

RADOLEK 1935

RADIO PROFIT GUIDE
for DEALERS-
RADIO SERVICEMEN

**TUBE
PRICES/
REDUCED**
SEE PAGE 4-A

MODEL RADIO SERVICE
AUTO RADIOS INSTALLED



**YOUR
STORE**

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

RADOLEK CO.
601 W. RANDOLPH ST. CHICAGO.



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 "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 5x7x10 1/2 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 rug 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, 1-13, 1-6C6, 1-6D6.

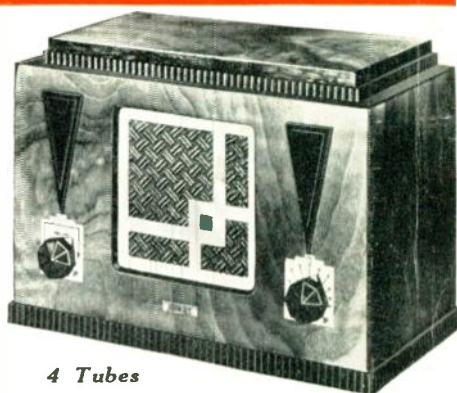
Just the Set for those who favor the striking new modernistic designs, and a marvelous bargain. Made to sell to the Trade at \$11.63; you get an extra discount of about 19% at our price. 110-120 volt A.C.-D.C.

14E10977—

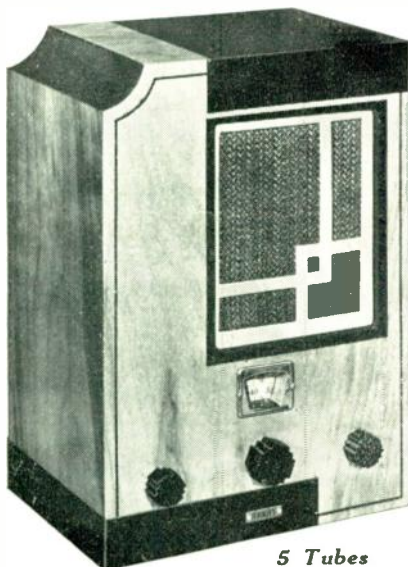
List Price, \$22.95.

YOUR PRICE

\$11⁹⁵



4 Tubes



5 Tubes

ARKAY MODEL RK50

- 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 RK 50 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**, 6 1/2 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, 1-57, 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

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

The Arkay Model RK 60 is somewhat larger than the RK 50 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

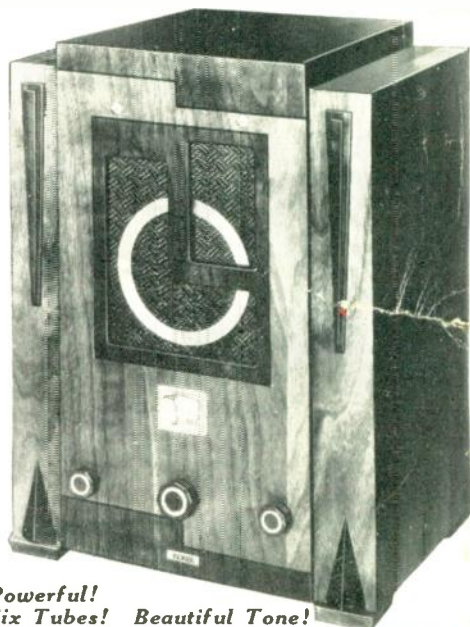
console type Receivers. The illuminated Dial is vernier driven and is graduated in kilocycles. **Tone Control** and **delayed Automatic Volume Control** are incorporated. Housed in a beautiful modernistic, two-tone walnut finished cabinet with chrome ring in grill, chrome escutcheon and chrome trimmed knobs. Size 11 1/4 x 8 3/4 x 15 inches high. Tubes used and supplied: 1-57, 1-58, 1-55, 2-45s, 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!**



NEW REDUCED TUBE PRICES!

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The following revised List and Net Prices for Arcturus, Philco, Gold Seal, and Raytheon Tubes are now in effect, superceding all Tube Prices shown on pages 5 to 11 of the 1935 RADOLEK PROFIT GUIDE. RCA-Cunningham tubes are also available at these List Prices, subject to the discount specified in your consignment contract.

Deduct an Additional 10 per cent for Lots of 25 assorted Arcturus Tubes

ARCTURUS		PHILCO		TUBE TYPE NUMBER	NEW LIST PRICE	GOLD SEAL		RAYTHEON		ARCTURUS		PHILCO		TUBE TYPE NUMBER	NEW LIST PRICE	GOLD SEAL		RAYTHEON	
Stock Number	Your Price	Stock Number	Your Price			Stock Number	Your Price	Stock Number	Your Price	Stock Number	Your Price	Stock Number	Your Price			Stock Number	Your Price	Stock Number	Your Price
3E700	\$0.32	3E626	\$0.32	00A	\$2.00	3E520	\$0.96	3E781	\$1.06	3E741	\$0.40	3E677	\$0.40	56	\$0.75	3E571	\$0.36	3E819	\$0.40
3E701	.79	3E627	.79	01A	.60	3E521	.27	3E782	.32	3E742	.58	3E678	.58	57	1.10	3E572	.52	3E820	.58
		3E628	.85	1A6	1.50	3E523	.68	3E785	.79	3E743	.58	3E679	.58	58	1.10	3E573	.52	3E821	.58
		3E629	.53	1C8	1.60	3E524	.77			3E744	.85	3E680	.85	59	1.60	3E574	.76	3E822	.85
		3E593	.58	1V	1.00	3E522	.48	3E783	.53										
				2	1.10														
3E702	.93	3E630	.93	2A3	1.75	3E525	.84	3E766	.93	3E745	.37	3E681	.37	71A	.70	3E575	.33	3E823	.37
3E703	.58	3E631	.58	2A5	1.10	3E526	.52	3E767	.58	3E746	.58	3E682	.58	75	1.10	3E576	.52	3E824	.58
3E704	.58	3E632	.58	2A6	1.10	3E527	.52	3E768	.58			3E683	.48	76	.90	3E577	.43	3E825	.48
3E705	.69	3E633	.69	2A7	1.30	3E528	.62	3E769	.69	3E747	.63	3E684	.63	77	1.20	3E578	.57	3E826	.63
3E707	.79	3E634	.79	2B7	1.60	3E530	.72	3E770	.79	3E748	.63	3E685	.63	78	1.20	3E579	.57	3E827	.63
3E706	1.32			2B6	2.60	3E529	1.13			3E749	.69	3E686	.69	79	1.30	3E580	.62	3E828	.69
		3E594	.93	3	1.75							3E687	.37	80	.70	3E581	.32	3E829	.37
		3E595	.85	4	1.60					3E751	1.32	3E688	1.32	81	2.50	3E582	1.19	3E830	1.32
		3E596	.85	5	1.60					3E752	.48	3E689	.48	82	.90	3E583	.43	3E831	.48
3E708	.63	3E635	.63	5Z3	1.20	3E531	.57	3E771	.63	3E753	.58	3E690	.58	83	1.10	3E584	.52	3E832	.58
		3E636	.74	6A4/LA	1.40	3E532	.67	3E772	.74	3E754	.69	3E691	.69	84	1.30	3E585	.62	3E833	.69
3E711	.58	3E637	.58	6C6	1.10	3E535	.52	3E775	.58	3E755	.58	3E692	.58	85	1.10	3E586	.52	E834	.58
3E712	.58	3E638	.58	6D6	1.10	3E536	.52	3E776	.58	3E756	.63	3E693	.63	89	1.20	3E587	.57	3E835	.63
3E709	.69	3E639	.69	6A7	1.30	3E533	.62	3E773	.64	3E757	.53	3E694	.66	V09	1.25	3E588	.60	3E836	.66
3E710	.74	3E640	.74	6B7	1.40	3E534	.67	3E774	.74			3E695	.53	N99	1.00	3E589	.48	3E837	.53
3E713	.85	3E641	.85	6F7	1.60	3E537	.77	3E777	.85	3E758	.95		3E699	3.57	866	6.75			
3E714	1.32	3E642	1.32	10	2.50	3E538	1.19	3E784	1.32	3E759	1.08			AF	1.80				
				WD11	3.00	3E539	.93	3E785	1.59					AG	2.05				
				WX12	3.00			3E786	1.59					GA	2.75				
				12	3.00									BA	7.50				
3E715	.48	3E643	.48	12A	.90	3E540	.43	3E787	.48					BH1	4.65			3E838	3.97
3E716	.58	3E644	1.11	12A5	2.10	3E541	.51	3E778	1.11					BR	2.75			3E839	2.46
		3E645	.58	12Z3	1.10			3E779	.58					874	4.00			3E840	1.45
		3E597	1.19	14	2.25									876	6.70				
		3E646	1.51	15	2.85									886	6.75				
		3E625	.79	17	1.50														
		3E647	1.45	18	2.75	3E542	.57	3E788	.63										
		3E648	.63	19	1.20	3E543	.71	3E789	.79										
		3E649	.79	20	1.50	3E544	.71	3E790	.79										
		3E650	.79	22	1.50														
3E719	.58	3E651	.58	24A	1.10	3E545	.51	3E791	.58										
3E720	.85	3E652	.85	25Z5	1.60	3E546	.77	3E790	.85										
3E721	.34	3E653	.34	26	.65	3E547	.29	3E792	.34										
3E722	.37	3E654	.37	27	.70	3E548	.32	3E793	.37										
3E723	.42	3E655	.42	30	.80	3E549	.38	3E794	.42										
3E724	.42	3E656	.42	31	.80	3E550	.38	3E795	.42										
3E725	.74	3E657	.74	32	1.40	3E551	.67	3E796	.74										
3E726	.74	3E658	.74	33	1.40	3E552	.67	3E797	.74										
3E727	.79	3E659	.79	34	1.50	3E553	.71	3E798	.79										
		3E660	.58	35,51	1.10	3E554	.52	3E799	.58										
3E728	.58	3E661	.58	36	1.10	3E555	.52	3E800	.58										
3E729	.45	3E662	.45	37	.85	3E556	.41	3E801	.45										
3E730	.58	3E663	.58	38	1.10	3E557	.52	3E802	.58										
3E731	.63	3E664	.63	39/44	1.20	3E558	.57	3E803	.63										
				40	.80	3E559	.38	3E804	.42										
3E732	.58	3E665	.58	41	1.10	3E560	.52	3E805	.58										
3E733	.63	3E666	.63	42	1.20	3E561	.57	3E806	.63										
3E734	.66	3E667	.66	43	1.25	3E562	.60	3E807	.66										
				44	1.20			3E808	.63										
3E735	.40	3E669	.40	45	.75	3E563	.34	3E809	.40										
3E736	.63	3E670	.63	46	1.20	3E564	.57	3E810	.63										
3E761	.69	3E671	.69	47	1.30	3E565	.52	3E811	.69										
		3E672	1.59	48	3.00	3E566	1.30	3E812	1.59										
		3E673	.58	49	1.10	3E567	.52	3E813	.58										
3E737	1.32	3E674	1.32	50	2.50	3E568	1.19	3E814	1.32										
3E738	.58			51	1.10			3E799	.58										
				52	1.60			3E816	.85										
3E739	.71	3E675	.71	53	1.35	3E569	.64	3E817	.71										
3E740	.58	3E676	.58	55	1.10	3E570	.52	3E818	.58										

MAJESTIC Types S Indicates Spray Shield									
		3E598	\$1.22	2A78	\$2.30	3E510	\$1.03	3E851	\$1.22
		3E599	1.11	2B78	2.10				
		3E600	1.40	25/48	2.65				
		3E601	.98	22Z/C84	1.85				
		3E602	1.22	6A7S	2.30	3E511	1.03	3E852	1.22
		3E603	1.11	6B78	2.10	3E512	.94	3E853	1.11
		3E604	1.07	6C7	1.90			3E855	1.00
		3E605	.93	61Z7	1.75	3E513	.79	3E856	.93
		3E606	.93	61Z7	1.75	3E514	.79	3E857	.93
		3E607	1.00	6F78	1.90	3E515	.85	3E854	1.00
3E717	.79	3E608	1.00	6Y5	1.90			3E858	1.00
		3E609	.79	6Z5/12Z5	1.50				
		3E610	.69	24S	1.30	3E500	.59	3E841	.69
		3E611	1.96	25/25S	3.70				
		3E612	.42	27S	.80	3E501	.36	3E842	.42
		3E613	.74	35S/51S	1.40	3E502	.63	3E843	.74
		3E614	.58	46A1	1.10				
		3E615	.58	46B1	1.10				
		3E616	.58	50S	1.70	3E503	.76	3E844	.90
		3E617	.69	56A8	1.30				
		3E618	.69	56B8	1.30	3E504	.59	3E845	.69
		3E619	.93	57S	1.75	3E505	.79	3E846	.93
		3E620	.93	57A8	1.75			3E847	.93
		3E621	.93	58S	1.75			3E848</	

MAJESTIC Types S Indicates Spray Shield

		3E598	\$1.22	2A7S	\$2.30	
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RADOLEK REVISED TUBE PRICE LIST

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DOWN
GO TUBE PRICES
UP
GO SALES!

Since this catalog was published the list prices of 61 types of radio tubes were reduced. The revised prices shown on this supplement supersede prices of these 61 types.

Our Policy

It is our policy to give our customers the benefit of all price reductions at the time they are announced by the manufacturer. All orders for tubes shipped by us since tube prices were reduced have been shipped at the new low net prices specified on this schedule. Our policy of giving you the benefit of any price reductions applies to all the merchandise listed in this catalog. Regardless of the price you specified on your order, if any reductions have occurred on any items you ordered, Radolek will give you the advantage of the lowest prices in effect at the time your order is received.

Reduced Prices, But No Reduction in Your Profit Margin

At the list prices now in effect you can sell complete sets of tubes at a figure equal to what only two or three tubes cost a few years ago. There are dozens of receivers in your own locality that are not in operation or perform poorly because of defective and worn out tubes. The new list prices will lower the sales resistance you may have previously encountered. Increase your tube profits by pushing sales. These low prices will bring you business that you could not get before. Your margin of profit on all brands of tubes we list remains the same.

Make RADOLEK Your Tube Headquarters

We carry complete stocks of all National. y Advertisd brands of Radio Receiving Tubes and offer you complete co-operation on any lines of Tubes you may select from our listings. All of the manufacturers whom we represent have free advertising material available to the Trade and we are always glad to supply our Dealers with this material. Make RADOLEK your headquarters for everything you need in Radio Merchandise. Our Service, Prices, Quality, and Co-operation will save you money!

The Radolek Co.
601 W. Randolph St.
CHICAGO

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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 latest modern equipment. Our personnel is trained to the business and has keen understanding of your need for accurate and prompt shipment of your orders.

Largest Complete Stock The most comprehensive stock of Radio in the country has again been amplified to include practically every desirable item that you will require. 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
604 N. WASHINGTON STREET
CHICAGO

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 consistently 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 "cut-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 delay. 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 hustling 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 scouring 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 skilled 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 "B" 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 so state plainly on your order.

PHILCO Balanced TONE TUBES



**Nationally
Adver-
tised
By Philco
for
Replace-
ment
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	2S/48	2.65	1.40
3E601	22Z/84	1.85	.98
3E602	6A7S	2.30	1.22
3E603	6B7S	2.10	1.11
3E604	6C7	1.90	1.00
3E605	6D7	1.75	.93
3E606	6E7	1.75	.93
3E607	6F7S	1.90	1.00
3E608	6Y5	1.90	1.00
	6Z4 (Same as Philco 84)		
3E609	6Z5/12Z5	1.90	1.00
3E610	24S	1.30	.69
3E611	25/25S	3.70	1.96
3E612	27S	.80	.42
3E613	35S/51B	1.40	.74
3E614	40A1	1.10	.58
3E615	40B1	1.10	.58
3E616	55K	1.70	.90
3E617	56AS	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
3E593	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	1.60	.85
3E635	5Z3	1.50	.79
3E636	6A4/1A	1.60	.85
3E637	6C6	1.25	.66
3E638	6D6	1.25	.66
3E639	6A7	2.20	1.16
3E640	6B7	2.00	1.06
3E641	6F7	1.80	.95
3E642	10	6.00	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	1.19
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	1.81
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	V99	2.25	1.19
3E695	X99	1.50	.79
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 .008 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
3E762	6B6	2.50	1.32	3E746	75	1.60	.85
3E710	6B7	2.00	1.06	3E747	77	1.80	.95
3E711	6C6	1.25	.66	3E748	78	1.80	.95
3E712	6D6	1.25	.66	3E749	79	2.60	1.37
3E713	6F7	1.80	.95	3E750	80	.70	.37
3E714	10	5.00	2.65	3E751	81	3.50	1.85
3E715	12A	1.30	.69	3E752	82	1.20	.63
3E716	12Z3	1.20	.63	3E753	83	1.55	.82
3E717	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	.70	.37	3E757	99UX	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	GA	2.75	1.45
3E725	32	1.90	1.00	3E761	PZ(47)	1.30	.69
3E726	33	2.10	1.11				
3E727	34	2.15	1.14				
3E728	36A	1.50	.79				
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.

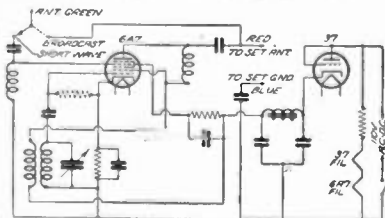
3E706—List, \$2.50. YOUR PRICE \$1.32

A. C.—D. C. SHORT WAVE SCOUT

Latest Style Circuit

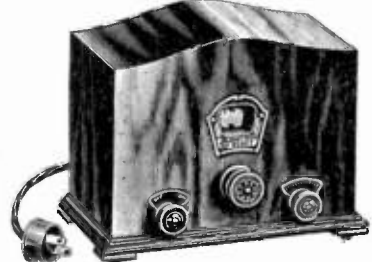
Tunes 20-200 Meters on Any Broadcast Receiver

USES THE NEW 6A7 ELECTRON COUPLED detector-modulator tube in a new highly efficient frequency converter superheterodyne circuit. Two coils 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 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.



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 moderate the 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 world 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 1/2" 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 tube 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¢**

2A3 Triode Power Amplifier
3E766—
List, \$2.25. YOUR PRICE **\$1.19**

2A5 Pentode Power Amplifier
3E767—
List, \$1.60. YOUR PRICE .. **85¢**

2A6 Diode Det. Triode Amp.
3E768—
List, \$1.60. YOUR PRICE .. **84¢**

2A7 Detector-Oscillator
3E769—
List, \$2.20. YOUR PRICE **\$1.16**

2B7 Diode Det. Pentode Amp.
3E770—
List, \$2.00. YOUR PRICE **\$1.06**

5Z3 Full Wave Rectifier
3E771—
List, \$1.50. YOUR PRICE .. **79¢**

6A4 Pentode Power Amplifier
3E772—
List, \$1.60. YOUR PRICE .. **85¢**

6A7 Detector and Oscillator
3E773—
List, \$2.20. YOUR PRICE **\$1.16**

6B7 Diode Det., Pentode Amp.
3E774—
List, \$2.00. YOUR PRICE **\$1.06**

6C6 Pentode Det. or Amp.
3E775—
List, \$1.25. YOUR PRICE .. **66¢**

6D6 Pentode Det. or Amp.
3E776—
List, \$1.25. YOUR PRICE .. **66¢**

6F7 Triode Pent. Det. & Osc.
3E777—
List, \$1.80. YOUR PRICE .. **95¢**

12A5 Pentode Power Amplifier
3E778—
List, \$2.10. YOUR PRICE **\$1.11**

12Z3 Half Wave Rectifier
3E779—
List, \$1.20. YOUR PRICE .. **63¢**

25Z5 Voltage Doubling Rect.
3E780—
List, \$2.00. YOUR PRICE **\$1.06**

00A Triode Det. or Amplifier
3E781—
List, \$4.00. YOUR PRICE **\$2.12**

01A Triode Detector or Amplifier
3E782—
List, 60c. YOUR PRICE **32¢**

1-V Half Wave Rectifier
3E783—
List, \$1.25. YOUR PRICE .. **66¢**

10 Triode Power Amp. or Osc.
3E784—
List, \$5.00. YOUR PRICE **\$2.65**

WD11 Triode Detector
3E785—
List, \$3.00. YOUR PRICE **\$1.59**

WX12 Triode Detector
3E786—
List, \$3.00. YOUR PRICE **\$1.59**

12A Triode Det. or Amp.
3E787—
List, \$1.30. YOUR PRICE .. **69¢**

19 Twin Class B Triode Amp.
3E788—
List, \$1.50. YOUR PRICE .. **79¢**

20 Triode Power Amplifier
3E789—
List, \$3.00. YOUR PRICE **\$1.59**

22 Screen Grid Det. or Amp.
3E790—
List, \$2.00. YOUR PRICE **\$1.06**

24A Screen Grid Det. or Amp.
3E791—
List, \$1.20. YOUR PRICE .. **63¢**

26 Triode Amplifier
3E792—
List, 65c. YOUR PRICE ... **34¢**

27 Triode Det. or Amplifier
3E793—
List, 70c. YOUR PRICE ... **37¢**

30 Triode Det. or Amplifier
3E794—
List, \$1.30. YOUR PRICE .. **69¢**

31 Triode Power Amplifier
3E795—
List, \$1.30. YOUR PRICE .. **69¢**

32 Screen Grid Det. or Amp.
3E796—
List, \$1.90. YOUR PRICE **\$1.00**

33 Pentode Power Amplifier
3E797—
List, \$2.10. YOUR PRICE **\$1.11**

34 Variable Mu Pentode Amp.
3E798—
List, \$2.15. YOUR PRICE **\$1.14**

35 Variable Mu Amplifier
3E799—
List, \$1.30. YOUR PRICE .. **69¢**

36 Screen Grid Det. or Amp.
3E800—
List, \$1.50. YOUR PRICE .. **79¢**

37 Triode Det. or Amplifier.
3E801—
List, \$1.20. YOUR PRICE .. **63¢**

38 Pentode Power Amplifier.
3E802—
List, \$1.45. YOUR PRICE .. **77¢**

39 Variable Mu Pentode Amp.
3E803—
List, \$1.50. YOUR PRICE .. **79¢**

40 Triode Det. or Amplifier
3E804—
List, \$2.00. Your Price ... **\$1.06**

41 Pentode Power Amplifier
3E805—
List, \$1.60. YOUR PRICE .. **84¢**

42 Pentode Power Amplifier
3E806—
List, \$1.60. YOUR PRICE .. **84¢**

43 Pentode Power Amplifier
3E807—
List, \$2.50. YOUR PRICE **\$1.32**

44 Variable Mu Pent. Amp.
3E808—
List, \$1.50. YOUR PRICE .. **79¢**

45 Triode Power Amplifier
3E809—
List, 75c. YOUR PRICE **40¢**

46 Dual Purpose Power Amp.
3E810—
List, \$1.55. YOUR PRICE .. **82¢**

47 Pentode Power Amplifier
3E811—
List, \$1.30. YOUR PRICE .. **69¢**

48 Power Amplifier
3E812—
List, \$3.00. YOUR PRICE **\$1.59**

49 Dual Purpose Power Amp.
3E813—
List, \$1.70. YOUR PRICE .. **90¢**

50 Triode Power Amplifier
3E814—
List, \$4.00. YOUR PRICE **\$2.12**

51 Variable Mu Amplifier
3E799—
List, \$1.30. YOUR PRICE .. **69¢**

52 Dual Purpose Power Amp.
3E816—
List, \$1.60. YOUR PRICE .. **84¢**

53 Twin Class B Triode Amp.
3E817—
List, \$1.80. YOUR PRICE .. **95¢**

55 Diode Det. & Triode Amp.
3E818—
List, \$1.60. YOUR PRICE .. **84¢**

56 Triode Det. or Amplifier
3E819—
List, \$1.20. YOUR PRICE .. **63¢**

57 Pentode Det. or Amplifier
3E820—
List, \$1.65. YOUR PRICE .. **87¢**

58 Variable Mu Pentode Amp.
3E821—
List, \$1.65. YOUR PRICE .. **87¢**

59 Universal Power Amp.
3E822—
List, \$2.00. YOUR PRICE **\$1.06**

71A Triode Power Amplifier
3E823—
List, 75c. YOUR PRICE **40¢**

75 Diode Det. & Triode Amp.
3E824—
List, \$1.60. YOUR PRICE .. **84¢**

76 Triode Det. or Amplifier
3E825—
List, \$1.20. YOUR PRICE .. **63¢**

77 Pentode Det. or Amp.
3E826—
List, \$1.80. YOUR PRICE .. **95¢**

78 Var. Mu Pent. Det. or Amp.
3E827—
List, \$1.80. YOUR PRICE .. **95¢**

79 Twin B Triode Power Amp.
3E828—
List, \$2.60. YOUR PRICE **\$1.37**

80 Full Wave Rectifier
3E829—
List, 70c. YOUR PRICE **37¢**

81 Half Wave Rectifier
3E830—
List, \$3.50. YOUR PRICE **\$1.85**

82 Full Wave Mercury Rect.
3E831—
List, \$1.20. YOUR PRICE .. **63¢**

83V Full Wave Rectifier
3E832—
List, \$1.55. YOUR PRICE .. **82¢**

84 Full Wave Rectifier
3E833—
List, \$1.75. YOUR PRICE .. **93¢**

85 Diode Det. & Triode Amp.
3E834—
List, \$1.60. YOUR PRICE .. **84¢**

89 Universal Power Amp.
3E835—
List, \$1.80. YOUR PRICE .. **95¢**

V99 Triode Det. or Amplifier
3E836—
List, \$2.25. YOUR PRICE **\$1.19**

X99 Triode Det. or Amplifier
3E837—
List, \$1.50. YOUR PRICE .. **79¢**

BA Full Wave Gaseous Rect.
3E838—
List, \$7.50. YOUR PRICE **\$3.97**

BH Full Wave Gaseous Rect.
3E839—
List, \$4.65. YOUR PRICE **\$2.46**

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.

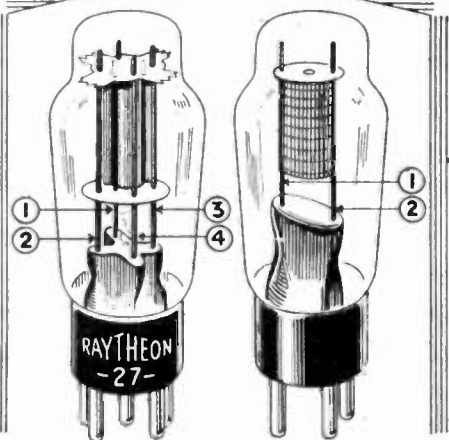
Complete Selection

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—a 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—
List. \$1.30. YOUR PRICE **69¢**

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

35S Vari Mu S-G Amp. (SS)
3E843—
List. \$1.40. YOUR PRICE **74¢**
(Same as 51S)

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

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

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

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

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

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

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

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

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

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

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

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

6D7 R. F. Amplifier
3E856—
List. \$1.75. YOUR PRICE **93¢**

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

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

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 7x9 1/2 x 2 1/2 inches.

3E859—YOUR PRICE \$7.45
(If purchased on Tube Deal.) **\$6.25**

Raytheon Tool Kit \$2.17

This is the Ideal Tool Kit for Radio 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

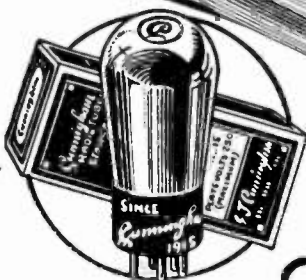
In huge planes of the great continental transport companies, alert police cars on watch throughout the country, in automobile Radios and for all other purposes where the hardest usage must be withstood with unfailing dependability, Raytheon 4-pillar Tubes are extensively used. . . . It is the one Tube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

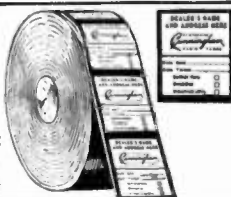
Other Advertising Material Free

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 indefiniteness 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	2A6 CE902—Cunningham 2A6 RE902—Radiotron 2A6 LIST PRICE \$1.60
01A CE926—Cunningham 01A RE926—Radiotron 01A LIST PRICE 60¢	2A7 CE903—Cunningham 2A7 RE903—Radiotron 2A7 LIST PRICE \$2.20
1A6 CE904—Cunningham 1A6 RE904—Radiotron 1A6 LIST PRICE \$1.75	2B7 CE915—Cunningham 2B7 RE915—Radiotron 2B7 LIST PRICE \$2.00
1 CE927—Cunningham 1 RE927—Radiotron 1 LIST PRICE \$1.50	5Z3 CE920—Cunningham 5Z3 RE920—Radiotron 5Z3 LIST PRICE \$1.50
1-V CE931—Cunningham 1-V RE931—Radiotron 1-V LIST PRICE \$1.25	6A4 CE907—Cunningham 6A4 RE907—Radiotron 6A4 LIST PRICE \$1.60
2A3 CE900—Cunningham 2A3 RE900—Radiotron 2A3 LIST PRICE \$2.25	6A7 CE911—Cunningham 6A7 RE911—Radiotron 6A7 LIST PRICE \$2.20
2A5 CE901—Cunningham 2A5 RE901—Radiotron 2A5 LIST PRICE \$1.60	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.

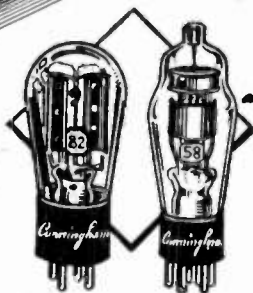
Consignment Exceptions

The Radolek Company is authorized to sell for cash or on any other basis 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	27 CE937—Cunningham 27 RE937—Radiotron 27 LIST PRICE 70¢
6D6 CE906—Cunningham 6D6 RE906—Radiotron 6D6 LIST PRICE \$1.25	30 CE938—Cunningham 30 RE938—Radiotron 30 LIST PRICE \$1.30
6F7 CE908—Cunningham 6F7 RE908—Radiotron 6F7 LIST PRICE \$1.80	31 CE939—Cunningham 31 RE939—Radiotron 31 LIST PRICE \$1.30
10 CE928—Cunningham 10 RE928—Radiotron 10 LIST PRICE \$5.00	32 CE940—Cunningham 32 RE940—Radiotron 32 LIST PRICE \$1.90
11 CE929—Cunningham 11 RE929—Radiotron 11 LIST PRICE \$3.00	33 CE941—Cunningham 33 RE941—Radiotron 33 LIST PRICE \$2.10
12 CE930—Cunningham 12 RE930—Radiotron 12 LIST PRICE \$3.00	34 CE942—Cunningham 34 RE942—Radiotron 34 LIST PRICE \$2.15
12Z3 CE922—Cunningham 12Z3 RE922—Radiotron 12Z3 LIST PRICE \$1.20	35 CE943—Cunningham 35 RE943—Radiotron 35 LIST PRICE \$1.30
19 CE909—Cunningham 19 RE909—Radiotron 19 LIST PRICE \$1.50	36 CE944—Cunningham 36 RE944—Radiotron 36 LIST PRICE \$1.50
20 CE933—Cunningham 20 RE933—Radiotron 20 LIST PRICE \$3.00	37 CE945—Cunningham 37 RE945—Radiotron 37 LIST PRICE \$1.20
22 CE934—Cunningham 22 RE934—Radiotron 22 LIST PRICE \$2.00	33 CE946—Cunningham 38 RE946—Radiotron 38 LIST PRICE \$1.45
24A CE935—Cunningham 24A RE935—Radiotron 24A LIST PRICE \$1.20	39-44 CE947—Cunningham 39-44 RE947—Radiotron 39-44 LIST PRICE \$1.50
25Z5 CE921—Cunningham 25Z5 RE921—Radiotron 25Z5 LIST PRICE \$2.00	40 CE948—Cunningham 40 RE948—Radiotron 40 LIST PRICE \$2.00
26 CE936—Cunningham 26 RE936—Radiotron 26 LIST PRICE 65¢	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 cleatle 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..... **10c**

Additional copies, Each..... **25c**

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.

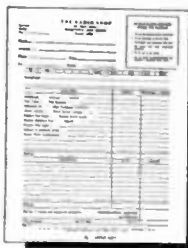
D992—One copy FREE to Cunningham Tube Purchasers on payment of shipping costs of..... **10c**

Additional copies, Each..... **50c**

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.

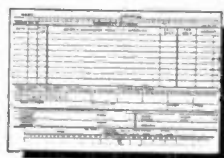
D993—Three pads imprinted with your name and address..... **\$1.25**



Prospect Sales and Service Record Form

Two ply cardboard cards 4x6 in., printed two sides. On the "prospect" side has space for recording much 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..... **40c**



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..... **75c**

45
CE955—Cunningham 45
RE955—Radiotron 45
LIST PRICE..... **75c**

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..... **70c**

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
CE988—Cunningham 876
RE988—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.	59¢
27S	3E501—List, 80c.	36¢
35/51S	3E502—List, \$1.40.	63¢
55S	3E503—List, \$1.70.	76¢
56S	3E504—List, \$1.30.	59¢
57S	3E505—List, \$1.75.	79¢
57AS	3E506—List, \$1.75.	79¢
58S	3E507—List, \$1.75.	79¢
58AS	3E508—List, \$1.75.	79¢
85AS	3E509—List, \$1.70.	76¢
2A7S	3E510—List, \$2.30.	\$1.03
6A7S	3E511—List, \$2.30.	\$1.03
6B7S	3E512—List, \$2.10.	94¢
6D7	3E513—List, \$1.75.	79¢
6E7	3E514—List, \$1.75.	79¢
6F7S	3E515—List, \$1.90.	85¢

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

31	3E550—List, \$1.30.	49¢	46	3E564—List, \$1.55.	67¢	78	3E579—List, \$1.80.	75¢
32	3E551—List, \$1.90.	71¢	47	3E565—List, \$1.30.	52¢	79	3E580—List, \$2.60.	97¢
33	3E552—List, \$2.10.	79¢	48	3E566—List, \$3.00.	\$1.30	80	3E581—List, \$0.70.	32¢
34	3E553—List, \$2.15.	85¢	49	3E567—List, \$1.70.	69¢	81	3E582—List, \$3.50.	\$1.19
35/51	3E554—List, \$1.30.	54¢	50	3E568—List, \$4.00.	\$1.32	82	3E583—List, \$1.20.	42¢
36	3E555—List, \$1.50.	61¢	53	3E569—List, \$1.80.	69¢	83	3E584—List, \$1.55.	66¢
37	3E556—List, \$1.20.	44¢	55	3E570—List, \$1.60.	64¢	84	3E585—List, \$1.75.	74¢
38	3E557—List, \$1.45.	59¢	56	3E571—List, \$1.20.	42¢	85	3E586—List, \$1.60.	62¢
39/44	3E558—List, \$1.50.	64¢	57	3E572—List, \$1.65.	59¢	89	3E587—List, \$1.80.	71¢
40	3E559—List, \$2.00.	76¢	58	3E573—List, \$1.45.	69¢	V99	3E588—List, \$2.25.	\$1.02
41	3E560—List, \$1.60.	63¢	59	3E574—List, \$2.60.	78¢	X99	3E589—List, \$1.50.	68¢
42	3E561—List, \$1.60.	65¢	71A	3E575—List, \$0.75.	33¢	182B	3E590—List, \$1.65.	74¢
43	3E562—List, \$2.50.	79¢	75	3E576—List, \$1.60.	69¢	183	3E591—List, \$1.65.	74¢
45	3E563—List, \$0.75.	34¢	76	3E577—List, \$1.20.	47¢	485	3E592—List, \$1.45.	65¢

SPARTON TYPES

TUBES

GOLD SEAL

The Perfect



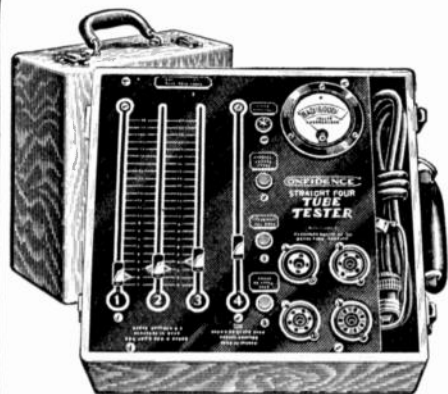
Radolek TUBE CHART

With Bias Resistor Data and Total Power Consumption of all standard American Made Radio Receiving Set Tubes.

Page 1

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	Net Grid Bias V.	Recommended Ohms Bias Resistor	Amplification Factor	Recommended Ohms Plate Load	Power Output Milliwatts	Total Power Consumption In Watts
		60A	\$4.00	Detector Only	5 D. C.	0.25	45	1.5			- .5		20			1.3
		61A	.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.	3.3	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 call?—How many tube sales were lost because the tester in the lid of 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 61A tube used as a half-wave rectifier for the meter when measuring A. C. line voltage on the D. C. 1 mil, 3% 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. **\$43.61**
YOUR PRICE

Radolek TUBE CHART

With Bias Resistor Data and Total Power Consumption of all standard American Made Radio Receiving Set Tubes.

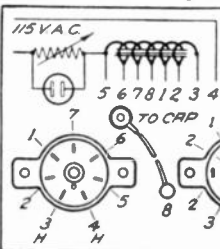
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See Explanatory Note, Bottom of Page VI

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
		35	\$1.30	Var. Mu. Same as 51	2.5 A. C.	1.75	250	6.5	90	2.5	- 3	333 Min. 1/2 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 1/2 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 SOI	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	625 458 3 Watt	90 80	4500 4000	900 2000	9.5
		44 (39-44)	1.50	Var-Mu or R. F. Di. T.	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	250 300	22			-33		5.6	6400	1250	22
		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	135 180	5.7			-20	3500	4.5	11000	170	3.75
		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 85)	6.3 A. C. D. C.	0.3	100	42								
		53	1.80	Twin Triode Class "B"	2.5 A. C.	2	300									
Class "B" only as a Double Grid.																
Class "B"														10000	10000	15

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.

3E2520—YOUR PRICE

\$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 1/2"x3 1/2" high, bakelite panel (cut to size but not drilled) hook-up wire, 40" heavy rubber covered connecting cord and plug.

3E2521—YOUR PRICE

\$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 Triode Pentode	2.5 A. C.	2	250	35	250	9	-18	408	100	6000	3000	
							250	26	As Triode		-28	1150	6	5000	1250	2.5
							400		Class "B"					6000	20000	
		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			Class "B"			7000	5500	9.3
		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	2.25	Gen. Purpose	3.3 D. C.	0.06	90	2.5			-4.5	"C" Batt.	6.6			5.3
		UX99	1.50	Same as 299												

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 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 wiggle. (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!

1E2545—List. less tube and batteries, \$40.00.
YOUR PRICE \$15.95

See Explanatory Note, Bottom of Page VI

Bottom View of Sockets	Tube Circuit Diagram	Type	List	Purpose	Filament Volts	Filament Amps	Plate Volts	Plate 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
		1B1	\$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 1B1	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	407 4 Watt	220	7000	3000	5
		2A5	1.60	Pentode Output Same as 95 and PZH	2.5 A. C.	1.75	250	34	250	6.5	-16.5	2500 1/2 Watt	50			4.5
		2A6	1.60	Double Diode Hi-Mu Triode	2.5 A. C. D. C.	0.8	250	0.8			- 2	300 1/2 Watt				3
		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	8000 540 1/2 5.5 W.	18	5000	4000	10
		2B6	2.50	Double A-F Amp. Values for Output Sec.	2.5 A. C.	2.25	250	40			-24 +2.5	266 1/2 Watt	730			2.5
		2B7	2.00	AVC Duo-diode Pentode	2.5 A. C. D. C.	0.8	250	9	126	2.3	- 3	463 2 Watt	100	8000	1400	3.3
		2S	2.65	Majestic Duo-Diode	2.5 A. C.	1.75	20	11	With Special Adapter Substitute Diode Portion of Type 55.							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	525 1/2 Watt				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	265 1/2 Watt	730			2.5
		6B7	2.00	Diode Pentode	6.3 A. C. D. C.	0.3	250	9	125	2.3	- 3	910 1/2 Watt	1500			2.7
		6C6	1.25	Var-Mu R. F. Pentode	6.3 A. C. D. C.	0.3	250	2.3	100	1	- 3	324 1/2 Watt	1160			2.4
		6C7	1.90	AVC Diode Triode	6.3 A. C. D. C.	0.3	250	5.5			- 9	375 1/2 Watt	900			2.4
		6D6	1.25	Var. Mu R. F. Pentode	6.3 A. C. D. C.	0.3	250	7.5	100	1.75	- 3	551 3 Watt		4500	2800	8.7
		6D7	1.75	R. F. Pentode	6.3 A. C. D. C.	0.3	250	2.3	100	1	- 3					
		6E7	1.75	R. F. Pentode	6.3 A. C. D. C.	0.3	250	7.5	100	1.75	- 3					
		6F7	1.90	Mixer, Osc. Triode Pentode	6.3 A. C. D. C.	0.3	250	6.5	100	1.5	- 3					
		12A5	2.10	Double Heater Pentode	12.6 A. C. D. C.	0.3	180	40	160	9	-27					

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 0.0001 and 0.01 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 1/2" x 5 1/2" x 3 1/2" deep. 20 inch test leads and 30" line cord. Weigh. wt. 2 1/2 lbs.



3E5298—

List. \$17.00.

\$9.75

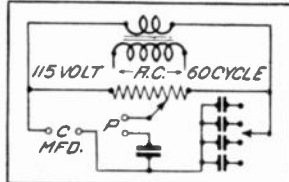
YOUR PRICE

With Baldwin Phone and cord.

3E5299—List \$22.00.

YOUR PRICE

\$11.65



"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**

See Explanatory Note, Bottom of Page VI

Bottom View of Sockets	Tube Circuit Diagram	Type	List	Purpose	Filament Volts	Filament Amperes	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 Watts
		401 and 373	\$4.00	Kellog O'r'head 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	1580 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



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 1/4" 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
IE8075—
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 '24A 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, 2B6, 2B7, 6B7, 6C6, 6D6, 2D7, 6D7, 6E7, 6F7, 2F7, 2Y3, 6Y5, 5Z3, 12Z3, 6Z4, 25Z5, AD, AF, AG, AH, G-2, G-4, KR-1, KR96-31, KR98-2S, LA, PZ, PZH, RE-1, Wund 2PR, Wund 6PR. Test both plates of rectifiers. Tester plugs into the 24A socket of your regular tester, and to 115v. A.C. Panel size 10"x12". Depth of walnut cabinet 3 1/2".

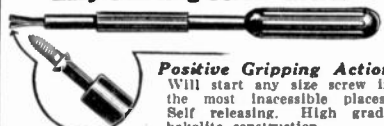


1000 Hour Guarantee Electric Soldering Iron



At an amazingly low price. Well made. For occasional light soldering. 4' cord; 3/4" tin. For 105-125 volt.
3E4776—
YOUR PRICE 29c

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	1/2" x 4"	2 to 6	9c
3E4638	3/4" x 4"	6 to 12	12c
3E4639	1" x 4"	2 to 8	15c

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

Radolek Tube Chart [Rectifier Tubes]

Page VI

Bottom View of Sockets	Tube Circuit Diagram	Type	List	Purpose	Filament Volts	Filament Amps	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	14.4
		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.			

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.

Copyright 1934 by W. C. Brown

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 BR half wave model.



Stock Num.	Type	Mils.	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 Sparton, Kellogg and other sets. Excellent quality and a real value.

