10.25

COMPLETE
NO TUBES
NO ACIDS
TO BUY

Perfect reception in your loud speaker is always limited by the condition of your "B" batteries in series therewith. A 45 volt "B" battery is only considered "good" if it registers ABOVE 38 volts—when they register less than that, they cause "frying" and every conceivable form of noisy background in your speaker. The solution to this problem is the installation of this "B" eliminator, drawing its current from your light socket—assuring you an ever constant "B" battery supply of between 90 to 100 volts, with two intermediate voltages of 22½ to 45 (or any voltage if a variable resistance is inserted in the positive output lead). Should your receiver require 135 volts in the last stage for a power tube, the addition of a 45 volt "B" battery in series with this eliminator (the positive lead of the latter being connected to the minus of the "B" battery) will solve the problem. And, as the power tube will be the only tube to draw current from this added "B" battery, it should last you from 6 to 9 months. The electrolytic principle of rectification has long since been accepted AS THE MOST SATISFACTORY SYSTEM.

The electrolyte lasts about one year, and perhaps only twice a year need distilled water be added thereto. Can be assembled in less than one half hour—nothing further to buy. The kit consists of: 4 Rectifier Jars, complete with Electrodes—Connectors—Filter Condenser Block—Choke Coil—2 Resistances with mounts—full charge of Salts—special base board furnished with 4 hollows cut therein to receive the jars—binding posts—lamp cord with detachable plug—fibre disc and threaded rod—hook-up wire—miscellaneous hardware—Blue Print and Instructions, Shipped Express Collect.

No. 4000—Unassembled "Rasco" "B" Eliminator as described..... **\$10.25**

"RASCO" 2-STAGE AMPLIFIER

"NO-SOD-ER" CONNECTORS



9966

ONLY

\$8.20

POSTPAID

IMPORTANT: Note that in this set, too, we use our famous "No-Sod-er" connectors, making it possible for any one to put the amplifier together within less than an hour's time. Only tools required are a pair of pliers, a screw driver, and your hands.

PARTS INCLUDED IN RASCO 2-STAGE AMPLIFIER:

No. 710—1 Mahogany Cabinet, 7x10"	\$2.60
No. 7100—1 Diectrite Panel	0.65
No. 9502—3 Rasco Transformers, 3 to 1, ea.	\$1.50.. 3.00
No. 5335—1 Jones 2-Circuit Jack	0.75
No. 6315—2 Bakelite Sockets, each 25c.	0.50
No. 4308—1 Bakelite 8-ohm Rheostat, Patent.	0.45
No. 5068—1 Binding Post Nameplate, each 2c.	0.20
No. 201—1 Rasco Binding Posts, each 4c.	0.40
No-Sod-er Wire Connectors, Full blueprints and directions	0.75

Total \$9.51

No. 9966 OUR PRICE **\$8.20**

Most sets require a two-stage amplifier. This two-stage amplifier is needed particularly when you have a 1-tube set, or our reflex set, illustrated elsewhere in this catalog. Where the usual 1-tube set, as a rule, brings in stations on the headphones only, the addition of a 2-stage amplifier will make it possible to use the loud speaker on the set.

This set uses all of our standard apparatus and is offered at a real bargain price, as an inducement to buy our parts. Full directions, with blueprints, are furnished and we guarantee results from this amplifier to equal any other two-stage amplifier on the market.