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



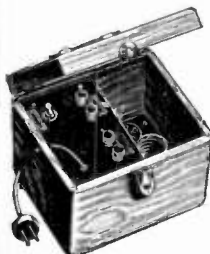
BARGAIN Power Tubes

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

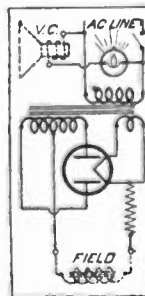
3E880—Type 210.
3E881—Type 250.
3E882—Type 281.
\$1.10
PRICE, EACH
IN LOTS OF
TEN, EACH\$1.05

Universal Speaker Tester

For Aligning Dynamic and Magnetic Speaker Cores



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.
YOUR PRICE \$6.47



World Radio History

THE RADOLEK COMPANY

Page 17

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 1/8 inch centers. Overall length 1 1/2". Width 1 1/8".

Standard Size

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

Stock Num.	P's	Mark-ings	Stock Num.	P's	Mark-ings	Stock Num.	P's	Mark-ings	Stock Num.	P's	Mark-ings
3C6210	4	None	3C6229	6	239	3D6245	4	None	3D6268	5	238
3C6221	4	None	3C6230	6	41	3D6261	5	None	3D6269	5	239
3C6238	6	None				3D6278	6	None	3D6270	6	41
3D8100 (Small-circle)	750	None pin	3C6231	6	42	3D6282	7	None pin	3D6271	6	42
3C6211	4	2A3	3C6232	5	43	(Large-circle)	850		3D6272	5	43
3D8101	4	2A3	3D8112	6	44	3D8125 (Small-circle)	750	None pin	3D6254	4	245
3D8102	6	2A5	3C6233	5	46				3D6273	5	46
									3D6274	5	247
3D8103	6	2A6	3C6234	5	247	3D8126	4	2A3	3D6275	6	48
3D8104	7	2A7	3C6235	6	48	8D8127	6	2A5	3D8135	5	49
3D8105	6	6A4	3D8113	5	49	3D8128	6	2A6	3D8136	7	53
3D8106	6	6A7	3D8114	7	53	3D8129	7	2A7	3D6255	4	250
3D8107	7	2B7	3D6236	6	55	3D8130	7	2B7	3D6276	6	55
3D8108	7	6B7							3D6277	6	55
			3C6237	5	56	3D8131	4	5Z3			
3D8109	4	C1	3C6239	6	57	3D8132	6	25Z5	3D6278	5	56
3D8110	4	5Z3	3C6240	6	58	3D6246	4	201A	3D6280	6	57
3D8111	6	25Z5	3C6242	7	59	3D6247	4	210	3D6281	6	58
3C6211	4	112A	3C6217	4	171A	3D6248	4	112A	3D6286	7	59
3C6222	5	224							3D6256	4	171A
3C6223	5	227	3D8115	6	75	3D6262	5	224			
			3D8116	6	77	3D6249	4	226	3D8137	6	75
3C6212	4	230	3D8117	6	78	3D6263	5	227	3D8138	6	77
3C6213	4	231	3D8118	6	79	3D6250	4	230	3D8139	6	78
3C6214	4	232	3C6218	4	280	3D6251	4	231	3D6257	4	280
3C6215	4	233									
3C6216	4	234	3C6219	4	82	3D6252	4	232			
3C6217	4	235	3C6220	4	83	3D6264	5	233	3D6258	4	281
			3D8119	5	84	3D6253	4	234	3D6259	4	82
3C6226	5	236	3D8120	6	85	3D6265	5	235	3D6260	4	83
3C6227	5	237	3D8121	6	89	3D6266	5	236	3D8141	5	84
3C6228	5	238							3D8142	6	85
						3D6267	5	237	3D8143	6	89

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

3D6730. Na-Ald 456; requires 1A" panel hole. Mounting holes 1 1/8" centers. Receives all 4, 5 and 6 prong tubes. Filament circuits common—all other isolated—9 contacts.

3D6731. Na-Ald 456E. Same as above but requires 1 1/8" panel hole. Mounting holes 1 1/8" centers.

47 - 59

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 1/8" panel hole. Mounting centers 1 1/8".

3D6733. Na-Ald 457E. Same as above but requires 1 1/8" panel hole. Mounting holes 1 1/8" centers. List Price, 50c.

YOUR PRICE, EACH **29c**

5 - 6 - 7

3D6734. Na-Ald 567A. Receives all 5, 6 and small 7 prong (.75" pin circle) tubes. Has seven contacts. Requires 1 1/8" panel hole. Mounting holes 1 1/8" centers. Seven contacts.

3D6735. Na-Ald 567EA. Same as above but requires 1 1/8" panel hole. Mounting hole 1 1/8" centers.

7 - 7

3D6736. Na-Ald 477. Receives 7 prong large (.85" pin circle) and 7 prong small (.75" pin circle). Requires 1 1/8" panel hole. Mounting holes 1 1/8" centers. Has seven contacts.

3D6737. Na-Ald 477E. Same as above but requires 1 1/8" panel hole. Mounting holes 1 1/8" 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 1/8 inch diameter exactly fits inside standard tube base. 1/8 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		
3D6708*	427	7	15c	\$1.40
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 No.	Prongs	Year Price
3E6745	484	4	
3E6746	485	5	
3E6747	486	6	
3E6748	487	7 large	29c
3E6749	487A	7 small	Each

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 1/8" hole (large size 7 prong in 1 1/8" 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	45c
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 1/8" to 2". Socket can be rotated in adapter base for wiring.

3E6725—Adapter plate only
YOUR PRICE, EACH **2c**
TEN FOR **15c**

Tube Shield Base



The flange on 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**
TEN FOR **18c**

General Use Sockets



Screws Up Screws Down
Moulded black bakelite. Guiding groove for prongs. Long wiping contact. Supplied with binding posts for connections. Screws can be reversed for sub-panel connections. Two mounting holes with 1 1/8" centers. Overall diameter, 1 1/8".

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

(*) Medium base, .85" pin circle.

(†) Small base, .75" pin circle.

Multiple Compact Sockets



Socket diam. is 1 1/8" and 1 1/4" high.

Ideal where space is at a premium. Can be used for below panel connecting and making adapters. Hole in center for No. 8 screw.

3E6738—Receives 4, 5 and 6 prong tubes. Na-Ald No. 456B.

3E6739—Receives 5, 6 and small size 7 prong tubes. Na-Ald No. 567HA List Price, 50c.

YOUR PRICE **29c**

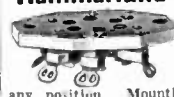
EBY Isolantite Sockets



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 1/8 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 and coil forms or tubes. Mount any position. Mounting hole centers 1 1/8 inches. Two 1/8" long, 1/8" diam. drilled bushings with fiber washers included.

3E7210—4 pin } List, 60c
3E7211—5 pin } YOUR PRICE
3E7212—6 pin } **35c**
3E7213—7 pin large }

Small Space Panel Mount Sockets



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

With 1 1/8" Mounting Ctrs.

Stock Number	Na-Ald Code	Prongs	Price Each	Ten for
3D6700	424	4		
3D6701	425	5		
3D6702	426	6		
3D6703*	427	7	15c	\$1.40
3D6704†	427A	7		

With 1 1/8" Mounting Ctrs.

Stock Number	Na-Ald Code	Prongs	Price Each	Ten for
3D6740*	437E	7	15c	\$1.45
3D6741†	437EA	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 1/8". cavity size—1 1/8" diam; 1/8" deep.

Stock Number	Prongs	Year Price
3E6088	4 prong	
3E6089	5 prong	
3E6090	6 prong	
3E6140	7 prong small	5c
3E6148	7 prong large	Each



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 1/4" long and the long handle plug is 3 1/4" 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	

Medium Handle

Stock Number	Number of Prongs	Your Price
3D7134	4	17c
3D7135	5	
3D7136	6	
3D7137	7 Small	

Female Plugs Long Handle

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

Medium Handle

Stock Number	Number of Holes	Your Price
3D7142	4	26c
3D7143	5	
3D7144	6	
3D7145	7 Small	

Bakelite Cable Plugs



3E6165	4 prong	21c
3E6166	5 prong	
3E6167	6 prong	
3E6168	7 prong (small)	
3E6169	7 prong (large)	32c
3E6170	8 prong	

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	

List Price, \$1.00.

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



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.

3C6145	4 prong.	List Each 50c.
3C6146	5 prong.	YOUR PRICE
3C6147	6 prong.	Each 12c
3C6148	7 prong.	10 for \$1.05

Analyzer Plugs and Adapters



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 WLCA Kit

The 907 WLCA 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.
3E6171—888S—Prongs on .85" (large size) circle.
List Price, 50c.
YOUR PRICE 29c

Alden Analyzer Plug 906WL

6 Prong for 7 Conductor Cable

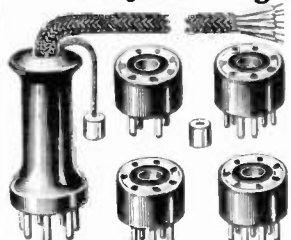
Plug equipped with special latch for locking adapters to plug. Detachable handle has two grid connections at top. Use this plug if most of your servicing is done on receivers using 6 prong tubes. No cable or adapters.
3E6072—List, \$1.50.
YOUR PRICE 88c

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 instrument.

With Unwired Adapters

3E8071—Plug and 4 unwired adapters (shoes 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 (shoes 1 1/4" high may be attached to plug with 3/4" #32 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	4 prong.	15c
3C6060	5 prong.	
3C6061	6 prong.	
3D8030	7 prong (Medium)	
3D8031	7 prong (Small)	

Male Plugs With 36" Cords

3C6062	4 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.	
3D8034	7 prong (Medium)	

Flat Speaker Plugs

3C6049	3 prong.	6c
3C6050	4 prong.	
3C6051	5 prong.	
3C6052	6 prong.	

Standard Male Speaker Plugs

3C6053	4 prong.	12c
3C6054	5 prong.	
3C6055	6 prong.	
3D8036	7 prong (small)	

Cable Connector Plugs

3C6110	Four Hole	23c
3C6111	Five Hole	
3C6112	Six Hole	
3D8037	Seven Hole (large)	

Standard Male Speaker Plugs

3C6053	4 prong.	12c
3C6054	5 prong.	
3C6055	6 prong.	
3D8036	7 prong (small)	

Cable Connector Plugs

3C6110	Four Hole	23c
3C6111	Five Hole	
3C6112	Six Hole	
3D8037	Seven Hole (large)	

Standard Male Speaker Plugs

3C6053	4 prong.	12c
3C6054	5 prong.	
3C6055	6 prong.	
3D8036	7 prong (small)	

Cable Connector Plugs

3C6110	Four Hole	23c
3C6111	Five Hole	
3C6112	Six Hole	
3D8037	Seven Hole (large)	

Standard Male Speaker Plugs

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Standard Male Speaker Plugs

3C6053	4 prong.	12c
3C6054	5 prong.	
3C6055	6 prong.	
3D8036	7 prong (small)	



New Tube Adapters

Composite Adapter 9C7

Top receives all 4, 5 and 6 prong tubes. Bottom is large size 7 prong. For reamping 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¢**



Small 7 Pin Tube Adapter

Tests 2A7 and 2B7 in 24 checker socket and 2A7, 6B7, 6C7, 6D7, 6E7 and 6F7 in 36 checker socket. List. 60c.

3E8041—Alden 97A57

YOUR PRICE **35¢**

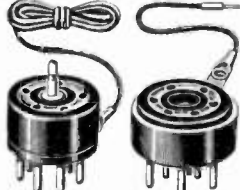
Twin Adapter

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. D70161. 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.

3E6010—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—Na-Ald 977A5. Prongs fit small (.75" pin circle) 7 prong socket. top socket takes large (.85" pin circle) 7 prong.

3E8042—Na-Ald 977SM. Prongs fit 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**

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 PI

List Price 35c.

YOUR PRICE **21¢**



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, 6A4, 6A7, 6B7, 6C6, 6D6, 6F7, 523, 14, 15, 18, 19, 20, 33, 36, 37, 38, 39, 41, 42, 43, 44, 46, 47, 48, 49, 50, 55 diodes, 55 triode, 56, 57, 57A, 58, 58A, 59, 64, 65, 67, 68, 69, 70, 75, diodes, 75 triode, 77, 78, 79, 80, 80M, 82, 83, 84, 85 diodes, 85 triode, 88, 89, 90, 92, 95, 96, 98, 291, 293, 295, 985, 986, AD, AE, AF, AG, C2, C4, ERI, G2, G4, GA, 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 SGL adapter must be used on the base of the 950XYLA.

3D8002—NA-ALD 954SGL UY top UX bottom. Has grid lead. List Price 75c.

YOUR PRICE **44¢**

No leads—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, 25Z5, 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. 1/4 inch hole in side of base permits taps from any circuit to be brought out. Body size: diameter, 1 1/4"; height, 1"

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	3E8059	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	3E8082	7 small	6 hole
3E8065	5 prong	7 small	3E8081	7 small	7 large
3E8062	5 prong	7 large	3E8064	7 small	7 large

YOUR PRICE, EACH **22¢**

TEN FOR \$1.75

YOUR PRICE, EACH **23¢**

TEN FOR \$1.85

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

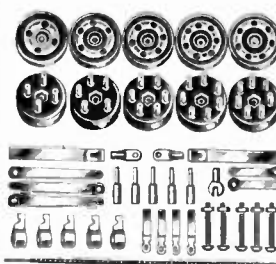
Make Your Own ADAPTER KIT

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 955PT. For 5 prong tubes.

3C6046—Alden 9661T. 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 944GP 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.

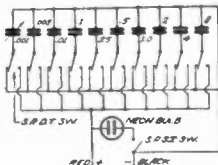
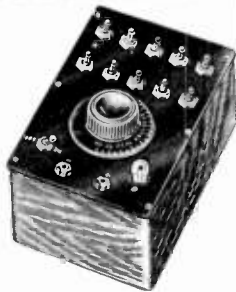


Radolek Condenser Box

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. Three 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 not 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 $5\frac{1}{2} \times 8\frac{1}{2} \times 1\frac{1}{2}$ " deep. Supplied with pair of 24" test cords with banana styling tips and alligator spring clips. This is the best value on the market in a Condenser Test Box.



3E5898—Complete.

YOUR SPECIAL PRICE...

\$6.95

Meter Repair Service



BEFORE



AFTER

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. We return Collect.

1. Burned out or open armatures of standard 301 type 3 1/4" meters, including polishing of jewels, portion 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, includes 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 suffers 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 3/4" hole and extends less than 2 1/4" back of panel. Equipped with 8" insulated leads with universal mounting and connection brackets for battery.

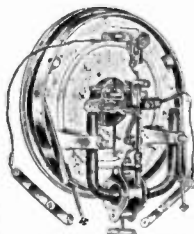
Appearance and Construction

A 6" attractively finished dial is enclosed in a beautiful bevelled bronze 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 15% 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 KPF. 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 954FS. 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

Overheat Heater Type Tubes
401 with 485's
401 with 56's
It is now possible to replace all the old type expensive Kellogg tubes with the latest types of more efficient and lower priced tubes. It is less expensive to buy these adapters and new type tubes than to replace with old style Kellogg tubes.

To Replace 401 with 485
3E6131—Na-Aid 954K27. 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—965CGL. Your Price **44¢**
Double the gain of 6 volt receivers using 33 type tubes. (Do not make this substitution in series heater circuits). 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 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 "G" bias. Alien Type, 964KNPR.
3E8043—List, 75¢.
Your Price **44¢**

999 UX to UV199

Adapts UX 4 prong tubes to UV-199 socket.
3C6027—List, 75¢.
Your Price **44¢**

421X UX to WD11

Adapts UX tube to WD-11 socket. Soldered for Radiola 3 and 3-A and dry cell sets.
3C6028—List, 75¢.
Your Price **44¢**

Universal TRIPLET 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 eighths 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

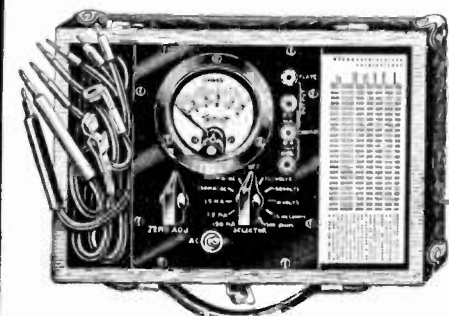
Maximum scale readings of A.C. Volts: 750, 150, 15. Maximum scale readings of D.C. Volts: 750, 150, 15. D.C. Milliamperes, 150, 15, 1.5. A.C. Mils. 150, 15. Three resistance ranges, 0 to 1500 ohms, 0 to 1.5 megohms, 0 to 3 megohms. (A zero adjustment for the ohmmeter is provided on the panel.)

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 1/4" 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 Model 1125
With output adapter, test leads, batteries, etc. Complete operating instructions.
IE2577—List Price, \$30.00.
YOUR PRICE \$19.60

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 Midget "C" battery supplies the plate potential. The batteries are under the calibration chart.

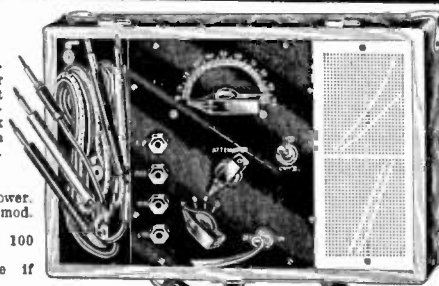
Modulated or Unmodulated Signals

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 1/4" 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
IE2578—List, \$35.00.
YOUR PRICE \$22.86



Model 1151

TRIPLETT Auxiliary Set Tester

Combines Point to Point With Set Analysis

For Point To Point Testing

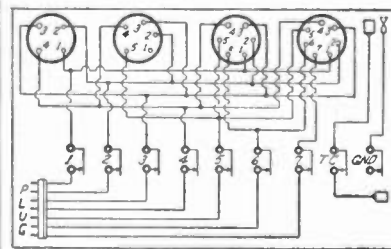
Extreme Flexibility For Service Analysis.
All the circuits which connect to the prongs of any type tube in any type radio may be reached through the handy pin jacks. The row of red jacks automatically open the circuit when a pin type plug is inserted. Upon placing another plug in the adjacent black pin 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

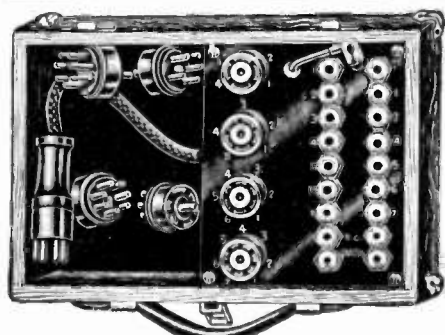
The 'old timer' in the service business accustomed to conventional analytical methods of service will find the Triplett 1166 his most useful accessory. By connecting a milliammeter in series with the plate circuit and opening the grid circuit for insertion of a "C" battery, a change in plate current 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 Radolek 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 1/4" x 7 1/2" x 4 1/2". Shpg. Wt. 7 lbs.



Circuit Diagram Model 1166



Triplett Auxiliary Set Tester Model 1166
Complete with seven prong plug cable, Four adapter plugs, and directions. Neat oak case matches above instruments.
IE2579—List Price, \$16.00 with Case.
YOUR PRICE \$10.45

IE2581—Less Case.
YOUR PRICE \$8.49

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

Copper—Oxide Type



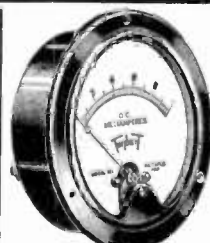
Accuracy within 2% on D.C.—5% on A.C. Scale matches the Standard Scale supplied on the Triplett Models 1125, 1180, 1181. Meter movement requires 1 milliamperes for full scale deflection. Primarily designed as a Universal Foundation Meter supplied with 50 ohms internal resistance. (50 millivolt drop). 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. Mils. Middle scale, same markings for D.C. range. Top ohm scale 0-1500 ohms.

Triplett Universal Meter

IE2580—List, \$15.00.
YOUR PRICE \$9.80
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 damped movement. Jewelled sapphire bearings, Chrome steel magnets.

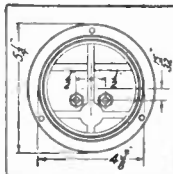
75 Division Scale

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 either ohm scale. Calculate all millivolt readings 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 1/2" hole requiring 1 1/2" clearance back panel.



Triplett 5 1/4 Inch Giant Meters

Giant Panel Test Instruments Flush Mounting in 4 1/4" hole requires 2 1/2" 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 d'Arsenal jewelled bearing movements with chrome steel permanent magnets.



Special Scale

3E8388—For IE9585 and IE9586 only. Has same markings as universal meter.
YOUR PRICE \$1.00

Model 521 D. C.

Stock Number	Range	Resist. In ohms	Your Price
IE9585	1 M.A.	33	\$ 9.80
IE9586	0.5 M.A.	156	11.11
IE9587	0.2 M.A.	185	12.42
IE9588	10 Amp.	.005	9.15
IE9589	300 Volts	3 meg.	12.08

Model 531 A. C.

Stock Number	Range	Resist. In ohms	Your Price
IE9591	10 M.A.	1050	\$ 9.80
IE9592	250 M.A.	1.2	9.15
IE9593	3 Amps.	.02	9.15
IE9594	10 volts	160	9.15
IE9595	150 volts	151,500	10.45

MODEL

TRIPLET

1181

Combines 3 Great Testing Systems

Point-to-Point, Standard Analysis, and Overall Performance with One Triplett 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. Triplett 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 customer's 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" puttering away with obsolete equipment.

Point-To-Point

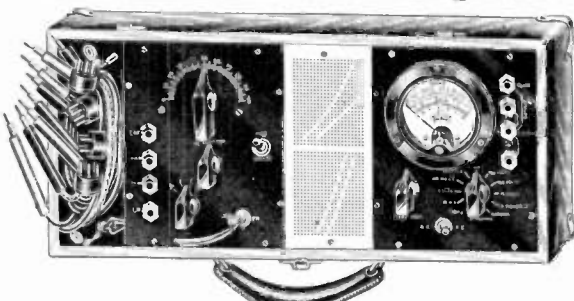
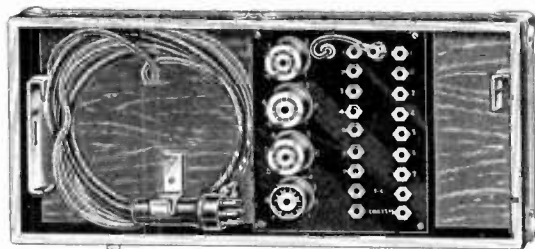
Use point-to-point testing when the signals are mushy or distorted; when hum distortion is present or when the standard analysis discloses wrong voltages. In this system the Auxiliary Set Tester plays the most important part, permitting the receiver to be left in its cabinet while the circuit of each 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 R. 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 capacitors. 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.



Triplett Perpetual All-Wave Tester 1181

Combines the Auxiliary tester and all associate 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-sawn oak (14 1/2" x 11 1/2" x 5 1/2") carrying case with batteries, oscillator tube.

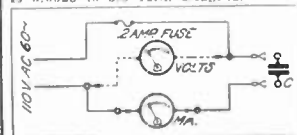
1E2575—Model 1181, List Price, \$57.00.

YOUR PRICE

\$37.24

Capacity Tests

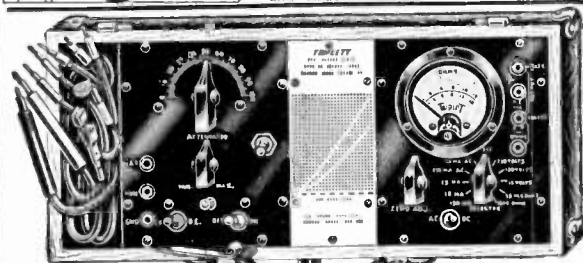
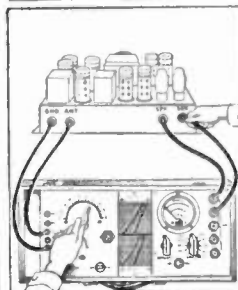
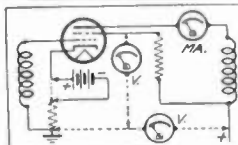
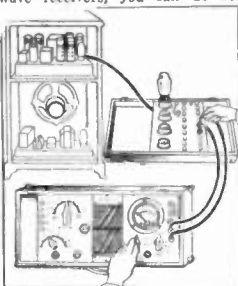
Capacity measurements of paper dielectric condensers can be made with the A.C. Milliammeter of the Perpetual Tester, employing the electric lighting circuit as the source of A.C. The range of capacity on 115 V. 60 cycle is 0.0025 to 3.5 Mfd. Diagram below



Four Ohm 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.



Triplett

Triplett

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 and self contained power supply, and the Triplett 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: 510 to 3500 K.C. Range C: 2000 to 6000 K.C. Range D: 6000 to 18000. Fundamentals and 2nd and 3rd harmonics are used to cover this extensive frequency spread. All signals may be modulated at approximately 400 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, 0-15.3 megohms. A.C. Volt scales may be employed for output indications. Supplied in oak case, 11 1/2" x 7 1/2" x 4 1/2". With slip hinged cover.

The Best Value Service Equipment

1E2644—Model 1180 in Oak case. Complete with Test Leads. List. \$45.00.

YOUR PRICE **\$29.40**

1E2642—Model 1177 in Leatherette case with dual frequency oscillator covering 110 to 1500 K.C. List. \$36.00.

YOUR PRICE **\$23.52**

Triplett

Triplett

Universal Selective Analyzer

For Point-To-Point and Standard Analysis

Model 1167

Excellent for the service shop equipped with a good oscillator. This is the modern type of equipment for "hot" or "cold" 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 between the black pin-jacks. Inserting the tip jack in the red pin-jack opens the particular circuit to permit current measurements.

Multi-Range Volt-Ohm-Milliammeter

Employs the Triplett 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 included. Zero adjuster compensates for battery deterioration. A selector switch prevents possibility of damage to meter.

1E2576—Model 1167. Complete with test leads, batteries, and all instructions.

YOUR PRICE

\$24.50

World Radio History

THE RADCOX COMPANY



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 triodes 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

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, R.F., I.F., detector, oscillator, A.F., 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 0-20-60-300-600 D.C. volts; 0-10-140-700 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 10½x13½x8 inches. Removable cover.

Has Sockets for all newer 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

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.)
3D2690—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

\$29⁴⁰

New and Different! Permits testing of any receiver without the tubes in the receiver and without the power turned on the set. Uses two plug-in cables—one to the rectifier socket and the other to each tube socket in turn. A master selector switch permits resistance and capacity tests between all important circuits. Triplett 3½" Meter is employed for the resistance and any voltage or current measurements desired. A 2" A.C. meter, used with a 60 cycle A.C. 110 to 120 volt line is employed for capacity measurements. The precision D.C. meter has a 60 division voltmeter scale which permits reading 0 to 30, to 300, to 600 volts, also 0 to 30, to 300, milliamperes. Resistance measurements may be made on the ohm scale, 0 to 500, to 50,000 to 3 megohms. An extra 22½ volt battery and .9 meg resistor will extend the ohm range to 6 megohms. With adapters, in fabricoid case, size 13½x9½x4½". Shipping weight 11 lbs.



Readrite Model 410

3E2600—
YOUR PRICE

\$16¹⁷

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: 1½, 2, 2½, 3.3, 5, 6.3, 7½, 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-hinge lid. Size 11"x7½"x4½" deep. Shipping weight 11 lbs. For connection to 105-125 volts 60 cycle A.C.



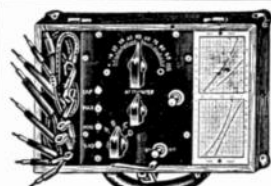
Readrite Model 416

With Triplett Moving Coil
Precision Meter

3E2631—
YOUR PRICE

\$21⁰²

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"x7½"x4½" deep. Shipping weight 11 lbs. For connection to 105-125 volts, 60 cycle A.C.



Readrite All Wave Oscillator

3E2597—Model 554 without output meter.
YOUR PRICE

\$17⁶⁴

A New Graph Calibrated Self Modulated Service Oscillator. Meets requirements of latest model receivers with short wave and L.F. circuitry. Four frequency ranges: 110 to 500 K. C. 500 to 3000 K. C.; 2000 to 6000 K. C.; 4000 to 18000 K. C. 18½ to 2727 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-hinge 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

TRIPLETT PRECISION METERS

Guaranteed Accuracy Within
2% at 72° F.

Genuine d'Arsonval
Moving Coil Type

Rugged dependable meters for radio service, experimental, and educational use. Standard in size, range and appearance. Clear 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. Scale length 2 3/4". Mtx. hole Ctrs., 3".
Model 331 A.C. Flush Type, wide flange. Scale length 2 3/4". Mtx. hole Ctrs., 3".

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

Narrow rim. Scale length 1 3/4". Mtx. hole Ctrs., 2". Very satisfactory for average radio service applications.



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. Supplied with two 30 inch pin tipped leads and necessary accessories for mounting meter.

302798—List, \$1.75.
YOUR PRICE



\$1.03

Readrite Model 65 Flange To Fit Model 55 Meters

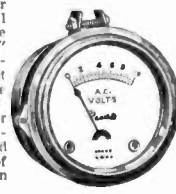


302799—List, Each 15c.
YOUR PRICE

Wide flange 2 1/2 inches diameter. Fits over any type of model 55 meter, converting it into a flange mounting model. Three screw holes. Three 3/8" long 4-36 screws with nuts included. Flange and screw heads in matte black finish.

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.



Voltmeters			Ammeters		
Stock Number	Scale Volts	Your Price	Stock Number	Scale Amps.	Your Price
302778	0-4		302792	0-1	
302779	0-6		302793	0-3	
302780	0-10	\$1.62	302794	0-5	\$1.62
302781	0-15		302795	0-10	
			302796	0-50	\$1.91

Milliammeters		
Stock Number	Scale M.A.	Your Price
302782	0-150	\$2.65
302783	0-300	3.23
302784	0-600	3.82
302785	0-750	4.56
302786	0-10-100	2.65



Filament Meter

Oxidized Bronze Finish, flanged cases 2 1/2 in. diam. Mount 2-in. hole.

302698—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	10-0-100	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

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	
3E9682		1-0-1	3E9706	
3E9683	3.75	5-0-5	3E9707	2.94
3E9684		10-0-10	3E9708	
3E9685		20-0-20	3E9709	
3E9686		30-0-30	3E9710	

D. C. MICROAMMETERS				
3E9811	\$ 6.05	0-500 M.A.	3E9815	\$ 5.06
3E9812	7.84	0-200	3E9816	6.86

D. C. RESISTANCE METERS				
3E9823	Type 321. 0/1.5 volts. 0/1000 ohms. List, \$7.00.			
YOUR PRICE				\$4.55
3E9824	Type 321. 0/4.5 volts. 0/50,000 ohms. List, \$8.25.			
YOUR PRICE				\$5.39

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		0-25	3E9831	
3E9827	3.75	0-50	3E9832	2.94
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

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	0-250	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		0-3	3E9751	\$2.94
3E9714	3.75	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

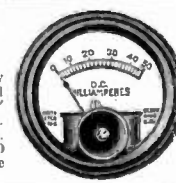
D. C. VOLTMETERS				
3E9769		0-5 Volts	3E9797	
3E9770	\$5.39	0-10	3E9798	\$4.24
3E9771		0-25	3E9799	
3E9772		0-50	3E9800	
3E9773	\$ 5.71	0-100	3E9801	\$ 5.06
3E9774	5.71	0-150	3E9802	5.06
3E9775	6.53	0-300	3E9803	5.71
3E9776	7.18	0-500	3E9804	6.53
3E9777	7.18	0-15-150	3E9805	6.53
3E9778	10.88	0-250-750	3E9806	9.63
3E9779	10.29	0-15-60-300-600	3E9807	9.14

D. C. MILLIVOLTMETERS				
3E9817	\$ 3.75	0-50 M.V.	3E9821	\$ 2.94
3E9818	3.75	0-150	3E9822	2.94

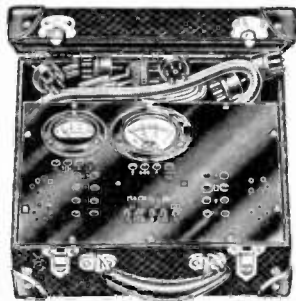


Readrite D.C. Panel Meters Model 55

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					With Zero Adjustment				
Stock Num.	Your Price	Scale Volts	Ohms Resist.		Stock Num.	Your Price	Scale Volts	Ohms Resist.	
3C2735		0-1	30		3D7735		0-5	200	
3C2736		0-3	175		3D7736	73c	0-10	700	
3C2737	59c	0-6	550		3D7737		0-15	205	
3C2738		0-5	410		3D7738		0-25	85	
3C2739		0-8	850		3D7739	59c	0-50	20	
3C2740	59c	0-10	1,475		3D7740		0-100	5.5	
3C2741		0-15	2,914		3D7741	73c	0-150	3.3	
3C2742		3-0-3	550		3D7742		0-200	1.9	
3C2743		0-25	1,625		3D7743	59c	0-300	.8	
3C2744	\$1.62	0-25	7,720		3D7744	\$1.77	0-400	.5	
3C2745	.59	0-50	3,250		3D7745	.73			
3C2746	1.91	0-50	15,440		3D7746	2.06	0-20-100	175/30	
3C2747	.88	0-100	6,500		3D7747	1.03	0-15-150	105/24	
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	40,320		3D7750	2.06			
3C2751	1.91	0-300	92,640		3D7751	2.06			
3C2752	2.65	0-500	154,400		3D7752	2.79			
3C2753	2.65	0-60-300	92,640		3D7753	2.79			
3C2754	3.23	0-750	231,600		3D7754	3.38			
3C2755	1.32	0-8-160	850/16,200		3D7755	1.47			
3C2756	3.23	0-20-60	180,000		3D7756	3.38			



IE2538—
YOUR
PRICE **\$22.90**

For Point-to-Point analysis and "hot" circuit testing of any type radio receiver. Complete in FabriKold carrying case 11 1/2" x 11 1/2" x 4 1/2", with all adapters.

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 seven prong plug and four adapters are supplied. A top grid connection is located on the side of the plug.

New Model 89 Tube Tester

True Tube Performance! Tests all tubes in the Radolek 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, 6.3, 7 1/2, 11, 25, and 50 volts for all tubes. Automatic inter-element short check and gas check included. Engraved bakelite panel, FabriKold case, 3 1/4" 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 **\$22.90**
YOUR
PRICE

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		dgeswise Mounting Shadow Illumination Code TM 10	
Stock Number	Max. M.A.	Stock Number	Max. M.A.	Stock Number	Max. M.A.
3E2654	5	3E2650	5	3E2658	5
3E2655	7	3E2651	7	3E2659	7
3E2656	10	3E2652	10	3E2660	10
3E2657	15	3E2653	15	3E2661	15

Shadow Graph Type: Code TM121

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

Tuning Meter Prices

Choice of above types without Escutcheon. List, \$1.50.

YOUR PRICE **88c**

Escutcheon Prices

3E2663—For TM101-3.

3E2664—For TM108

3E2665—For TM121

List Price 30c. YOUR PRICE **18c**

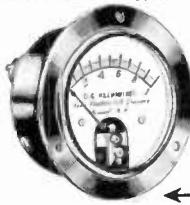
Visual Meter Tuning: Combine visible indication of exact station tuning with the audible tone to secure best results with modern radio. A.V.C. sets "hang onto" a station signal over a wider expanse of dial than other types of receivers. Failure to tune exactly is often the cause of other signals blurring 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 plug-tips. Use NaAlD 5 or 6 prong "listening in" adapters. Insert on page 20 to couple the meter into I.F. 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 \$1.85 for the complete job! You can make these sales and this handsome profit. Complete instructions furnished.

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

0-1 Milliammeter

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

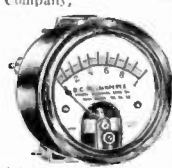
For Wheatstone Bridge circuits and Bridge Balanced Vacuum Tube Voltmeter indicators. Zero position of scale divisions.

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**

3E9604—0-25 Milliammeter (For checking microphone 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.) YOUR PRICE **\$2.20**

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

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

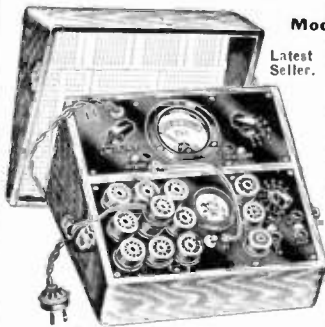
READRITE Tube Tester

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 diode 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-sawn oak case, 9 1/4" x 10 1/4" 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 slide 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 1-10,000 ohms, 0-200 D.C. volts. Self contained flash 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" flange type meter. Requires three small flash light 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 3/8" hole, 1/4" 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 15 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.

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 1050 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

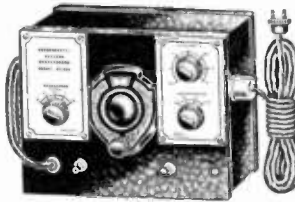
Front panel 7"x9 1/4". Depth of case 5". Black Crackle lacquer finish on metal. The case forms an electromagnetic shield about the entire unit. Individual coils are electro-statically shielded.

Electron Coupled

Assuring the greatest stability of calibration and freedom from stray 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.



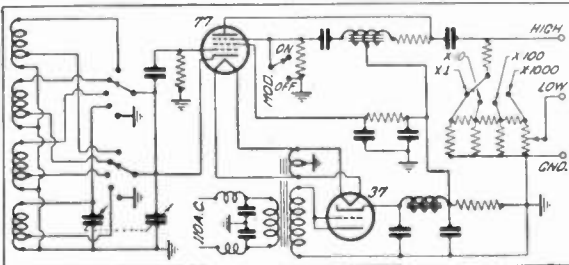
IE2525—Complete. **\$3875**
YOUR PRICE

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 beat 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



IE9609—**\$6.94**
YOUR PRICE

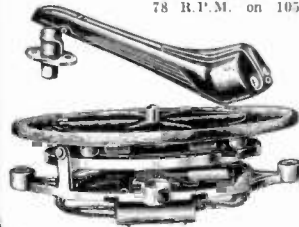
Consists of a Standard 3 1/2" Beede d'Arsenal meter with matched, individually calibrated copper-oxide rectifier, and a special "foundation" style scale. D.C. meter requires 1 M.A. for full scale deflection. 50 ohms internal resistance. Separate D.C. binding posts on the rear. A.C. circuit produces full 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.

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 77" 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 3/4" tone arm, 2500 ohms impedance. For 10" records. This assembly fits the Radolek 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

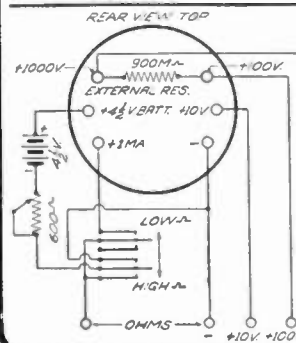
Giant Precision Volt-Ohm Foundation Meter

Built by Hickok
The Front Is 8 1/2 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 milliamperage 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 1/2 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.

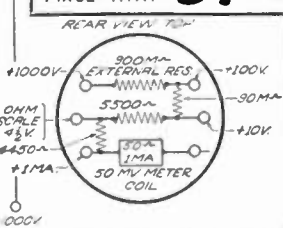


This meter can also be used in circuit diagrams number 1A, 1B and 6B shown on page 36. In these circuits, additional voltage ranges and milliamperage ranges may be provided by using shunts and resistors specified.

Specifications:

Front of Panel Type: Front Rim of Black Bakelite, diameter 8 1/2". Base diameter 9 1/2". Side and base of steel in black enamel finish. Depth 3 1/2" 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 1/2 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 **\$37.50**



Westinghouse Precision Meters

Flange 2 1/4", 2 1/2" 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	0-50 Microamperes	110 ohms	9.56
1E9887	0-1 Milliamperes	110 ohms	6.37
1E9888	0-5 Milliamperes	10 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 has 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 Ma. D.C. and above 5 volts A.C.

1E9880—**\$14.25**
YOUR PRICE

Westinghouse 3 1/2" Type NX

3 1/2" flange, mounts in 2 1/4" hole Moldarta (A special form of bakelite) case. Accuracy within 2%.

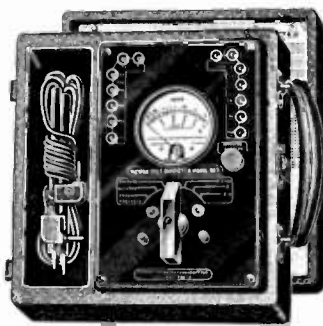
Stock Num.	For D.C. or Rectified A.C. Scale	Resistance	Your Price
1E9891	0-1 Milliamperes	110 ohms	\$ 5.75
1E9892	0-100 Microamperes	71 ohms	15.50
1E9893	90 Volt—Ohmmeter	9 megohm	11.25



**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 Radolek'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 301 type with a 60 division scale. Indicates in direct reading comparative rating of tube. Accurate and reliable. Protective metal housing. Unit supplied in individual leatherette covered carrying case. Case size 8 1/2"x4 1/4" inches. Power line cord. Matches other 660 series on this page. Employs zero reset grid shift system of mutual conductance measurement. Shipping weight, 7 lbs.



**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 megohms. 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; 0-500-1,000-10,000-100,000-1,000,000-10,000,000 ohms full scale; 0.25-1-100-250-500-1,000 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 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. Milliamperes 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.

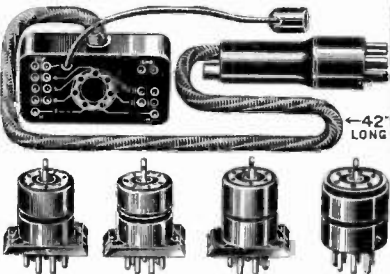
Self locking push-buttons control the choice of the A.C. or D.C. circuit. An ohmmeter adjusting rheostat compensates for 20% deterioration of the battery supply. Panel size 5 1/2"x8 1/4". Depth of case 3", made of pressed steel, attractively finished in black. Test leads included. Leatherette case supplied separately 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, 664, or either 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.

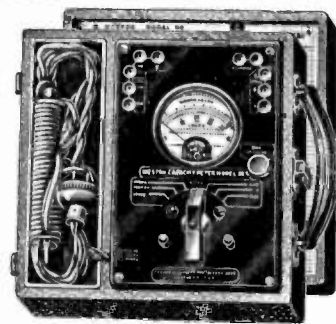
IE9444—Weston 666-1A Socket Selector. List, \$15.00.
YOUR PRICE **\$11.02**



**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.F. stages for greatest sensitivity or for "flat topping" 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 insures complete control over signal. Fitted with durable leatherette covered case, necessary accessories, battery and type 32 tube.



**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: 10-200, 1-20, 1-2, .01-2, .0001-.02; volts 4-8-40-400-800 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 105-130 volt 60 cycle line through a voltage adjuster. Indicates short circuited and open condensers as well as measuring capacities of those in good condition. In an individual carrying case, leatherette covered. Size 8 1/2"x4 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.

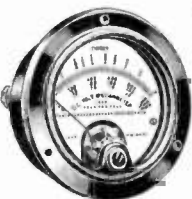
Every Meter You Need In Radio Service
Radolek carries a complete assortment of Weston Meters in the Models 301, 506, 517, 425, 476, and 600, ready for immediate shipment. Only the most popular Weston Instruments are listed here. You may depend upon prompt shipment and the lowest wholesale prices when 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 Jewell 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 mils (using an external 50 M.V. shunt—Van Model 3E4891, tapped at 5-25-100 mils), and ohms up to 100,000. (In conjunction with a 4 1/2 volt battery and a 4450 ohm resistor).

1 Milliamperes 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.

Black bakelite case has front flange 3 3/4" diameter. Case body diameter 2 3/4". Case depth back of flange, 1", with screws 1 1/4". Only two binding posts with proper polarity marking.

Mr. Serrivman: 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 506 D.C.

2 Inch Cases 1 3/4" deep



Miniature flush type panel instruments with characteristics similar to the larger Weston 3 1/4 inch line. Supplied with wide or narrow flange metal cases or wide flange bakelite cases. Narrow flange metal cases sent unless otherwise specified.

Model 506 D.C. Milliammeters

Article Number	Milli-amps.	Approx. Resist.	Article Number	Milli-amps.	Approx. Resist.
3C9214	5	8.5	3C9219	100	.5
3C9215	10	8.2	3C9220	150	.33
3C9216	15	1.5	3C9221	200	.25
3C9218	50	1	3C9222	300	.18
			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 2 3/4"; overall 2 3/4".

Article Number	Volts	Scale Div.	Article Number	Volts	Scale Div.
3C9183	3	20	3C9187	10	20
3C9184	5	20	3C9188	15	30
3C9186	8	40	3C9189	50	25
List Price, \$7.50.					
YOUR PRICE \$5.51					
Article Number	Volts	Scale Division	List Price	Year 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 mls. full scale, 2" diam. 2 3/4" deep.

3E9245—List, \$9.75.
YOUR PRICE \$7.16

Weston Model 301 DC



at the same prices, unless otherwise specified.

Model 301 D.C. Milliammeters

Article Number	Range Milli.	Ohms Res.	Article Number	Range Milli.	Ohms Res.
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 Microamps.	Ohms Res.	List Price	Year Price
3E9363	200	55	\$14.25	\$10.48
3E9364	500	55	\$14.25	\$10.48

for use in horizontal or 45° position.

Weston AC Model 301 Rectifier Milliammeters

Article Number	Milli-amps.	Ohms Res.	List Price	Year 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

Model 476 A. C. Instruments



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 Volts	Approx. Res. Per Volt	Article Number	Range Volts	Approx. Res. Per Volt
3C9141	1.5	3	3C9147	15	14
3C9142	2	4	3C9148	20	26.3
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-amps.	Approx. Resist.	Article Number	Milli-amps.	Approx. Resist.
3C9176	15	2000	3C9179	100	28
3C9177	25	690	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	5	.010
3C9167	1.5	.082	3C9171	10	.0058
3C9168	2	.05	3C9172	15	.00219
3C9169	3	.024	3C9173	20	.00162

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

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 Milliamperes 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 (1,000 ohms per volt, without external resistors); 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 3 3/4" diameter. Case body diameter 2 3/4". Case depth, back of flange 1 1/4", overall with screws 1 3/4". 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 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. 115 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	120	500	5.2
3C9397	250	600	2.52
3C9398	500	1000	1.18

List Price, \$18.00.
YOUR PRICE, Each \$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 3/4". Body diam. 2 3/4". Accuracy 2% on D.C. 5% with rectifier on A.C. Bakelite Case.

D. C. Micro-amperes

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

A. C. Micro-amperes

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



Price and Terms
IE2556—Supreme Model 333 Complete with Leads, Adapters and operating Instructions

\$387.11

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.

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 4 Resistance Ranges:—0 to 1000, to 10,000, to 100,000, to 1,000,000 ohms.
Check Current
 Six milliamperage 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.C. 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 3½" 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.

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 wired 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 35 Tube Tester and 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.

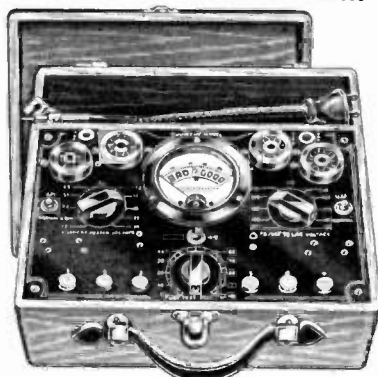
IE2564—SUPREME MODEL 444 Five Unit Radio Tester. Dealers' Net Cash Price \$877.11
TIME PAYMENT TERMS:—\$30.00 Down and Five Monthly Payments of \$13.65 Each.

Improved Oscillator

The OSCILLATOR CIRCUITS of the Model 444 are tuned by a tap switch arrangement so that calibration charts are 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 22½" long x 11½" wide x 6½" deep, with detachable cover. A commodious compartment is provided for the accessories which accompany the Tester. Operating instructions furnished.

Supreme Model 35 Tube Tester



IE2565—Supreme Model 35 Tube Tester Complete. YOUR PRICE \$293.50

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 3½" 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 9¾" wide x 5¾" 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 245, 275, 455, 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 TERMINAL CONNECTIONS AT THE TUBE-BASE OR TOP-CAP. . . . a 100% obsolescence-proof Tester for all tubes using seven prongs or less.

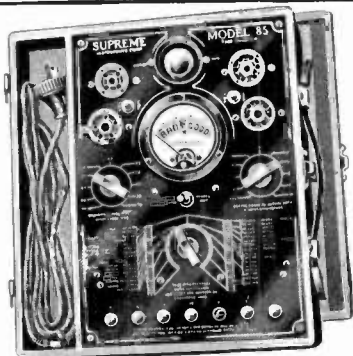
All socket holes are numbered in accordance with R.M.A. standards. There is a rotary switch for each of these socket terminals bearing a corresponding number. The contact arm of this switch is directly connected to the socket terminal having the same number. By rotating the contact arm of the switch, 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.



IE2563—Supreme Model 45
Portable Type Tube Tester
DEALERS NET CASH PRICE

\$28.91

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



Supreme Model 85 Tube Tester

IE2555—Supreme Model 85 Tube Tester
Complete
YOUR PRICE

\$39.15

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

A tube tester that sells tubes! d'Arsonval 3 1/4" 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 SUPREME STANDARD DIAGNOMETER

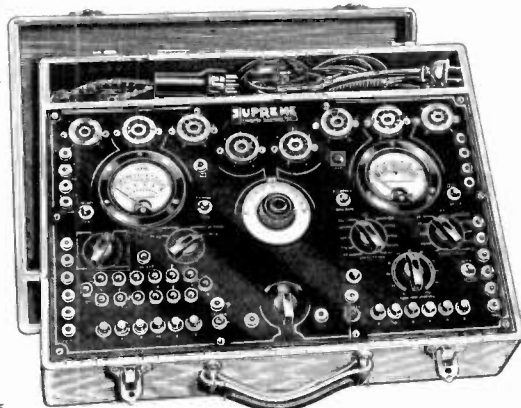
The Finest Test Instrument
You Could Desire

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 E.H. 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 1/4" 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
—125, 0.25—12 1/2 Mfd. Capacity.
25. Triple Range Ohmmeter, with Self Contained Batteries, Range 0-1000-10000—100,000 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. Milliamperes 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.



IE2566—Supreme Standard Diagnometer, for
110 A.C.
Dealers Net Wholesale
CASH
PRICE

\$97.95

The New Supreme Standard Diagnometer 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, Megohmmeter, Output meter, Voltmeter, Milliammeter and Capacity Checker.

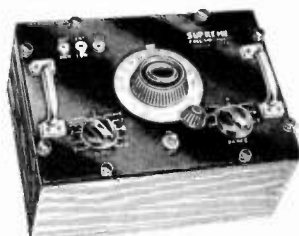
With Its Point-to-Point, direct analysis or over-all performance test may be made, in addition to testing tubes for quality and internal shorts, up to 90,000 ohms. Case size 18 1/2" L x 11 1/4" W. x 6 1/2" H.

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 4 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 1/2" x 8 1/4" x 5 1/2" Shpg. wt. 19 lbs. Beautiful Oak Cabinet. Bakelite Panel clearly engraved.

IE2550—Model 180, with tubes, and batteries.
YOUR
PRICE

\$58.75

Write for time payment price.



New "61" All Wave SUPREME Oscillator

\$24.45

IE2551—
YOUR PRICE

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.

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 400 cycle note, modulating the R.F. oscillator 50%. Two binding posts are employed for the output circuit which is attenuated by a smooth control of the potentiometer type. Batteries required are: 1 22½ volt "B" battery and 1 standard size 4½ 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, 9¾" wide, 4¾" deep and height overall 8¾".

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 7400 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**

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 22½ 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 porthole, 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

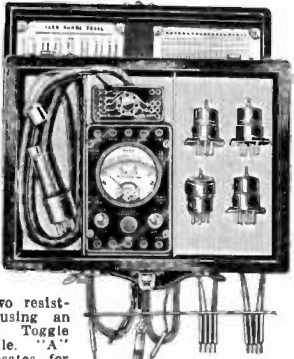
Modern Field Analysis Equipment! Employs the Weston Method of Selective Analysis which is a combination of "Cold Chassis" Point-to-Point testing and of "Hot Chassis" voltage and current analysis. An Analyzer Plug and cable brings the circuit of any tube socket to the Selector Unit on the rear of the multi-range meter. Short "Jumper" cords from the meter to the Selector Unit permit reading: A.C. or D.C. voltage, D.C. mls. 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, 0-7½, 15, 150, 750, volts. D.C. only, 0-7½, -75 Milliamperes. Two resistance ranges, 5000, 500,000 ohms using an inclosed 4½ volt "C" 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, 12¼"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.....



CONFIDENCE

Wheatstone Bridge Model X

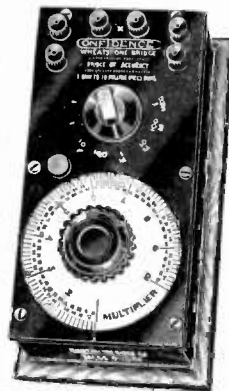
Now Only

\$19.85

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-phon 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 22½ 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 promoting 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 22½ 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.

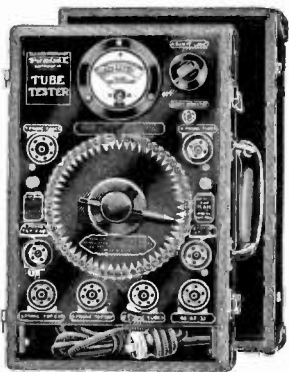
Tests over 130 different types of tubes including special Arcitrus, Kellogg, Kenrad, Majestic, Spartan, and Wunderlich types—all of which are arranged numerically on a complete tube chart furnished in lid. Accurate tests involving every element of every tube indicate true tube performance. The clearly 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 hot element short test included.

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

IE2539— **\$33.75**

YOUR PRICE.....

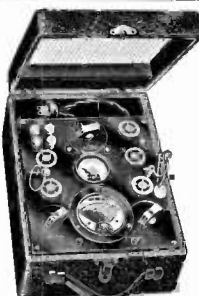


Weston Jewell Model 540 Sylvania Tube Tester

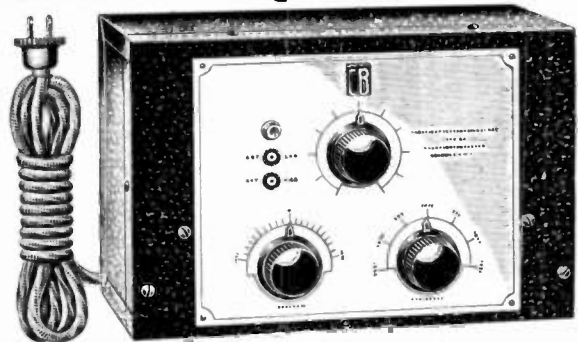
A compact and easily operated portable tester for all 4 and 5 prong tubes. Simple adapters listed elsewhere in this catalog permit tests of all other type tubes on this high quality instrument. Uses Jewell, "Index of Merit" 3½" meter, (20 Mil. movement). Has line voltage adjuster, inter-element short checker, and tube voltage selector. Filament voltages of 1½, 2, 2½, 3, 3.3, 5, 6.3, and 7.5 volts are available. Case is of dark green leatherette with removable lid. Size 12"x9½"x5½". 4½ ft. A.C. Cord. 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-Bregle 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

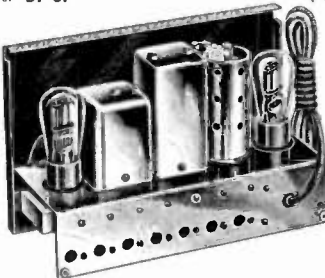
This is the 1935 model oscillator with a new AC line filter, sharp peak tuning coils, 100% attenuator, 400 cycle modulation. Just the oscillator you need for servicing the new sets. Three tubes; a type 37 modulator tube coupled through a special choke to the 36 oscillator tube, makes a stable efficient 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 fundamental 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.



Harmonics of the fundamental frequencies extend the range of the oscillator over practically all the frequencies used in commercial receiving sets. The advantage of this type of oscillator over the ordinary variable type is the accuracy of the crystal calibrated frequency bands and the stability of each range. The following list gives the fundamental frequencies in each of the 20-K.C. bands and the harmonics which may be obtained with ample strength for test purposes.

Fundamental Ranges in K.C. and Available Harmonics

120 to 130. First 5 harmonics: 165 to 185. First 4 harmonics: 252½ to 272½. Fundamental only: 446 to 466. 2nd, and 5th only: 590 to 610. 1st to 10th, 15, 20th: 990 to 1010. 1st to 21st harmonics: 1390 to 1410. 1st to 6th, 10, 15th.

Completely Shielded

Each individual coil and K. F. circuit within the oscillator is arranged or shielded independently so as to prevent strays or transient oscillations escaping from the steel case which houses the entire instrument. The case is finished with black crystal enamel. Size 10½"x15½"x3½". Ample length connecting cord and test leads are furnished. Equipment includes 2-37 tubes and 1-36 tube.

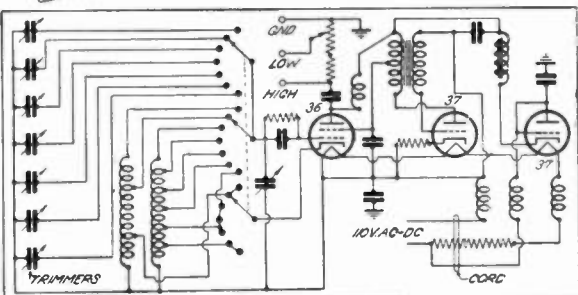
Ask Yourself These Questions When Buying An Oscillator

- Compare the answers with those given for the new Clough-Bregle Model OA.
1. Is it electron coupled? The OA is.
2. Has it a separate modulator? The OA employs a separate 37 tube.
3. Is its frequency calibration accurate? The OA is crystal calibrated.
4. Can it be compensated for frequency drift? The OA has 7 band trimmers.
5. Does it use expensive batteries? The OA is all-electric.
6. Can I get any better value for my money in any other make oscillator? The OA is the best buy in its class. You have to pay 25% more to obtain a better instrument.

Clough-Bregle 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"x10½"x4" 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-ridge 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 the "77" or any good Volt-ohm-milliammeter. Size 4½"x7"x3½" 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 prods with bakelite insulated connector to fit the pin-jacks make this the handiest instrument of its type on the market. Genuine 3½" 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 Mils. 0 to 1 Mil. D.C. Only Resistance ranges 0 to 1000 ohms, to 10,000, to 100,000 ohms. Size of case 4"x7"x3½" deep.

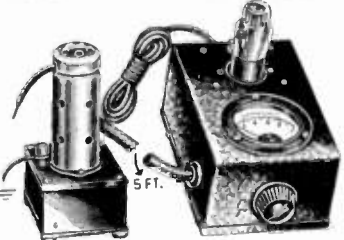


IE2524—Complete
YOUR PRICE **\$23.23**

Vacuum Tube Volt Meter

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

The Clough-Bregle 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.



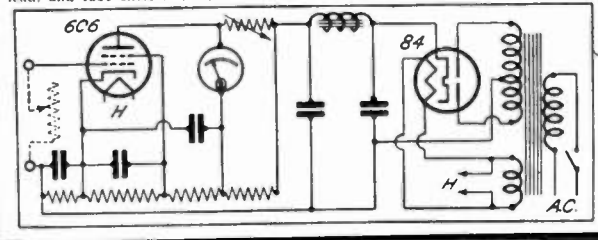
IE2574—Complete
YOUR PRICE **\$38.22**

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% of 1% under 200 K.C. less than 1% 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 IF 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-Interrupted D.C. Requires a sensitive headphone to indicate electrical balance.

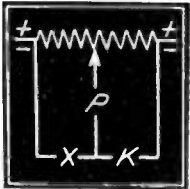
Application

The Wheatstone Bridge method of electrical measurement by comparison of the ratio 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.

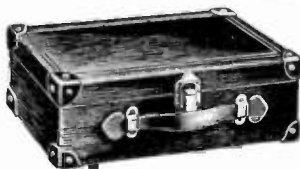


Specifications

Moulded Brown bakelite case, 5"x2 1/2"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 Readrite Standard Testers which have become damaged through wear or accident. Model numbers indicate Readrite Testers they fit. Available in three sizes to meet a wide variety of needs. Fabrikoid cover with reinforced leather corners, carrying strap and nickel-plated snap catch.

3E2609—Model 610-C.. Size 1 1/2"x1 1/2"x1 1/2".
List Price, \$6.60.

YOUR PRICE **\$3.88**

3E2635—Model 410-C. Size 10 1/2"x6 1/2"x1 1/2".

List Price, \$5.50.

YOUR PRICE **\$3.23**

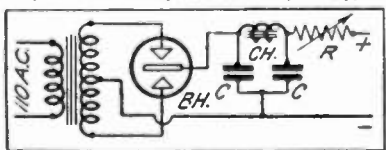
3E2636—Model 1000-C. Size 13 1/2"x9 1/2"x1 1/2".

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 Elkon dry disc rectifier provides D.C.

3E3921—Complete Kit of Essential parts.

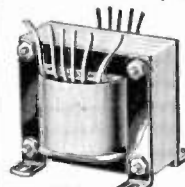
YOUR SPECIAL LOW PRICE **\$7.25**

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 (3E1929, \$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.



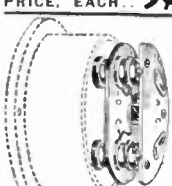
3D3929—YOUR PRICE... \$1.25

Replace old style round knobs. Have standard 1/4" hole with set screw. White pin line 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.
YOUR PRICE, EACH **9¢**

Replace old style round knobs. Have standard 1/4" hole with set screw. White pin line indicator. Furnished in black or brown bakelite. They add a factory appearance to home built instruments.

3E6817—2 1/4" Black.
3E6818—2 1/4" Brown.
YOUR PRICE, EACH **10¢**



Bakelite Bar Knobs

Tapered Pointer Type for Test Instruments

Replace old style round knobs. Have standard 1/4" hole with set screw. White pin line indicator. Furnished in black or brown bakelite. They add a factory appearance to home built instruments.

YOUR PRICE, EACH **10¢**

Rectifier Assembly

For 1 M.A. Meters

3E2510—For Weston 301 or 261 meters. With 301 Dial Scale.

List Price, \$5.00.

YOUR PRICE **\$3.25**

A compensated rectifier for 1 MA d'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 mica-rite discs equipped with soldering lugs and connections for mounting on the studs of a meter. The D.C. range of the meter is not affected 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 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

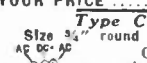
Type B 20 Milliamperes Capacity



Medium miniature size copper oxide rectifier for use in A.C. circuits of less than 5000 cycles frequency and rectifying not over 20 milliamperes D.C. May be used for external connection to D.C. meters employed in special capacity measuring circuits. Has 4-2 mounting bolt insulated from rectifying section.

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 circuits exceeding 600 volts. May be substituted for electrolytic rectifiers in Willard, Exide or Philco "B Eliminator" within 40 mill. 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 1/100 part of time required to burn in 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 Mill. Load	List Price Each	YOUR PRICE Dozen
3C6925	1/100	5	138 ohms	20c	\$1.40
3C6926	1/2	15	65 ohms	20c	1.40
3C6927	1/2	65	21 ohms	20c	1.40
3C6928	1/2	100	3.5 ohms	20c	1.05
3C6929	1/2	100	26 ohms	15c	1.05
3C6930	1/4	200	6.2 ohms	15c	1.05
3C6931	1/4	300	3.0 ohms	15c	1.05
3C6932	1/4	400	2.5 ohms	15c	1.05
3C6933	1/4	600	1.0 ohm	15c	1.05
3C6934	1	1000	.36 ohms	10c	.70
3C6935	2	2000	.14 ohms	10c	.70

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 per dozen
3C6936	1	250	60 watts	10c	70c per dozen
3C6937	1 1/2	250	80 watts		\$4.50 per C.
3C6938	2	250	150 watts		
3C6939	3	250	200 watts		
3C6940	3/4	500	75 mls.	15c	\$1.05 per dozen
3C6941	1/2	500	150 mls.		
3C6942	1/2	500	300 mls.		
3C6943	1/2	500	500 mls.		

Littelfuse Mountings

Tinned shakeproof terminals and extra quality phosphor bronze, nickel-plated fuse clips. Moulded bakelite base 1 1/2"x1 1/2" inches.



3C6944—For Littelfuse 1 1/4"x1/4" 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 1/4" full length. Nuts and washers included. For 1 1/4" fuses only.



3C6946—List each, 20c.
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, 15c.

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.

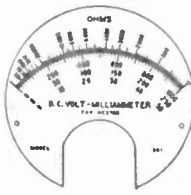
Per Box of 5, **15¢**
YOUR PRICE
Per Hundred **\$2.75**

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



Dial Scales for Use with 1 Milliampere Movement Meters

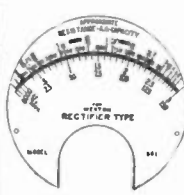
On Fine White Bristol Board with Black Figures; Brass Meter Plate



Scale Num. 1.

For Use on 1 Milliampere Movement Meters

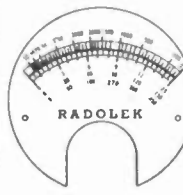
Upper scale calibrated for use with $\frac{1}{2}$ volt-ohm battery, 50 divisions marked 50, 250, and 1000 for D.C. Volt. Milliampere Range s. Exactly replaces original dial.



Scale Number 3.

For Meters Equipped With Copper Oxide Rectifiers

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



Scale Num. 5

Special top ohm scale for use with $\frac{1}{2}$ volt dry-cell, reads 1500 ohms mid-scale 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.

YOUR PRICE **45¢**

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

any 1 MA meter it is installed upon. This scale and circuit is an exclusive Radolek development.

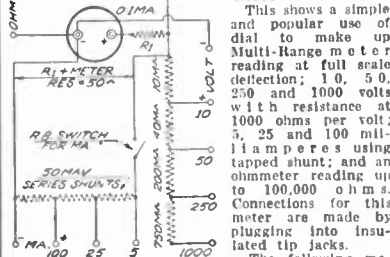
- 3E8380—For Weston Model 301.
- 3E8381—For Jewett Type 88.
- 3E8382—For Triplett Model 321.
- 3E8383—For Beede $\frac{3}{4}$ " model.
- 3E8430—For Hoyt Model 557.
- 3E8431—For Jewett Type 54.

- 3E8436—For Beede $\frac{3}{4}$ ".
- 3E8437—For Hoyt 557.
- 3E8438—For Jewett 88.
- 3E8439—For Triplett 321.
- 3E8440—For Weston 301.

YOUR PRICE, EACH **45¢**

Diagram Number 1A.

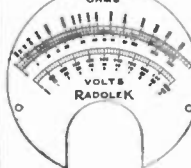
Multi-Range D.C. Volt-Milliammeter-ohmmeter



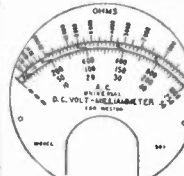
materials in addition to 1 milliammeter meter, are required to make up this outfit: Meter Dial No. 1; $\frac{1}{2}$ volt battery; 1 each precision resistor in ohms, 450, 10,000, 40,000, 200,000, 750,000; semi-variable resistor to bring meter resistance up to 50 ohms; Van series shunt resistor, S. P. S. T. Switch; 11 pin jacks, panel, cabinet.

High—Low Ohm—Volt Scale

Scale Num. 2.



Upper scale is for $\frac{1}{2}$ 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.



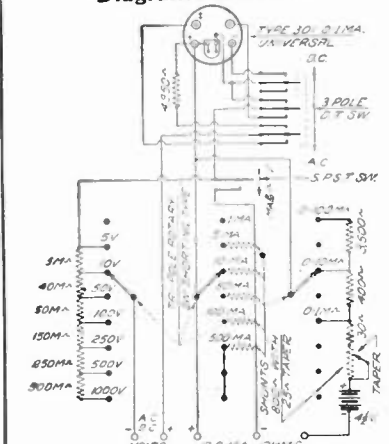
Scale Num. 4.

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 $\frac{1}{2}$ Volt ohm battery.

- 3E8395—For Beede $\frac{3}{4}$ ".
- 3E8396—For Weston 301.
- 3E8397—For Triplett 321.

YOUR PRICE, EACH **45¢**

Diagram Number 4



For 1 Milliampere Universal Meter

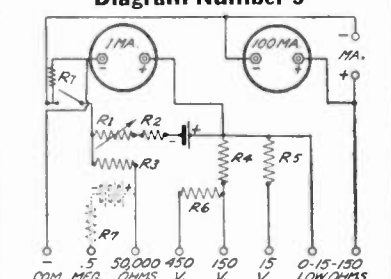
Provides A.C.—D.C. Multi-Range Voltmeter-D.C. Milliammeter-Ohmmeter.

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. Milliammeter: 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; $\frac{1}{2}$ volt battery; 4 insulated tin 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. In-line 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 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 Midgett Yaxley potentiometers. R5 is a non-critical 8500 to 9000 ohm resistor. R6 is 90,000 ohm $\frac{1}{2}$ precision resistor. R7 is 900,000 ohm $\frac{1}{2}$ resistor. R1 is 4000 ohm Capacity of 0.05 Mfd. is shunted across the meter to protect the winding on A.C. ranges.



Use any standard 1 MA meter, preferably with 50 ohms internal resistance. Any 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 equals the unknown resistance in ohms.

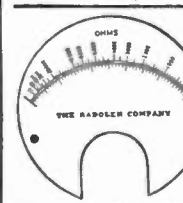
The top ohm scale calibrated for use with a $\frac{1}{2}$ volt dry cell, may be extended from its printed maximum to read 500,000 ohms with a suitable battery and resistor as indicated by dotted lines in the diagram. Volt ranges of 15, 150, 450 at 1000 ohms per volt extend the usefulness of this type test equipment.

In the diagram, R1 is 1500 ohms variable. (See Yaxley midgett Potentiometers 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 1450 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 $\frac{1}{2}$ volt battery. Lower scale has 50 divisions and ten sub-divisions without accompanying figures to permit hand calibration for any particular scale desired.



- 3E8441—For Beede $\frac{3}{4}$ ".
- 3E8442—For Jewett 54.
- 3E8443—For Triplett 321.
- 3E8444—For Triplett $\frac{5}{8}$ ".
- 3E8445—For Hoyt 557.
- 3E8446—For Jewett 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.

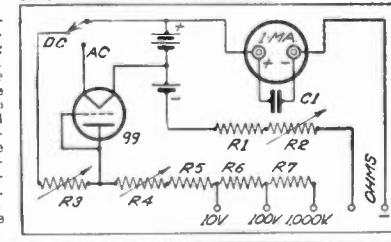
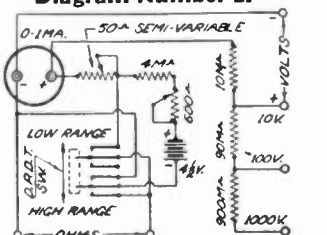


Diagram Number 2.



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; $\frac{1}{2}$ volt battery; 50 ohm semi-variable resistor; 4,000 ohm wire wound resistor; 900,000 ohm carbon resistor; 10,000 and 90,000 ohm Electrad precision resistors; 6 insulated pin jacks; panel; cabinet.

3E8390—All of above materials supplied in a kit with hook-up wire, but without meter, panel or case.

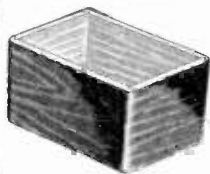
YOUR PRICE **\$8.25**

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



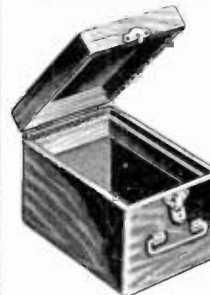
YOUR PRICE,
Each

Genuine Walnut

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

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

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 1/2"x7" Inside size: 4 1/2" wide, 7" long, 3 1/2" deep. YOUR PRICE, EACH

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

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 3" snap lock. Height 6 3/4" inches.

4E10440—List Price, \$3.50. YOUR PRICE

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 #32 screw. 1/4" holes required with 3/8" centers for use under panels less than 1/8" thick.

3E6419—No. 432. YOUR PRICE, Each

Jewelled 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" bulb required.) Bracket takes standard sized pilot light bulbs. Mounts in 1/2" hole on any panel not over 1/8" thick. Red Jewel included.

3E6765—YOUR PRICE, Each

Jewels For Pilot Light

Colored jewel on threaded shank with mounting nut. Require 1/4" hole in panel not over 1/8" thick. Very attractive when used in front of small neon or filament pilot lights.

3E6766—Red
3E6767—Amber

3E6768—Green.

YOUR PRICE, EA.

Radolek—Triplet 0-1 MA Foundation Meter



3E8389—YOUR PRICE

\$4.66

3 1/2" Black Bakelite Case of Arsonal Movement

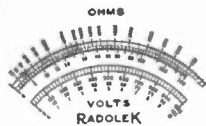
Designed particularly for use with external resistors and shunts to build up a multi-range D.C. voltmeter and a dual scale ohmmeter employing the same wiring diagram as given for Radolek Dial Scale No. 2 on page 36. Meter has 50 ohms internal resistance and requires 1 milliamperes for full scale deflection. 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 shunt for 50 ohm meter resistance or by use of hand calibrated manganin wire shunts.

Special Ohm Scale: The 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 4500 ohm resistance in series with a 4 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 1/2". 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 jewelled 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 1/2" inches. Flange Diameter 3 1/2" 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 1/4" diameter with 2 1/2" diameter body, 1 1/2" deep back of flange. Black bakelite case, flange 3 3/4" diameter with 2 1/2" diameter body, 1 1/2" 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—1/4"x1 1/2"x7" Net Each 52c
3E7488—1/4"x1 1/2"x7" Net Each 59c
3E7489—3/8"x1 1/2"x8 1/2" Net Each 67c
3E7490—3/8"x1 1/2"x8 1/2" Net Each 79c

World Radio History

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 slide wire, 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. 3D4840—YOUR PRICE

26 Gauge B&S, 1.117 ohms per foot. 200 foot spool, Double Silk Covered. 3D4841—YOUR PRICE

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

Bare Resistance Wire

For use at extreme high temperatures in heater elements, of ranges, radiant heaters, toasters, rheostats, bleeder resistances, etc. Temperature co-efficient 0.000112 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. Round. Supplied without insulation.

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

32 Gauge B&S, 10.15 ohms per foot. 500 foot spool, bare wire. 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 millamps specified.

Multiple Shunts

For 1 Mil. Weston D. C. Mod. 301 27 Ohms Meter Resistance

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

For Triplet Model 321 and 324 30 ohms Meter Resistance List Price, Each \$1.50. YOUR PRICE

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

For Beede and Jewell 54 35 Ohms Meter Resistance List Price, Each \$1.50. YOUR PRICE

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

Single Range Shunts for 50 Ohm. 1 Mil. List \$1.50. YOUR PRICE

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

Series Tapped Shunts

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

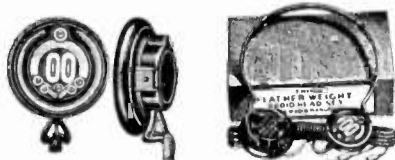
3D4891—For Universal Model 301. 50 ohms Meter Resistance. Tapped for 5-25-100 mills. List \$3.00. YOUR PRICE

Series Tapped Shunt

For Beede, Hoyt, Triplet, 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

Trimm Featherweight Head Set



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

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. Lath. 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. Lath. 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 3/4" 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

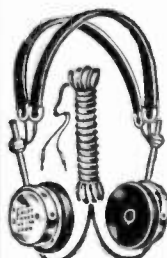
Output transformers are included. Specify on your order type of output tubes used and how they are connected.

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 speaker. 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 are welded construction which is used throughout.

Physical Specifications

Model PM-6—6 1/2" cone flange diameter, 7 3/4" magnet width, 3 3/4" maximum depth.
Model PM-8—8" cone flange diameter, 8 3/4" magnet width, 4 3/4" 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

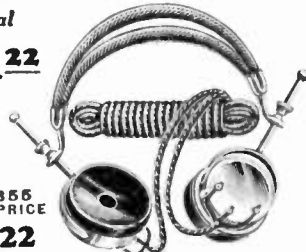
Designed especially for amateurs and DX fans. Extremely sensitive to faintest signal. Same general construction as above model Frost Fones. Specially selected materials give greatly increased sensitivity. The high impedance of 20,000 ohms at 1000 cycles make these phones especially suited for A.C. Bridge work.

3D2356—List Price, Set \$5.00. \$2.50
YOUR PRICE

Junior Headphones

Special

\$1.22



3C2355

YOUR PRICE

\$1.22

The headphones listed here are thoroughly reliable and responsive to weak signals. Adjustable woven 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 braid covered cord. All black finish.

3D2351—Total resistance 4,000 ohms.

Single Lots, \$1.25

Set \$1.25

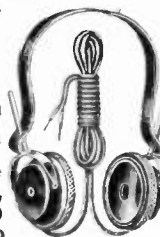
TEN SETS FOR \$12.50

3D2374

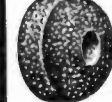
Total resistance 2,000 ohms.

PER SET 97¢

TEN SETS FOR \$9.40



Ear Phone Cushions



3C2371—YOUR PRICE 22¢

PAIR \$1.95

TEN PAIR FOR \$19.50

Made of soft sponge 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 3/8". Supplied with a long double tipped 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 \$27.60

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 head-band 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 MW.

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. 45¢
YOUR PRICE

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 \$1.25
YOUR SPECIAL PRICE

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. Specially make of phonograph and we will supply correct adapter.

3C2366—Former List, 95¢
\$5.00 YOUR PRICE

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. \$3.75
YOUR PRICE

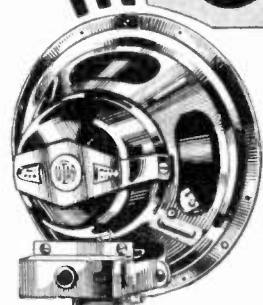
Utah Big Chief

Same dimensions as above unit but does not incorporate tripod construction.

3D2378—List Price \$5.25. \$2.45
YOUR PRICE



UTAH SPEAKERS

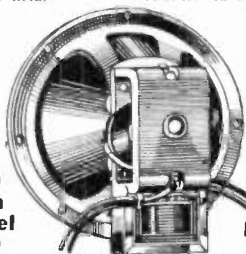


OUTPUT TRANSFORMERS

In ordering Speaker with Output Transformers, specify type of output tubes used and whether single or push-pull.

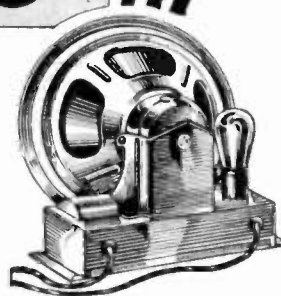
Abbreviations Used

Pdfl. Power dissipation of field.
Pwr. Power handling capacity of voice coil.
Imp. Voice coil impedance at 100 cycles.
Res. Voice coil resistance at 72° 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. Pdfl., 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

4E10250—2500 ohm field] List Price, \$12.50
 4E10251—1500 ohm field] YOUR PRICE \$3.95
 4E10252—1000 ohm field] PRICE

With Output Transformer

4E10250T—2500 ohm field] YOUR PRICE \$4.35
 4E10251T—1500 ohm field] PRICE
 4E10252T—1000 ohm field] PRICE

10 Inch Speaker

Model 10A. Diameter 10". Overall Depth 4 1/4".

Less Output Transformer

4E10253—2500 ohm field] List Price, \$14.00
 4E10254—1500 ohm field] YOUR PRICE \$4.81
 4E10255—1000 ohm field] PRICE

With Output Transformer

4E10253T—2500 ohm field] YOUR PRICE \$5.40
 4E10254T—1500 ohm field] PRICE
 4E10255T—1000 ohm field] PRICE

12 Inch Speaker

Model 12A. Diameter 12". Overall Depth 6".

Less Output Transformer

4E10256—2500 ohm field] List Price, \$15.50
 4E10257—1500 ohm field] YOUR PRICE \$5.42
 4E10258—1000 ohm field] PRICE

With Output Transformer

4E10256T—2500 ohm field] YOUR PRICE \$6.19
 4E10257T—1500 ohm field] PRICE
 4E10258T—1000 ohm field] PRICE

UTAH 12" STADIUM SPEAKER

Model 12B (20 Watts)

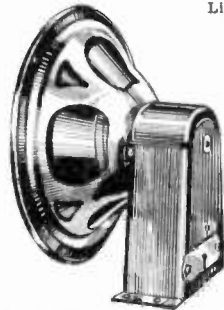
List Price, \$17.50.

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 1/4". Field Res., 2500 ohms. Pdfl., 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] PRICE

With Universal 500 ohm Line to Voice Coil Transformer

(Permits use of 1 to 6 speakers on 500 ohm line).
 4E10259T—2500 field] YOUR PRICE \$7.95
 4E10260T—1500 field] PRICE
 4E10261T—1000 field] PRICE

5 Inch Model 5-D

5 Inch Speaker

Model 5D. Diameter 5". Overall Depth 2 1/4". Pdfl., 5 watts. Voice coil diam. 3/4". Imp., 5 ohms. Pwr., 3 watts. Res., 2.7 ohms.

Less Output Transformer

4E10262—2000 ohm field] List Price, \$6.50.
 4E10263—1500 ohm field] YOUR PRICE \$2.29
 4E10264—1000 ohm field] PRICE

With Output Transformer

4E10262T—2000 ohm field] YOUR PRICE \$2.64
 4E10263T—1500 ohm field] PRICE
 4E10264T—1000 ohm field] PRICE

6 Inch Model 62-J

6 Inch Speaker

Model 62J. Diameter 6". Overall Depth 3". Pdfl., 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] PRICE

With Output Transformer

4E10275T—2500 ohm field] YOUR PRICE \$3.25
 4E10276T—1500 ohm field] PRICE
 4E10277T—1000 ohm field] PRICE

UTAH MAGNETIC

R.C. Clear on's. Utah quality throughout! Cadmium finished steel frames. Impedance approx. 9,500 ohms at 1000 cycles. 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 2 1/4". Ship. wt. 2 lbs. List Price \$5.00.

YOUR PRICE \$2.02

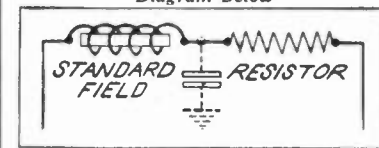
4D10271. Diameter 8 inches. Depth 3 1/4". Ship. wt. 2 1/2 lbs. List Price \$6.00.

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. Pdfl., 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. Pdfl., 10 watts. Voice coil diam., 1". Imp., 6 ohms. Pwr., 10 watts. Res., 4.7 ohms. Ship. Wt., 12 lbs.

List Price \$22.00.

14E10266. YOUR PRICE \$12.94

Model 12B-AC. Diameter 12", overall height 12 1/4", width 10". Field Res., 2500 ohms. Pdfl., 12 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.

14E10267. YOUR PRICE \$14.70

Utah "P. M." Speakers

3000, 4000 and 6000 Milli-watt Power Inputs

An Improved Kinematic Power Loudspeaker with an automatic immediate 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 thousands 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

6 Inch De Luxe



**YOUR PRICE
EACH\$155**

Less Transformer

New Design— Superior Performance

Carries full output of any power tube delivering up to 4000 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 to 6 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**

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**

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\$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 4 1/2 to 6 ohms. D.C. resistance 4 ohms. Overall diameter 6 1/4". 3 3/4" depth. Weight packed, 3 1/2 lbs.

8 1/2 Inch Standard

For 6000 Milliwatt Audio Output

Less Output Transformer

14E10570—2500 ohm 6 Watt Field.

YOUR PRICE\$2.10

Ten for \$19.50

With Output Transformer

14E10570T—2500 ohm 6 Watt Field.

YOUR PRICE\$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, midrange 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 1/2 lbs. Special size field coils of less than 3000 ohms can be supplied on order for 30c each extra.

Universal 500 Ohm

Line Matching Transformer

3E4140—

YOUR PRICE74c

EACH

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 ohms impedance.

ers. 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\$245**

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 1/4". Shipping weight 5 1/2 lbs.

**Less Output Transformer
YOUR PRICE
EACH\$2.45**

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.

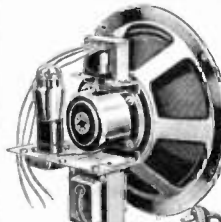
**YOUR PRICE
EACH\$2.80**

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 6000 milliwatts audio power. Field rectifier operates on 115 volt, 60 cycle A.C. Overall diameter 8 1/2". Depth 4 1/4". Type 80 tube not included. Shipping weight 8 1/2 lbs.

8 1/2" De Luxe 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\$295**

Less Transformer

The 11 Inch De Luxe 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 De Luxe Model is unrivaled. It is particularly suited to ballrooms and small theaters. Installations where a well rounded tone is necessary to accommodate the acoustics of undraped 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". 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**

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**

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\$1.45

EACH

Ten for\$13.80

With Self-Adjusting-Ratio

Coupling Transformer.

4E10560—2500 ohm field, 3 watts.

4E10561—3000 ohm field, 3 watts.

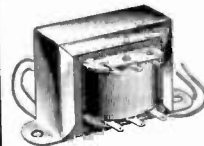
4E10562—6 volt, 4 ohms, 9 watts.

For use with tubes rated to deliver less than 3000 milliwatts output. The correct size for many of the new "Clear 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 3.3 to 4 ohms. Overall diameter 5", depth 2 1/4". Shipping weight 2 1/2 lbs.

Select Proper Output Transformer from This Chart

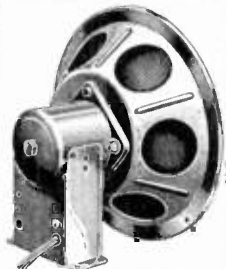
When Ordering Speakers Specify Output Transformers Required by Stating Type Letter of Transformer as Specified Below. Ratios are for 5 to 7 Ohm Voice Coils.

Transformer Type	FOR TUBES IN PUSH-PULL							FOR SINGLE TUBES			
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
Ratio	27:1	35:1	45:1	60:1	20:1	27:1	35:1	45:1	60:1	20:1	27:1
For The Following Types of Radio Power Tubes	48 2A3	43 45 2B6 71A 12A5 482B 483	2A5 20 33 42 46 47 6A4 80	PZH GA KR5 59P 89P PZ LA P. or T	10 38 41 49T 12A AF KR25	48	43 45 2B6 71A 2A3 42 48 50	2A5 20 33 42 46 47 6A4 89	PZH GA KR5 59P 89P PZ LA P. or T	10 38 41 49T 12A AF KR25	



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.

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 micarta 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.

With 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 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 baffle. Overall size 3 1/2" 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 1/8" holes makes for a finely finished job and insures best acoustic properties. Height 11", Width 10 3/4", 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, **59¢**
Each **TEN FOR \$5.40**

For speakers or midget sets. Takes any speaker not over 8 1/2" 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" deep. Inside dimensions, 8 1/4" 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 13 1/2 inches diameter. Front frame of speaker is of beautiful walnut veneer in rich butt grain. The attractive grille backed with gold brocade 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, 8 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 1/4". 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. Jobs. 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 8 1/2", 2 Ohms Impedance
4E10555—List Price \$2.50.

YOUR PRICE, EACH **69¢**
Ten for \$6.50

The Smallest, Satisfactory Dynamic Speaker. Made Three Point 2 inch micarta-spider-web coil support. Low resistance Hum-Bucking coil. Handles 1 1/2 watt signal with surprising tone quality for such a small reproducer. Extends 2 1/4" 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 milliamperes 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

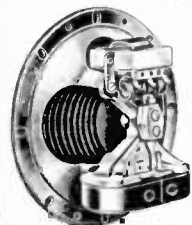
14D10453

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 rattle or distortion. Has same power handling capacity as Dynamic Speaker of same cone size. Requires no field current. Used to replace Dynamics 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 1/2" 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 1/2" 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 1/2" 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.