THE RASCO SONATA RECEIVER

No. 9658 Complete, Receiver, Adjustable unit, Built-in Loud-Speaker and Cabinet

\$35.95



No. 8923 CABINET ONLY \$17.45

Only RASCO could offer such value as this receiver for so reasonable a price. We guarantee you 100% satisfaction with this receiver! And by satisfaction we mean it will be capable of very selective tuning, maximum sensitivity to the most distant stations, volume and clarity as you would desire it. In fact, it is very comparable to our Rasco LEADER No. 9056, to which you may refer for a general description. The panel is genuine bakelite, with very pleasing decorations. The dial numbers are etched directly upon the panel. An oversized knob, attached to the condenser tuning shafts, is used for the tuning. Two jacks on the panel allow an optional use of an external loud speaker or head phones. Two rheostats and a battery switch complete the panel layout. You will note the very exclusive feature on this Radio receiver—when it is not in operation, the hinging front cover completely conceals the panel; this makes a very striking and pleasing appearance—for, once you have tuned in a station, and wish to “stand by” to enjoy its program, you can close the cover, incidentally preventing anybody from disturbing the dial settings. When this cover is down, it makes a very convenient arm rest, while tuning the receiver. The top cover also hinges to provide for immediate access to the tubes for adjusting the loud speaker unit, or, for inspection of the actual interior of the Radio receiver. The loud speaker furnished is composed of an unusually well designed metal throat and wood tone chamber covered by a very attractive scrolled grill. The unit is very powerful, for, to meet the requirements of this receiver, it MUST BE; once adjusted, it need never again be touched. The tubes fit into the latest type of U.X. sockets, which are built into the sub-base panel—and which provide for the use of either UX 199 dry cell tubes (3 volts), or the 201A storage battery type. The variable condensers are the latest straight line corrected frequency models; the audio transformers are equal in performance to the same type used in very much more expensive receivers—in fact, we have made NO SACRIFICE in the ELECTRICAL QUALITY or MECHANICAL DURABILITY of any of the component parts used in this receiver. We fully realize that you as a pleased customer will be our very best advertisement; for you will recommend all our products to your many friends—extensive newspaper and magazine advertising would make this self-same receiver sell for 5 times its modest cost. To make you ever boastful to show this receiver to your friends and to warrant its entry into your living room, we have enclosed it in a very attractive two-toned MAHOGANY CABINET, with a finish thereon usually found only on high priced furniture. The overall dimensions of this receiver are 28 inches long by 11 inches deep by 8 inches high.

No. 9658 Rasco Sonata Radio Receiver, Complete with Built-in Loud Speaker and Adjustable Unit..... \$35.95

Due to weight, sent by Express Collect.

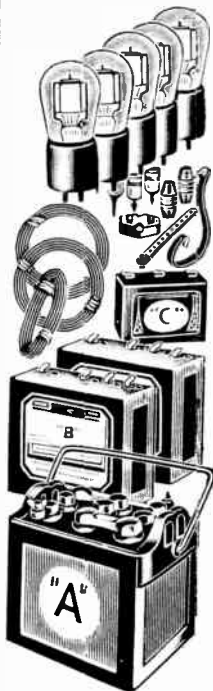
No. 8923 Cabinet Only, Without Receiver, Built-in Loud Speaker and Adjustable Unit Included. Panel size: 7 inches high by 18 inches long. Overall dimensions: 28 inches long, 11 inches deep, 8 inches high..... \$17.45

Due to weight, sent by Express Collect.

Radio Receiver Accessories

\$26.55

COMPLETE AS SHOWN



Any Radio receiver is only as good as the batteries that supply it with the necessary power, the radio bulbs that are really the heart of every receiver, and the aerial equipment. And for that reason, we exercise extreme care in selecting only those accessories which will be the very best that we know of for the purpose in mind—these are the accessories we recommend for all our kits and sets.

The storage battery is of the latest type, our Number 9100; its purpose is to light the bulbs. The two “B” batteries are our Number 4500; their purpose is to place a positive polarity on the plates in all the tubes as well as to furnish the current to the electro magnets in the loud speaker, causing the diaphragm within to vibrate in accordance with the variations controlled by the tubes. The 4½-volt “C” battery, recommended in some of our kits and sets, is guaranteed to render service for one year. The bulbs are of our superior Musselman tubes described elsewhere in this catalogue—Laboratory tests have conclusively proven them to be superior to any other make of tube. The aerial equipment is of the very best manufacture, and

comprises whatever materials are necessary for the construction of an average antenna.

1	100 ampere hour 6-volt storage battery.....	\$9.50
2	15-volt large size “B” batteries at \$2.50.....	\$4.60
1	4½-volt “C” battery.....	\$0.55
5	Musselman 5VA 5-volt tubes at \$1.80.....	\$9.00
1	Complete Aerial Kit as illustrated.....	\$4.50

\$28.15

No. 9071 Your Special Price..... \$26.55

If your receiver does not call for a “C” battery, you may omit same, and deduct from your remittance. Due to the excessive weights of the batteries, the above material must be shipped via Express Collect. We do not list head phones or loud speakers in the above, as you may wish to make your own selection.

The Rasco 5-Tube Radio Receiving Set

OUR LEADER



No. 9056

De Luxe Appearance

In this current model we have dispensed with the conventional bakelite panel, and substituted a much more costly panel of Walnut 5-ply wood, beautifully grained and finished. The instruments attached thereto do not require any electrical insulation, therefore, the bakelite can be successfully eliminated. The dial plates are very attractively antique gold finished, with the dial numbers hand-painted colored thereon. The large knobs are a perfect match to the finished surface of the panel. The thermostat and switch plates and knobs are identical in general appearance. The cabinet is highly polished, fine finished walnut, and will grace the appearance and cement decorative effects of any room. The panel is slightly set at an angle, for easier manipulation of the dials, and better vision thereof. The setwax holding the panel are also gold plated.