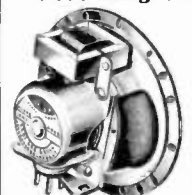
5" Diameter Cone 2 1/2" depth 2 Watts Power Handling Capacity 120-7000 cycle freq. 1 1/2 lbs. net weight.
4E10471—
List Price, \$6.00.
YOUR PRICE \$2.10

6 1/2" Diameter Cone 2 1/2" depth 3 Watts Power Handling Capacity 110-7000 cycle freq. 2 lbs. net weight.
4E10472—
List Price, \$7.50.
YOUR PRICE \$2.65

8" Diameter Cone

4E10473—
List Price, \$8.50.
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. In feature provides test and easiest assembly and test. Field Res. 3000 ohms, P.D.F. 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
4D10466 Single 43, 45 or 71A **YOUR PRICE EACH \$2.75**
4D10467 Single 41, 42, 89 or 1A **YOUR PRICE EACH \$2.75**
4D10468 Single 38 **YOUR PRICE EACH \$2.75**
4D10469 Single 48 or 2A3 **YOUR PRICE EACH \$2.75**

Best 6 1/2" Dynamic



A Special Value

4E10470—
List Price, \$9.50.
Your Price, \$1.95
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 aluminum finish. Strong, rugged construction. Output transformer for single type 47, 2A5, PZ, PZ11, 79, 89, 33, 6R, 6A tubes. Overall diameter 6 1/2". Depth 2 3/8". Core diameter 5/8". 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. Makes Speaker 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, (5) If you cannot determine the resistance send a short piece of wire used in the windings of the coils, (6) 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, 16	2,500 2,500	3E7914 3E7915	2.10 1.35
15	600	3E7916	3.53
S14, S21	5,000	3E7917	4.70
CROSLY MODEL M145 269 (Buddy Boy)	1,500 10,000	3E7918 3E7919	2.59 2.35
EDISON R7	4,500	3E7920	3.25
JENSEN Models D7-D8			
D7-D8	1,500	3E7921	2.57
D9-D15	2,500	3E7922	2.75
D9-D15	1,800	3E7923	1.75
D9-D15	2,500	3E7924	1.65
D16	1,000	3E7925	1.47
LYRIC No. 9	5,000	3E7926	1.21
MAGNAVOX 9" (Medium)	2,500 7,500	3E7927 3E7928	3.50 2.20
MAJESTIC Model G1, G2, 71, 72, 91, 92, 181, 93, 90, 91, 93, 101, 102, 103	3,100 2,730 2,730	3E7929 3E7930 3E7931	3.25 3.25 3.25
G9	1,250	3E7932	3.30
G10B, 151, 153, 154, 155, 156	1,750 200	3E7933 3E7934	4.41 2.20
G10C, 351	1,650	3E7935	2.20
G10D, 56, 57, 58	765	3E7936	1.50
G103, 221	570	3E7937	2.00
G11B, 251, 253, 254		3E7938 3E7939	1.88 1.94

Set or Speaker	Field Ohms	Stock Number	Your Price
MAJESTIC (Continued)			
G11C, 201, 203, 204	1,430	3E7940	2.20
G13, 253, 254, 211, 214	570	3E7941	1.55
G4, Models 130	7,650	3E7942	4.41
G5 Models 131, 132, 233, 61, 72, 163	7,650	3E7943	3.51
G6, Models 51, 52, 131	1,000	3E7944	3.55
G7, Model 21	1,250	3E7945	4.41
G8, Model 22	1,250	3E7946	4.41
G9, Model 23	1,250	3E7947	1.95
G14, Model 353	300	3E7948	3.88
G14, Model 351	750	3E7949	3.88
G14B, Model 353	550	3E7950	3.88
G14C, Model 223	5,350	3E7951	3.53
G14D, Model 223	720	3E7952	3.88
G14E, Model 223	5,350	3E7953	3.88
G14F, Model 307	1,040	3E7954	1.94
Models G13C, 215	570	3E7955	2.75
OXFORD (Medium)	4,000	3E7956	2.75
PHILCO Model 20 86, 87, 65, 95, 76, 96, 77	3,300 2,000	3E7957 3E7958	1.15 1.74
RCA Model 66 106	7,000 6,000	3E7959 3E7960	2.25 2.45
ROLA Model F4	3,000	3E7961	1.75
STEWART WARNER Series 950, Models 200A, 445A, 565A, Model R202	10,000 10,000	3E7962 3E7963	3.95 2.39
UTAH Model 9", A-100 Model Little Giant (Isolyne)	2,250 2,500	3E7964 3E7965	3.00 1.95
VICTOR RE32-45-75	3,000	3E7966	1.95

Magnavox Automobile Speaker

Models 1501 - 1514

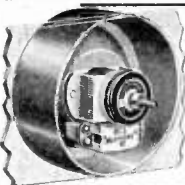
New line quality and practical design are the outstanding features of the new, Improved Magnavox Auto Speakers. Tone is full, rich and true—a conspicuous feature among auto speakers.

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 1/2" 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, 1/4" 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 Field Coils

For APEX, GLORITONE U. S. Radio & Telev. and Mont. Ward Sets

High grade coils wound more accurately and impregnated more thoroughly than the originals. The complete specification given herein 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 1/2" 2 1/4" 1 1/4"
26	2286	3E7901	11,500T	1 1/2" 2 1/4" 1 1/4"
26A	2467	3E7902	11,500T	1 1/2" 2 1/4" 1 1/4"
26B	2758	3E7903	11,500T	1 1/2" 2 1/4" 1 1/4"
26P	2925	3E7904	11,500T	1 1/2" 2 1/4" 1 1/4"
26P	3261	3E7905	1,000	1 1/2" 2 1/4" 1 1/4"
27	1936	3E7906	11,000	1 1/2" 2 1/4" 1 1/4"
32	2505	3E7907	700	1 1/2" 2 1/4" 1 1/4"
8A	2801	3E7908	6,600T	1 1/2" 2 1/4" 1 1/4"
10B	2802	3E7909	6,600T	1 1/2" 2 1/4" 1 1/4"
90A	3261	3E7910	1,000	1 1/2" 2 1/4" 1 1/4"

*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: 3", 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.



4E11560—For G1
4E11561—For G2

YOUR PRICE
EACH **94¢**



4E11500—Part 15142.
4E11501—Part 14374.
YOUR **\$1.19**
PRICE



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 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 #2-70 Utah Large Cub No.3 332-W (Little Giant No.1)	8	4E11523	\$1.23	LYRIC Model No.9 D Model 8-7 (Jensen D15 Model 10 Model 8-6 (Rola F-6) Model 88 Model S80	10 1/4 8 1/4 4 7 1/2 9	4E11545 4E11529 4E11546 4E11547 4E11548 4E11549	\$1.23 1.10 1.23 1.24 1.30 1.23	RCA (Continued) RCA M34, 28 R-78, RA3A, CRD9AC, CRD-9DC R71, R-71B, R-24, SWA3 R74, R76, R77, RE81 R73, R75, R70	5 10 7 1/2 10	4E11588 4E11589 4E11590 4E11591	\$0.61 1.10 .98 1.10
ATWATER KENT 43, 46, 55, 60, 66, 67, 64 (Part No. 15142)	10 1/4	4E11500	\$1.19	MAGNAVOX D7, D8 130 Series, Model 136 130 Series, Model 138 140 Series, Model 142	9 1/4 8 1/2 8 1/2 9 1/2	4E11550 4E11551 4E11525 4E11553	\$1.23 1.22 1.22 1.22	ROLA F5 Series F6 (Old Model "J"), D90, D110 Series "K"	6 1/4 8 9 1/2 9	4E11593 4E11594 4E11592 4E11592	\$1.10 1.17 1.22 1.22
H2, L, F, P, H, (Part 18081) 77, 88, 89, 94, 96, 489, Late 83, 85, (Pt. 20737)	10 1/4	4E11503	1.23	Model 143 Model 144 Model 150 Model 154 Deep	11 1/4 7 1/2 8 1/2 8 11 1/2	4E11554 4E11522 4E11556 4E11524 4E11559 4E11558	1.34 1.18 1.10 1.22 1.42 1.10	SIMPLEX (N.E.)	6	4E11630	\$0.98
BOSCH 58, 48 31, 73, 204 5A, 39A	9 1/4 9 1/4 7	4E11510 4E11511 4E11512	\$1.35 1.35 1.10	MAJESTIC G1—Models 71, 72 G2—Models 71, 72, 91, 92, 181 G3—Models 90, 91, 93, 101, 102, 103 G4—Model 130	9 9 10 10	4E11560 4E11561 4E11562 4E11563	\$0.94 .94 .98 .98	SPARTON 737, 931, 89A, 99, 101, 109, 110, 111, 301, 589, 591, 593, 740, 750, 930 737, 931, (Jensen D7) 600 Series (Jensen D15) 600 Series (Magnavox 138) Model 410 (Rola K)	9 11 1/4 8 1/4 7 1/4 10 1/4	4E11550 4E11531 4E11529 4E11525 4E11596	\$1.34 1.34 1.10 1.10 1.27
BRUNSWICK 10 D, E D11, 12, 16, 18, 33 E1, 24, 25 S81, S82, 81, 82, 14 21, 31, S14, S21, S31 15, 22, 32, 42	8 1/2 12 12 12 12	4E11514 4E11516 4E11517 4E11518 4E11519 4E11505	\$1.23 1.23 1.42 1.42 1.42 1.42	G5—Models 131, 132, 233, 61, 62, 163 G6—Models 51, 52, 53 G7—Model 21 G8A—Model 22 G9—Model 23	12 10 10 12	4E11564 4E11565 4E11566 4E11567	1.42 1.22 1.22 1.42	STEINITE All Models	10	4E11597	1.42
CLARION 60, 80, 81, 85, 90, 91, 100, 120, 25-60 220, 260, 25-260	8 1/4 6	4E11514 4E11515	\$1.22 1.10	G10B—Models 151, 153, 154, 155, 156 G11—Models 251, 253, 254, 201, 203, 204 G13—Models 253, 254, 211, 214, 353, 215	7 1/2 10 12	4E11569 4E11570 4E11571	.98 1.18 1.10	STEWART-WARNER 200A, 445A, 565A, (950 Series) (2 Point Spider) 445A (3 Point Spider) 150A R202	9 9 8 1/4	4E11598 4E11599 4E11600 4E11601	\$1.34 1.34 1.22 1.22
CROSLLEY 262, 428, 408, 628 124 (Utah Cub No. 2) 124 (Jensen D-9) 124 (Magnavox 144) 125 (Utah Cub No. 3) 135 (Magnavox 154) 249 (Magnavox 138)	9 11 1/4 7 1/2 7 3/4 8 8 1/2	4E11520 4E11529 4E11522 4E11523 4E11524 4E11525	\$1.19 1.41 1.41 1.34 1.23 1.23	G14—Models 351, 353, 223, 221, 307 G15—Models 291, 293, 294, 303, 304, 324, 314 G22—Models 336, 344, 363, 393	12 12 10 12	4E11572 4E11573 4E11574	.98 .98 1.22	U.S. APEX GLORITONE 30, 31 (Utah Sluriton) 7B (Utah Large Cub No.2) 26A, Speaker 2714 26A, Speaker 2286 26A, Speaker 2447 26P, Speaker 2758 26P, Speaker 2925 26P, Speaker 3261 7B, Speaker 336 8A, Speaker 2801 10B, Speaker 2802 99A, Speaker 3261	11 7 1/4 6 8 1/2 8 8 8 8 8 1/2 8 8	4E11508 4E11509 4E11602 4E11603 4E11604 4E11605 4E11606 4E11607 4E11608 4E11609 4E11610 4E11611	\$1.42 1.22 1.22 .98 .98 1.10 1.10 .98 1.10 1.22 1.10
FADA Shallow Deep (Models 20, 32, 25, 15, 15B, 15C) KU45, 41, 412, 42, 422, 44, 46, 47	8 1/2 8 1/2 10 1/2	4E11626 4E11627 4E11628	\$1.34 1.34 1.42	G25A—Model 381 G26A—Models 371, 373 G26C—Models 411, 413, 411A, 413A D65—Model 331 (Best) D-5—Models 371, 373 G-16B—Model 311	5 5 6 1/2 5 5	4E11575 4E11576 4E11577 4E11555 4E11578 4E11534	.68 .73 .71 .95 .81 1.10	Utah Cub (2 Point Spider) Cub (3 Point Spider) Large Cub No. 1 (Inside Spider) Large Cub No. 2 (2 Point Spider) Large Cub No. 3 (3 Point Spider) Little Giant No. 1 (Inside Spider) (Isodyne) Little Giant No. 2 (2 Point Spider) Little Giant No. 3 (3 Point Spider) A100 Stadium (66A-66B)	6 6 7 1/4 7 1/4 7 1/4 7 1/4 8 5 8 9 11	4E11633 4E11633 4E11614 4E11509 4E11523 4E11507 4E11616 4E11506 4E11613 4E11508	\$1.10 1.10 1.22 1.22 1.22 1.07 1.22 1.22 1.34 1.42
GENERAL ELECTRIC T-41, H3, H51, H32, H72, 822, S42, S132, K62, S42B 880, J85, J76	10 1/4 10	4E11526 4E11527	\$1.23 1.23	NEWCOMB-HAWLEY NH9	9	4E11550	\$1.34	VICTOR RE32, 45, 75 RE57, 34, 35 (RCA106)	9 10 1/4	4E11618 4E11526	\$0.89 1.22
JENSEN D4, D5 D7, 18 D7 (Inside Spider) D9 (Inside Spider) D11 D15 D16	9 1/4 11 1/4 11 1/4 11 1/4 8 1/2 8 1/4 8 1/2	4E11530 4E11531 4E11532 4E11521 4E11533 4E11529 4E11534	\$1.42 1.42 1.32 1.32 1.18 1.10 1.10	OXFORD 87, 65, 95, 76, 96, 77, 40, 111, 90, 112 90, 3, 104, 21, 70	8 1/4 10 10 12	4E11579 4E11580 4E11581 4E11632 4E11582	\$1.18 1.22 1.22 1.34 1.34	WESTINGHOUSE WR4, WR5, WR6, WR7 WR10, WR12, WR15	9 10 1/4 10	4E11618 4E11526 4E11527	\$0.89 1.22 1.22
ISODYNE Utah Little Giant No.1 Inside Spider	8	4E11507	1.23	PHILCO 87, 65, 95, 76, 96, 77, 40, 111, 90, 112 90, 3, 104, 21, 70	10 8	4E11583 4E11584	\$0.68 .61	WRIGHT-DECOSTER No. 107	12	4E11631	\$1.42
JENSEN D4, D5 D7, 18 D7 (Inside Spider) D9 (Inside Spider) D11 D15 D16	9 1/4 11 1/4 11 1/4 11 1/4 8 1/2 8 1/4 8 1/2	4E11530 4E11531 4E11532 4E11521 4E11533 4E11529 4E11534	\$1.42 1.42 1.32 1.32 1.18 1.10 1.10	RCA 104, 105 106, R80, R82, R86, R29, RE57, R34, R50, R55, R46, RA650, RA679, A2774B, R47, R41DC, R66, R41AC, R67, R62, RC4, 905A, 9-18, 7-26, 9-56, 12-15	10 1/4 8	4E11526 4E11585	\$1.10 \$1.19	ZENITH 52, 72, (Oxford) 52, 72, (LL18) (Sylvington) 52, 72, (Magnavox) 52, 72, (Farrand) 92 (Jensen D5) 103 (Peter Smith) "Zenette" A, B, C, D	12 12 12 1/2 11 1/4 11 1/4 11 1/4 8 8 1/2	4E11620 4E11621 4E11622 4E11623 4E11529 4E11624 4E11507 4E11551	\$1.42 1.42 1.42 1.42 1.10 1.42 1.22 1.22
AUDITORIUM DA5, DA6, DA7, J1, J2 343 D1 D9 D10 D12, D14 PM1 T1, T2	13 6 1/2 10 10 8 1/2 8 1/2 8 1/2 5	4E11535 4E11536 4E11537 4E11538 4E11539 4E11540 4E11541 4E11542 4E11543	2.70 .98 .98 1.34 1.10 1.18 1.18 1.10 .98	48, R7, R7A, R8, R10, R11, R12, R15, R18, R19, R20, R23, R42, R14, RE17, R29, R43ED, RAF 26, RE73, CE29, R66, R21, RE16, RE16A Photophone Photophone	10 1/4 7 1/2	4E11526 4E11586 4E11587	\$1.10 1.71 1.10				

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 to gether 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.

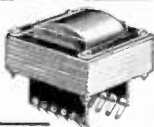
RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
AIRLINE (Mont. Ward)					
AK-10	8	3E3629	P-1478	\$9.25	\$5.44
11, 12, 16, 62-29	5	3E3680	P-1136	6.50	3.82
20-W, 62-520	3	3E3620	P-1070	4.15	2.44
26-P	3	3E3621	P-1358	5.00	2.94
32-W, 62-030, 62-232	7	3E3624	P-1291	6.25	3.67
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.

3E3623—YOUR PRICE

\$2.94



ALL-AMERICAN MOHAWK (Lyric)

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	4.23
90	9	3E3633	P-1134	8.75	5.14
Lyric D, Lyric H	4	3E3635	P-1406	5.25	3.09
J, P	5	3E3637	P-1410	5.25	3.09

ATWATER-KENT

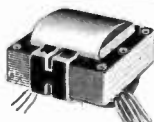
37, 37C, 38	6	3E3649	P-716	\$5.75	\$3.38
55-Early, 55C-Early	9	3E3651	P-918	9.25	5.44
55-Late, 55C-Late	9	3E3650	P-913	9.25	5.44
60-1st type, 60-2nd type	9	3E3652	P-1066	9.25	5.44
60C-1st type, 60C-2nd type	9	3E3652	P-1066	9.25	5.44
60-3rd type, 60C-3rd type	5	3E3663	P-1500	6.10	3.59
66 Early & Late—Plate	10	3E3653	P-1213	8.50	5.00
70-L1 chassis, 70-L2 chassis					
70-P chassis, 72-L1 chassis					
72-H2 chassis, 74-L1 chassis					
74-L2 chassis, 74-P chassis					
76-L1 chassis, 76-L2 chassis	5	3E3654	P-1068	6.10	3.59
76-P chassis					
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	6.00	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.

3E3654—YOUR PRICE

\$3.59



Atwater-Kent Models 37, 37C, 38

Stancor Part No. P-716. Shipping wt., 6 pounds. List Price, \$5.75.

3E3649—YOUR PRICE

\$3.38

BALKEIT 52, 55	3	3E3664	P-1149	\$4.00	\$2.35
BELMONT 41-series 40, 47-series 40 51-series 50 51A-series 50A, 51B-series 50B 51C-series 50C 71-series 70	3 4 3 6	3E3665 3E3666 3E3667 3E3669 3E3668	P-1000 P-453 P-507 P-1260 P-557	4.25 5.00 4.50 4.50 6.75	2.50 2.94 2.65 2.65 3.97
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, S-82, 14, 21, 31, 81, 82 10 11-D, 11A-D, 12-D, 12A-D, 16-D, 16A-D, 18-D, 18A-D, 33-D, 33A-D (chassis)	11 5 5	3E3674 3E3682 3E3680	P-1112 P-1499 P-1136	8.25 4.40 6.50	4.85 2.59 3.82
5-KR, 2-KR0, 3-KR0, 5-KR0, 3-KR6, 5-KR6 3-NC8, 5-NC8	8 8	3E3677 3E3678	P-791 P-715	8.50 7.75	5.00 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	8.45	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	4	3E3689	P-1166	6.25	3.67
AC-100	8	3E3610	P-1558	4.40	2.59
AC-160	8	3E3611	P-1924	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.

3E3689—YOUR PRICE

\$3.67



CROSLY

40-S, 41-S, 42-S, 45-S, 82-S, (73 Chassis) 41, 41-A, 42, 704-B, 706-Show Box Series	7 8	3E3698 3E3699	P-1015 P-1472	\$7.00 7.00	\$4.12 4.12
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EARL

31, 32, 33S, 41	7	3E3700	P-893	7.00	4.12
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EDISON

C-2, R-1, R-2 (Plate-JR Chassis) C-4, R-4, R-5 (7R & 8P Chassis)	5 12	3E3703 3E3704	P-961 P-1143	5.25 9.50	3.09 5.59
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ERLA

71, 72, 73, 271, 271-A 81, 82, 245 224, 224-B	8 9 9	3E3707 3E3708 3E3709	P-1464 P-1466 P-1465	7.75 8.50 9.25	4.56 5.00 5.44
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EVEREADY

31-Series 30, 32-Series 30, 33-Series 30, 34-Series 30 Series 30-C	9 6	3E3712 3E3713	P-1030 P-1480	9.00 7.00	5.29 4.12
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42-Series 40, 43-Series 40, 44-Series 40 52-Series 50, 53-Series 50, 54-Series 50	7 7	3E3714 3E3715	P-956 P-901	7.50 7.50	4.41 4.41
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FREED-EISMANN

NR-55 NR-78, NR-79, NR-90-S, NR-95 NR-85	7 7 9	3E3718 3E3700 3E3719	P-1471 P-893 P-1101	7.50 7.00 8.50	4.41 4.12 5.00
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FRESHMAN

Q15, Q16, 3Q15, 3Q16 QD16-S 31-S, 32-S, 41	9 7 7	3E3722 3E3723 3E3700	P-910 P-919 P-893	8.00 8.00 7.00	4.70 4.70 4.12
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41-Series 40, 47-Series 40 51-Series 50 51A-Series 50A, 51B-Series 50B 51C-Series 50C	3 5 4 4	3E3665 3E3666 3E3667 3E3669	P-1000 P-453 P-507 P-1260	4.25 5.00 4.50 4.50	2.50 2.94 2.65 2.65
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GENERAL ELECTRIC

H-31, H-51, H-71 J-70, J-75 J-80, J-85, S-132 K-62	9 6 7 8	3E3726 3E3738 3E3736 3E3730	P-713 P-1487 P-1483 P-1474	\$8.35 5.20 6.90 8.00	\$4.91 3.06 4.06 4.70
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S-22, S-22X, B-42 S-22A T-12 T-41	7 7 5 9	3E3732 3E3734 3E3740 3E3728	P-1481 P-1482 P-1493 P-927	7.50 7.00 5.20 7.35	4.41 4.12 3.00 4.32
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General Electric H31, H51, H71

Stancor Type No. P-713. Shipping wt., 9 pounds. List, \$8.35.

3E3726—YOUR PRICE

\$4.91



GENERAL MOTORS

110, 180, 180 (Little General MIA Chassis) 211 (S-20-A Chassis) 220 (S-10-A Chassis) 252, 253, 254, 255, 256, 257, 258 (S-3-A Chassis)	6 6 6 8	3E3743 3E3742 3E3744 3E3745	P-1485 P-1271 P-1506 P-1492	\$5.75 5.80 5.80 8.00	\$3.38 3.41 3.41 4.70
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**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	4.42
GB-4	5	3E3740	P-1493	5.20	3.06
GB-8	7	3E3732	P-1481	7.50	4.42
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-713	8.35	4.92
GB-989, GC-14, GT-8	7	3E3736	P-1483	6.90	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
HN-4 (PP 45s)	5	3E3751	P-1476	6.00	3.53
HN-4 (Pentode)	5	3E3752	P-1477	6.00	3.53
HN-8	5	3E3753	P-1489	6.00	3.53

GULBRANSEN					
60-Series 60, 63-Series 60	6	3E3625	P-1404	7.00	4.12
200 (9 in line series)					
201, 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
26	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.

3E3757—YOUR PRICE

\$4.70

KOLSTER-BRANDES					
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					
950	12	3E3764	P-1194	11.25	6.61
961	12	3E3765	P-1437	10.75	6.32

MAJESTIC					
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)	7	3E3777	P-790	4.00	2.35
71, 72 (Fil. 70B chassis)					
71, 72 (Fil. 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)					
103 (100-B chassis)	12	3E3779	P-939	7.00	4.12
91, 92 (90 chassis)					
101 (100 chassis)	11	3E3780	P-757	6.20	3.64

130, 131, 132 (130-A chassis)					
233 (230-A chassis)	13	3E3774	P-1102	8.00	4.70

151, 153 (Unmounted 15 chassis), 154 (Unmounted 15-B chassis), 155 (Unmounted 150 chassis) 156 (Unmounted 15 chassis) 181 (Plate, 180 chassis)	4	3E3772	P-906	3.70	2.29
	11	3E3782	P-789	5.80	3.43

181 (Filament 180 chassis)	11	3E3781	P-805	4.30	2.53
211, 214, 215 (Unmounted 210 chassis)					
251, 253, 254 (Unmounted 25 chassis) 251-B, 253-B, 254-B (Unmounted 25-B chassis)	8	3E3783	P-1507	6.10	3.59

	7	3E3775	P-1168	5.50	3.23
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Majestic Models, 71, 72, (70 Chassis)

Plate Transformer
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.

YOUR PRICE

\$3.64

NATIONAL CARBON CO. (See Eveready)

NAVIGATOR					
41 (Series 40) 47 (Series 40) 51 (Series 50)	3	3E3665	P-1000	\$4.25	\$2.50
51A (Series 50-A)	3	3E3666	P-453	5.00	2.94
51B (Series 50-B)	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					
93-A	8	3E3785	P-220	\$8.25	\$4.85
Viking 91	8	3E3668	P-557	6.75	3.97
	8	3E3786	P-1484	8.25	4.85

Ozarka Model 90

Stancor Type No. P-220. Shpg. wt., 8 pounds. List, \$8.25.

3E3785—YOUR PRICE

\$4.85



PEERLESS (See United Reproducers Corp.)

PHILCO					
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, 2-47s)	9	3E3803	P-1407	6.25	3.45
90 (Chassis 90, 2-45s)	9	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), 112, 212 (2-45s)	10	3E3800	P-788	7.15	4.20
112, 212 (2-47s)	9	3E3801	P-882	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

AP-736, AZ-774B, 10-69					
10-51 (above Ser. No. 800)	16	3E3817	P-1473	\$17.25	\$10.14
10-70 (above Ser. No. 2600)	16	3E3818	P-1430	16.25	9.55
12-15 (above Ser. No. 2600)					
AP-736B, 9-16X					
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	6.20	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, RAE-26, RE-18, RE-18A	8	3E3730	P-1474	8.00	4.70
R-14, R-15, R-42, R-48, RE-17	9	3E3728	P-927	7.35	4.32
R-17, R-18AC, R-33AC, R-51AC, RAD-50, 7-11, 7-25, 7-26	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

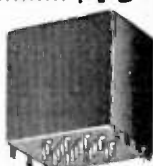
\$5.00

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, 110 111, 112, 114, 115, 116 (Chassis 104)	5 7 7	3E3851 3E3850 3E3850	P-420 P-1253 P-1253	\$ 4.80 8.50 8.50	\$2.82 5.00 5.00
SILVER MARSHALL B, J D, E, F Q DeLuxe below No. 40,000	7 7 9	3E3822 3E3825 3E3826	P-1496 P-1439 P-1467	8.00 2.00 8.00	4.70 4.70 4.70
V, 728 Short-Wave Q Short-Wave R Sheridan 750 726 Short-Wave	9 10 5 10	3E3826 3E3823 3E3824 3E3830	P-1467 P-1491 P-1272 P-1490	8.00 9.00 5.00 9.00	4.70 5.29 2.94 5.29
SONORA A-30, A-32, A-40 2RP-25, 3-R, 4-R A-31, A-33, A-35	8 8 9	3E3828 3E3828 3E3829	P-1380 P-1380 P-1462	8.90 8.90 8.00	5.23 5.23 4.70
SPARTAN AC-7, 62, 63 9-A, 410, 420, 600A 610A, 620A 25, 26, 28AW, 30, 30A 30B, 45 35, 101, 110, 111, 111A	5 7 7 10 10 12	3E3807 3E3808 3E3808 3E3809 3E3809 3E3831	P-1373 P-1196 P-1196 P-1204 P-1204 P-1412	6.25 8.00 8.00 8.00 8.00 10.25	3.67 4.70 4.70 4.70 4.70 6.03
870 89-A 99, 109 103, 301, 301A, 564 570, 574, 578, 740, 750 589 591, 593, 931	12 8 11 7 7 7 7	3E3831 3E3810 3E3832 3E3811 3E3811 3E3812 3E3813	P-1412 P-921 P-1411 P-1372 P-1372 P-909 P-864	10.25 7.45 9.00 10.25 10.25 8.00 8.00	6.03 4.38 5.29 6.03 6.03 4.70 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



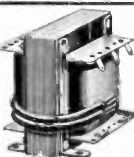
SPLITDORF M-5 (Plate)	5	3E3703	P-961	\$5.25	\$3.09
STEWART-WARNER 801, 801-A, 802, (Series A) 801, 801-A, 802, (Series B)	7	3E3837	P-1108	7.25	4.26
901, 902, 903 (Series 900) 951, 952, 953 (Series 950) R-100-A, (Series R-100)	7 7 7 7	3E3839 3E3839 3E3839 3E3839	P-1470 P-1470 P-1470 P-1470	6.50 6.50 6.50 6.50	3.82 3.82 3.82 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



STROMBERG-CARLSON 10, 11 641, 642, 652, 654 846, 848	10 10 10	3E3842 3E3843 3E3844	P-1209 P-834 P-1053	\$8.85 8.75 9.00	\$5.20 5.14 5.29
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

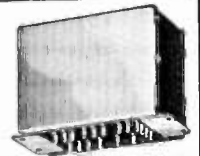
RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
ATWATER-KENT 36, 37, 38, 40, 42 43, 44, 52	0 7 0 7	3E3980 3E3980	C-1162 C-1162	\$1.45 1.45	\$0.85 .85
BELMONT 425, 525, 530 545, 625	0 6 0 6	3E3981 3E3981	C-1318 C-1318	1.20 1.20	.70 .70
CLARION AC-160, AC-260 25-160, 25-260 AC-300, 25-300 AC-360, 25-360	2 3 3 2	3E3982 3E3982 3E3983 3E3984	C-1315 C-1315 C-1270 C-1271	1.90 1.90 2.20 1.40	1.12 1.12 1.29 1.82
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, 21, 48, 70, 90, (all models), 91, 470, 490, 87 (2nd position).		3E3986 3E3998 3E3987	C-1141-P C-1440-P C-1140-P	2.75 1.75 3.50	1.62 1.03 2.06

RADIO MODEL	Shpg. Wt.	Radolek Stock No.	Stancor Type No.	List Price	Your Price
TRAV-LER A B C	5 5 5	3E3847 3E3848 3E3849	P-149 P-130 P-187	\$4.75 4.75 4.75	\$2.79 2.79 2.79
TRUE-TONE 60	6	3E3625	P-1404	7.00	4.12
UNITED AIR CLEANER CORP. (See Sentinel Radio Corp.)					
UNITED REPRODUCERS CORP. 70, 71, 72 (Series K-70)	7	3E3788	P-1434	8.00	4.70
U. S. RADIO & TELEVISION CORP. 7 8, (Series 8-A) 8, (Series 8-B) 9, 19 (900 Chassis) 9, 19 (902 Chassis) 10, 10-G (1000 Chassis)	7 6 6 7 7 7	3E3626 3E3628 3E3628 3E3631 3E3631 3E3630	P-1461 P-1479 P-1479 P-1485 P-1485 P-1016	7.75 7.00 7.00 7.50 7.50 7.25	4.56 4.12 4.12 4.41 4.41 4.26
10-C (1001 Chassis) 26 (Cloriette-20 Chassis) 26 (Cloriette-26 Chassis) 26-P (Cloriette-26-P Chas.) 32 Series, (32 Chassis) 36, 37 (Apex)	7 4 5 5 7 9	3E3630 3E3620 3E3623 3E3621 3E3624 3E3645	P-1016 P-1070 P-1405 P-1358 P-1291 P-340	7.25 4.15 5.00 5.00 6.25 9.00	4.26 2.44 2.94 2.94 3.67 5.29

Apex Models 36, 37 Power Transformer

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)					
VIKING (See Ozarka)					
WELLS-GARDNER C, CG 60, 63	8 6	3E3629 3E3625	P-1478 P-1404	\$9.25 7.00	\$5.44 4.12
WESTINGHOUSE WR-4 WR-5, WR-6, WR-6-R, WR-7 WR-7-R, WR-8, WR-8-R WR-10, WR-12 WR-10-A WR-14 WR-15	9 9 9 9 7 7 8	3E3728 3E3726 3E3726 3E3726 3E3732 3E3734 3E3740 3E3730	P-927 P-713 P-713 P-713 P-1481 P-1482 P-1493 P-1474	7.35 8.35 8.35 8.35 7.50 7.50 5.20 8.00	4.32 4.91 4.91 4.91 4.41 4.12 3.06 4.70
ZENITH 10, 11, 12 (Super Zenith) 52, 53, 54, 55, 60, 61, 62, 64, 67, 71, 72, 73, 77	9 11	3E3853 3E3854	P-851 P-712	8.00 8.00	4.70 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 transformer 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 861 non-microphonic tubes. Drain for tubes is 1/2 amp. at 6 volts and 1 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 Mfg.

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 1/4". Size 3 1/2" long, 3 1/2" wide, 1 1/2" 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



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**

Push-Pull Input for Philco



Models 30, 40, 41, 42, 73, 76, 77, 77A, 82, 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 (Ment. Ward) 62-010	P. P. Input	3E3954	A-2132	\$4.70	\$2.76
BRUNSWICK —10 14, 21, 31, 8-31 14, 21, 31, 8-14, 8-21, 8-31, 8-81, 8-82	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
	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
	P. P. Output P. P. Output Driver Trans. Output P. P. Input	3E3993 3E3994 3E3995 3E3996 3E3997	A-2836 A-2811 A-4126 A-2718 A-4016	2.50 2.50 2.85 1.60 1.70	1.47 1.47 1.68 .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
	P. P. Input	3E3963	A- 74-C/P	2.35	1.38
	P. P. Output	3E3964	A- 2318-P	2.40	1.41
	P. P. Input	3E3961	A-72- YCP	3.25	1.91
	P. P. Input	3E3960	A-104- CP	\$3.75	\$2.21
	Input	3E3959	A-72- YP	3.15	1.85
	Input-Output Assembly	3E3958	AU-100	7.00	4.12
RCA—RADIOLA—VICTOR R-34, R-35, R-39, R-80, R-82, R-86, RA1-64, RF-57	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
	P. P. Input	3E3972	A-2120	3.25	1.91
WESTINGHOUSE WR-5, WR-A, WR-6-R, WR-7, WR-7-R, WR-8, WR-8-R	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 varnished 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 $\frac{5}{8} \times \frac{3}{4}$ ". Dimensions: Height 2", Depth 1 1/8", Length overall 2 3/8". Hole Centers 2".

Tubes: 71A, 45, 48, 43, 59 3E4185—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¢
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Core Size $\frac{3}{4} \times \frac{3}{4}$ ". Dimensions: Height 2", Depth 1 1/8", Length overall 3 1/8". Hole Centers 2 1/8".

Tubes: 71A, 45, 48, 43, 59 3E4177—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¢
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Tubes: 12A, 10, 31, 41 3E4177—Stancor A-2227. List, \$1.50. YOUR PRICE 88¢	Tubes: 12A, 10, 31, 41 3E4178—Stancor A-2231. List, \$1.60. YOUR PRICE 94¢
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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¢
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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¢
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Core Size $\frac{7}{8} \times \frac{3}{4}$ ". Dimensions: Height 2 1/4", Depth 1 1/8", Length overall 3 1/8". Hole Centers 3 1/8".

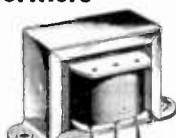
Tubes: 71A, 45, 50, 2A3, 43, 59, 48 3E4183—Stancor A-2234. List, \$2.10. YOUR PRICE \$1.23	Tubes: 71A, 45, 50, 2A3, 43, 59, 48 3E4187—Stancor A-2211. List, \$2.20. YOUR PRICE \$1.29
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Core Size 1"x1". Dimensions: Height 2 1/2", Depth 2", Length overall 4 1/8". Hole Centers 3 3/8".

For Push-Pull Tubes 71A, 45, 50, 2A3, 43, 59. 3E4184—Stancor type A-2235. List, \$2.50. YOUR PRICE \$1.47

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, 38, 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 1/8" Wide, 2 3/8" Long. Mtg. Ctrs., 2". Core $\frac{5}{8} \times \frac{3}{4}$ ".

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 1/8" Wide, 3 1/8" Long. Mtg. Ctrs., 2 1/8". Core $\frac{3}{4} \times \frac{3}{4}$ ".

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 1/8" Wide, 3 3/8" Long. Mtg. Ctrs., 2 1/8". Core $\frac{3}{4} \times 1$ ".

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 1/8" High, 1 1/8" Wide, 3 1/8" Long. Mtg. Ctrs., 3 1/8". Core $\frac{7}{8} \times \frac{3}{4}$ ".

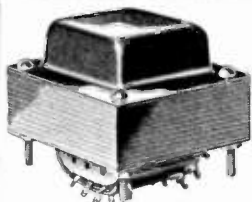
Radiolek Stock No.	Stancor Type No.	Ratio	List Price	Your Price
3E4158	A-82	Straight 2:1	\$2.40	\$1.41
3E4159	A-82-C	P.P. Input 2:1	2.50	1.47
3E4160	A-83	Straight 3:1	2.40	1.41
3E4161	A-83-C	P.P. Input 3:1	2.50	1.47
3E4162	A-84	Straight 4:1	2.40	1.41
3E4163	A-84-C	P.P. Input 4:1	2.50	1.47

Giant Size

2 1/8" High, 2" Wide, 4 1/8" Long. Mtg. Ctrs., 3 3/8". Core 1"x1".

Radiolek Stock No.	Stancor Type No.	Ratio	List Price	Your Price
3E4164	A-102	Straight 2:1	\$2.80	\$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 244 volts at 5 1/4 amperes C.T. for the heater tubes. 650 volts C.T. supplies 55 MA. for the power circuit. Mounting area 2 1/2" x 3 1/4". Four mounting bolts 1/2" in from each corner. 2" above panel, extends 1" below deck. Wt. 2 1/2 lbs. Black enameled housing.
3E4085—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 2A5, 57 and 58 on the 244 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". Mtg. 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., 244 Volts, 10 Amps. C.T. 700 Volts, 65 MA. C.T. Mounting area 3 1/2" x 2 1/2". Two hole Mtg. Centers, 2 1/2". Allow 2 1/2" clearance above deck and 1 1/4" below deck. Wt. 3 1/2 lbs.
3E4086—List, \$4.50.
YOUR PRICE \$1.39

60 Watt for 4-5 Tubes 125 Volt—50-100 Cycles

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 constantly burn out tubes. Flexible 8" tinned copper insulated leads. Secondaries:—5 volts, 2 Amps.; 244 Volts, 5 Amps. C.T.; 700 Volts, 50 MA. C.T. Mounting area 2 1/2" x 3". Mtg. Centers, 2" x 1/2".
3E4087—List, \$3.00.
YOUR PRICE \$1.29



P-A Type Power Transformer

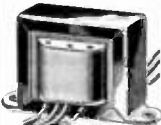


Type R-758. Weight 7 lbs handles 140 Watts. For Public Address amplifiers or large radio receivers. 115 Volt, 60 Cycle. Secondaries supply: 120 MA. thru a 700 volts center-tapped rectifier plate circuit, 5 volts at 3 amperes for a 5Z3 or 80 tube, and 244 volts, 14 Amperes. C.T. for heater tubes. Mounting area 3 1/2" x 3 1/2". Height 4 1/2".
3E4090—List, \$7.00.
YOUR PRICE \$2.45

Semi-Universal Output Transformer

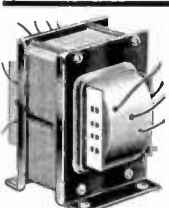
For use with single or push-pull power tubes drawing less than 35 MA. plate current and having less than 7000 ohms output load characteristic. Center-tapped primary. Off center tap on secondary permits choice of overall ratios of 25:1, 45:1, 70:1. Will exactly match Push-Pull 45 tubes to 1.5 Ohm, 3.5 Ohm, or 10 Ohm voice coil. Will match single 47, 2A5, etc. to 2 Ohm, 4 Ohm, or 12 Ohm, voice coil circuit. Mtg. C. 2 1/2". 1" core. 2" x 2 1/2".
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" silicon steel core. Regular shell type open transformer form. 2" x 2 1/2" x 1 1/2" thick. 40 MA. current carrying capacity. Mtg. Holes 2 1/4".

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-H, 401, and 71A tubes. Pri., 110 V. Sec., 3 V. 5 A. C.T., 3 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 484) 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 2-81s, 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., 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 2-81s, 2-50s, and 6-485s. 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. 1 1/2 A. C.T., 3 V. 7 A. C.T. Shpg. wt., 11 lbs. Sparton Part No. C-257.
3E4369—Type T-3902.
List, \$9.50.
YOUR PRICE \$5.59

For Sparton 101, 110, 111A, 574, 870 Voltages on Diagram 101

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 6-485s, 2-250s, and 2-281s. Pri., 110-120-130 V. Sec., 7 1/2 V. 2 1/2 A. C.T., 7 1/2 V. 2 1/2 A., 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 1/2" x 3" High.
3E4310—List, \$3.00.
YOUR PRICE \$1.76

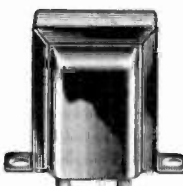


T-2903. Shielded. Carries 60 MA. in P-P circuits with type 50 or 2A3 tubes Tapped for 4, 8, 15 ohm voice coil circuits. Size 3 1/2" x 3 1/2". List, \$4.00.
3E4311—YOUR PRICE \$2.35

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, Marvello, 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 1/2" x 2 1/2" high. Mtg. hole centers 2 1/2".
3E4335—List, \$2.00.
YOUR PRICE 95¢



ORIGINAL REPLACEMENT

For SPARTON 931, 235, 589, 591, 737, 593, 600 Series

For 7-484s (or 485s), 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. 8 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 6-484s (or 485s), 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-3487.
List, \$5.00.
YOUR PRICE \$2.94

For Sparton 410, 420, 600A, 610A, 620A

For 21A, 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. 7 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-397A.
3E4375—List, \$2.00.
YOUR PRICE \$1.18

For Sparton 931, 589

Push-Pull Input. Matched to couple a 485 tube into push-pull 485s. 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 588 or P-P 50 tubes to 8" Magnavox Speakers. Open type. Sparton Part No. B-2430. Type T-3605-B.
3E4379—List, \$2.75.
YOUR PRICE \$1.62

Universal Output Transformer Thordarson Type T-5701

Designed to couple any except types 50 and 2A3 power tubes or P-P "A" or "A prime" circuit to any 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 1/2" x 2 1/2". List, \$2.00.
3E4343—YOUR PRICE \$1.18



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 1/2" x 2 1/2" high. Mtg. hole centers, 2 1/2".
3E4337—List, \$2.50.
YOUR PRICE \$1.23

FACTORY TYPE TRANSFORMERS

THORDARSON

Radolek "2A 3" Transformers

Built by Thordarson to Radolek Specifications.



Philco Transformers as originally built by Thordarson for Philco. All are EXACT Replacements for Receivers specified. 50-60 Cy. A.C.

Power Transformers for PHILCO No. 220

Philco No. 4234

For 24A, 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. 650 V. 70 Ma. C.T. Shpg. wt. 7 lbs.

3E4382 Type T-4401-A. List, \$6.00. **\$3.53**

PHILCO No. 4446 for Models 111, 112, 211

For 24A, 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. 750 V. 150 Ma. C.T. Shpg. wt. 10 lbs.

3E4383 Type T-4558-A. List Price, \$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. 14 A. C.T. 2 1/2 V. 3 A. C.T. 5 V. 2 A. 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. 4 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-3855	2.75	1.62
3E4326	47, 91	T-5204	2.25	1.32
3E4327	15, 112			
3E4328	212 (2-47's)	T-4989	3.25	1.91
3E4329	90, 90-B, 90	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 Bpkr 71, Twin Bpkr	T-5277	1.35	.79
3E4332	70, 270, 470, 490			
3E4333	65, 76, 87, 90, 90-B, 95, 296, 111, 112	T-4832	\$2.00	\$1.18
		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 2 1/2 x 1 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 1/4 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. 2 1/2 V. 3 A. C.T. 2 1/2 V. 2 A. C.T. 5 V. 2 A. 750 V. 100 Ma. C.T. 8 lbs.

3E4386—Type T-3648. 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. 2 1/2 V. 2 A. C.T. 5 V. 1 1/2 A. C.T. 5 V. 2 A. 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 24A, 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. 100 Ma. C.T. 7 pounds.

3E4388—Type T-4247. List, \$7.00. **YOUR PRICE \$4.12**

PHILCO No. 270, 470

For 24A, 27, 45, 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. 700 V. 90 Ma. C.T. 7 pounds. Part No. 5117.

3E4389—Type T-4841. 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. 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 24A, 47, and 80 tubes. Pri. 115 V. Sec. 2 1/2 V. 7 A. C.T. 5 V. 2 A. 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. 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. 12 A. C.T. 2 1/2 V. 3 A. C.T. 5 V. 2 A. 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 4-14s, 4-37s, 2-42s, 1-80. Pri. 115 V. Sec. 6 V. 14 A. 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.

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 1/2". Size 1 1/2 x 2 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, 58, 75, or 2A6 into any single amplifier tube. Open frame mounting. Black enamel finish. Insulated coded 8" leads. Size 1 1/2 x 2 1/2 x 2 1/2. Mounting hole centers 2 1/2".

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, 58, 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**

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—1-3020. 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**

Power Transformer for 2A3 Amplifier Type T-5822

Extra heavy "Kool" Operating under 100 watt load. Shielded in black japanned steel housing. Knock-out provided to permit wiring above chassis as in breadboard layout, or under chassis. For 110-126 volt 50-60 cycle. Secondary windings: 750 V., 150 Ma. C.T.; 5 V. 2A.; 2 1/2 V. 14 A. C.T. Dimensions: 4 1/2" high, x 3 3/4" x 3 1/4". Mounting hole centers, 3 3/8" x 3 3/8".

3E4340—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" sq. area 3" high. Mounting holes 2 1/2" centers. Excellent fidelity on bass notes.

3E4342—List, \$3.75. **YOUR PRICE \$2.21**

Interstage Transformer Type T-5870

Complex push-pull 56s into push-pull 2A3 tubes. Completely shielded. Insulated 3" coded leads. Size 2 1/2 x 2 1/4 x 3 1/2 high.

3E4364—List, \$3.75. **YOUR PRICE \$2.21**

Type T-6434. Same in open style unshielded.

3E4367—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.

3E4368—List, \$3.25. **YOUR PRICE \$1.91**

2A3 P-P Output Open Type T-5745

Same electrical characteristics as Type T-5746. Size 2 1/2 x 2 1/4 x 3 1/2 high.

3E4369—List, \$3.00. **YOUR PRICE \$1.76**

Filter Choke for 2A3 Circuit

Shielded Type T-1700

A heavy brute-force type filter choke capable of carrying 150 ma. Actual inductance of 8.75 Henries (for use with 8 Mfd. condensers preceding and following this choke.) D.C. Resistance 231 ohms. Size 3 1/2 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 alloy steel core. Size 2 1/2 x 2 1/4 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—1-3020. 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**

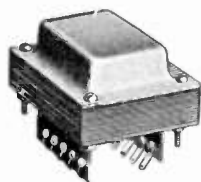
Universal Replacement Transformers

A Style and Capacity for every Receiver

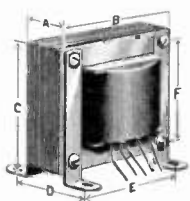
Replace Originals. These Transformers are intended for use where original replacements are not available, or are priced higher than you are willing to pay. From these types you can select the proper model for practically any Radio Set.

Important Information. The first number of Tubes specified below applies for 134 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 Cy.

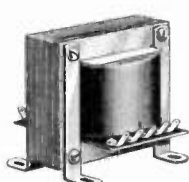
Finest Quality. These Transformers are of first quality, new stock. Correctly engineered, carefully made by skilled workmen in a fully equipped factory. We guarantee that they will equal or surpass any on the market in their price range.



TYPE A



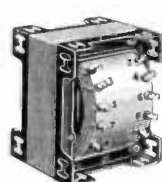
TYPE B



TYPE C



TYPE D



TYPE E

Solder lug connections on fibre strips extending from base. Mounting screw at each corner for flat mounting. Black enamelled steel shield cover.

Unshielded type with 12" wire lead connections. Brackets supplied for horizontal mounting. For vertical mounting see bracket listing page 82.

Unshielded type with solder lug connections mounted on fibre strips projecting from both sides. Otherwise identical with type B.

Shielded type. Black enamelled steel side plates totally enclose windings. Connections to solder lugs on bakelite plate at base. 12" primary leads.

Fitted with black japanned brackets having a wide flexibility for various combinations of mounting positions and mounting hole centers.

Type A
3E4009—
YOUR PRICE, **97¢**
Size: 2 3/4" x 3 1/4" x 1 1/4" above base. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 2 1/4 lbs.

Types B and C
3E4024—"B"—Leads.
3E4039—"C"—Lugs.
YOUR PRICE, **\$1.03**
Each.....
Size: 2 1/2" x 2 1/2" x 3 1/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 3 lbs.

Type D
3E4054—
YOUR PRICE, **\$1.53**
Each.....
Size: 2 3/4" x 2 3/4" x 3 3/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 3 1/4 lbs.

Type E
3E4070—
YOUR PRICE, **\$1.40**
Each.....
Size: 2 3/4" x 3 3/4" x 3 3/4" high. Min. Mtg. Centers 1 3/4" x 1 3/4". Shpg. wt., 3 1/2 lbs.

Type A
3E4008—
YOUR PRICE, **\$1.20**
Size: 2 3/4" x 3 1/4" x 1 1/4" above base. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 2 1/4 lbs.

Types B and C
3E4023—"B"—Leads.
3E4038—"C"—Lugs.
YOUR PRICE, **\$1.30**
Each.....
Size: 3 1/4" x 3 1/4" x 3 1/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 3 lbs.

Type D
3E4053—
YOUR PRICE, **\$1.80**
Each.....
Size: 3 1/4" x 3 1/4" x 4 1/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 4 1/4 lbs.

Type E
3E4071—
YOUR PRICE, **\$1.60**
Each.....
Size: 2 3/4" x 3 3/4" x 3 3/4" high. Min. Mtg. Centers 1 3/4" x 1 3/4". Shpg. wt., 3 1/2 lbs.

Type A
3E4007—
YOUR PRICE, **\$1.52**
Size: 3 1/4" x 3 3/4" x 2 1/4" above base. Mtg. Centers 2 1/2" x 3 1/4". Shpg. wt., 3 1/4 lbs.

Types B and C
3E4022—"B"—Leads.
3E4037—"C"—Lugs.
YOUR PRICE, **\$1.62**
Each.....
Size: 3 3/4" x 3 3/4" x 3 1/4" high. Mtg. Centers 3 1/4" x 3 1/4". Shpg. wt., 5 lbs.

Type D
3E4052—
YOUR PRICE, **\$2.12**
Each.....
Size: 3 3/4" x 3 3/4" x 4 1/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 4 1/4 lbs.

Type E
3E4072—
YOUR PRICE, **\$1.85**
Each.....
Size: 2 3/4" x 3 3/4" x 3 3/4" high. Min. Mtg. Centers 1 3/4" x 1 3/4". Shpg. wt., 5 lbs.

Type A
3E4006—
YOUR PRICE, **\$1.77**
Size: 3 1/4" x 3 3/4" x 2 1/4" above base. Mtg. Centers 2 1/2" x 3 1/4". Shpg. wt., 5 lbs.

Types B and C
3E4021—"B"—Leads.
3E4036—"C"—Lugs.
YOUR PRICE, **\$1.87**
Each.....
Size: 3 3/4" x 3 3/4" x 3 1/4" high. Mtg. Centers 3 1/4" x 3 1/4". Shpg. wt., 5 lbs.

Type D
3E4051—
YOUR PRICE, **\$2.30**
Each.....
Size: 3 3/4" x 3 3/4" x 4 1/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 4 1/4 lbs.

Type E
3E4073—
YOUR PRICE, **\$2.10**
Each.....
Size: 2 3/4" x 3 3/4" x 3 3/4" high. Min. Mtg. Centers 1 3/4" x 1 3/4". Shpg. wt., 5 lbs.

Type A
3E4010—
YOUR PRICE, **\$1.85**
Size: 3 1/4" x 3 3/4" x 2 1/4" above base. Mtg. Centers 2 1/2" x 3 1/4". Shpg. wt., 5 lbs.

Types B and C
3E4026—"B"—Leads.
3E4040—"C"—Lugs.
YOUR PRICE, **\$1.90**
Each.....
Size: 3 3/4" x 3 3/4" x 3 1/4" high. Mtg. Centers 3 1/4" x 3 1/4". Shpg. wt., 5 lbs.

Type D
3E4043—
YOUR PRICE, **\$2.40**
Each.....
Size: 3 3/4" x 3 3/4" x 4 1/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 4 1/4 lbs.

Type E
3E4074—
YOUR PRICE, **\$2.25**
Each.....
Size: 2 3/4" x 3 3/4" x 3 3/4" high. Min. Mtg. Centers 1 3/4" x 1 3/4". Shpg. wt., 5 lbs.

Type A
3E4005—
YOUR PRICE, **\$1.85**
Size: 3 3/4" x 4 1/4" x 2 1/4" above base. Mtg. Centers 2 1/2" x 3 1/4". Shpg. wt., 5 1/4 lbs.

Types B and C
3E4020—"B"—Leads.
3E4035—"C"—Lugs.
YOUR PRICE, **\$1.95**
Each.....
Size: 4 1/4" x 3 3/4" x 3 1/4" high. Mtg. Centers 3 1/4" x 2 1/4". Shpg. wt., 5 1/4 lbs.

Type D
3E4050—
YOUR PRICE, **\$2.55**
Each.....
Size: 3 3/4" x 3 3/4" x 4 1/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 4 1/4 lbs.

Type E
3E4075—
YOUR PRICE, **\$2.45**
Each.....
Size: 3 1/4" x 3 3/4" x 4 1/4" high. Min. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 5 1/4 lbs.

Type A
3E4011—
YOUR PRICE, **\$2.10**
Size: 3 1/4" x 3 3/4" x 2 1/4" above base. Mtg. Centers 2 1/2" x 3 1/4". Shpg. wt., 5 1/4 lbs.

Types B and C
3E4026—"B"—Leads.
3E4041—"C"—Lugs.
YOUR PRICE, **\$2.22**
Each.....
Size: 3 3/4" x 3 3/4" x 3 1/4" high. Mtg. Centers 3 1/4" x 2 1/4". Shpg. wt., 5 1/4 lbs.

Type D
3E4044—
YOUR PRICE, **\$2.65**
Each.....
Size: 3 3/4" x 3 3/4" x 4 1/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 5 1/4 lbs.

Type E
3E4076—
YOUR PRICE, **\$2.50**
Each.....
Size: 2 3/4" x 3 3/4" x 3 3/4" high. Min. Mtg. Centers 1 3/4" x 1 3/4". Shpg. wt., 5 1/4 lbs.

Type A
3E4004—
YOUR PRICE, **\$2.25**
Size: 3 3/4" x 4 1/4" x 2 1/4" above base. Mtg. Centers 2 1/2" x 3 1/4". Shpg. wt., 5 1/4 lbs.

Types B and C
3E4819—"B"—Leads.
3E4034—"C"—Lugs.
YOUR PRICE, **\$2.45**
Each.....
Size: 4 1/4" x 3 3/4" x 3 1/4" high. Mtg. Centers 3 1/4" x 2 1/4". Shpg. wt., 6 1/4 lbs.

Type D
3E4049—
YOUR PRICE, **\$2.80**
Each.....
Size: 3 3/4" x 3 3/4" x 4 1/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 4 1/4 lbs.

Type E
3E4077—
YOUR PRICE, **\$2.75**
Each.....
Size: 2 3/4" x 3 3/4" x 4 1/4" high. Min. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 5 1/4 lbs.

Type A
3E4003—
YOUR PRICE, **\$2.45**
Size: 3 3/4" x 4 1/4" x 2 1/4" above base. Mtg. Centers 3 1/4" x 3 1/4". Shpg. wt., 5 1/4 lbs.

Types B and C
3E4018—"B"—Leads.
3E4033—"C"—Lugs.
YOUR PRICE, **\$2.65**
Each.....
Size: 4 1/4" x 4 1/4" x 3 1/4" high. Mtg. Centers 3 1/4" x 2 1/4". Shpg. wt., 6 1/4 lbs.

Type D
3E4048—
YOUR PRICE, **\$3.10**
Each.....
Size: 3 3/4" x 3 3/4" x 4 1/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 4 1/4 lbs.

Type E
3E4078—
YOUR PRICE, **\$3.00**
Each.....
Size: 3 3/4" x 3 3/4" x 4 1/4" high. Min. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 6 lbs.

Type A
3E4002—
YOUR PRICE, **\$2.95**
Size: 3 3/4" x 4 1/4" x 2 1/4" above base. Mtg. Centers 3 1/4" x 3 1/4". Shpg. wt., 6 lbs.

Types B and C
3E4017—"B"—Leads.
3E4032—"C"—Lugs.
YOUR PRICE, **\$3.10**
Each.....
Size: 4 1/4" x 4 1/4" x 3 1/4" high. Mtg. Centers 3 1/4" x 2 1/4". Shpg. wt., 7 lbs.

Type D
3E4047—
YOUR PRICE, **\$3.45**
Each.....
Size: 3 3/4" x 3 3/4" x 4 1/4" high. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 4 1/4 lbs.

Type E
3E4079—
YOUR PRICE, **\$3.40**
Each.....
Size: 3 1/4" x 3 3/4" x 4 1/4" high. Min. Mtg. Centers 2 1/2" x 2 1/2". Shpg. wt., 6 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
GRAYBAR			
GB700, 770, 900	9	3E8729	\$2.20
GB400, 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
KENNEDY			
10, 20	8	3E8736	2.95
KNIGHT			
6-7, (2 sec. Choke)	9	3E8671	4.10
MAJESTIC —90, 9P6	11	3E8746	3.75
1N0, 8P6 (plate)	7	3E8747	3.25
70, 7P6 (plate)	6	3E8748	2.10
70, 7P6 (filament)	6	3E8749	2.10
1N0, 8P6 (filament)	7	3E8750	2.95
50 unmounted	4	3E8751	3.75
15A unmounted	7	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	3E8756	3.70
130, 131, 132, 133	7	3E8757	3.75
25, 25A	12	3E8758	3.35
91, 92			
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	7	3E8766	2.45
95, 96, 206, 92	9	3E8767	2.65
70, 370, 370, 470, 570	9	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	6	3E8773	2.50
50, 51	6	3E8774	2.65
15	7	3E8775	2.95
21	7	3E8776	2.95

Radiola 17, 18, 33, 50, 51

Victor 7-11, 8-25, 7-26, 17-8

Brunswick 2KRO, 3KRO, 3KR6, 5KR, 5KRO, 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**

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
RCA-VICTOR—RADIOLA			
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, RE75	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			
10N, 10NA, 10NR, 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

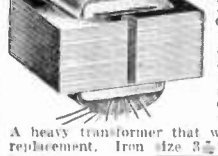
Shpg. wt., 7 lbs.
3E8792—List, \$7.00.
YOUR PRICE... **\$3.85**

Sparton 301

Shpg. wt., 10 lbs.
3E8797—List, \$12.00.
YOUR PRICE... **\$3.95**

Sparton 930

3E8795—List, \$2.50.
YOUR PRICE... **\$2.50**



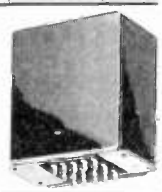
A heavy transformer that will make a satisfactory replacement. Iron size 3"x3"

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
SPARTON			
589	7	3E8791	\$3.85
591, 593, 931	7	3E8792	3.85
88A	8	3E8793	5.30
109 ensemble	11	3E8794	6.75
930	5	3E8795	2.50
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, 57R, 740, 750	7	3E8800	5.75
69, 79, 80	6	3E8801	3.45
62, 63, AC7	6	3E8802	2.30
STEINITE			
40C, 41C, 60C, 102C	11	3E8803	4.95
40, 50, 70, 80, 102	10	3E8804	5.55
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
STROMBERG-CARLSON			
641, 642, 652, 654	10	3E8811	3.45
10, 11	10	3E8812	3.75
846, 848	10	3E8813	4.25
TEMPLE			
6-60, 8-80, 8-90, 8-01, 8-81, 8-91	8	3E8814	3.50
U. S. RADIO & TEL. CORP. (See Apex & Gloritone)			
UNITED AIR CLEANERS (See Sentinel-Silvertone)			
WESTINGHOUSE			
WR4	9	3E8730	2.50
WR5, 6, 7	9	3E8729	2.20
ZENITH			
52, 53, 54, 55, 57, 60, 61, 62, 64, 67, 602, 613, 622, 642, 652, 622, 532, 542, 975	11	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**



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. **\$2.70**

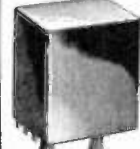


RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
ATWATER-KENT			
37, 38	6	3E8687	\$1.75
55, 55C, late model	9	3E8688	2.70
55, 55C, early model	9	3E8689	4.20
111, 112, L1, L2, L	5	3E8690	3.35
82F, 85F	8	3E8691	3.35
84 (All)	5	3E8692	3.35
84F	8	3E8693	3.65
80, 83	5	3E8694	3.35
80F, 83F	8	3E8695	4.85
87, 89, 89P	6	3E8696	3.65
89F	10	3E8697	5.10
66 (Plate)	10	3E8698	4.25
82, 85	5	3E8699	3.35
60, 60C	9	3E8700	4.75
BOSCH			
20, 826	10	3E8702	3.95
4R	6	3E8703	3.35
5N	6	3E8704	3.35
60	6	3E8705	3.75
BREMER-TULLY			
81, 82, 8-81, 8-82	8	3E8707	3.55

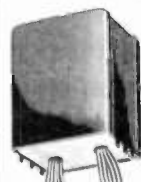
Brunswick

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, 14, 18A, 33, 33A	5	3E8711	3.60
2KRO, 3KRO, 3KR6, 5KR, 5KRO, 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

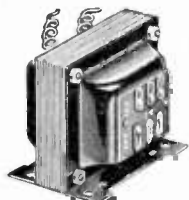


RCA Victor RE 32, R 52, RE 45, RE 75

Shpg. wt., 10 lbs.
3E8784—List, \$6.75.
YOUR PRICE... **\$2.65**

RADIO MODEL	Shpg. Wt.	Stock Number	Your Price
RCA-VICTOR—RADIOLA			
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, RE75	10	3E8784	2.65
R35, R39, RE57	9	3E8730	2.25
R34, R37	9	3E8730	2.25

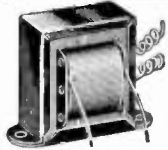
Filament Transformers



objectable hum. All taps marked.

2½ Volt Center Tapped, 30 Watts
3E4225—Secondaries 2½ V. 4 amp., 2½ V. 9 amp. Height 3½", width 2½". 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 3½". 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. 5½ amp. Mounting holes—center to center—2½". Height 2½". Width 1½". Weight, 1 lb. Silent in operation. 15 watts.

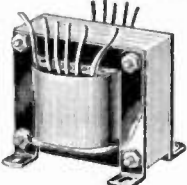
2½ Volt—12 Amp. Filament Transformer
 Same as above except that it delivers 12 amps. Center tapped. 30 watts.

3E4228—List, \$2.75.
YOUR PRICE \$1.10

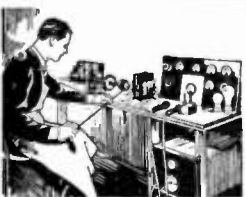
6.3 Volt Filament Transformer
 Size and appearance, identical to above transformer. Delivers 6.3 volts at 3 amps. For use with the new 6.3 volt tubes on 115 Volt A. C. Can also be used on 7.5 volt tubes. 20 watts.
3E4229—List, \$2.25.
YOUR PRICE 97¢

7.5 Volt Filament Transformer
 2½ Amp. Rec. 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.



3E3929—
YOUR PRICE \$1.25
 hole centers 2½"x1½". Pri. 115 V. 50/60 cycles.



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.

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

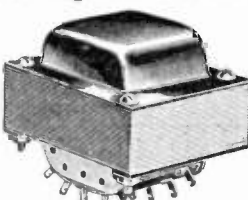
For Sets with Cardon or Kellogg Tubes
3E3606 8 to 9 2-52B 4.40
3E3607 9 to 11 2-50 8.25

Add \$1.00 extra for Units sealed in wax.

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 47 or 2A5 power tube with an 80 rectifier. Furnishes 650 V. 40 Ma. C.T., 2½ V. 3½ A. C.T., 5 V. 7 A. For 115 V. 60 to 100 cycles A.C. Mounting area 2½"x3½" inches, above chassis. Mtg. hole center's 2x2½".



For 4-5 Tube, 50 Watt Sets

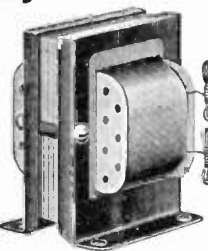
3E3939—
YOUR PRICE EACH .89¢
 For early model 4 Tube or late model 5 Tube Midget Sets. Will supply a 47, 80, and 2-24As or 3-57 type tubes. Pri. 115 V. 50-60 cycle A.C. Sec., 650 V. 50 Ma. C.T., 2½ V. 7 A. C.T., 5 V. 2 A. Lur terminals. Size 3x2½" projects above chassis 1½"; below chassis ¾".

Bargain! 30 Henry Choke

3D3926

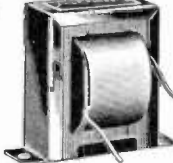
YOUR PRICE 45¢

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



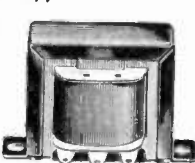
T-3174
3E4339—List, \$1.50.
YOUR PRICE EACH 65¢
 60 Ma. Resistance 600 ohms. 1½"x2½" high. Mtg. hole cen. 2½". ¾" Silicon steel core. Used as second choke in sets using 25 type tubes and P-P 71A tubes. Black, steel mounting strap.

Universal Output Choke

Center Tapped

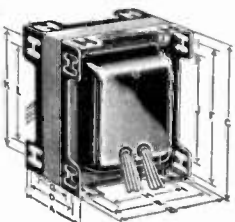
3E4338—List Price \$2.00.
YOUR PRICE .80¢

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 tubes. 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. 300 ohms each side of center-tap. 2½"x2½"x2" high.



"Multi-Tap" Universal Power Transformers

Tapped filament windings a upply wide selection of voltages. Suitable for 1377 models of Receivers. Universal mounting with 16 "H" slot mounting holes. Removing side shield exposes lugs for various circuit combinations. Excellent for experimental use. For 115 V. 50/60 cycle A.C. supply.



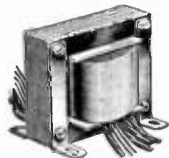
Dimensions in Inches "Multi-Tap" Universal Units.										
Stock No.	A	B	C	D	E	F	G	H	J	
3E4056	2¾	3¾	3¾	2¾	2¾	3¾	1¾	2	2¾	2¾
3E4057	3¾	3¾	4¾	3¾	3¾	4	1¾	2¾	3¾	3¾
3E4058	3¾	3¾	4¾	3¾	3¾	4	2	2¾	3¾	3¾

Voltage and Current Data			
Position	60 watts 4-6 Tubes	75 watts 7-8 Tubes	100 watts 9-10 Tubes
H	650 Volts 60 Ma. CT	700 Volts 60 Ma. CT	700 Volts 100 Ma. CT
A	1½V or 2½V 3.1A or 5A	1½V or 2½V 4.2A or 7A	1½V or 2½V 6A or 10½A
B	2½V 3½A	2½V 3½A	2½V 3½A
C	2½V or 5V 3A or 1½A C.T. C.T.	2½V or 5V 3A or 1½A C.T. C.T.	2½V or 5V 3A or 1½A 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 2½"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., 3 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 3½"x3½"; Type B, 3½"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 142 for the best buy ever offered on Philco general replacement transformers.

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 line voltage and frequency it is to be used with.

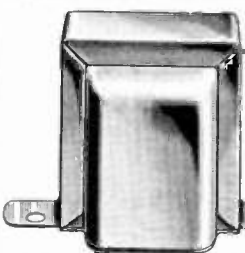
Carter Universal Output Transformers

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 14,000 ohms and passing less than 40 milliamperes plate current. (Push-Pull tubes, both drawing less than 40 mA are satisfactory but parallel power tubes with a total current over 40 mA 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

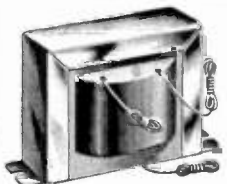
49¢

A very special value. Standard 2 to 1 ratio audio. Designed for first stage audio position in Kentucky Model 210, Monroe 6-7, Marvel 6-7, Knight 6-7 and all sets, either A.C. or D.C. using 201A, 226, 112A or 171A or 245 amplifiers. Husky strong windings and laminations insure fine tone quality. Mounts above panel. Size 3 1/2"x2 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 mil. plate current, 3000 turn, center tapped primary, 100 turn secondary. Silicon steel core. To determine voice coil impedance for this transformer, for push-pull, divide twice 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 3/8".

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 to 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 58 tubes for type 27 tubes preceding 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"x1 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 furnished with transformer. Size 1 1/2"x2"x2 1/2" high. Mtg. C. 2 3/4" wt., 1 1/2 lbs.

3E3925—List, \$2.10.

YOUR PRICE **\$1.23**

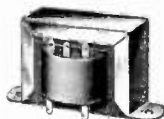


Stancor Universal Input

A companion transformer to the above output. Center-tapped secondary for input to grids of any Class A power tubes. Size 1 1/2"x2"x2 1/2" high. Mtg. C. 2 3/4".

3E3924—List, \$2.20.

YOUR PRICE **\$1.29**



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 cost. Audio range of Pioneer transformers from 75 to 90 cycles according to size to a high range of 3800 cycles, within 4 db.

Midget Size: 1 1/4"x1 1/4"x1 1/8" high.				Medium Size: 1 1/2"x1 1/4"x1 1/8" high.				Standard Size: 1 3/4"x2 1/4"x2 1/8" 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 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 to Plate Load Imped.	Transformer Type Number to use on various Voice Coil Impedances and Output Tubes.
		Voice Coil Imped. → 2 3-4 5-7 9-16

Voice Coil Imped. →	2	3-4	5-7	9-16
2A5	14000	P80	P60	P45
6A4	18000	P80	P60	P45
10	20000	P80	P60	P45
20	13000	P80	P60	P45
31	14000	P80	P60	P45
33	14000	P80	P60	P45
38	22000	P80	P60	P45
41	18000	P80	P60	P45
42	14000	P80	P60	P45
43	8000	P60	P45	P35
45	8000	P60	P45	P35
46	12800	P80	P60	P45
47	14000	P80	P60	P45
48	4000	P45	P35	P27 1/2
49Trl.	20000	P80	P60	P45
2B6	10000	P60	P45	P35
59Pen.	12000	P80	P60	P45
71A	9600	P60	P45	P35
89Trl.	14000	P80	P60	P45
89Pen.	16000	P80	P60	P45

PRICE LIST

Stock Num.	Size	Ratio	Type	Your Price Each
3E4130	Medium	27:4:1	P27 1/2	49¢
3E4131	"	35:1	P35	
3E4132	"	45:1	P45	
3E4133	"	60:1	P60	
3E4134	"	80:1	P80	69¢
3E4135	Large	25:4:1	P27 1/2	
3E4136	"	35:1	P35	
3E4137	"	45:1	P45	
3E4138	"	60:1	P60	69¢
3E4139	"	80:1	P80	

Dimensions: Medium, 1 1/2"x2"x1 1/8" high. M.C. 2 1/2". Large Size: 1 1/2"x2 1/4"x2" high. M.C. 2 1/2".

Single Output Tube Transformers

Power Tube Type	Plate Load Imped.	Transformer Type Number to use on various Voice Coil Impedances and Output Tubes.
		Voice Coil Imped. → 2 3-4 5-7 9-16

Voice Coil Imped. →	2	3-4	5-7	9-16
2A5	7000	R60	R45	R35
6A4	8000	R60	R45	R35
10	11000	R80	R60	R45
20	6500	R60	R45	R35
31	7000	R60	R45	R35
33	7000	R60	R45	R35
38	11600	R80	R60	R45
41	12000	R80	R60	R45
42	7000	R60	R45	R35
43	4500	R45	R35	R27 1/2
45	3900	R45	R35	R27 1/2
46	6400	R60	R45	R35
47	7000	R60	R45	R35
48	2000	R35	R27 1/2	R20
49Trl.	11000	R80	R60	R45
2B6	5000	R45	R35	R27 1/2
59Pen.	6000	R60	R45	R35
71A	4800	R45	R35	R27 1/2
89Trl.	7000	R60	R45	R35
89Pen.	8000	R60	R45	R35

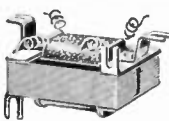
PRICE LIST

Stock Num.	Size	Ratio	Type	Your Price Each
3E4115	Medium	20:1	R20	44¢
3E4116	"	27:4:1	R27 1/2	
3E4117	"	35:1	R35	
3E4118	"	45:1	R45	
3E4119	"	60:1	R60	44¢
3E4120	"	80:1	R80	
3E4121	Large	20:1	R20	65¢
3E4122	"	27:4:1	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 $2\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ high. Flexible leads.

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 tuned leads combined for convenient connections. The audio response curve is ± 4 db. from 80 to 3500 cycles at 1 to 6 ratio. Size $12 \times 2\frac{1}{2} \times 1\frac{1}{2}$ 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. 144 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 $2\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ high.

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) $\frac{3}{4}$ inch core cross section. $2\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ 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 mechanically center tapped secondary delivers uniform potential to the grids of any type power tubes. $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ high. Wt. $1\frac{1}{4}$ 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 144 turns tapped at 25, 35, 47, 78, turns. To match any (except 2A3 and 50) 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, etc. Size $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ high. Stock this transformer as a regular item—its wide application guarantees non-obsolence. Wt. $1\frac{1}{4}$ lbs.

3E4279—Code 467-176.

YOUR PRICE **\$1.17**

Universal Choke "30" Henry

An all-purpose filter choke incorporating universal mounting features. Recommended 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 mls. Size $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ high. Shpg. wt. $1\frac{1}{4}$ 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 tube 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, 01A, or 27 tube to push-pull 112A 71A, or 45 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 33, 42, 47, tube may be coupled to the same voice coil. Ratio of transformer, $2\frac{1}{2}$ 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 62:1 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 ± 25 ohms. Approximately 30 henries at 150 mls. Weighs $3\frac{1}{4}$ lbs. Size $2\frac{1}{2} \times 3\frac{1}{2} \times 4\frac{1}{2}$ 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 speakers. Primary consists of 3300 turns of 36 enamel covered wire, insulated layers, C.T. at 1600 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 impedance 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 $2 \times 2\frac{1}{2}$ high.

3E4280—467-171. List Price, \$5.00.

YOUR PRICE **\$2.35**



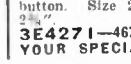
Microphone Transformer

Two Button—Shielded

A splendid steel cased single or double button "Mike" transformer with extra layer insulation to prevent capacity losses within the winding which would reduce the response range. Matches standard 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 $2\frac{1}{2}$ high.

3E4271—467-263. List, \$5.00.

YOUR SPECIAL PRICE **\$1.47**



Filament Transformers

$2\frac{1}{2}$ V, $3\frac{1}{2}$ A,
10 Watts

Open type, 115 Volt 50-60 cycles. A small, well insulated filament supply transformer for short-wave adapters, etc. Size $1\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$ high. Wt. 1 lb.

3E4272—464-211.

List, \$1.40.

YOUR PRICE **82¢**



$2\frac{1}{2}$ V, $12\frac{1}{2}$ 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**

6.3V, 4A, 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 winding 715 V. C.T. Will operate steadily at 200 Ma. load. 115 V. 50/60 cycle primary. Side lug connections. Size $3\frac{1}{2} \times 3\frac{1}{2} \times 4\frac{1}{2}$ 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., $2\frac{1}{2}$ V. $3\frac{1}{2}$ A. and $2\frac{1}{2}$ V. 11 A. secondary winding at 115 V. 50/60 cycle primary. Lugs on side of case. Size $3\frac{1}{2} \times 3\frac{1}{2} \times 4\frac{1}{2}$ 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. Diagram furnished. Shpg. wt. $2\frac{1}{4}$ lbs.

Class "B" Output Transformer

Has tapped primary and tapped secondary for coupling Class "B" 45, 50, or 25 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. 190 ohms, 18 henries, 150 Ma. capacity. Size $2\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{2}$ high. Shpg. wt. $2\frac{1}{4}$ 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 Ma. Construction and dimensions are identical with above choke. Diagram included. Shipping wt. $2\frac{1}{4}$ 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. Fine steel 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 centers $2\frac{1}{2}$ high. 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.

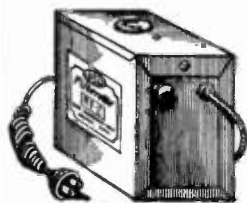
YOUR PRICE **\$1.18**



Tapped Push-Pull Input Type

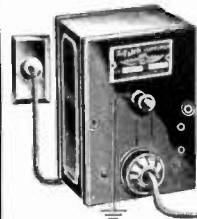
3E4277—Code 567-118. 3 to 1 Ratio with lugs on bottom. List, \$2.50.

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 1/4" high. For use on A.C. or D.C. lines under 130 volts and with radio receivers drawing less than 150 watts.

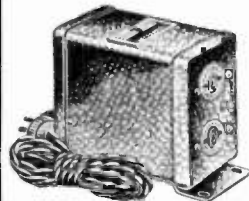


Falck Claroceptor

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." Blank out these noises by plugging in a Claroceptor between the wall socket and set.

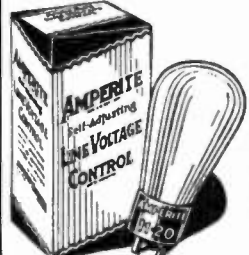


Thordarson A.C. Line Booster Auto Transformer

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 outskirts 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.



Amperite Self Adjusting Voltage Controls

"Amperite" is a thermal regulating 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.

Standard Amperites

For 110 volt Sets operated on 115-130 volt lines.

Stock Num.	No. Tubes	Amperite Number
3E4412	4*	4A5
3E4414	4-5	5A5
3E2402	6-7	7A5
3E2404	8-9-10	9A5
3E2406	11-12	11A5
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

Special "Amperite" Controls

3E2409—9-20*	For Bremer-Tully 8-81, 8-82
3E2409—9-20*	For Brunswick 14, 21, 31
3E2410—11-20	For Grebe H84, 1285, 450
3E2410—11-20	For Hammerlund-Roberts H1-Q 30
3E2410—11-20	For Kyelectron K-71, K-72, Peerless 21 to 25
3E2410—11-20	For Sonora 30, 32, 40
3E2411—90	For Majestic 90, 91, 92
3E2419—18-20	For Star-Balder (Sets use 2)

3E2301—876 For RCA 376 Ballast. **YOUR PRICE EA. \$2.25**

*9-20 Amperite replaces old Duresite 110 tubes.

3E2414—Special Bakelite mounting base for "Amperites."
List Price Ea. 25c. **YOUR PRICE** 15c



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 prongs 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 amps. 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.

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.	YOUR PRICE
3E3102	O	Up to 60		
3E3100	A	60 to 100		
3E3101	B	100 to 150		

(Ten for \$7.95) **95c**

I. C. A. "Junior" Filtrivolt 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 1/2 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 **32c**

Ten for \$3.00

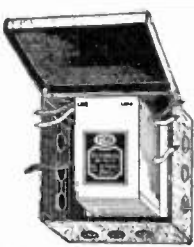
Maintains a constant potential on lines on which voltage climbs. Protects tubes, condensers and resistors against line surges by automatically reducing line voltage to a normal operating voltage. Air-cooled type, with plug for standard outlet. Usually sells for \$1.00. Servicemen can make 68c extra on each call where the set owner has had tubes burned out due to high line voltage.



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 6 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.



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 end. When properly adjusted it protects tubes, condensers, and reduces noises and hum. 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 **57c**

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 155 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	2169	Bremer Tully
3E3104	2189	Brunswick, III Q-30, Scott Silver and Sonora Clarion
3E3117	2408	
3E3105	1516	*MAJESTIC 70, 71
3E3106	1508	*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 Plano and Belmont
3E3111	2516	Simplex, Baldwin
3E3112	5001	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 volts 60 cycles. In ordering please mention power unit type, frequency and ballast markings.

THE DEVICES listed on this page are for reducing line noises and regulating line voltages. Shielded antenna systems and noise reducing aerial systems are listed on pages 98 and 99.

Vitreous Enameled Resistors



Wire wound on a 3/4" porcelain tube 1 1/2" long with a 1/4" 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 1/2" tinned wire leads may be used for mounting unit in circuit.

Non-Porous Waterproof Coating

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	500	3D1957	3,000	3D1965	15,000
3D1931	10	3D1941	125	3D1950	600	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	3C1866	15,000
3C1826	10	3C1840	800	3C1854	3250	3C1867	25,000
3C1828	50	3C1841	1000	3C1855	3500	3D210	30,000
3C1829	75	3C1842	1100	3C1856	3750	3D211	35,000
3C1830	100	3C1844	1250	3C1857	4000	3D212	40,000
3C1831	150	3C1845	1500	3C1858	4500	3D213	45,000
3C1832	200	3C1846	1750	3C1859	5000	3D214	50,000
3C1833	250	3C1847	1850	3C1860	6000	3D215	60,000
3C1834	300	3C1848	2000	3C1861	7000	3D216	70,000
3C1835	350	3C1849	2250	3C1862	7500	3D217	75,000
3C1836	400	3C1850	2400	3C1863	8000	3D218	80,000
3C1837	500	3C1851	2500	3C1864	10,000	3D219	90,000
3C1838	650	3C1852	2750	3C1865	12,500	3D220	100,000

YOUR PRICE **19c** YOUR PRICE **23c** YOUR PRICE **27c** YOUR PRICE **35c**

50 Watt Size—4 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 Enameled

Will replace any tapped voltage divider. Wound on Isolantite 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. Monel 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 Size 2 1/2" x 3/4" Minimum Mtg. C.-3"			50 Watt Size 4 1/2" x 3/4" Minimum Mtg. C.-5"			75 Watt Size 6 1/2" x 3/4" Minimum Mtg. C.-7"		
Stock Number	Resist. Ohms	Max. Curr't M.A.	Stock Number	Resist. Ohms	Max. Curr't M.A.	Stock Number	Resist. Ohms	Max. Curr't M.A.

3E1676	5	2450	3E1703	10	2340	3E1732	100	865
3E1678	15	1415	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	165	3E1739	2500	173
3E1686	300	290	3E1717	3000	135	3E1741	5000	122
3E1687	750	200	3E1719	4000	117	3E1742	10000	86
3E1688	800	193	3E1720	5000	104	3E1743	15000	70
3E1689	1000	173				3E1744	20000	61
3E1690	1500	141				3E1745	25000	55

List Price, 75c. YOUR PRICE **44c**

List Price, 1.25. YOUR PRICE **74c**

List Price, 95c. YOUR PRICE **56c**

List Price, 1.35. YOUR PRICE **79c**

For use where additional taps are required.

3E1755—

List. 10c. YOUR PRICE, EA. **6c**

New Radolek Resistance Indicator

Calibrated Variable Resistance Box

3E2547—List Price, \$6.50.

YOUR

PRICE

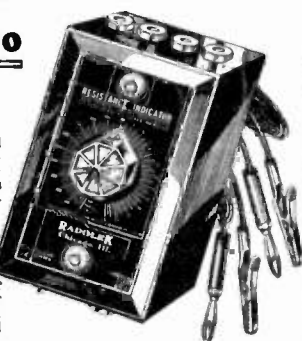
\$2.70

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 ohms 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 or 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 in to the finest calibrated resistance indicator available at a moderate price. Will meet your service needs—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. 3300 deg. arc of rotation, over 1/2 inch of built wound contact surface. Size: 5" x 2 1/2" x 2 1/4".



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, 10 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. Highest quality 24" 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 1,000,000 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. Experimental work on Loftin-White circuits is greatly facilitated with this resistance box. The Megohm Indicator is built in a moulded bakelite box to 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 24" test lead equipped with alligator-spring clips and spring tip prongs. Fit tip-jacks perfectly.



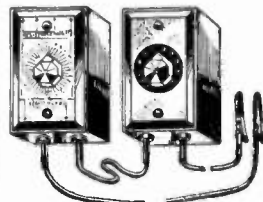
Calibrated Resistance Indicator Set

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 1,000,000 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 a modern service shop now available at a price in reach of every serviceman. Cases are 2 1/2" x 4 1/2" 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

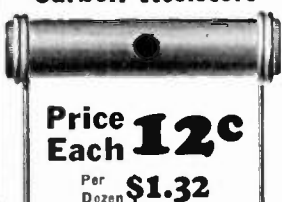
Your Price
(1/5 watt size)

One of each size Radolek Certified Carbon Resistors list at right.

Stock Number	Ast. 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; 1/2 inch diameter. 1 1/2 inch tinned copper wire leads.

Stock Number	Resist. Ohms	Resist. 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 Spaghettini

For Insulating Resistors, etc.



Giant Spaghettini — Cambric 3/4" tubing. To insulate 1 watt Carbon, Metallized and similar small resistors. 1,000 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 filled with hot tar for airtight seal of soldered joints. Tubular shape, 3/4" diameter, 3 ft. length.