Simple Operation

The three large knobs are rotated together, and, as a rule, they will each be set to the same corresponding number on each of the dial plates. For instance, WRNY may come in at 60 ON EACH OF THE DIALS. Once you have recorded a station, with the dial readings and station call letters, to listen in again to that set-aside station, you merely have to set your three large dials to these previously recorded settings. One of the two smaller knobs controls the volume, which can be regulated from the softest whispers to the loudest roarings of a masterpiece selection, in any degree you may desire. The other knob tunes the batteries on and off—one simple little quarter turn. Any child can successfully operate this receiver.

Ultra Selective

If you live in a large city, or comparatively near one, it is all important your choice of a receiver be for one that will be able to tune out any unwanted station completely. In some cities, like New York, Chicago, etc., there are so many radio stations, and such close proximity, that it is correctly deemed, and well justified, that only one station be heard at once. Laboratory and practical tests with this receiver enables us to assure you that it will positively tune in only one station at a time.

Ultra Sensitive

The thrill of distance reception is bound to impress you and make of you a Radio fan—millions of whom "explode" the ether every night throughout the world. Many a one "sits up" for a while and with a disconcerted shrug of the shoulder, turns off the set, with the belief that there are no other distant stations broadcasting that night other than what he has tuned in. But he is mistaken—if he owned one of these Radios, he would find himself still "listening in" to stations located in every nook and corner of the United States till the very small hours of the morning. The very fact that this receiver is so ultra sensitive also assures you that if your hometown is located a few hundred miles from the nearest broadcasting station, you will enjoy their programs with surprising volume and clarity, whereas other machines of inferior sensitivity might receive the same station under the same adverse conditions, as if it were the most distant one.

\$25.55

as illustrated

\$23.45

without cabinet

Volume With Perfect Clarity

There are many receivers which can be forced to produce volume at the costly expense of clarity—and after all your sense of enjoyment of the Radio Programs is solely dependent on the clarity with which you may receive these programs. Our efforts to produce clarity with volume have met with success, but it required many months of deliberate and laborious experimentation. The first passages of music that you will hear over this Radio will thrill you with its 100% fidelity of rendition.

The Circuit Employed

None out of every ten receivers in use today use two stages of tuned radio frequency amplification, one tuned detector stage and two stages of audio frequency amplification. So do we, but, herein lies the difference. The quality of parts used, and the method employed to eliminate self-oscillations, and the method employed to eliminate self-oscillations. If this is to be the first Radio receiver you will have owned, let us assure you that we have striven to give you the very best possible apparatus, but, if you are acquainted with Radio circuits, the following description convinces you: The variable condensers are of the latest straight line corrected frequency type—the sockets are the U.X. model, enabling the choice of either storage battery or dry cell tubes (U.X. 130 type)—the coils are of approved low loss design, and will cover all wave lengths between 200 and 550 meters—the detector and amplifying tubes are controlled by fixed resistances, whereas the two R.F. tubes are controlled by the thermostat on the panel, as a volume and partly oscillation control, very essential on the most distant stations—the audio transformers are of low ratio, perfectly balanced and capable of tremendous volume—the coils are placed at angular positions to each other, and carefully separated, to reduce self-oscillations. Points to merit list but, rarely soldered at joints, system employed for maximum efficiency. All wiring, coils and auto transformers are rigidly attached on the under side of a bakelite sub-base panel, preventing mischievous handling thereof. The last stage of audio frequency has separate binding posts for additional voltages for both "B" and "C" batteries, should you care to use a Power tube for maximum clarity, volume, etc. Remaining battery wires are connected to the receiver by means of 5-wire cable, carefully tagged for identification. Detailed instructions for installation and operation included with each receiver. Panel size, 7 inches by 18 inches—about 6½ inches deep. We recommend the list of accessories described elsewhere in this catalogue, and box of our hand speakers. Shipped express collect.

No. 9056 5-tube Receiver as illustrated and described. **\$25.55**

No. 9057. Same receiver as above, but without a cabinet. Can be installed in any of our consoles, or in your own cabinet. **\$23.45**