3E2054—YOUR PRICE **18c**

Ten lengths for \$1.60

Grid Leak Mountings



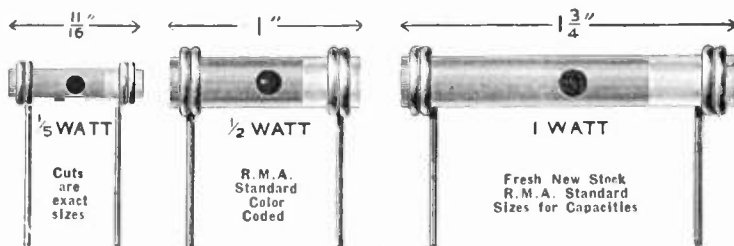
Bakelite Base
Phosphor Bronze
Springs
For 1 Watt
Resistors of
Durham Type

3E1970—Single. **19c**

3E1971—Double. **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 repairing. 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 Dozen **88c**
Per Hundred **\$6.95**

1/2 WATT
Net, Each **8c**
Per Dozen **88c**
Per Hundred **\$6.95**

1 WATT
Net, Each **9c**
Per Dozen **98c**
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	1/5 Watt Stock Number	1 Watt Stock Number	Resistance Ohms	1/5 Watt Stock Number	1/5 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				
3C1007	3C1082	3C1157	450	3C1028	3C1103	3C1178	9,000	3C1047	3C1122	3C1197	500,000
3C1008	3C1083	3C1158	500	3C1029	3C1104	3C1179	10,000	3E1061	3C1136	3C1211	.5
3C1009	3C1084	3C1159	600	3C1030	3C1105	3C1180	12,500	3E1062	3C1137	3C1212	.8
3C1010	3C1085	3C1160	700	3C1031	3C1106	3C1181	15,000	3E1063	3C1138	3C1213	.9
3C1011	3C1086	3C1161	800	3C1032	3C1107	3C1182	17,500	3C1048	3C1123	3C1198	1.0
3C1012	3C1087	3C1162	900	3C1033	3C1108	3C1183	20,000	3C1049	3C1124	3C1199	1.5
3C1013	3C1088	3C1163	1,000	3C1034	3C1109	3C1184	22,500	3C1050	3C1125	3C1200	2.0
3C1014	3C1089	3C1164	1,250	3C1035	3C1110	3C1185	25,000	3C1051	3C1126	3C1201	2.5
3C1015	3C1090	3C1165	1,500	3C1036	3C1111	3C1186	30,000	3C1052	3C1127	3C1202	3.0
3C1016	3C1091	3C1166	1,750	3C1037	3C1112	3C1187	40,000	3C1053	3C1128	3C1203	3.5
3C1017	3C1092	3C1167	2,000	3C1038	3C1113	3C1188	50,000	3C1054	3C1129	3C1204	4.0
3C1018	3C1093	3C1168	2,250	3C1039	3C1114	3C1189	60,000	3C1055	3C1130	3C1205	5.0
3C1019	3C1094	3C1169	2,500	3C1040	3C1115	3C1190	75,000	3C1056	3C1131	3C1206	6.0
3C1020	3C1095	3C1170	3,000					3C1060	3C1135	3C1210	10.0

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

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; 600; 1,000; 2,000; 3,000; 4,000; 5,000; 6,000; 10,000; 12,500; 15,000; 20,000; 25,000; 40,000; 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 for **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 rods. Ohmage tolerance guaranteed within 10% plus or minus.

We recommend that every conscientious Radar 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, recoiled, 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. **\$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: 50, 100, 200, 5,000, 10,000, 15,000, 20,000, 25,000, 50,000, 60,000, 70,000, 75,000, 100,000, 200,000 ohms; $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, 2 and 3 megohms.

Handy Kit No. 2

20-2 Watt Resistors

3E1476—List, \$7.00. **\$4.20**

20 replacement 2 watt resistors. Ohms: 500, 2,000, 5,000, 10,000, 15,000, 20,000, 25,000, 30,000, 50,000, 60,000, 70,000, 75,000, 100,000, 200,000, 250,000, 500,000. Megohms 1.0, 1.5, 2.0, 3.0, 4.0, 5.0.

Handy Kit No. 3

20 Midget $\frac{1}{2}$ Watt Resistors

One each: Ohms—50, 100, 250, 500, 1,000, 1,500, 2,000, 5,000, 10,000, 15,000, 20,000, 25,000, 30,000, 50,000, 60,000, 70,000, 75,000, 100,000, 200,000, 250,000, 500,000. Megohms 1.0, 1.5, 2.0, 3.0, 4.0, 5.0. **\$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, 15,000, 20,000, 25,000, 30,000, 50,000, 60,000, 70,000, 75,000, 100,000, 200,000, 250,000, 500,000. Megohms 1.0, 1.5, 2.0, 3.0, 4.0, 5.0. **\$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, 5,000, 10,000, 15,000, 20,000, 25,000, 30,000.

3E1481—List, \$7.80. **\$4.68**

Handy Grid Bias Kit

3E1477—List, \$3.20. **\$1.92**

Contains 10 assorted Resistors of 1 watt, 2 watt and Power Wire Wound (5-watt) types, required to bias the following type tubes: "21", "26", "27", "71A", "10", "45", "50", "47". Contains resistance

Genuine IRC—The original Metallized Resistors—dependable, most efficient made for modern Radio Sets. Accurate within 10%.

IRC $\frac{1}{3}$ Watt

Pigtail Type Length $\frac{1}{2}$ 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	500	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	3E1457	0.1
3E1293	1,500	3E1458	0.15
3E1294	2,000	3E1459	0.2
3E1295	2,250	3E1460	0.25
3E1296	2,500	3E1461	0.3
3E1297	3,000	3E1462	0.4
3E1298	3,500	3E1463	0.5
3E1299	4,000	3E1464	0.75
3E1300	5,000	3E1465	1.0
3E1301	6,000	3E1466	1.5
3E1302	7,500	3E1467	2.0
3E1303	8,000	3E1468	3.0
3E1304	10,000		

IRC 1 Watt

Pigtail Type—Length $\frac{1}{2}$ " 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
3E1379	300	3E1406	50,000
3E1380	350	3E1407	51,000
3E1381	400	3E1408	60,000
3E1382	500	3E1409	65,000
3E1383	600	3E1410	70,000
3E1384	750	3E1411	75,000
3E1385	850	3E1412	90,000
3E1386	1,000	3E1413	100,000
3E1387	1,250	3E1414	150,000
3E1388	1,500	3E1415	190,000
3E1389	2,000	3E1416	200,000
3E1390	2,250	3E1417	240,000
3E1391	2,500	3E1418	250,000
3E1392	3,000	3E1419	300,000
3E1393	3,500	3E1420	400,000
3E1394	4,000	3E1421	490,000
3E1395	5,000	3E1422	500,000
3E1396	6,000	3E1423	550,000
3E1397	7,000	3E1424	750,000
3E1398	8,000	3E1425	1.0
3E1399	10,000	3E1426	1.5
3E1400		3E1427	2.0
3E1401		3E1428	3.0

IRC $\frac{1}{2}$ Watt

Length $\frac{1}{2}$ "

Stock Number	Ohms	Stock Number	Ohms
3E1355	50	3E1323	20,000
3E1356	100	3E1324	25,000
3E1357	200	3E1325	30,000
3E1358	250	3E1326	32,000
3E1359	300	3E1327	40,000
3E1360	350	3E1328	45,000
3E1361	400	3E1329	50,000
3E1362	450	3E1330	51,000
3E1363	500	3E1331	60,000
3E1364	600	3E1332	65,000
3E1365	750	3E1333	70,000
3E1366	850	3E1334	75,000
3E1367	1,000	3E1335	99,000
3E1368	1,250	3E1336	100,000
3E1369	1,500	3E1337	150,000
3E1370	2,000	3E1338	160,000
3E1371	2,250	3E1339	200,000
3E1372	2,500	3E1340	240,000
3E1373	2,700	3E1341	250,000
3E1374	3,000	3E1342	300,000
3E1375	3,500	3E1343	330,000
3E1376	4,000	3E1344	400,000
3E1377	4,500	3E1345	450,000
3E1378	5,000	3E1346	500,000
3E1379	6,000	3E1347	750,000
3E1380	7,000	3E1348	Megohms
3E1381	8,000	3E1349	1.0
3E1382	10,000	3E1350	1.5
3E1383	11,000	3E1351	2.0
3E1384	12,500	3E1352	3.0
3E1385	15,000	3E1353	4.0
3E1386	17,500	3E1354	5.0

IRC 2 Watt

Pigtail Type—Length $\frac{1}{2}$ "

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	3,000	3E1538	300,000
3E1519	3,500	3E1539	400,000
3E1520	4,000	3E1540	500,000
3E1521	4,500	3E1541	750,000
3E1522	5,000	3E1542	Megohms
3E1523	6,000	3E1543	1.0
3E1524	7,000	3E1544	1.5
3E1525	8,000	3E1545	2.0
3E1526	10,000	3E1546	3.0
3E1527	11,000	3E1547	5.0

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



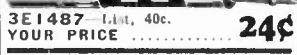
For insertion in spark plug cable. Generally used where Spark Plug Type cannot be connected. 3E1486—List, 40c. **YOUR PRICE 24c**

Standard Distributor Type



3E1487—List, 40c. **YOUR PRICE 24c**

New IRC Fused Dual Resistance Indicator



3E1483—List, \$4.50. **YOUR PRICE \$2.70**

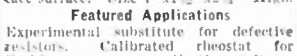
Two ranges obtained by tilting ball bearing slider to the scale desired. Low range, 100 to 10,000 ohms; high range, 10,000 to 100,000 ohms. Little-fuse protects the resistance element against overheating. New improved narrow-jaw alligator clips on test leads. Choice of potentiometer or straight resistance contact. 11 inches of resistance contact surface. Size 7"x1 1/2"x2 1/4" 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



Valuable for accurate servicing through the point-to-point method. Exclusive Vacuum Relay.

Easy to read knife edge pointer. Extra large 3" etched scale. Bakelite case. Special moulded knob. One set of pin jacks for all readings. 1% Precision Wire Wound Resistors used exclusively. Very compact—fits easily into service kit.

Voltage Ranges: 0/30/300/600; Resistance Ranges: 0/1,000/100,000/ohms and 0/1 megohm. 1E1474—List, \$42.50. **YOUR PRICE \$24.99**

Weights only 2 1/2 lbs.

REDUCED PRICES

On IRC Metallized Resistors

ALL SIZES { $\frac{1}{8}$ WATT } New List 20c
{ $\frac{1}{4}$ WATT } YOUR PRICE **12c**
{ 1 WATT }

2 WATT: List Price, 30c, YOUR PRICE, 18c

NEW KIT { 3E1475—List \$4.00 } **\$2.40**
{ 3E1478—List \$4.00 }
PRICES YOUR PRICE EACH

3E1476—List \$6.00, YOUR PRICE, \$3.60

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 load, 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, plus Certified Seal. Body sizes: $\frac{1}{2}$ watt, $\frac{3}{4}$ " diameter, $\frac{3}{4}$ " long—1 watt, $\frac{3}{4}$ " diameter, $1\frac{1}{4}$ " long, $1\frac{1}{2}$ " tinned wire leads.

Specify Size and Resistance By Stock Number

1/2 Watt Stock Number	1 Watt Stock Number	Resist. Ohms.	1/2 Watt Stock Number	1 Watt Stock Number	Resist. Ohms.	1/2 Watt Stock Number	1 Watt Stock Number	Resist. Ohms.
3E7800	3E7840	150	3E7813	3E7853	5,000	3E7826	3E7866	75,000
3E7801	3E7841	250	3E7814	3E7854	6,000	3E7827	3E7867	100,000
3E7802	3E7842	400	3E7815	3E7855	7,000	3E7828	3E7868	150,000
3E7803	3E7843	500	3E7816	3E7856	8,000	3E7829	3E7869	200,000
3E7804	3E7844	750	3E7817	3E7857	10,000	3E7830	3E7870	250,000
3E7805	3E7845	1,000	3E7818	3E7858	12,500	3E7831	3E7871	300,000
3E7806	3E7846	1,500	3E7819	3E7859	15,000	3E7832	3E7872	400,000
3E7807	3E7847	1,750	3E7820	3E7860	20,000	3E7833	3E7873	500,000
3E7808	3E7848	2,000	3E7821	3E7861	25,000	3E7834	3E7874	1 Meg
3E7809	3E7849	2,500	3E7822	3E7862	30,000	3E7835	3E7875	1.5 Meg
3E7810	3E7850	3,000	3E7823	3E7863	40,000	3E7836	3E7876	2 Meg
3E7811	3E7851	3,500	3E7824	3E7864	50,000	3E7837	3E7877	3 Meg
3E7812	3E7852	4,000	3E7825	3E7865	60,000	3E7838	3E7878	5 Meg

Continental Certified Carborite Molded Resistors 3 Watt

1000 Volt Ceramic Coating Insulation

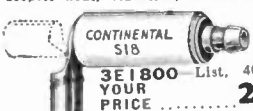
Same high grade quality and style of construction as above $\frac{1}{2}$ watt and 1 watt but 3 watt capacity. Body size—Diameter $\frac{3}{4}$ ", Length $1\frac{1}{2}$ ", $1\frac{1}{2}$ " tinned wire leads.

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

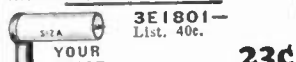
Continental Ignition Interference Suppressor

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 Elbow spark plug suppressor. The suppressor takes the place of the terminal on the Ignition cable.



3E1802—List. 40c.
YOUR PRICE 23c

Resistance type. Bakelite body. Has threaded insert for screwing suppressor directly into spark plug. Threads fit any spark plug.



3E1803—List. 40c.
YOUR PRICE 23c

3E1804—List. 40c.
YOUR PRICE 23c

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.

Insulated Container Auto Filter Condenser

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

3E1814—List. 60c.
YOUR PRICE 35c

PRICES REDUCED

On Continental Carbon Resistors And Auto Ignition Suppressors

ALL SIZES OF $\frac{1}{2}$ WATT 1 WATT New List Price 20c YOUR PRICE 12c
3 WATT: List Price, 30c, YOUR PRICE, 18c

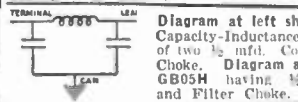
Continental Auto Suppressors

3E1800 3E1801 3E1802 3E1803 3E1804 New List Price 30c Your Price 18c

- 1— **Capacitor Distributor Cables:** Suppressor here absorbs oscillating current interference from spark between distributor points and rotor. Peen down distributor rotor or add solder to reduce this gap to minimum.
- 2— **Low Tension Breaker to Coils:** Install Type GB025, GB05, or GB05B Filter Units. Especially necessary with coils mounted on dash or through bulk-head.
- 3— **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 Units, where greatest mechanical strength is desired, with terminal of lead wire on battery side of generator output. If noise persists when idling motor, install second condenser across generator side of control.
- 4— **Horn:** Spark at horn armature causes interference that works back into set. GB1 or GB1A Filter Unit across terminals will usually eliminate all interference.
- 5— **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

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 GB05DH 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— **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 GB05DH Capacity and Inductance Filter Unit.



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	GB045	$\frac{1}{2}$	60c	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 $1\frac{1}{4}$ " in diameter, with mounting strap going all around. One side connects to the chassis 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 car 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" 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"x2 1/2"x1/2". Used to filter power supply from battery to receiver or for lighting circuits not completely filtered by choke and single condenser units.

3E1812—List. Each \$1.50.
YOUR PRICE 88c

3E1812—List. Each \$1.50.
YOUR PRICE 88c

OHMITE

WIRE WOUND RESISTORS

RED DEVIL

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 tinned

1500 DEGREES F

460 MA

115 Volts

250 Ohm Resistor

10 WATT

Size 1 3/4 x 3/8 inches.

List, Each 35c.

Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms
3C1599	1	3C1610	25	3C1621	300	3C1632	3,500
3C1600	2	3C1611	30	3C1622	400	3C1633	4,000
3C1601	3	3C1612	35	3C1623	500	3C1634	5,000
3C1602	4	3C1613	40	3C1624	600	3C1635	6,000
3C1603	5	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 Number	Ohms	Stock Number	Ohms	Stock Number	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.

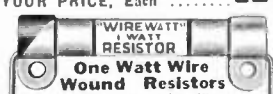
Stock Number	Ohms	Stock Number	Ohms	Stock Number	Ohms
3C1642	30,000	3C1647	55,000	3C1652	80,000
3C1643	35,000	3C1648	60,000	3C1653	85,000
3C1644	40,000	3C1649	65,000	3C1654	90,000
3C1645	45,000	3C1650	70,000	3C1655	95,000
3C1646	50,000	3C1651	75,000	3C1656	100,000

List 75c
YOUR PRICE 44c

OHMITE Wire-Watt

List, 20c.

YOUR PRICE, Each 12c



One Watt Wire Wound Resistor

Especially designed as a replacement for burned out or noisy resistors. Wire wound—absolutely free from noise. RMA code coded. Size 1 1/4" x 1/2"—1 1/2" tinned 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	4,500
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

List Price ... 30c
YOUR PRICE 18c


Center Tapped Wire-Watt

Stock Number	Ohms	Stock Number	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	56.3 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 1/2 x 1"—Above 10,000 ohms. Size 1/2 x 1 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.
YOUR PRICE 12c

2 1/2 Watt

Stock Number	Ohms	Size 1 1/2 x 2 1/2	Stock Number	Ohms	Size 1 1/2 x 1 1/2
3E4927	30000	List 35c	3E4932	10	List 25c
3E4928	35000		3E4933	20	
3E4929	40000	YOUR PRICE 17c	3E4934	40	YOUR PRICE 12c
3E4930	45000		3E4935	60	
3E4931	50000		3E4936	80	
			3E4937	100	

10 Watt

Size 3/4 x 1 1/4"

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.
YOUR PRICE 20c

Candohm Original Equipment Resistors

Exact duplicate of the original Candohm unit 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
Belmont R258	350	3E4984	20c	U. S. 1752	3500-8400	3E4988	\$1.56
R261	15000-2500	3E4985	69c	1959	4700-8400	3E4989	1.56
	150-350			2303	10700	3E4990	39c
Crosley Radio Corp. 20176	10-10-10	3E4970	49c	2381	8000-8000	3E4991	69c
	10-860			2811	550-600-600	3E4992	69c
20452	320-225	3E4971	69c		1200-1000		
20900	1000-1750	3E4972	49c		50-500		
21965	3250-3250	3E4986	49c	2811A	550-600-600	3E4993	69c
21956	3160	3E4987	29c		1200-1000-500		
2471	25000-8500	3E4938	39c	3111	2500-425-600	3E4994	78c
25274	3000-2150	3E4973	59c		1800-800		
	1220-45			3360	300-10000	3E4995	88c
25274	1790-2150	3E4974	59c		11000-3000		
28755	1200-45	3E4975	78c	3476	1000-3200-180	3E4996	78c
	246-28			3621	225-250-200	3E4997	78c
Griggs by-Grunow 7818	2000-140-500	3E4976	39c		200-200-225		
8292	2000-350-500	3E4977	39c	4145	300-10000	3E4998	59c
9239	7000-40	3E4978	69c		10000		
	3000-300			4353	850-850	3E4999	49c
10145	408-134-1800	3E4979	69c	5463	3000-1800	3E4995	59c
10252	300-9000-10000	3E4980	29c	5807	800-4200-250	3E4996	49c
10535	10-1000	3E4939	39c	6749	400-1400	3E4997	39c
	300-1500-500				500-4200		
Inter national Kadette R302	1500	3E4981	29c		60-17500		
R303	310	3E4982	78c	Zenith 63-251	300-200	3E4998	69c
RCA Victor 67822	315	3E4983	78c		1845-60.5		
				63-252	900-2400	3E4999	59c
					3300-900		

Candohm 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 rod 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 1/2 in., depth 3/4 in., shaft 2 1/4 in. long milled flat. **The Switch Model** is equipped with C-II underwriters Approved Snap Switch mounted on back cover. Switch capacity 2 Amps., 125 V.; 1/2 Amp., 250 V. Switch depth 3/8", total depth switch type 1 1/2".

With Switch

Less Switch

List. \$1.70.

List. \$1.25.

Your Price

83c

Five for \$3.70

Your Price

61c

Five for \$2.70

Resistance Ohms	Taper	Curve Num.	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	52-204	70-204	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.	3	62-115	72-115	5, 7, 8
15,000	R. H.	4	99-006	79-006	2, 5, 7, 8
20,000	L. H.	3	62-119	72-119	5, 7, 8
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	L. H.	3	62-102	72-102	5, 7, 8
50,000	Unif.	1	62-103	72-103	4, 19, 20
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.	1	52-202	70-202	2, 18
100,000	Unif.	4	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.	1	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.

24c

YOUR PRICE.....

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,

DC, 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
Chester (Vol.)	500M	RI-202	.59	72-105	.61	3E3003	.49
1st Mohawk-Kellogg, A. C.	7500	RI-240	.59	72-114	.61	3E3004	.49
Lyric J3, J8, P4, P8, P9, C6, 550, (Vol.)							
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		
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.)	300M	RI-242	.59	72-101	.61		
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						
90, 93, 94, 95, 96, (Vol.)	10M	R-1880-T	1.32	70-501	1.47	3E3007	1.04
S6, S7, S8, DC65, 7 Tube S. G. D. C. (Vol.)	10M	RI-201	.59	70-006	.61	3E3008	.49
S7 (Tone)	30M	RI-240	.59	72-114	.61	3E3004	.49
SA8, S50, S63, SW8, SW80, SA65, SA130, (Tone)	10M	RI-240	.59	72-100	.61	3E3004	.49
Lyric D11, D19, D29, D39, D69, H19, H29, H60, B30, B31, B80, D. C. with 222 Tubes, (Vol.)	7500	R-1802-T	1.32	74-601	1.22	3E3009	1.04
B80 (Tone)	25M	RI-250	.59	72-111	.61		
7 Tube D. C. Super (Vol.)	7500						
B7 (Vol.)	10M	R-1802-T	1.32	74-615	1.47	3E3009	1.04
227 A. C. (Vol.)	10M	FB-479-T	2.10	74-602	1.22	3E3010	1.04
SS0, (Vol.)	500M	RI-203	.59	72-106	.61	3E3002	.49
	15M	RI-201	.59	72-115	.61	3E3008	.49
SS0, (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	RI-1738	.25	72-112	.61	3E3014	.49
1st. 55, 1st. 55C, 1st. 55F, 1st. 55FC, 1st. 60, 1st. 60C, 61, 61C, (Vol. Strip)	6000	RI-1742	.25			3E3015	.22
80, 80F, 83, 83F, 90, 90F, (Vol.)	6000	RC-460P	.92	201905	.98		
2d. 55, 2d. 55C, 2d. 60, 2d. 60C, 66, (Vol.)	8M	RI-624T	1.76			3E3016	1.47
2d. 55F, 2d. 55FC, (Vol.)	10M					3E3007	1.04
3d. 55F, 3d. 55FC, (Vol.)	6M						
3d. 55F, 3d. 55FC, (Vol.)	7M						
3d. 55F, 3d. 55FC, (Vol.)	10M						
3d. 55F, 3d. 55FC, (Vol.)	10M	RI-1880T	1.32	74-548	1.22	3E3007	1.04
3d. 60, 3d. 60C, 70D, 70D2, 74D, 74D2, 70D, 76D2 (Vol.)	2500	RI-385	.66				
67, 67C, 2d. 82Q, 85Q, 228Q, Vol.)	6000	RC-465	.66	72-104	.61	3E3017	.49
70F, 70L, 70L2, 74F, 74L, 74L2, 75P, 76F, 76L, 76L2, 76P, 89P, (Vol.)	2500						
	5600	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	RI-385	.66			3E3120	.49
72H, 72H2, (Vol.)	10M						
81, 81B, 81C, 91, 91B, 91C, (Vol.)	250M	R-1757T	2.06	25-426	1.47	3E3019	1.24
	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	RC-464P	.92	62-105	.83		
480, (Vol.)	500M	RI-203	.59	52-203	.83	3E3002	.49
82, 82F, (Vol.)	550	RI-433P	1.19	62-118	.83	3E3020	.49
86, 86F, (Vol.)	550	RC-463PG	1.19	62-118	.83	3E3020	.49
2d. 85, 2d. 85F, (Vol.)	350	RI-433P	1.19	72-118	.61	3E3021	.49
2d. 84, 2d. 84F, 87, 94, 94F, (Vol.)	350	RI-277	.59	62-109	.83		
87D, (Vol.)	2500						
2d. 96, 96P, 1st. & 2d. 99, (Neon)	5000	R-1823T	1.32				
3d. 99, 99F, (Neon)	40M	RI-205	.59	72-103	.61	3E3022	.49
3d. 96, 1st. 469, 1st. 469F, 460, (Neon)	14M	RI-201	.59	79-006	.61	3E3008	.49
636, 756, 756B, (Vol.)	8000	RI-560	.59	72-114	.61	3E3011	.49
1st. & 2d. 260, 1st. & 2d. 260F, (Neon)	500M	RI-954	.73	51-122	.73		
3d. 260, 3d. 260F, 2d. 469, 2d. 469F, 612, 812, (Neon)	15M	RI-201	.59	79-006	.61	3E3008	.49
	20M	RI-279	.59	72-119	.61	3E3013	.49
165, 217, 217D, 275, 310J, 310T, 427, 427D, 510, 667, 667D, 708, 711J, 711R, 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, Clorostat, 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, 7T31, 6T-Jr., 7T31, 8T, 8T31, 9T45-31, 9T47-31, 10T31, 13T5, 23T5, 23T5-SW, 31, 31 Super, (Vol.)	10M	RI-204	\$0.59	99-006	\$0.83	3E3024	\$0.49
8430, (Vol.)	75M	RI-202	.59	70-202	.61	3E3003	.49
880, 23-S8, (Vol.)	500	RI-282	.59	70-204	.61		
31, 31 Super, 9T45-31, 10T31, (Tone)	1 Meg	RI-206	.59	72-116	.61	3E3025	.49
5T-Jr., 6T31, 6T-Jr., (Tone)	10M	RI-240	.59	72-100	.61	3E3004	.49
30B, 730, (Vol.)	2700	RI-233	.59	72-103	.61	3E3026	.49
23S8, 23S10, 23S12, (Tone)	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
52S, (Vol.)	500M	RI-203	.59	62-105	.83	3E3002	.49
110, (Vol.)	1 Meg	RI-206	.59	62-116	.83	3E3002	.49
550, (Vol.)	50M	RI-203	.59	62-105	.83	3E3003	.49
1st, 600, (Vol.)	75M	RI-202	.59	52-202	.83	3E3002	.49
2d, 600, 625, (Vol.)	500M	RI-203	.59	62-105	.83	3E3002	.49
750, 1050, (Vol.)	500M	RI-557	.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		
14, 21, 31, 81A, (Vol.)	25M	RI-202	.59	52-206	.83	3E3003	.49
8-81, 8-82, (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.)	2000						
	60	R-1824T	1.32			3E3074	1.04
3NWR, (Sens.)	1200	RI-276	.59	72-107	.61		
3NWR, (Vol.)	2750	RI-404	.79	72-108	.83	3E3026	.49
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		
11, 12, 16, 33, (Vol.)	15M	RI-365	.79	52-205	.61	3E3031	.49
10 Midget	4100	RI-234	.59	55-004	.98	3E3032	.49
D11, D12, D16, D17, D18, D24, D25, D33, (Tone)	20M	RI-280	.59	72-119	.61		
D11, D12, D16, D17, D18, D33, (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
Cavaller 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						
	10M	R-1651T	1.32	25-417	1.71		
44, 47, 48, 73, (Vol.)	15M	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	99-006	.83	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	.92	72-116	.61	3E3025	.49
129, (Vol.)	725M	RI-792P					
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.)	25M	RI-280	.59	75-525	1.71		
950, (Vol.)				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.

List Each, \$2.50.
YOUR PRICE \$1.22

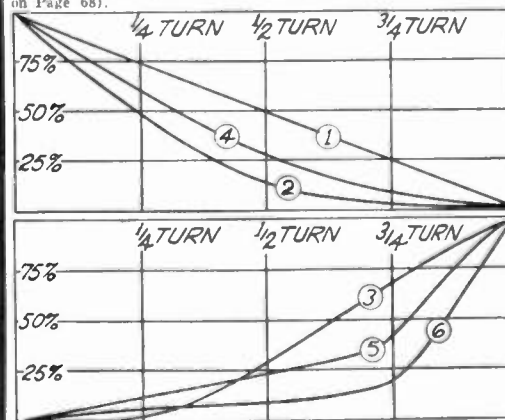
74-602—For use where the original was in the screen grid circuit. Panel resistance 10,000 ohms tapered for antenna. Rear section 50,000 ohms tapered as screen grid potentiometer.

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 (H. 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 Milliamper Load	90% Rot.	50% Rot.	Min. Volume
62-116	72-118	500	1	70	70	60	60
62-107	72-107	1,000	1	50	50	40	40
62-101	72-101	2,000	1	50	40	25	25
62-108	72-108	3,000	1	50	35	20	20
62-109	72-109	4,000	1	50	35	18	18
62-110	72-110	5,000	1	50	35	15	15
62-114	72-114	10,000	1	35	25	10	10
62-113	72-113	10,000	3	20	14	7	7
62-205	70-205	10,000	4	40	30	13	7
62-115	72-115	15,000	3	20	12	6	6
99-006	79-006	15,000	4	40	30	12	6
62-119	72-119	20,000	3	18	10	5	5
62-111	72-111	25,000	1	30	15	5	5
62-206	70-206	25,000	4	30	18	7	7
62-103	72-103	50,000	1	20	10	4	4
52-202	70-202	75,000	4	30	10	5	2
62-104	72-104	100,000	1	10	7	3	3
62-117	72-117	200,000	4	20	10	3	1
52-106	72-106	500,000	1	10	2	1	1
62-203	70-203	500,000	2	15	10	2	.5

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 $\frac{3}{8} \times \frac{1}{2}$ long. Shaft $\frac{1}{8} \times \frac{1}{2}$ long.

Gain Controls

List Price, \$2.50. **YOUR PRICE..... \$1.71**

Stock Number	Ohms, Resist.	Attenuation
24-083	500,000	50 Db.
24-084	250,000	50 Db.
24-085	100,000	50 Db.
24-086	500,000	30 Db.

Potentiometers

List Price, \$2.50. **YOUR PRICE..... \$1.22**
Same size and construction as above but with symmetrical resistance taper.

Stock Num.	Ohms	Stock Num.	Ohms
24-108	200	24-050	50,000
24-110	400	24-100	100,000
24-111	2,000	24-200	200,000
24-112	10,000	24-500	500,000
24-023	20,000		

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.

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	
48-851	5,000	\$1.35

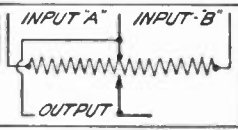
Centralab Straight Resistance Fader



A straight center tapped Potentiometer for simple pickup circuits that do not require constant impedance. Resistances given are those of each half. Case $2\frac{1}{2} \times 1\frac{1}{2}$. Shaft $\frac{1}{8} \times \frac{1}{2}$ long. Mounts in $\frac{1}{2}$ hole. Furnished with insulated bushing and knob.

Stock Num.	Resist. Ohms.	List \$4.00
64-305	100,000	
64-301	50,000	
64-302	25,000	

Each. \$1.96



Special Crosley Replacements

Models 305, 315, 335, 345

Part W-7022.
3E3288—
YOUR PRICE **75¢**

MODEL 48—Part W-22148-A
3E3290—
YOUR PRICE **73¢**

MODELS 53, 54, 55, 56, 57, 58. Part W-20558.
3E3291—
YOUR PRICE **64¢**

CROSLLEY 405, 415, 425, 71A, 825, Early and Late Models. Twin Volume Control

25,000-40,000 ohm. R-1711—
Part W-6596.
YOUR PRICE **66¢**

VOLUME CONTROLS For Mod. 608, 609 GEM BOX



1800 ohm with fixed bias Resistor. $1\frac{1}{2}$ " shaft. 1723-G—
YOUR PRICE **65¢**

CROSLLEY 122, 123

Vol. Control with Switch

Part W23112. (old No. 22597)
3E3294—
YOUR PRICE **79¢**

CROSLLEY Model 26 Volume Control 125,000 ohm, long shaft Part W-20114

RI-504—
YOUR PRICE **66¢**

CROSLLEY MODELS 75, 706, Show Box Part Number W-6352.
3E3299—YOUR PRICE **66¢**

CROSLLEY Models 602, 2nd 604, 704B, 2nd Jewel Box Part W-7564.
51-037—
YOUR PRICE **73¢**

CROSLLEY Model 804 3rd Jewel Box 10000 Ohm Volume. Control Part W-5669 R-296—
YOUR PRICE **66¢**

RADOLEK REPLACEMENT

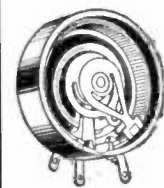
Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
COLUMBIA PHONO.—Cont.							
960, (Vol.)	5000	RI-278	\$0.59	70-204	\$0.61	3E3033	\$0.49
940, 961, 980, C11, (Vol.)	25M	RI-203	.59	72-102	.61	3E3002	.49
31, 32, 25-31, 25-32, (Vol.)	4100	RI-277	.59	62-110	.83		
33, 34, 25-33, 25-34, (Vol.)	10500	RI-573	.59	52-205	.83	3E3027	.49
C80A, C80B, C800, (Vol.)	250M	RI-208	.59	72-121	.61	3E3012	.49
C80A, C80B, C800, (Tone)	50M	RI-205	.59	72-117	.61	3E3022	.49
(C90, Tone)	250M	RI-208	.59	72-121	.61	3E3012	.49
(C90, Vol.)	200M	RI-281	.59	72-131	.61		
(C100, Vol.)	300M	RI 208	.59	62-104	.83	3E3012	.49
(120B, (Vol.)	10M						
	10M	RI-772T	1.32				
COLUMBIA RADIO CORP.							
SG5, (Vol.)	75M	RI-202	.59	70-202	.61	3E3003	.49
1st. 8G8, (Vol.)	30M	RI-240	.59	82-028	1.22	3E3004	.49
2d. 8G8, (Vol.)	6000	R-1827P	1.19	72-100	.61	3E3029	
SG9, (Vol.)	1500						
	10M	RI-1745TP	1.59				
SG9, (Tone)	500M	RI-203	.59	72-105	.61	3E3002	.49
SG-10, (Vol.)	60M	RI-205	.59	70-202	.61	3E3022	.49
CROSLLEY RADIO CORP.							
AC7, AC11, (F.H.)	500	RI-282	.59	72-118	.61		
608, 609, Gembox, (Vol.)	500	RI-1723G	.65	51-039	.73	3E3034	.56
804, 3d. Jewelbox, (Vol.)	10M	R-296	.66			3E3035	.56
610, (Vol.)	1500	RI-1712	.79	51-039	.73	3E3036	.56
1st. 704, 1st. Jewelbox, (Vol.)	10M	RI-348	.66	70-113	.98	3E3037	.56
1st. 704, 1st. Showbox, (Vol.)	10M	RI-347	.79	70-113	.98	3E3038	.67
32, 40, 41, 41A, 42, 61, 62, 705, 2d. 706, 2d. Showbox, (Vol.)	350	RI-1725	.79	51-037	.73	3E3039	.65
602, 2d. 704, 704A, 704B, 2d. Jewelbox, (Vol.)	350	RI-1839	.66	51-037	.73	3E3040	.56
Buddy, Chum, (Vol.)	400	RI-274	.59	70-118	.98	3E3131	.49
20, 21, 22, 23, (Vol.)	75M	RI-202	.59	70-202	.61	3E3003	.49
26, (Vol.)	150M	RI-504	.66	72-045	.73	3E3042	.56
27, 28, (Vol.)	40M	RI-203	.59	72-019	.73	3E3043	.49
53, 53E, 53F, 53M, (Vol.)	25M	RI-242	.66	72-111	.61	3E3043	.49
54, 55, 56, 57, 57V, 58, (Vol.)	25M	RI-686	.66	72-111	.61	3E3043	.49
308, 318, 338, 348, (Vol.)	3250M	RI-1687	.66	72-019	.73	3E3044	.56
1st. 408, 1st. 418, 1st. 428, 71A, 1st. 828, (Vol.)	25M	RI-1711	.66	70-503	1.22	3E3045	.56
2d. 408, 2d. 418, 2d. 428, 2d. 828, (Vol.)	15M						
2d. 48, (Vol.)	40M	RI-1711	.66	74-511	1.22	3E3045	.56
608, 618, 628, 638, (Vol.)	4500	RI-592G	.79	52-006	.83	3E3046	.49
	40M	RI-279	.59	72-111	.61	3E3013	.49
74, (Vol.)	50M	RI-205	.59	72-103	.61	3E3022	.49
75, 76, 77A, 77B, 77L, 84C, 84D, (Vol.)	300M	RI-203	.59	72-047	.73	3E3002	.49
77-1, (Vol.)	15M	RI-592G	.79	70-006	.61	3E3046	.49
90 Auto, 91 Auto, 92 Auto, (Vol.)	60M	RI-205	.59	72-117	.61	3E3022	.49
95 Auto, 96 Auto, Roamlo, (Vol.)	300M	RI-203	.59	72-104	.61	3E3002	.49
	3 Meg	RG-489	.79	62-132	.83		
120, (Vol.)	10M	RI-201	.59	90-006	.83	3E3008	.49
120, 121A, 121-1, 121-B, (Tone)	100M	RI-242	.59	90-006	.83	3E3069	.49
121A, (Vol.)	650	RI-282	.59	72-118	.61	3E3021	.49
121-1, 121-B, (Vol.)	650	RI-282	.59	72-118	.61	3E3021	.49
1st. 122, Smoker, (Vol.)	2500	RI-278	.59	72-101	.61	3E3033	.49
2d. 122, (Vol.)	3000	RI-278	.59	72-108	.61	3E3033	.49
122, 123, (Tone)	40M	FB-557	1.27	72-117	.61	3E3047	.49
123, (Vol.)	10M	RI-240	.59	52-205	.83	3E3004	.49
124, (Vol.)	10M	RI-616P	.92	52-205	.83	3E3031	.69
125, (Vol.)	10M	RI-616P	.92	52-205	.83	3E3031	.69
124, 125, (Tone)	25M	FB-556	1.27	72-117	.61	3E3047	.49
124-1, (Vol.)	4500	RI-616P	.92	72-110	.61		
124-1, (Tone)	80M	RI-202	.59	72-123	.61	3E3003	.49
126, (Vol.)	650	RI-282	.59	72-055	.73		
126, (Tone)	100M	FB-558	1.27	72-122	.61		
126-1, (Vol.)	650	RI-282	.59	72-055	.73		
126-1, 128, (Tone)	300M	RI-203	.59	62-121	.83	3E3002	.49
127, (Vol.)	500M	RI-203	.59	62-121	.83	3E3002	.49
127-1, (Vol.)	500M	RI-203	.59	72-121	.61	3E3002	.49
127, (Tone)	1 Meg	RI-206	.59	72-116	.61	3E3025	.49
127-1, 129, 120-1, 132-1, 136-1, 146, (Tone)	80M	FB-558	1.27	52-202	.83	3E3055	.49
128, (Vol.)	1500	RI-232	.59	72-101	.61	3E3055	.49
131, (Vol.)	1500	RI-232	.59	72-101	.61	3E3055	.49
129, (Vol.)	4500	RI-278	.59	72-115	.61	3E3033	.49
133, (Vol.)	15M	RI-201	.59	72-115	.61	3E3008	.49
129-1, (Vol.)	4500	RI-278	.59	72-115	.61	3E3033	.49
132-1, 146, 150, (Q. A. V. C. Adj.)	400M	RI-203	.59	72-121	.61	3E3002	.49
143-1, (Vol.)	10M	RI-240	.59	201-901	.83	3E3004	.49
133, 134, 134-1, 135, (Tone)	400M	RI-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	3E3033	.49
143-1, 145, 141, 146-1, (Vol.)	400M	RI-278	.59	62-110	.83		
132-1, 136-1, (Vol.)	500M						
	500M	RI-950T	1.32				
137, (Vol.)	500	RI-282	.59	72-118	.61		
147, (Vol.)	4500	RI-278	.59	62-110	.83	3E3033	.49
148, (Vol.)	4600	RI-278	.59	62-110	.83	3E3033	.49
155, (Vol.)	40M	RI-278	.59	62-110	.83	3E3033	.49
156, (Vol.)	10M	RI-240	.59	52-205	.83	3E3004	.49
160, (Q. A. V. C. Adj.)	5000	RI-278	.59	70-202	.61		
154, (Vol.)	10M	RI-283	.59	62-100	.83	3E3006	.49
98 Auto, (Vol.)	3 Meg	RG-489	.66	62-132	.83		
99 Auto, (Vol.)	3 Meg	RG-489	.66	62-131	.83		
160, (Vol.)	3 Meg	RG-489	.66	72-132	.83		
163, 166, 176, (Vol.)	400M	RI-234	.59	62-110	.83	3E3032	.49
99 Auto, (Tone)	80M	FB-558	1.27	70-202	.61		
159, (Vol.)	4600	RI-278	.59	52-204	.83	3E3033	.49
169, (Vol.)	10M	RI-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		
R6, R7, (Vol.)	500M	RI-203	.59	74-512	1.47	3E3002	.49
Abbey Jr., Abbey Bat., (Vol.)	500M	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.)	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.)	6000	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
268, (Vol.)	10M	RI-240	.59	62-113	.83	3E3004	.49
257, (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	2011045	1.22	3E3002	.49
EVEREADY							
50, 52, 53, 54, (Vol.)	500M	FB-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	R-147	.66	70-059	.98	3E3052	.56
40, P, (Vol.)	10M	RI-747T	1.30	74-513	1.47		
40, P, (Tone)	25M	FR-570T	1.59	74-513	1.47		
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	RI-206	.59	72-116	.61	3E3025	.49
	3M	RI-633T	1.59	74-541	1.47		
1st. 45, 1st. 45Z, 51, 251, KO, KOC-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, RE-110, RE-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	RI-241	.59	72-111	.61	3E3043	.49
75, 77, 2d. E., (Vol.)	25M	RI-279	.59	79-019	.98	3E3013	.49
78, 79, RC, (Vol.)	500M	RI-1848T	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	72-116	.61	3E3025	.49
81, 82, 84, 86, KB, (Sens.)	6000	RI-278	.59	70-204	.61	3E3033	.49
104, RK, RO, RV, Motomset, (Vol.)	1 Meg	RI-821P	.92	62-115	.83		
103, RL, Radalette, (Vol.)	10M	RI-240	.59	62-113	.83	3E3004	.49
93, 95, 106, 107, RN, RP, RY, RS, (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.)	750M	RI-203	.59	72-116	.61	3E3092	.49
L, (Vol.)	25M			74-514	1.47	3E3053	1.24
	30M						

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 phone pickup circuits

Constant 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 1/2" deep.
List Price, \$4.00.
YOUR PRICE, Each..... \$1.96
Stock Imped. Num. Ohms
96-003 10,000
96-002 5,000
96-007 500
96-006 200
96-005 50
96-001 15

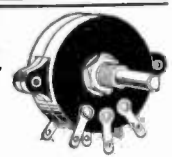
Junior Twin "L" Pad-1 Watt

Stock No. Ohms List, \$3.00.

74-544 10,000 YOUR **\$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 1/2" x 1 1/2" deep. Shaft and bushing insulated. With knob.

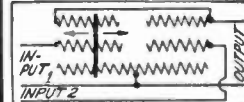


Constant Impedance Fader

List price \$8.00
YOUR PRICE \$3.92

Stock Num.	Resist. Ohms	Stock Num.	Resist. Ohms
83-006	5,000	83-003	500
83-001	3,000	83-004	200
83-002	1,500	83-005	50

Used to fade from film to film, pickup to pickup, microphone to microphone or line to line. Bakelite case 3 1/2" x 1 1/2" deep, single or three hole Mtg. With knob.

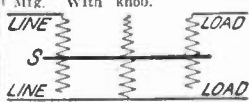


Constant Impedance "T" Pad

List price \$7.00
YOUR PRICE \$3.43

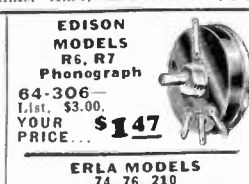
Stock Num.	Resist. Ohms	Stock Num.	Resist. Ohms
93-008	5,000	93-004	100
93-001	1,500	93-005	50
93-002	500	93-006	15

A network of 3 resistances. Provides smooth attenuation while maintaining constant impedance. Bakelite case 3 1/2" x 1 1/2" 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, R11, R12, JC JR, SC Abbey Junior, Regenerative Volume Control.

24-008—List, \$2.00.
YOUR PRICE..... 98c

74-512—List, \$3.00.
YOUR PRICE \$1.47

EVEREADY 50 SERIES Twin Volume Control

74-503—List, \$3.00.
YOUR PRICE \$1.47

ERLA MODELS 74, 76, 210

10,000-20,000 Ohm Twin Volume Control
74-601—List, \$2.50.
YOUR PRICE \$1.22

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

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.

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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, Fyfe-wood, (Vol.)	50M	RI-553	\$0.66	41-060	\$0.73	3E3061	\$0.56
15, 55, 56, 57, 58, 150, 151, 153, 155, 156, Ardmore, Berkshire, Castlewood, Ellwood, Havenwood, Sherwood, Viking, (Tone)	50M	RI-553	.66	41-060	.73	3E3061	.56
15B, 154, Fyfe-wood, (Tone)	(6500 + 160BI)	RI-444PG	1.19	55-014	.88	3E3062	.72
25, 251, 253, 254, 1st. Brentwood, 1st. Brucewood, 1st. Cheltonwood, (Vol.)	90	RI-139	.66	72-117	.61		
150, 155, 160, 163, Castlewood, (Phono.)	85M	RI-240P	.79	55-014	.88	3E3065	.72
25, 251, 253, 254, 1st. Brentwood, 1st. Brucewood, 1st. Cheltonwood, (Tone)	6000	RI-278P	.79	62-110	.83		
25B, 251B, 253B, 254B, 2d. Cheltonwood, (Vol.)	85M	RI-240P	.79	55-014	.88	3E3065	.72
25B, 251B, 253B, 254B, 2d. Brentwood, 2d. Brucewood, 2d. Cheltonwood, (Tone)							
35, 351, 353, 1st. Abbeywood, 1st. Collingwood, (Vol.)	6000	RI-278P		62-110	.83	3E3066	.69
35, 351, 353, 1st. Abbeywood, 1st. Collingwood, (Tone)	10M	FB-555	1.27	72-110	.61		
55, 56, 57, 58, Ardmore, Berkshire, Viking, (Vol.)	(11500 + 284BI)	RI-440PG	1.19	55-010	.88	3E3060	.97
110 Auto, (Vol.)	100M	RI-242	.59	72-088	.73		
111 Ford Auto, 114 Auto, (Vol.)	250M	RI-551	.66	72-121	.61	3E3067	.97
116 Auto, (Vol.)	200M	RI-903P	.92	62-121	.83		
120, 121, (Vol.)	250M	RI-551	.66	62-121	.83	3E3067	.56
	(10M)	R-1880T	1.32	74-548	1.22	3E3007	1.04
120B, 123, (Vol.)	(10M)	R-1880T	1.32	74-548	1.22	3E3007	1.04
200, 201, 203, 204, Explorer, Fairfax, Sheffield, (Vol.)	500M	RI-549	.66	72-105	.61	3E3028	.49
210, 211, 214, 215, Croydon Stratford, Whitehall, (Vol.)	200M	RI-551	.66	72-121	.61	3E3067	.49
220, 221, 223, 2d. Abbeywood, 2d. Collingwood, (Vol.)	200M	RI-551	.66	72-121	.61	3E3067	.49
290, 291, 293, 294, 300, 300A, 303, 304, 307, 310A, 310B, 311, 314, 315, 320, 324, 330, 331, 336, 77, Adams, Madison, Monroe, (Vol.)	250M	RI-551	.66	72-121	.61	3E3067	.49
290, 291, 293, 294, Adams, Madison, Monroe, (Q.A.V.C. Adj.)	6000	RI-278P	.79	72-110	.61	3E3066	.49
300, 300A, 303, 304, 307, 320, 324, (Q.A.V.C. Adj.)	20M	RI-279	.59	72-119	.61	3E3013	.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.)	200M	RI-551	.66	72-121	.61	3E3067	.49
340, 344, 360, 363, 390, 393, (Tone)	250M	RI-551	.66	62-121	.83	3E3067	.49
340, 344, 360, 363, (Q.A.V.C. Adj.)	20M	RI-27	.59	72-119	.61	3E3013	.49
370, 371, 373, (Vol.)	(20MX 250BI)	RI-904PG	.92	37-006	.98		
380, 381, (Vol.)	50MX 250BI	RI-205	.59	62-103	.83	3E3022	.49
400, 400A, 411, 411A, 413, 412A, (Vol.)	(20MX 250BI)	RI-904PG	.92	37-006	.98		
44, 49, 194, 440, (Vol.)	7500	RI-900PG	.92	62-114	.83		
67, 68, 69, 161, 196, 460, 461, 463, 666, 776, 886, Century 6, Master 6, Lido, Park Ave., Ritz, Riviera, (Vol.)	200M	RI-889	.66	72-121	.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.)	200M	RI-902	.66	72-121	.61		
490, 491, 492, (Tone)	250M	RI-901	.66	62-121	.83	3E3067	.49
55, 59, 75, 195, 500, 560, 566, 599, (Vol.)	200M	RI-901P	.92	62-121	.83	3E3068	.69
55, 86, 800, 998, (Vol.)	200M	RI-902	.66	72-121	.61		
55, 86, 800, 998, (Tone)	250M	RI-551	.66	62-121	.83	3E3067	.49
HOWARD RADIO CO.							
135DC, (Vol.)	5000	RI-278	.59	70-204	.61		
210, SH245, Green Diamond 8, (Vol.)	50M	R-179	.66	72-117	.61		
BGA, SGC, (Vol.)	(6000 50M)			74-601	1.22		
RCB, Miniature, (Vol.)	10M	RI-201	.59	70-205	.61	3E3008	.49
35, 35-47, 40, 40-47, EX, H, H-47, (Vol.)	10M	RI-278	.59	70-205	.61	3E3033	.49
35, 35-47, 40, 40-47, 400, 420, H, H-47, K, L, M, (Tone)	1 Meg.	RI-206	.59	62-116	.83	3E3002	.49
45, 60, AVH, EX, (Tone)	500M	RI-203	.59	62-105	.83	3E3002	.49
45, 60, AVH, AVO, (Vol.)	500M	RI-201	.59	72-113	.61	3E3008	.49
20, 25, 30, 32, (Vol.)	9M	RI-201	.59	62-114	.83	3E3008	.49
10, T, (Vol.)	10M	RI-203	.59	72-106	.61	3E3002	.49
420, L, M, (Vol.)	500M	RI-242	.59	72-104	.61	3E3069	.49
400, K, (Vol.)	100M	RI-203	.59	72-106	.61	3E3002	.49
35A, AVO, (Tone)	500M	RI-201	.59	62-113	.83	3E3008	.49
J3, (Vol.)	10M						
INTERNAT'L KADETTE							
C, CS, J, JS, M, TS, (Vol.)	8020 X 1200BI	RI-240	.59	62-113	.83	3E3004	.49
Internat'l Kadette—Con't	on next page						

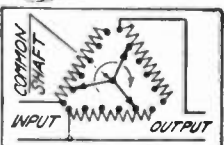
New ELECTRAD Tapped "T" Attenuator Constant Impedance

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.

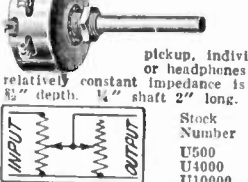
List Price, \$12.50.
YOUR PRICE, EACH..... **\$7.35**



Stock Number	Imped. Ohms	D. B. per Step	Max. D. B. Atten.
8AT50	50	4	44
8AT52	50	2	22
8AT200	200	4	44
8AT202	200	2	22
8AT500	500	4	44
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 1/4" diam. 3/4" depth. 1/4" shaft 2" long. Single 3/4" mounting.

Stock Number	Imped. Ohms	List Price Each \$3.50
TR-15	15	
TR-200	200	
TR-500	500	
TR-3000	3000	
TR-5000	5000	

YOUR PRICE **\$1.18**

Royalty "T" Pad Attenuator

Constant impedance volume control for individual control of 2 or more microphones, speakers, or electric pickups without disturbing the impedance of the input system. Case diam. 1 1/4", depth 1 1/8", shaft 1 1/2" long. Single 3/4" hole.



Stock Number	Impedance in Ohms	List Price Each \$3.50
TR-15	15	
TR-200	200	
TR-500	500	
TR-3000	3000	
TR-5000	5000	

YOUR PRICE **\$2.06**

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	
LR-200	200	
LR-500	500	
LR-3000	3000	
LR-5000	5000	

YOUR PRICE **\$1.47**

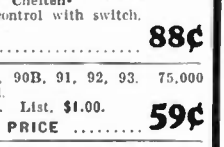
Exact Replacements for Majestic

Majestic Models 15, 15B, 150, 151, 153, 154, 155, 156, Castlewood, Ellwood, Fyfe-wood, Havenwood, Sherwood, Volume Control 11,500 ohm plus 264 ohm bias resistor with switch. 55-010. List, \$1.80.



YOUR PRICE **88¢**

Majestic Models 90, 90B, 91, 92, 93. 75,000 ohm volume control. RI-202. List, \$1.00.



YOUR PRICE **59¢**

Majestic Models 70, 70B, 71, 72, 10,000 ohm volume control. RI-240. List, \$1.00.



YOUR PRICE **59¢**

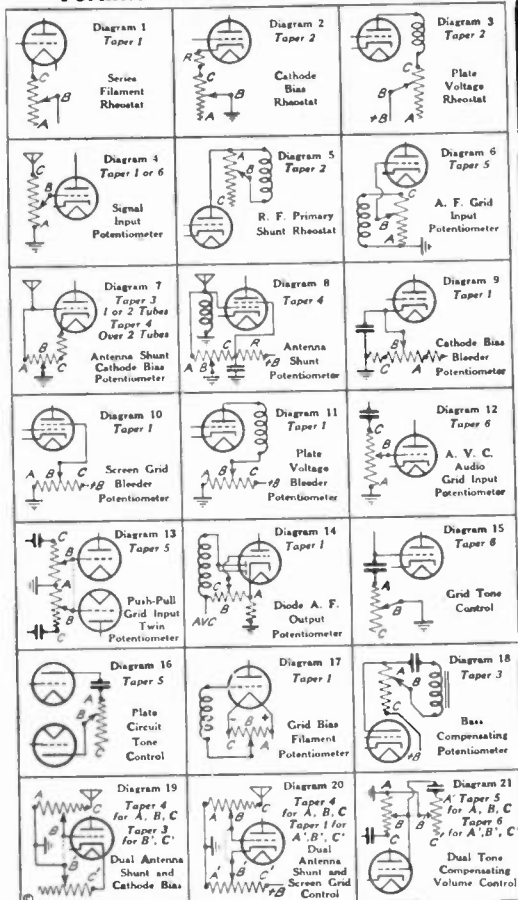
Majestic Models 50, 51, 52, 645-10,000 ohm dual volume control. RI-101T. List, \$2.50.



YOUR PRICE **\$1.32**

YOUR PRICE **79¢**

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	Dealers 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 (AVC)	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
17	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	90	L-7049	.59
42 (D. C.)	L-4094	1.06	91	L-3790	.91
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-5039	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.

SL4094—YOUR PRICE **73¢**

List. \$1.25.

Philco Models 70, 70A, 270A, 570, 90 (2-45), 90A (2-45), 470, 470A.

SL5039—Philco Part No. 5039.

List. \$1.50. YOUR PRICE **88¢**

RADOLEK REPLACEMENT

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
INTERNAT'L KADETTE							
J. S. (Tone)	Con't						
K.S. (Vol.)	100M	RI-242	\$0.59	72-122	\$0.61	3E3069	\$0.49
K.S. (Tone)	800M	RI-560	.59	72-114	.61	3E3011	.49
Kadette, (Vol.)	10M	RI-240	.59	72-100	.61	3E3004	.49
	200M	RI-281	.59	72-131	.61		
Kadette Jr., (Vol.)	2 Meg.	RG-489	.66	62-132	.83		
AW55 (Vol.)	15M	RI-201	.59	99-106	.83	3E3008	.48
A. B. (Vol.)	10M	RI-798P	.92	62-113	.83		
A. B. (Tone)	20M	RI-799	.66	72-119	.64		
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, 33W, 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, 62-000, 62-070, Challanger, 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, Challanger, (Vol.)	11500	RI-240	.59	79-006	.83	3E3004	.49
2955, 2955X, 2957, 2957X, Fantasy, Solo, (Vol.)	1500	RI-573	.59	74-602	1.22	3E3027	.49
811, 811X, 1111, 1111X, 62-1611, 62-1711, (Vol.)	7000	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, Challanger, 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, Recital, (Vol.)	1 Meg.	RI-206	.59	62-116	.83	3E3025	.49
500, 2800, 2822, 2827, 2895, 2897, 10000, Balboa, DeSota, Dictator, Sereader, (Vol.)	400	RI-274	.59	72-118	.61	3E3131	.49
2822, 2827, 2895, 2897, Balboa, DeSota, Minstrel, (Tone)	150M	RI-281	.59	72-131	.61		
1st. 2822, 1st. 2655, 1st. 2775, 1st. AE10, (Vol.)	10M	RI-240	.59	52-205	.83	3E3004	.49
2d. 2822, 2d. 2655, 2d. 2775, 2d. AE10, (Vol.)	500M			74-509	1.47		
62-11, 62-12, 62-14, 62-19, 62-27, Grenadier, Recital, (Vol.)	5000	RI-234	.59	52-204	.83	3E3032	.49
62-20, 62-25, 62-26, 62-26X, (Vol.)	300	RI-274	.59	62-105	.83	3E3002	.49
62-21, 62-22, 62-30, (Vol.)	500M	RI-203	.59				
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, Recital, (Tone)	150M	RI-281	.59	72-131	.61		
1st. 11-12, 62-7, 62-8, 62-9, 1st. 62-29, (Vol.)	15M	RI-201	.59	62-115	.83	3E3008	.49
1st. 11-12, 1st. 62-29, (Tone)	200M	RI-203	.59	72-131	.61	3E3012	.49
2d. 11-12, 2d. 62-29, (Vol.)	500M	RI-203	.59	62-105	.83	3E3002	.49
2d. 11-12, 2d. 62-29, (Tone)	20M	RI-208	.59	72-119	.61	3E3012	.49
13, 15, 16, 16X, 17, 18, 18X, (Vol.)	3000	RI-233	.59	62-108	.83	3E3026	.49
62-010, (Vol.)	25M	RI-279	.59	62-133	.83	3E3013	.49
62-38, 62-40, 62-50, (Vol.)	1 Meg.	RI-206	.59	62-116	.61	3E3025	.49
62-38, 62-40, 62-50, (Tone)	200M	RI-208	.59	72-131	.61	3E3012	.49
Auto Radio Super 6, (Vol.)	500M	RI-203	.59	72-105	.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	3E3029	.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	3E3002	.49
10, 7th. Transistone Auto, (Vol.)	500M	RI-203	.59	72-105	.61	3E3002	.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	3E3071	.45
16, (Q.A.V.C. Adj.)	10M	R-1664	.53	72-114	.61		
17, (Tapped Q.A.V.C. Adj.)	(6600 + 3400)	R-1664	.59	72-114	.61	3E3071	.49
1st. 19, 19-121, 19-122, (Vol.)	350M	RI-914	.66	72-105	.61	3E3028	.49

Philco Con't on next page

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)	R1-203	\$0.59	72-106	\$0.61	3E3002	\$0.49
30, 96, 96A, 206, 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	R1-479	.66	72-177	.64	3E3073	.56
38, (Vol.)	5000	R-1824T	1.32	74-579	.93	3E3074	.69
40, (Vol.)	20M	R1-832P	.92	72-119	.61	3E3055	.49
18, (Vol. Tone Tapped)	1750 350M + 75M	R1-232 R1-834P	.59 .92	72-118 2211900	.61 .98		
25X, 43, 43-121, 43-221, (Vol.) 44, (Vol.)	500M 350M	R1-203 R1-833P	.59 .92	72-106 62-105	.61 .83	3E3002	.49
46, 46E, (Vol.)	5000 210	R-1824T	1.32	74-579	.93	3E3074	.69
22L, 47, 47-121, 47-221, 71, 71-121, 71-221, 71-125, 71-225, 71-225B, (Vol.)	1 Meg.	R1-206	.59	51-095	.49	3E3025	.41
48, 51, 51A, 52, (Vol.) 50, 50A, (Vol.)	5000 5000 1750	R1-201 R-1823T	.59 1.32	51-076 74-55	.49 .93	3E3008	.41
53, (Vol.)	20M	R1-832P	.92	62-119	.83	3E3075	.69
54, (Vol.)	500M	R1-203	.59	72-106	.61	3E3002	.49
57, (Vol.)	20M	R1-835P	.92	62-119	.83	3E3075	.69
60, 261, (Vol.)	350M	R1-833P	.92	62-105	.83	3E3023	.49
65, (Vol.)	3000	R1-233	.59	72-108	.61	3E3026	.49
70, 70A, 70, 270A, 570, 90-2-45, 90-2-45, 470, 470A, (Vol.)	5000 210M	R-1824T R1-832P	1.32 .92	74-579 62-119	.93 .83	3E3074 3E3075	.69 .69
80, 2d, 81, (Vol.)	20M	R1-832P	.92	62-119	.83	3E3075	.69
1st, 81, (Vol.)	20M	R1-832P	.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 500M	R1-915 R1-203	.66 .59	72-106 72-106	.61 .61	3E3002	.49
90-47, 90A-47, 90E-47, 490, (Vol.)	500M	R1-203	.59	72-106	.61	3E3002	.49
90-2-47, 90A-2-47, 90X, 70-A.V.C., (Vol.)	1 Meg.	R1-203	.59	51-095	.49	3E3002	.49
95, (Vol.)	500M	R1-480	.66	24-264	.73	3E3077	.56
77, 77A, (Vol.)	5000 250	R-1735T	1.32	74-602	1.22	3E3072	1.04
20, 20A, 21, 220, (Vol.)	5000 250	R-1735T	1.32	74-579	.93	3E3072	.79
511, 521, 531, 541, 551, 561, 571, 581, (Vol.)	10M	R-1664	.53	24-016	.73	3E3076	.45
THE RADOLEK CO.							
Marvelo AC6-7, Monroe AC6-7, Keystone AC6-7, Marvelo AC8-9, Monroe AC8-9, Marvelo Trio-Dynalme 10, Marvelo Bat. 8, Monroe Bat. 8, (Vol.)	3000	R1-233	.59	72-108	.61	3E3026	.49
Marvelo 30, Little Giant 6, Trio Tone Dynamic 9, Special TRF 7, (Vol.)	6000	R1-278	.59	72-001	.98	3E3033	.49
R. C. A.—VICTOR INC.							
530, AR, VI, VII, VIII, IX, (Blue)	400	R1-274	.59	72-118	.61	3E3021	.49
R28, R28AC, R30, R30AC, R32, Borglia I & II, Cromwell, Hyperion, Tuscan, (Vol.)	375	R1-274	.59	48-400	.98	3E3131	.49
7-11, 7-26X, 9-16X, R18AC, R51AC, (Vol.)	10M	R1-401	.79	72-100	.61	3E3029	.49
7-26, (Vol.)	10M	R1-402	.79	72-100	.61	3E3029	.49
9-25, 9-55, 12-15C, 12-15X, (Vol.)	250	R1-273	.59	72-103	.61	3E3003	.49
9-40, (Vol.)	50M	R1-202	.59	72-103	.61	3E3003	.49
7-25, R17, R41AC, R41DC, R50, (Vol.)	10M	R1-401	.79	72-100	.61	3E3029	.49
C106, (Vol.)	60	R1-384	.66	48-050	.98		
9-18X, 9-54, 9-56, R64, R67, (Vol.)	1250	R1-405	.79	72-181	.73	3E3078	.62
9-54, R64, (Sens.)	2000	R1-406	.79	72-101	.61	3E3079	.49
R67, (Tone)	500M	R1-203	.59	70-203	.67	3E3002	.49
R18AC, R18DC, R33AC, R33DC, R51DC, (Vol.)	10M	R1-402	.79	72-100	.61	3E3029	.49
R4, R6, (Vol.)	4350 + 150B1	R1-383G	.79	72-110	.61		
R5, R5DC, R5X, (Vol.)	20M	R1-382	.66	72-115	.61		
R5X, (Regen. Cont.)	28M	R1-241	.55	72-100	.61	3E3005	.49
R4, R6, R8, R10, R12, R19, R23, (Tone)	50M	R1-205	.59	62-117	.83	3E3022	.49
R7, R9, R10DC, RE16A, 1st. Superette, (Vol.)	3800	R1-383G	.79	72-110	.61		
R7LW, (Vol.)	3800	R1-383G	.79	72-110	.61		
R7, R7DC, R7LW, R9, R9DC, R10DC, RE16, 1st. Superette, (Tone)	500M	R1-379	.66	72-105	.61	3E3028	.49
R7A, 2d. Superette, (Vol.)	4350	R1-383G	.79	72-110	.61		
R7DC, R9DC, (Vol.)	4500	R1-383G	.79	72-110	.61		
R8, R10, R11, R12, R18, R18A, RE19, R21, R23, R023, RAE-26, (Tapped Vol.)	3000 +10M	R1-385	.66	1210900	.73	3E3120	.62
R7A, R11, RE16A, RE18, RE-18A, R21, R023, RAE26, (Tone)	200M	R1-380P	1.05	62-121	.83		
RE20, R50, R55, RAE59, RAE-79, (Vol.)	50M	R1-413	.66	72-103	.61	3E3121	.49
RE20, R50, R55, RAE59, RAE79, (Tone)	500M	R1-379	.66	72-105	.61	3E3028	.49
RAE26, RAE79, (Phono.)	60	R1-384	.66	48-050	.98		
RAE59, (Phono.)	60	R1-681P	.92	48-050	.98		
R. C. A.—Victor—Con't on next page							

ELECTRAD Replacement Volume Controls

With Long Shafts



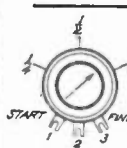
Wire wound Type up to 5,000 ohms Carbon Resistance Type over 5,000 ohms

Snap-on Switch

Underwriters approved. Converts any plain Standard Electrad control to switch type control.

3E3030 List Price, 50c.

YOUR PRICE 25¢



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	2	3	Finish
R1-204	1	1	Open	8	5	2.5	0
R1-269	1	1	0	Unif.	Unif.	Unif.	20
R1-270	1	1	0	Unif.	Unif.	Unif.	30
R1-271	1	1	0	Unif.	Unif.	Unif.	50
R1-272	17	1	0	Unif.	Unif.	Unif.	100
R1-273	17	1	0	Unif.	Unif.	Unif.	200
R1-274	9, 17, 20	1	0	Unif.	Unif.	Unif.	400
R1-282	9, 17, 20	1	0	Unif.	Unif.	Unif.	600
R1-275	9, 17, 20	1	0	Unif.	Unif.	Unif.	800
R1-276	9, 17, 20	1	0	Unif.	Unif.	Unif.	1000
R1-232	4, 9, 17, 19, 20	1	0	Unif.	Unif.	Unif.	2000
R1-233	4, 9, 19, 20	1	0	Unif.	Unif.	Unif.	3000
R1-240	4, 9, 19, 20	1	0	Unif.	Unif.	Unif.	4000
R1-234	4, 9, 19, 20	1	0	Unif.	Unif.	Unif.	5000
R1-278	4, 9, 19, 20	5	0	300	1200	2500	5000
R1-560	5, 7, 8	3	0	350	1500	3750	7500
R1-283	4, 9, 10, 11, 19, 20	1	0	Unif.	Unif.	Unif.	10,000
R1-277	5, 7, 8	3	0	20	2000	9000	10,000
R1-573	5, 7, 8	4	12M	5M	1M	200	0
R1-201	5, 7, 8	3	0	100	2M	10M	15,000
R1-279	4, 10, 11, 19, 20	1	0	Unif.	Unif.	Unif.	25,000
R1-280	4, 16	5	0	1500	6M	12,500	25,000
R1-241	2, 5, 19	2	0	800	2M	15M	30,000
R1-205	4, 19, 20	1	0	Unif.	Unif.	Unif.	50,000
R1-202	2, 3, 18	4	75M	25M	2M	200	0
R1-242	6, 12, 13, 15, 16, 21	6	0	6M	25M	50M	100,000
R1-281	14	1	0	Unif.	Unif.	Unif.	200,000
R1-208	6, 12, 13, 21	2	0	15M	60M	125M	250,000
R1-209	13, 21	6	0	2M	20M	200M	500,000
R1-206	13, 21	6	0	60M	250M	500M	1 Me

(Taper Curves on Page 63)

All above controls except R1-204 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.

24-016—List, \$1.50.

YOUR PRICE 73¢

YOUR PRICE 93¢

YOUR PRICE 49¢

YOUR PRICE 73¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢



Philco Models

20, 20A, 21, 37, 46, 46E, 70, 70A, 90 (2-45), 90A (2-45), 220, 270, 270A, 470, 470A 5000 - 250 ohm twin volume control.

74-579—List, \$1.90.

YOUR PRICE 93¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

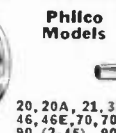
YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢



Philco Models

30, 96, 96A, 296, 296A, 111, 111A, 211, 211A, 112E, 112X, 212, 212E, 112(2-45), 112(2-47).

500,000 ohm volume control.

72-177—List, \$1.30.

YOUR PRICE 64¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢



Philco Models

20, 20A, 21, 37, 46, 46E, 70, 70A, 90 (2-45), 90A (2-45), 220, 270, 270A, 470, 470A 5000 - 250 ohm twin volume control.

74-579—List, \$1.90.

YOUR PRICE 93¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

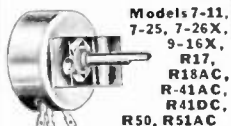
YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

YOUR PRICE 49¢

Special Replacement Controls for RCA-VICTOR-RADIOLA



**Models 7-11,
7-25, 7-26X,
9-16X,
R17,
R18AC,
R-41AC,
R41DC,
R50, R51AC**

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¢



**Victor Models
VV9-54,
VE9-54,
R64, 9-54,
R50, R51AC**

1,200 ohm volume control. RI-405—List, \$1.50.

YOUR PRICE 79¢

Radiola Models R18AC, R19B, R33AC, R33DC, R51AC, R51DC, 7-26

2,000 ohm volume control. RI-402—List, \$1.50.

YOUR PRICE 79¢



**Radiola Models
R21,
R22**

Special 50,000 ohm volume control with identical taper and electrical specifications to original part number 6049 physical appearance slightly different.

RI-403—List, \$1.50.

YOUR PRICE 73¢

RCA Victor Models R15, RE 17, R42, R48, GE-T41 Graybar GB678



**Westinghouse
Model
WR4**

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



**RCA Victor-Radiola
Models
R8, R10,
R11, R12, R18,
R18A, RE19,
R21, R23,
RO23, RAE26**

13,000 ohm volume control tapped at 3,000 ohms. Exactly replaces original part number 3092.

RI-385—List, \$1.25.

YOUR PRICE 66¢



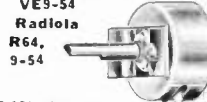
**Radiola Model
R46DC**

50,000 ohm volume control. Duplicates electrical specifications of original control.

RI-408—List, \$1.25.

YOUR PRICE 66¢

Victor Models VV9-54, VE9-54



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¢



**Radiola Models RAE68,
R80, R82,
R86**

4,000 ohm volume control complete with special wire wound shunt resistor.

RI-381G—List, \$1.50.

YOUR PRICE 79¢

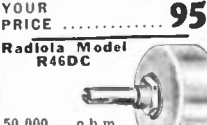


**Victor Models
RE34,
RE35,
RE37,
RE73**

Special twin volume control 50,000-1,000 ohms. Identical electrically to original Victor part 62895.

FB-336T—List, \$4.00.

PRICE \$2.10

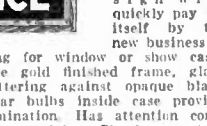


**RCA Victor Models R32,
RE45, R52, RE75, R154,
RE156**

Special twin volume control. 3,800 ohms each section. An improved type, exactly replaces the original unit and will provide smoother, more satisfactory service.

3E3081—List, \$2.50.

YOUR PRICE 95¢



**Radiola Model
R46DC**

Electric Sign



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.

Value \$5.00.
4D10735—
YOUR PRICE \$2.45

This attractive sign will quickly pay for itself by the new business it

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.)	50M	RI-205	\$0.59	72-103	\$0.61	3E3022	\$0.49
T5, RE16, RE16A, RE17, RE57, RAEP8, (Phone.)	60	RI-384	.66	48-050	.98		
R14, For 60 cy., (Vol.)	10M	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)	50M	RI-280	.59	62-111	.83		
R16, 7-10, (Vol.)	22500	RI-400	.92	48-006	.98		
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						
R47, (Tapped Vol.)	10M	FB-570T	1.59				
	1500+	RI-403	.79	72-108	.61	3E3124	
	1400						
RE34, RE35, RE39, RE57, RE73, (Tone)	2 Meg.	RG-489	.79	72-132	.61		
RI73, R80, R82, R86, (Phone.)	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.)	3500	RI-725T	1.32				
R60, R62, (Vol.)	60	RI-404	.79	72-118	.61	3E3021	.49
R66, (Vol.)	550	RI-407	.79	72-118	.61	3E3021	.49
R21, R22, (Vol.)	50M	RI-205	.59	72-103	.73	3E3022	.49
P31, (Vol.)	1 Meg.	RI-206	.59	72-116	.61	3E3025	.49
R78, (Tone Tapped Twin Vol.)	400			4220900	1.47		
R43, (Vol.)	6000+				.86		
R43, (Vol.)	30M						
R43, (Vol.)	6000+						
R43, (Vol.)	30M						
R78, RAE84, (Tone)	500M	RI-203	.59	72-105	.61	3E3002	.49
R78, RAE84, R90, (Q.A.V.C. Adj.)	4500	RI-383G	.79	72-110	.61		
R90, (Treble Tone)	200M	RI-281	.59	62-120	.83		
R90, (Base Tone)	4 Meg.			72-132	.61		
SW3, R24, R71, R72, R74, R76, R77, RE81, (Vol.)	50M	RI-205	.59	62-103	.83	3E3022	.49
R73, R75, RE80, (Vol.)	50M	RI-205	.59	72-103	.83	3E3022	.49
R73, R75, RE80, (Tone)	200M	RI-281	.59	62-121	.83		
RE80, (Phone.)	60	RI-384	.66	48-050	.98		
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-281	.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	.66	3E3004	.49
RE80, (Phone.)	60	RI-384	.66	48-050	.98		
SWA, SW10, (Vol.)	25M	RI-280	.59	70-208	.61		
R43, (Vol.)	50M	RI-205	.59	72-103	.83	3E3022	.49
R43, (Tone)	50M	RI-205	.59	62-117	.61	3E3022	.49
CE29, (Vol.)	60	RI-384	.66	48-050	.98		
CE29, (Tone)	200M	RI-281	.59	62-121	.83		
8-60, 9-40, CE29, (Phone.)	10M	RI-240	.59	72-100	.61	3E3004	.49
R32, RE45, R52, RE75, RE154, RE156, (Vol.)	3800	RI-706T	1.05	74-600	1.22	3E3146	.89
R32, R35, RE45, R52, RE75, RE135, RE154, RE156, (Tone)	3900						
E35, RE45, RE75, E135, (Phone.)	1 Meg.	RI-863	.66	72-116	.61		
R37, R38, (Tapped Vol.)	500	RI-282	.59	72-118	.61		
	500M+			1210901	.86		
R37, R38, (Tone)	500M	RI-203	.59	62-105	.83	3E3002	.49
R28, RE40, (Vol.)	3000+	RI-743PG	.92	62-108	.83		
	1000B	RI-278	.59	72-110	.61	3E3033	.49
RE40, (Phone.)	5000	RI-773	.66	72-118	.61	3E3021	.49
RE45, (Phone.)	500	RG-783PG	.92	72-108	.61	3E3124	.49
RC98, (Vol.)	3000	RG-836P	.92	72-019	.73	3E3126	.62
R100, RC100, (Vol.)	4000	RI-782PG	.92	72-109	.61	3E3123	.49
RC104, (Vol.)	4000	RI-861	.66	72-103	.61	3E3121	.49
R84, (Vol.)	35M	RI-862	.66	72-132	.61		
R7, (Vol.)	2 Meg.	RI-863	.66	72-116	.61		
SV, (Tone)	50M	RI-205	.59	72-103	.61	3E3022	.49
M30, (Vol.)	1 Meg.	RI-206	.59	72-116	.61	3E3025	.49
M32, (Vol.)	1 Meg.	RI-281	.59	62-120	.83		
M34, (Vol.)	180M						
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.							
RK4, RK14, RKPA, (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+	RI-573	.59	99-006	.83	3E3027	.49
1480, 1482, 1484, (Vol.)	1500B	RI-201	.59	70-205	.61	3E3008	.49
	15M						
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-573	.59	70-205	.61	3E3008	.49
218, 1404, 1406, 1430, (Vol.)	1500B	RI-201	.59	99-006	.83	3E3027	.49
	50M	RI-205	.59	72-117	.61	3E3022	.49
218, (Tone)							
Sears Roebuck—Con't on next page							

VOLUME CONTROL GUIDE

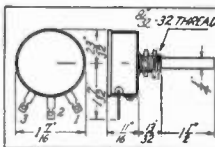
Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centrab No.	Your Price	Radolek Control Number	Your Price
SEARS ROEBUCK—Con't							
H, Mentor, (Vol.)	2000	R-1812TP	\$1.59				
110, (Vol.)	10M	RI-277	.59	62-110	\$0.83		
111, (Vol.)	4000	RI-573	.59	79-006	.61	3E3027	50.49
111A, (Vol.)	15M	RI-242	.59	72-104	.61	3E3069	.49
112, (Vol.)	100M	RI-573	.59	98-003	.98		
1620, 1622, (Fil.)	15M	RI-270	.59	48-015	.98		
1703, 7064, (Vol.)	28	RG-930P	.92	72-121	.61		
1704, 1706, 1707, 7070, 7071, 7072, (Vol.)	250M						
1705, (Vol.)	500M	RG-929P	.92	72-106	.61		
1705, (Tone)	500M	RI-925TP	1.59				
1708, 1709, 1720, 1725, 7065, (Vol.)	1 Meg.	RG-932	.66	72-116	.61		
	100M	RI-926T	1.32				
1708, 1709, 1712, 1713, 1714, 1721, 1722, 1732, (Tone)	500M	RG-928	.66	72-105	.61	3E3028	.49
1711, 7090, (Vol.)	35	RG-933	.66	48-050	.98		
1714, (Vol.)	35	RG-932	.66	72-116	.61		
1721, 1722, 1732, (Vol.)	1 Meg.	RI-924T	1.32				
1725, 1750, (Tone)	500M	RG-934P	.92	72-109	.61		
1750, (Vol.)	500M	RG-928	.66	72-106	.61		
7073, 7074, 7075, 7076, 7077, 7078, 7091, 7092, 7093, 7094, (Vol.)	500M	RG-927P	.92	72-106	.61		
SENTINEL RADIO CORP.							
8, 9, (Vol.)	12M	RI-201	.59	62-115	.83	3E3008	.49
11, 12, 15, 16, (Vol.)	10M	RI-242	.59	79-006	.61	3E3069	.49
29, 30, (Vol.)	10M	RI-242	.59	99-006	.83	3E3069	.49
103, 104, (Vol.)	10M	RI-242	.59	72-122	.61	3E3011	.49
108, (Vol.)	100M	RI-560	.59	62-114	.83		
99, 108A, 109, 110, 111, (Vol.)	7M						
108B, 117, (Vol.)	10M	RI-560	.59	72-100	.61	3E3011	.49
20, 114, 118, 261, 106B, 108, 108A, 108B, 109, 110, 114, (Tone)	50M	RI-205	.59	72-117	.61	3E3022	.49
513, (Vol.)	10M + 200B	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 + 250B	RI-201	.59	62-115	.83	3E3008	.49
614, (Vol.)	440, (Vol.)	RI-203	.59	62-105	.83	3E3002	.49
106B, 444, 660, 666C, (Vol.)	10M	RI-573	.59	62-115	.83	3E3008	.49
	10M	RI-201	.59	72-115	.61		
1020, 1030, (Vol.)	500M	RI-203	.59	62-105	.83	3E3002	.49
1020, 1030, (Tone)	30M	RI-241	.59	72-117	.61		
1020, 1030, (Q. A. V. C. Adj.)	10M	RI-240	.59	72-113	.61	3E3004	.49
K, 70, (Vol.)	500M	RI-278	.59	52-204	.83	3E3033	.49
Courier 65, (Vol.)	800	RI-275	.59	72-107	.61		
106, 666, (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-726G	.79	62-105	.83	3E3023	.49
F, 1, (Vol.)	50M	RI-205	.59	62-103	.83	3E3022	.49
H, (Vol.)	300M	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.)	800M	RI-283	.59	72-114	.61	3E3006	.49
R, (Vol.)	8350	RI-938PG	.92	62-113	.83		
32 V. P. Bat. P. Q, (Vol.)	8350	RI-935P	.92	62-113	.83		
T, W, (Vol.)	500M	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.)	50M	R-1717TP	1.59	75-543	1.47	3E3128	1.25
10, 56, (Vol.)	220M	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	72-117	.61	3E3022	.49
52, 56, (Tone)	50M	RI-205	.59	72-117	.61		
14, (Q. A. V. C. Adj.)	250M	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 DeLuxe, 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		
300, 315, 320, 340, 350, 355, (Vol.)	200M	RI-281	.59	72-131	.61		
365, 390, (Vol.)	30M	RI-241	.59	30-010	.73	3E3005	.49
2d, 41, (Vol.)	50M	RI-357	.66	70-202	.61	3E3129	.49
591, 593, (Vol.)							
546DC, 570DC, 574, 600DC, 610DC, 620DC, 737, 740DC, 750DC, (Vol.)	15M	RI-655	.66	79-006	.61	3E3130	.49
730, (Vol.)	5000	RI-774	.66	72-110	.61		
80A, 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, 320, 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-202	.59	72-118	.61	3E3003	.49
Stewart-Warner—Con't on next page							

New RADOLEK Replacement Volume Controls With Long Shafts—Insulated

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.	7	4, 9, 19, 20
10,000	3E3467	3E3467S	L. H.	5	4, 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	L. H.	3	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
200,000	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. 1717P—List, \$3.00.

YOUR PRICE **\$1.59**



Sparton Models 55, 69, 79A, 89, 99, 101, 103, 109, DeLuxe, 110, 111, 301, D. C., 591, 593, 830, 931, 931 D. C. 50,000 ohm volume control. Thin shaft type. RI-357—List, \$1.25.

YOUR PRICE..... **66c**

Sparton Models 89A, 103, 364DC, 570DC, 574, 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, 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. .00005.

A complete unit. No additional equipment necessary. Where a single power tube is used, terminals on control are connected to grid and ground. In pushpull 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 $\frac{1}{4}$ " diam. Shaft length $1\frac{1}{2}$ " including $\frac{1}{2}$ " long threaded bushing which fits $\frac{3}{8}$ " hole. Extends only $\frac{1}{8}$ " behind panel. $1\frac{1}{2}$ " diameter.

3E319—List, \$1.50. YOUR PRICE..... **42c**
TEN FOR..... **\$3.95**

Frost Wire Wound Volume Controls

Very smooth wiping contact made by high pressure self cleaning contact arm. Straight line resistance, no taper. Case $1\frac{1}{2}$ " diam., $\frac{1}{8}$ " deep, switch type 1" deep $\frac{1}{4}$ " shaft 2" long.

Rheostats—Without Switch

Ohms	Stock Num.	YOUR PRICE, Each
6	3E3300	
10	3E3301	
20	3E3302	
30	3E3303	

Potentiometers

Stock Number	Ohms	Stock Number	YOUR PRICE
Less Switch		With Switch	
3E3312	200	3E3304	
3E3313	400	3E3305	
3E3315	2000	3E3307	
3E3317	5000	3E3309	59c

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., $1\frac{1}{2}$ " depth $\frac{1}{8}$ ". Shaft $\frac{1}{4}$ " by 2" long. Single $\frac{3}{8}$ " hole mounting.

With Switch

Ohms	Stock Num.	List Ea.	YOUR PRICE
1,000	3E3345	\$1.50	
2,000	3E3346		
3,000	3E3347		
5,000	3E3348		
25,000	3E3350		
75,000	3E3352		
100,000	3E3353		
1 Meg.	3E3356		

Frost Series "2880" Controls

Carbon potentiometer type. Bakelite case. Roller type contact very smooth and quiet. Case diam. $1\frac{1}{2}$ ". $\frac{1}{4}$ " shaft 2" long.

Ohms	Less Switch	With Switch
5,000	3E3382	3E3391
25,000	3E3387	3E3394
75,000	3E3388	3E3396
100,000	3E3389	3E3397
250,000	3E3390	3E3398
500,000	3E3390	3E3399

Your Price, Each..... **55c 69c**

Special Stromberg-Carlson Controls

For Models 635, 636, 638, 10,000 ohm short shaft Vol. Control

R1-32—List, \$1.25. YOUR PRICE..... **66c**

10,000 ohm Vol. control with rear extension (Dbl. shaft) R1-1437—List \$1.00. YOUR PRICE..... **53c**

Models 641, 642, 652, 654 20,000 ohm Vol. Control with long shaft. R1-31—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-50,000 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 long threaded extended shaft. Identical electrically and mechanically to original. R-1747—List, \$1.75. YOUR PRICE..... **92c**

RADOLEK REPLACEMENT

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
STEWART-WARNER—Cont							
330, 555, (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 100M	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
R104A, R104B, R104E, (Vol.)	400M	RI-612	.66	62-105	.83	3E3022	.49
R105, 50, 59, (Vol.)	500M	RI-205	.59	72-117	.61		
R106, (Sena)	8000	RI-611P	.59	62-105	.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 + 1400M	RI-208	.59	62-105	.83	3E3012	.49
109, 1090, (Vol.)	500M	RI-203	.59	62-108	.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, R1111, R1112, R1113, R1114, R1116, R1117, R1118, R1119, (Vol.)	500M	RI-835P	.92	62-106	.83		
R112 Auto, R1121 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, R1191, R1192, R1193, (Vol.)	500M	RI-203	.59	62-106	.83	3E3002	.49
R120, R120A, 1201, (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, 638, 638, (Short Shaft) (Double Shaft)	10000	RI-32	.66	72-161	.73	3E3133	.62
641, 642, 652, 654, (Long Shaft) (Double Shaft)	20000 800	R-1437 R-1436	.56 .53	72-162 72-159	.73 .73	3E3134 3E3135	.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 +						
61, 70, (Vol.)	120B	RI-234	.59	55-004	.98	3E3032	.49
80, 25-80, 81, 25-81, 84, 25-84, 85, 25-85, (Vol.)	12M	RI-201	.59	70-006	.61	3E3008	.49
83, (Vol.)	10500	RI-283	.59	72-114	.61	3E3006	.49
90, 90A, 91, 92, 94, 94-25, 95, (Vol.)	75M	RI-202	.59	70-006	.61	3E3003	.49
90, 90A, 91, 92, (Tone)	435	RI-274	.59	62-118	.83	3E3131	.49
94, 25-94, 95, (Tone)	12M	RI-573	.59	62-113	.83	3E3027	.49
120, 121, 139, 160, 25-160 (Tone)	12M	RI-283	.59	62-114	.61	3E3006	.49
1349, (Vol.)	10500	RI-573	.59	70-205	.61	3E3027	.49
300, 320, (Vol.)	100M	RI-242	.59	62-114	.83	3E3069	.49
300, (Q. A. V. C. Adj.)	1000	RI-276	.59	62-107	.83		
420, (Vol.)	10500	RI-573	.59	306-001	.86	3E3027	.49
422, (Vol.)	500M	RI-203	.59	72-105	.61	3E3002	.49
470, (Vol.)	500M	RI-790P	.92	62-105	.83		
	20M	RI-791P	.92	62-119	.83		
	750M	RI-785	.66				
UNITED AMERICAN BOSCH CORP.							
4, AC5, 7, 7A, 7C, 20, 20J, 20K, 20L, 31, 32, Essex 4, (Vol.)	10M	RG-403P	.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	R-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. 27, 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
9, 1st. 12, 1st. 12B, 19, 1st. 12, 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							

VOLUME CONTROL GUIDE

Model Receiver	Resist. Ohms	Electrad Number	Your Price	Centralab No.	Your Price	Radolek Control Number	Your Price
U. S. RADIO—Con't							
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	.83		
29, (Vol.)	8000	RI-560	.59	79-006	.61	3E3011	.49
31, 31 Remote, (Vol.)	8000	RI-560	.59	52-205	.83	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)	500M	RI-205	.59	72-117	.61	3E3022	.49
1010, (Vol.)	500M	RI-203	.59	62-105	.83	3E3002	.49
1010, (Tone)	250M	RI-208	.59	72-121	.61	3E3012	.49
WELLS GARDNER							
WG24, 291, CG, 9 in Line (new) (Vol.)	{ 15M 100M 1500M			74-509	1.47	3E3141	.73
9 in Line (old)		RI-232	.59	78-005	.98	3E3142	.49
ZENITH RADIO CORP.							
ZE3, (Vol.)	1000	RI-276	.59	72-107	.61		
35APX, 35PX, 37A, 341, 342, 342P, 352, 352A, 352APX, 352-PX, 362, 362X, (Vol.)	100M	RI-205	.59	62-104	.83	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		
62, 63, 64, 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	62-104	.83		
602, 612, 622, 642, 672, (Vol.)	100M	RI-205	.59	62-104	.83	3E3022	.49
70, 71, 72, 73, 77, 712, 722, 732, 777, (Vol.)	{ 11500 110M	R-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		
103, 2014, (Tone)	500M	RI-206	.59	70-203	.61	3E3025	.49
AH, CH, RH, Zenette 8, (Vol.)	10M	RI-729P	.92	52-105	.83		
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	.83	3E3027	.49
LF, MH, WH, 210, 210-5, 211-5, 220, 221, 250, 260, 270-5, 272, 2020, 2021, 2022, 2023, 2024, 2031, (Tone)	10M	RI-201	.59	52-205	.83	3E3008	.49
2022, 2024, 2031, (Vol.)	10M	RI-573	.59	52-205	.83	3E3027	.49
LP, 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	.83	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	.83	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, 516, 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 + 50M	RI-385	.66				
563D, 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 Zenette, (Vol.)	2000	RI-232	.59	72-101	.61	3E3055	.49
2044, 2053, 2054, (Vol.)	500M	RI-946P	.92	62-105	.83		
2052, (Vol.)	500M	RI-947P	.92	62-105	.83		
A5D, 1.6D, 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
3C3413	6	3C3403	3
3C3414	10	3C3404	6
3C3415	15	3C3405	10
3C3416	20	3C3406	15
3C3417	200	3C3410	40
		3C3411	50
		3C3412	75

List, Each 50c.

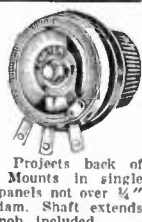
YOUR PRICE 28¢

List Price, 50c.

YOUR PRICE 28¢

Type M Dissipate 1 Watt

Rheostat
Diam. 1-
1/2". Potentiometer
diam. 1 1/2". Projects back of panel 1/4". Mounts in single "hole on panels not over 1/4" thick. 1/4" diam. Shaft extends 1 1/2". No knob included.



World Radio History

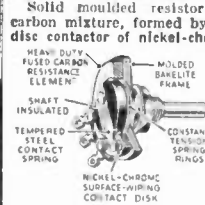
RADOLEK Heavy Duty Replacement Volume Controls

New Fused Carbon Resistance

Carries 5 Watts at Any Setting

Used by leading Set Manufacturers. Especially adapted for use in circuits where current dissipation is sufficiently heavy to break down 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 contactor of nickel-chrome steel provides perfect low resistance contact to elements. Dustproof rustless steel housing on genuine bakelite frame. Timed soldering lugs. Dimensions: diameter, 1 1/2", depth back of panel, 3/4". Single "hole mounting. Threaded shaft 3/8". Standard 1/4" steel shaft 3" long.



approved AC snap switch cover-plate. Switch capacity 2 Amp, 125 V., 1/2 Amp, 250 V.

Less Switch

List, \$1.75.

YOUR PRICE .. 42c

With Switch

List, \$2.25.

YOUR PRICE ... 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
500	3E-3501	3E-3521	Unif.	1	9, 17, 20
1,000	3E-3502	3E-3522	Unif.	1	9, 17, 20
5,000	3E-3503	3E-3523	Unif.	1	4, 9, 19, 20
10,000	3E-3504	3E-3524	R. 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
240,000	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", 1/4" shaft, 2" long. Single 3/8" mtg. Without Switch.

Stock Number	Panel Unit Ohms	Second Unit Ohms
3E-3331	10,000	50,000
3E-3332	10,000	25,000

YOUR PRICE, EACH

79¢

3E-3331

3E-3332

3E-3333

3E-3334

3E-3335

3E-3336

3E-3337

3E-3338

3E-3339

3E-3340

3E-3341

3E-3342

3E-3343

3E-3344

3E-3345

3E-3346

3E-3347

3E-3348

3E-3349

3E-3350

3E-3351

3E-3352

3E-3353

3E-3354

3E-3355

3E-3356

3E-3357

3E-3358

3E-3359

Centralab Volume Controls

Special value. 3000 ohm Radi-ohm two terminal type. Case 2 1/2" diam., 1/4" shaft 1 inch long. Single 3/8" mtg. 3E3095—YOUR PRICE..... 18¢

Frost Potentiometer

12,500 ohm. Roller contact. Carbon element. Diam. 1 1/2", depth 1 1/2", 1/4" shaft 1/2 in. long. Single 3/8" mtg. 3E3098—Your Price 39¢

Special Kennedy Dual Control Models 12 S G and 20 (Above Serial 15,000) and Late Model 20B

Exact Control 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..... 49¢

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. 92¢

Special Zenith Controls For Models 52, 53, 54, 55, 56, 57, 60, 61, 62, 64, 67, 522, 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..... 92¢

Zenith Models 70, 71, 72, 73, 77, 712, 722, 732, 777

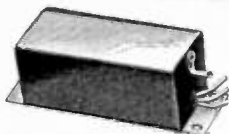
Improved dual volume control 11,500 ohms. 110,000 ohms. Same electrical characteristics as original unit—designed to give improved service. RI-1434TP—List, \$3.00. YOUR PRICE..... \$1.59

YOUR PRICE..... \$1.59

YOUR PRICE..... \$1.59

YOUR PRICE..... \$1.59

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"x1 1/2" with mounting flange. 3 leads, 2 lugs.
3E9012—List, \$3.10. \$1.82
YOUR PRICE

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. 4 mfd., 150 V.; 4 mfd., 450 v. Cardboard container with mounting tabs. 3"x1 1/2"x1 1/2".

Part Num. 6518, for Victor Models 22W, 22S; G-E Models L50, L51

3E9014—
List, \$1.55
Your Price
\$1.03

Six inch flexible leads, color coded same as original. 8 mfd., 250 V.; Cardboard container with mounting tab. 3"x1 1/2"x1 1/2".

Part Num. 6511 RCA Victor 22W, 22S G-E Models L50, L51
3E9015—List, \$1.60. \$1.23
YOUR PRICE

10-8 mfd. 35 v., 4 mfd. 250 v. Cardboard container 3"x1 1/2"x1 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
\$1.03

4-4 mfd. 140 volts. Tubular cardboard container. 2 1/2"x1 in. Bare flexible leads.

Part Num. 6513 (old Num. 3536) RCA Victor 17M, 18W, 27 General Electric K40A.
3E9017—List, 75c. \$1.03
YOUR PRICE

5-5 mfd. 35 volts. Tubular cardboard container, 2 1/2"x1 in. Bare flexible leads.

Part Num. 66143, for RCA Victor Model R28P

3E9018—
List, 90c.
Your Price
\$1.03

4 mfd. 150 v. 4 mfd. 300 v. Cardboard container, 3"x1 1/2"x1 1/2" in. with mounting tabs. Lug terminals.

RCA Victor Part Num. 10711
3E9019—List 95c. \$1.03
YOUR PRICE

4-4 mfd., 250 v. Rectangular cardboard container. 2"x1 1/2"x1 1/2".

RCA Victor Part Num. 66140
3E9020—List, \$1.55. \$1.23
YOUR PRICE

4-4 mfd., 175 v. w. Tubular cardboard container, 1 1/2"x3/4" 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
5-5 mfd. 35 v. w. Tubular cardboard container 1 1/2"x2 1/2" in. long. Flexible bare wire leads.

3E9021—List Price, \$1.15. \$1.03
YOUR PRICE

Gillfilian Part Num. 10267

3E9031—
List, \$1.35.
Your Price
\$1.03

16-8 mfd. 150 working volts. Cardboard container with mounting tabs. 1 1/2"x1 inch.

Part Num. A407, for International Kadette Standard Model
3E9022—
List, \$1.00.
Your Price
\$1.03

4-4 mfd., 175 v. Cardboard container 3"x1 1/2"x1 1/2" in. Color coded insulated flexible wire leads.

Part Num. A408, for Kadette Standard Model

3E9023—
List, 75c.
Your Price
\$1.03

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"x1 1/2"x1 in. Color coded flexible insulated leads.

Kadette Part Num. 10627

3-3 mfd. 100 v. w. 3 mfd. 15 v. w. Cardboard container 2 1/2"x1 1/2" in. Color coded flexible insulated 12" leads.

3E9025—List Price, 95c. \$1.03
YOUR PRICE

International Kadette Part Num. A427

3E9026—List Price, \$1.20. \$1.03
YOUR PRICE

3.5—3.5 mfd. 100 v.; 3.5 mfd. 25 v. Cardboard container 2 1/2"x1 1/2" in. Four color coded 5 inch flexible insulated wire leads.

Part Num. HC31 for Emerson Models 20A, 25, 25A.

3E9027—
List, \$1.00.
Your Price
\$1.03

4-4 mfd. 200 volts. Cardboard container with single mounting tab. Three flexible insulated wire leads color coded.

Part Num. HC32 for Emerson Models 20A, 25, 25A

5-5 mfd. 35 volts. Cardboard container with single mounting tab. Three insulated flexible leads, color coded.

3E9028—List, 75c. \$1.03
YOUR PRICE

Part Num. KC68 for Emerson Model 250W

4-8-16 mfd.—175 volts.
3E9035—List, \$1.80. \$1.06
YOUR PRICE

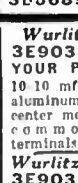
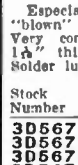
Colonial Model R9150
3E9029—
List, \$2.35.
Your Price
\$1.38

8-8-8 mfd. 200 working volts. Exact duplicate of the original with high peak rating for greater safety.

Moisture proof cardboard container 4x3 1/2"x1 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
\$1.03

16 mfd. 150 working volts. Tubular cardboard container 3"x1 inch with center strap mounting. Seven inch insulated flexible leads each end.



MALLORY ELKON

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 terminals grounded to can. Standard container size 4 1/2"x1 1/2" for all capacities. Inverted types furnished with lugs or 6" leads, mounted in 3/4" hole. D. C. working voltage 450 V.

(A)	(B)	(C)			
Stock Number	Stock Number	Stock Number	Cap. Mfd.	List Price	Your Price
305640	305644	305648	4	\$0.85	\$0.50
305641	305645	305649	6	1.00	.59
305642	305646	305650	8	1.05	.62
305643	305647	305651	12	1.40	.82

Multiple Section Filters

Working Voltage 450 V. D. C.

Round Aluminum Containers

Binding post and lug connections for positive. Container is common negative. All are 4 1/2" high. 8-8 size is 2 1/2" diam. All others are 3" diam.

Stock Number	Capac. Mfd.	List Price	Your Price
305652	4-4	\$1.30	\$0.76
305653	8-8	1.60	.94
305654	8-8-8	2.70	1.59
305655	9-9-18	3.75	2.20
305656	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 1/2" long. Solder lug connections.

Stock Number	Cap. Mfd.	Working Volts D. C.	Your Price Each
305671	5	450	29c
305672	10	450	32c
305673	20	450	38c
305674	40	200	38c
305675	80	150	44c
305676	80	200	47c
305677	100	100	41c
305678	250	50	47c
305679	100	25	29c
305680	200	25	35c

Rectangular Metal Containers

Six inch, color coded, flexible wire leads for each section.

Flanges for convenient easy mounting. All are 4 1/2" high and 1 1/2" deep.

Stock Number	Capac. Mfd.	Width	Your Price
305658	4-8	1 1/2"	\$0.97
305659	8-8	1 1/2"	1.09
305660	4-4-4	2 1/2"	1.24
305661	8-8-8	2 1/2"	1.59

Dry Electrolytic Filter Condensers Cardboard Containers Working Voltage 450 Volts D. C.

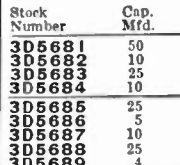


Length of single units 4 1/2" by 1 1/2" wide. Dual units 4 1/2" long by 1 1/2" wide. Six inch, color coded, flexible insulated wire leads.

Stock Number	Cap. Mfd.	Container Depth	Your Price Each
305662	2	1 1/2"	38c
305663	4	1 1/2"	44c
305664	6	1 1/2"	53c
305665	8	1 1/2"	56c
305666	4-4	1 1/2"	70c
305667	4-8	1 1/2"	79c
305668	6-8	2	85c
305669	8-8	2	88c

Tubular By-Pass Condensers In Cardboard Tubes

Replacement cartridge type dry electrolytic condensers. Sealed with special wax to withstand high temperature. 2 inch tinmed leads will not pull out. Length 2 1/2". Diameter 3/4" to 1 1/4".



Stock Number	Cap. Mfd.	Volts D. C.	Your Price
305681	50	5	44c
305682	10	25	29c
305683	25	25	38c
305684	10	50	38c
305685	25	50	47c
305686	5	100	32c
305687	10	100	41c
305688	25	100	56c
305689	4	150	35c

Wurlitzer Part Num. 11007

3E9032—
YOUR PRICE ... **\$1.03**

10-10 mfd. 25 W. Round aluminum container with center mounting stud. Case common negative. Lug terminals. Container 1 1/2"x1 1/2".

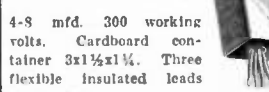
Wurlitzer Part 10656
3E9033—
YOUR PRICE ... **\$1.12**

12-16 mfd. 150 v. w. 10 mfd. 25 v. w. Cardboard container 2 1/2"x1 1/2"x1 1/2". Four flexible insulated leads.

Lyric Part No. 10678PE

3E9034—List, \$1.25. \$1.03
YOUR PRICE

4-8 mfd. 300 working volts. Cardboard container 3 1/2"x1 1/2". 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 1/2"x2 1/4" List. 85c.

YOUR PRICE **40¢**

3E5703—8 Mfd. Can size 1 1/2"x4 1/4" List. \$1.05.

YOUR PRICE **47¢**

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. 1-5/16"x4 1/4"x5/8" List. 75c.

YOUR PRICE... **35¢**

3E5762—8 Mfd. Case 1 1/2"x4 1/4"x1" List. 95c.

YOUR PRICE... **42¢**

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.

Cap. Mfd. at Anodes	Container Size Inches	Stock Number	Your Price
8-8	2 1/2"x4 1/4"	3E5740	\$0.87
5-15	2 1/2"x4 1/4"	3E5742	1.10
8-8-8	3"x4 1/4"	3E5744	1.29
9-9-18	3"x4 1/4"	3E5745	1.79

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 1/4"x1 1/2"x3/4"	3E5756	.75	.35	3.30
6	4 1/4"x1 1/2"x3/4"	3E5757	.90	.39	3.70
8	4 1/4"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 1/4"x1 1/2"x3/4"	3E5760	.75	.35	3.30
6	4 1/4"x1 1/2"x3/4"	3E5761	.90	.39	3.70
8	4 1/4"x1 1/2"x3/4"	3E5762	.95	.42	3.95
12	4 1/4"x1 1/2"x1 1/4"	3E5763	1.40	.62	5.90

Dual and Triple Dry Electrolytic Condensers

In Tab Type Fibreboard Cases. 400 D.C. Wkg. V., 500 V. Peak

Moisture proof fibreboard containers with tabs on each end, 6 inch leads.

Cap. Mfd.	Polarity of Leads	Depth Container	Stock Number	List Price	Your Price	Ten For
4-4	1N-2P	4 1/4"x1 1/2"x1 1/4"	3E5765	\$1.20	\$0.53	\$4.95
4-4	2N-1P	4 1/4"x1 1/2"x1 1/4"	3E5766	1.20	.53	4.95
6-6	1N-1P	4 1/4"x1 1/2"x1 1/4"	3E5767	1.35	.63	5.95
6-6	2N-1P	4 1/4"x1 1/2"x1 1/4"	3E5768	1.35	.63	5.95
8-4	1N-2P	4 1/4"x1 1/2"x1 1/4"	3E5769	1.35	.65	6.10
8-4	2N-1P	4 1/4"x1 1/2"x1 1/4"	3E5770	1.35	.65	6.10
8-8	1N-2P	4 1/4"x1 1/2"x1 1/4"	3E5771	1.50	.72	6.95
8-8	2N-1P	4 1/4"x1 1/2"x1 1/4"	3E5772	1.50	.72	6.95
8-8	2N-2P	4 1/4"x1 1/2"x1 1/4"	3E5773	1.50	.72	6.95
4-4-4	3N-3P	4 1/4"x2 1/2"x1 1/4"	3E5774	1.50	.85	7.95
8-8-8	3N-3P	4 1/4"x2 1/2"x1 1/4"	3E5775	1.90	1.05	10.50
9-9-18	3N-3P	4 1/4"x2 1/2"x1 1/4"	3E5776	2.70	1.55	14.40

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 1/4"x1 1/2"x1 1/4"	3E5780	\$1.30	\$0.67	\$6.35
4-6	10	4 1/4"x1 1/2"x1 1/4"	3E5781	1.40	.72	6.80
6-6	12	4 1/4"x1 1/2"x1 1/4"	3E5782	1.45	.77	7.30
6-6	12	4 1/4"x1 1/2"x1 1/4"	3E5783	1.55	.79	7.45
6-8	14	4 1/4"x1 1/2"x1 1/4"	3E5784	1.60	.82	7.75
8-8	16	4 1/4"x1 1/2"x1 1/4"	3E5785	1.60	.87	8.25
4-4-4	12	4 1/4"x2 1/2"x1 1/4"	3E5786	2.55	.95	8.95
6-6-6	18	4 1/4"x2 1/2"x1 1/4"	3E5787	2.65	1.15	10.90
8-8-8	24	4 1/4"x2 1/2"x1 1/4"	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 3/4" hole mounting. Container negative.

Cap. Mfd.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
4	1 1/2"x2 1/4"	3E5720	\$1.05	\$0.44	\$4.15
6	1 1/2"x3 1/4"	3E5721	1.20	.53	4.70
8	1 1/2"x3 1/4"	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 25Z5 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 1/4"x1 1/2"x1 1/4"	3E5789	\$1.35	\$0.67	\$6.36
12-12	4 1/4"x1 1/2"x1 1/4"	3E5790	1.45	.72	8.07
16-16	4 1/4"x1 1/2"x1 1/4"	3E5791	1.65	.85	8.30

Aluminum Case Inverted Stud Mounting

Case Negative—450 D.C. Working Volts—500 D.C. Volts Peak
Hermetically sealed. Unaffected by temperature. For single 3/4" hole mounting. Anode projects through threaded insulated terminal.

Cap. Mfd.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
2	1 1/2"x2 1/4"	3E5705	\$0.75	\$0.35	\$3.39
4	1 1/2"x2 1/4"	3E5706	.85	.39	3.85
6	1 1/2"x4 1/4"	3E5707	1.00	.45	4.27
8	1 1/2"x4 1/4"	3E5708	1.05	.47	4.47
12	1 1/2"x4 1/4"	3E5709	1.60	.67	6.40

Dual Sections—Container Common Negative

Two Positive lug terminals project from insulated nipple.

Cap. Mfd. at Anodes	Total Cap.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
4-4	8	1 1/2"x4 1/4"	3E5710	\$1.30	\$0.60	\$5.75
6-6	12	1 1/2"x4 1/4"	3E5711	1.55	.73	6.95
8-8	16	2 1/2"x4 1/4"	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 3/4" hole Mtg. Locknut for clamping to chassis.

Cap. Mfd.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
2	1 1/2"x2 1/4"	3E5700	\$0.75	\$0.36	\$3.45
4	1 1/2"x2 1/4"	3E5701	.85	.40	3.85
6	1 1/2"x4 1/4"	3E5702	1.00	.46	4.35
8	1 1/2"x4 1/4"	3E5703	1.05	.47	4.47
12	1 1/2"x4 1/4"	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 1/2"x4 1/4"	3E5713	\$1.30	\$0.62	\$5.90
6-6	12	1 1/2"x4 1/4"	3E5714	1.55	.75	7.15
8-8	16	2 1/2"x4 1/4"	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
Container Negative

For use where mounting space is limited. The one-inch diameter containers will fit most midge 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	1 1/2"x2 1/4"	3E5716	\$0.75	\$0.35	\$3.39
4	1 1/2"x2 1/4"	3E5717	.85	.40	3.85
6	1 1/2"x4 1/4"	3E5718	1.00	.46	4.35
8	1 1/2"x4 1/4"	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 1/2"x3/4"	3E5730	\$0.60	\$0.25	\$2.34
5	50	75	1 1/2"x3/4"	3E5731	.65	.29	2.72
10	25	35	1 1/2"x1 1/4"	3E5732	.70	.29	2.72
10	50	75	1 1/2"x1 1/4"	3E5733	.80	.31	2.90
20	25	35	1 1/2"x1 1/4"	3E5734	.95	.35	3.29
20	30	50	1 1/2"x1 1/4"	3E5735	1.05	.41	3.85
30	30	50	1 1/2"x1 1/4"	3E5736	1.20	.45	4.20

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 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5723	\$0.85	\$0.39	\$3.70
4	1N-1P	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5724	.95	.44	4.17
8	1N-1P	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5725	1.25	.51	4.85
4-4	1N-2P	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5726	1.50	.64	6.12
8-8	1N-2P	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5727	1.63	.77	7.30
4-8	1N-2P	2 $\frac{1}{4}$ x 1	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 tinned 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 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5749	\$0.75	32c	\$3.04
4	1N-1P	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5750	.85	39c	3.70
8	1N-1P	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5751	1.50	.45c	4.33
4-4	1N-2P	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5752	1.30	57c	5.45
4-8	1N-2P	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5753	1.45	.69c	6.62
8-8	1N-2P	2 $\frac{1}{4}$ x 1	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 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5737	\$0.85	\$0.39	\$ 3.77
8	8	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5738	1.05	.47	4.47
12	12	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5739	1.60	.72	6.80

Dual Sections

8-8	16	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$	3E5740	1.80	.87	8.25
9-9	18	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$	3E5741	2.00	1.05	9.95
5-15	20	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$	3E5742	2.30	1.10	10.40

Triple Sections

2-4-8	14	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5743	2.90	1.05	9.95
8-8-8	24	3 $\frac{1}{4}$ x 1	3E5744	2.70	1.29	12.15
9-9-18	36	3 $\frac{1}{4}$ x 1	3E5745	3.75	1.79	16.90

Quadruple Sections

8-8-8-8	32	3 $\frac{1}{4}$ x 1	3E5746	3.60	1.65	15.65
8-8-18-18	52	3 $\frac{1}{4}$ x 1	3E5747	4.75	2.49	23.60
9-9-18-18	54	3 $\frac{1}{4}$ x 1	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 $\frac{1}{4}$ x $\frac{1}{2}$	3E5792	\$0.45	\$0.16	\$1.50
0.5	400	500	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5793	.55	.19	1.82
1	300	400	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5794	.50	.24	2.20
1	400	500	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5795	.55	.27	2.57
2	400	500	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5796	.65	.31	2.95
2	500	600	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5797	.75	.34	3.19
4	400	500	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5798	.75	.35	3.34
1	200	250	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5799	.50	.22	2.10
2	200	250	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5800	.55	.24	2.28
2	125	175	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5801	.70	.22	1.95
4	125	175	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5802	.60	.24	2.20
6	125	175	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5803	.70	.29	2.76
8	125	175	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5804	.75	.31	2.95
10	125	175	1 $\frac{1}{4}$ x $\frac{1}{2}$	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 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	3E5860	\$0.65	\$0.23	\$2.15
4	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	3E5861	.75	.26	2.50
8	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	3E5862	.95	.30	2.90
4-4	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	3E5863	1.20	.47	4.45
8-8	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	3E5864	1.50	.55	5.25
8-8-8	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	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 $\frac{1}{2}$ x 1 $\frac{1}{2}$	3E5806	\$0.95	\$0.45	\$4.25
50	75	100	2 $\frac{1}{4}$ x 1	3E5807	1.35	.59	5.60
5	50	75	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5808	.50	.24	2.20
10	50	75	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5809	.65	.26	2.40
25	50	75	1 $\frac{1}{4}$ x $\frac{1}{2}$	3E5810	.80	.36	3.30
50	50	75	2 $\frac{1}{4}$ x 1	3E5811	1.20	.49	4.65
4	25	35	1 $\frac{1}{4}$ x 2	3E5812	.45	.19	1.80
5	25	35	1 $\frac{1}{4}$ x 2	3E5813	.50	.21	1.95
10	25	35	1 $\frac{1}{4}$ x 2	3E5814	.55	.23	2.15
15	25	35	1 $\frac{1}{4}$ x 2	3E5815	.60	.25	2.35
20	25	35	1 $\frac{1}{4}$ x 2	3E5816	.65	.27	2.56
25	25	35	1 $\frac{1}{4}$ x 2	3E5817	.70	.29	2.72
50	25	35	1 $\frac{1}{4}$ x 2	3E5818	.95	.42	3.98

Compact Dry Electrolytics

In Fibreboard Cases

450 D.C. Working Volts—500 Volts 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 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	3E5820	\$0.80	\$0.22	\$2.10
1	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	3E5821	.85	.26	2.45
2	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	3E5822	.95	.29	2.75
4	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	3E5823	1.15	.35	3.30
8	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	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 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5825	\$0.85	\$0.44	\$4.15
4-4	200	2N-1P	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5826	.85	.44	4.15
5-8	200	1N-2P	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5827	1.10	.51	4.80
8-8	200	1N-2P	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5828	1.25	.63	5.97
8-8	200	2N-2P	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5829	1.25	.63	5.97
12-4	200	1N-2P	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5830	1.15	.59	5.62
12-8	200	1N-2P	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5831	1.25	.65	6.23
16-8	200	1N-2P	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5832	1.50	.72	6.95
4-4	35	1N-2P	1 $\frac{1}{4}$ x $\frac{1}{2}$ x 1 $\frac{1}{2}$	3E5833	.75	.27	2.52
5-5	35	1N-2P	1 $\frac{1}{4}$ x $\frac{1}{2}$ x 1 $\frac{1}{2}$	3E5834	.80	.29	2.75
4-8	35	1N-2P	1 $\frac{1}{4}$ x $\frac{1}{2}$ x 1 $\frac{1}{2}$	3E5835	.85	.31	3.11
8-8	35	1N-2P	1 $\frac{1}{4}$ x $\frac{1}{2}$ x 1 $\frac{1}{2}$	3E5836	.90	.47	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 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5837	\$0.85	\$0.27	\$2.52
5-5	200	1N-2P	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5838	.90	.47	4.44
8-8	200	1N-2P	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5839	.95	.51	4.80
8-8	200	1N-2P	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	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 tinned for easy soldering. Single units have one positive, one negative lead each end; dual sections have common 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	1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5841	\$0.65	\$0.29	\$2.78
6	1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5842	.70	.33	3.15
8	1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5843	.80	.37	3.53
4-4	1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5844	.90	.44	4.15
4-8	1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5845	1.15	.56	5.30
8-8	1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3E5846	1.25	.62	5.94



Special Dry Electrolytic Replacements

Aluminum Containers—450 D.C. Working Volts

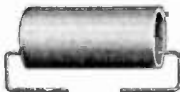
First quality condensers offered at a special low price. Conservatively rated and well-made but not quite equal to Keystone standards. Container negative. Single units have lug terminal, dual sections have six inch flexible insulated leads. For single $\frac{1}{2}$ inch hole mounting. Large locknut clamps unit securely to chassis base.

Cap. Mfd.	Container Size Inches	Stock Number	List Price	Your Price	Ten For
2	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5855	\$0.65	\$0.29	\$2.75
4	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5856	.75	.33	3.15
8	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5857	.95	.37	3.55
4-4	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$	3E5858	1.20	.54	5.10
8-8	2 $\frac{1}{4}$ x 1	3E5859	1.50	.69	6.60



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 cans. 1 1/2 inch tin lead, securely anchored. Approx. 2" long, 3/4" to 1 1/4" Diam.

400 Volts D. C. Working Volts	Cap. Mfd.	Stock Num.	600 Volts D. C. Working Volts	Cap. Mfd.	Stock Num.	Your Price
3D5400	.0001	3D5425	3D5400	.0001	3D5425	8c
3D5401	.0002	3D5426	3D5401	.0002	3D5426	8c
3D5402	.00025	3D5427	3D5402	.00025	3D5427	8c
3D5403	.0005	3D5428	3D5403	.0005	3D5428	8c
3D5404	.001	3D5429	3D5404	.001	3D5429	8c
3D5405	.002	3D5430	3D5405	.002	3D5430	8c
3D5406	.003	3D5431	3D5406	.003	3D5431	8c
3D5407	.004	3D5432	3D5407	.004	3D5432	8c
3D5408	.005	3D5433	3D5408	.005	3D5433	8c
3D5409	.006	3D5434	3D5409	.006	3D5434	8c
3D5410	.007	3D5435	3D5410	.007	3D5435	8c
3D5411	.008	3D5436	3D5411	.008	3D5436	8c
3D5412	.01	3D5437	3D5412	.01	3D5437	8c
3D5413	.02	3D5438	3D5413	.02	3D5438	8c
3D5414	.03	3D5439	3D5414	.03	3D5439	8c
3D5415	.04	3D5440	3D5415	.04	3D5440	8c
3D5416	.05	3D5441	3D5416	.05	3D5441	8c
3D5417	.06	3D5442	3D5417	.06	3D5442	8c
3D5418	.07	3D5443	3D5418	.07	3D5443	8c
3D5419	.08	3D5444	3D5419	.08	3D5444	8c
3D5420	.1	3D5445	3D5420	.1	3D5445	8c
3D5421	.2	3D5446	3D5421	.2	3D5446	8c
3D5422	.25	3D5447	3D5422	.25	3D5447	8c
3D5423	.3	3D5448	3D5423	.3	3D5448	8c
3D5424	.5	3D5449	3D5424	.5	3D5449	8c

Multiple Tubular Condensers



Metal Foil and Linen Paper
Paraffin impregnated, hermetically sealed in fibre cans. One continuous non-inductive winding; each section remains non-inductive. 1 1/2" bare wire common leads, 4" insulated stranded wire section leads.

400 D.C. Working Voltage				
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	21c	
3E5462	1 1/2 x 1 1/2	1-1	19c	
3E5463	1 1/2 x 2	1-1-1	26c	
3E5464	1 3/4 x 2	1-1-1-1	34c	
3E5465	1 3/4 x 2 1/2	1-1-1-1-1	41c	
3E5466	1 3/4 x 2 1/2	25-25	26c	

600 D.C. Working Voltage				
Stock Number	Container Size	Cap. Mfd. Each Sec.	Price Each	
3E5470	1 3 x 9 16	01-01	21c	
3E5471	1 3 x 15 16	01-01-01	26c	
3E5472	2 3 x 15 16	1-1-1	24c	
3E5473	2 3 x 15 16	1-1-1-1	34c	
3E5474	2 3 x 15 16	1-1-1-1-1	41c	
3E5475	2 3 x 1 16	1-1-1-1-1-1	51c	
3E5476	2 3 x 1 16	25-25	34c	

Special Value By-Pass and Filter Condensers

300 V. D.C. working voltage. Metal can is 1 1/2 in. wide, 2 1/2 in. high, 3/4 in. deep. Three mounting hole centers 1 1/2 x 2 1/2 in. Solder lug terminals are pierced, making wiring and soldering easy.

3E5490—
PRICE, EACH **19c**
Lots of 10.....\$1.75

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 3/4 x 1 1/2 inches.

Stock Number	Cap. Mfd.	D.C. Working Volts	Your Price
3E5206	.05	400	14c
3E5207	.1	400	15c
3E5201	.25	400	19c
3E5202	.5	400	22c
3E5207	.05	600	19c
3E5203	.1	600	20c
3E5204	.25	600	22c
3E5205	.5	600	32c
3E5208	.1	1000	29c



By-Pass Condensers Lugs from End

Non-Inductive "paper" Condensers sealed in metal cans. Size 1 1/2 x 2 inches.

Stock Number	Cap. Mfd.	D.C. Working Voltage	Your Price
3E5210	.1	400	30c
3E5217	.2	400	49c
3E5211	.5	400	32c
3E5212	.25	600	22c
3E5213	.5	600	31c
3E5214	.1	600	44c
3E5218	.2	600	72c

*Note—Supplied in size 2"x1"x2" cans.

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 1/2 x 3/4 x 2 inches.

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 sealed in metal cans. Small size, convenient for mounting in practically all sets. Size 1 1/2 x 1 1/4". Mtg. Centers 2 1/2".

Stock Number	Cap. Mfd.	D.C. Working Voltage	Your Price
3E5241	.1-1	400	26c
3E5242	.1-1	600	31c

Combination By-Pass Condensers

Non-inductive "paper" condensers in metal cans. Size 3/4 x 1 1/2 x 2 inches. Mtg. centers 1 1/2 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
3E5240	.1-1-1-1	400	52c
3E5232	.25-25	400	32c
3E5233	.25-25-25	400	49c
3E5234	.5-5	400	39c
3E5235	.1-1	600	37c
3E5236	.1-1-1	600	42c
3E5237	.25-25	600	38c
3E5238	.25-25-25	600	49c
3E5239	.5-5	600	52c

Potter By-Pass Condensers



Metal Case By-Pass with Lugs

Compact, non-inductive units in metal cans. Designed to permit large capacities and high voltages in a minimum space. High resistance paper dielectric, chemically impregnated. Size of can 3/4 x 1 1/2 inches. Mounting centers, 2 1/2 inches.

Stock Num.	Code Num.	Cap. Mfd.	D. C. Volt.	Your Price
3E5030	A-401	.25	400	24c
3E5031	A-402	.5	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 1/2 x 3/4 x 2 inches. Mtg. Holes centers 1 1/2 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-402	.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 A. Size: 1 1/2 x 3/4 x 2 inches (same size as Crosley RF by-pass condensers). Mtg. centers 2 1/2 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

Cub Condensers



New, improved fibre casing, having metal ferrules which seal the ends of the condenser. Non-Inductive.

Stock Number	Cap. Mfd.	Volts	Your Price
3E5500	.0001	600	EACH
3E5501	.00025	600	12c
3E5502	.0005	600	12c
3E5503	.001	600	12c
3E5504	.002	600	12c
3E5505	.004	600	12c

Stock Number	Cap. Mfd.	Volts	Your Price
3E5506	.006	600	TEN FOR
3E5507	.0075	600	12c
3E5509	.01	600	15c
3E5510	.02	600	15c
3E5511	.06	400	20c

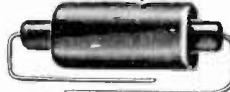
Stock Number	Cap. Mfd.	Working Volts	Your Price
3E5512	.1	200	12c
3E5513	.1	400	15c
3E5514	.25	200	15c
3E5515	.25	400	20c
3E5516	.5	200	20c
3E5517	.5	400	25c
3E5518	.1	200	30c
3E5519	.1	400	37c

CUB Combination By-Pass Condensers



Stock Number	Cap. Mfd.	Working Volts	Your Price
3E5525	.1-1	200	25c
3E5521	.25-25	200	37c
3E5520	.01-01	400	20c
3E5522	.05-.05	400	25c
3E5526	.1-1	400	28c
3E5527	.2-2	400	35c
3E5523	.25-25	400	42c
3E5524	.1-1	600	32c

Master By-Pass



Easily wired in circuit. 2-inch securely anchored tin lead. Covered with a tough durable "rubber wax" insulation. Moisture proof. 1 1/2" to 2 1/4" Long. 3/4" to 1 1/4" Diam.

Stock Number	Capacity Mfd.	D. C. Working Voltage	Your Price
3D5000	.001	400	12c
3D5001	.002	400	EACH
3D5002	.004	400	14c
3D5003	.006	400	14c
3D5004	.006	600	14c

Stock Number	Capacity Mfd.	D. C. Working Voltage	Your Price
3D5005	.01	400	14c
3D5006	.01	600	14c
3D5007	.02	400	14c
3D5008	.02	600	17c
3D5009	.05	400	19c
3D5010	.05	600	19c

Stock Number	Capacity Mfd.	D. C. Working Voltage	Your Price
3D5011	1/10	200	15c
3D5012	1/10	300	20c
3D5013	1/10	400	30c
3D5014	1/10	600	30c

Stock Number	Capacity Mfd.	D. C. Working Voltage	Your Price
3D5015	1/4	200	19c
3D5016	1/4	400	27c
3D5017	1/4	200	24c
3D5018	1/4	300	30c
3D5019	1/4	400	30c
3D5020	1	200	31c

By-Pass Size 3/4 x 3/4 x 1 1/2" Mtg. Centers 2 1/2"

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	22c
3E5081	XA-401	.1	600	26c

Filter or By-Pass 1 Mfd. 300 Volts

Metal can size 1 1/2 in. wide, 1 1/2 in. high, 3/4 in. deep.
3C5491
YOUR PRICE, EACH **19c**
Lots of 10.....\$1.70

Special Value Tubular Condensers Paper and Foil Type

Wax impregnated. Tubular fibre cans, 1 1/2" wire leads. 2 1/2" Long. 3/4" to 1" Diam.

Stock Num.	Cap. Mfd.	Work. Volts	Your Price
3E5450	.006	400	Ten Ass't. for
3E5451	.01	400	47c
3E5452	.02	400	100 for \$4.15
3E5453	.05	400	
3E5454	.1	400	

Stock Number	Cap. Mfd.	Working Volts	Your Price
3E5455	.25	200	6c
3E5456	.5	200	9c
3E5457	.25	400	10c
3E5458	.5	400	12c

Adjustable Mica Condensers

For equalizing or balancing variable condenser sections in circuits. Insulated bakelite base; size 3/4 x 1 1/2 inches.

Stock Num.	Cap. Mfd.	List Price	Your Price
3C5635	.5	25	50c
3C5636	.5	50	16c
3C5637	.5	100	
3C5638	75	250	75c
3C5639	75	350	27c Ea.

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 1 1/2	\$0.20
3C5366	.25	2 1/2 x 1 1/2 x 1 1/2	.25
3C5367	.50	2 1/2 x 1 1/2 x 1 1/2	.32
3C5368	1.0	2 1/2 x 1 1/2 x 1 1/2	.45
3C5369	2.0	2 1/2 x 1 1/2 x 1 1/2	.75
3C5370	4.0	4 1/2 x 2 1/2 x 1 1/2	.75
3C5371	4.0	4 1/2 x 2 1/2 x 1 1/2	1.30
3C5372	4.0	4 1/2 x 2 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 "T" 45, "46", "47", "50" and similar heavy duty amplifier tubes. Metal containers, black finish. Fork type terminals. Conservative ratings. Over 1000 mfd. Non-inductive. Flash breakdown over 3000 volts D.C.

Stock Number	Cap. Mfd.	Size Inches	Your Price
3D5350	.05	2 1/2 x 1 1/2 x 1 1/2	\$0.67
3D5351	.1	2 1/2 x 1 1/2 x 1 1/2	.73
3D5352	.25	2 1/2 x 1 1/2 x 1 1/2	.81
3D5353	.5	2 1/2 x 1 1/2 x 1 1/2	.90
3D5354	1.0	2 1/2 x 1 1/2 x 1 1/2	1.21
3D5355	2.0	4 1/2 x 2 1/2 x 1 1/2	1.89
3D5356	2.0	4 1/2 x 2 1/2 x 1 1/2	1.89
3D5357	4.0	4 1/2 x 2 1/2 x 1 1/2	3.02
3D5358	4.0	4 1/2 x 2 1/2 x 1 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			
3C5322	.0002	3C5336 .01			
3C5323	.00025	3C5337 .015			
3C5324	.0004	3C5338 .02			
3C5325	.0005	3C5339 .025			
3C5326	.00075	3C5340 .03			
3C5327	.001	3C5341 .04			
3C5328	.0015	3C5342 .05	38c		
3C5329	.002	3C5343 .06			
3C5330	.0025	3C5344 .07	27c		
3C5331	.003	3C5345 .08			
3C5332	.004	3C5346 .09			
3C5333	.005	3C5347 .1			

BARGAIN Low Capacity Mica Condensers



Midget Type Same with lugs and mto. holes.

POLYMET—MICAMOLD

Stock Number	Cap. Mfd.	Your Price
3D5478	.00007	5¢
3D5479	.00006	
3D5480	.00005	Each
3D5481	.00004	Ten for 45¢
3D5482	.000035	Lots of
3D5483	.000025	50 Assorted
3D5486	.00015	\$1.95

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	1 1/2 x 2 1/4 x 1 1/4	1.75	.99
3C5152	107	4.	400V	200	1 1/2 x 2 1/4 x 3/4	3.75	1.60
3C5154	305	2.	750V	400	1 1/2 x 2 1/4 x 3/4	3.00	1.20
3C5156	404	1.	1000V	600	1 1/2 x 2 1/4 x 3/4	2.00	1.30
3C5157	405	2.	1000V	600	1 1/2 x 2 1/4 x 3/4	3.50	1.35
3C5162	507	4.	2000V	1000	2 1/2 x 1 1/2 x 3/4	10.00	5.00
3C5163	603	.5	2500V	1250	1 1/2 x 2 1/4 x 3/4	2.75	1.85
3C5170	707	4.	3000V	1500	3 1/4 x 7 x 1 1/2	13.50	9.11
3C5171	803	.5	4000V	2000	1 1/2 x 3 1/2 x 3/4	4.50	3.11

Moulded Bakelite Condensers

Micamold—Aerovox—Polymet

Tested at 750 volts D.C.



Standard Type Case size 1 1/2" long, 1 1/8" wide, Lug centers 1 1/4". Insulated mounting holes

Stock Number	Cap. Mfd.	List Price	Your Price
3C5575	.0001	30¢	11¢
3C5576	.00025	30¢	11¢
3C5577	.00035	30¢	11¢
3C5578	.0005	30¢	11¢
3C5579	.00075	35¢	11¢
3C5580	.001	35¢	11¢
3C5581	.0015	35¢	11¢
3C5582	.002	40¢	13¢
3C5583	.0025	45¢	15¢
3C5584	.003	50¢	16¢
3C5585	.004	50¢	21¢
3C5586	.005	50¢	18¢
3C5587	.006	60¢	22¢



Sangamo Mica Condensers

Moulded 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	35¢
3C5607	.0001	.60	35¢
3C5609	.0002	.60	35¢
3C5610	.00025	.60	35¢
3C5612	.0005	.60	35¢
3C5613	.001	.60	35¢
3C5614	.0015	.60	35¢
3C5615	.002	.65	38¢
3C5617	.003	.85	50¢
3C5618	.004	.85	50¢
3C5619	.005	.85	50¢
3C5620	.006	1.00	59¢
3C5621	.008	1.20	71¢
3C5622	.01	1.40	82¢
3C5623	.015	1.60	94¢

Condensers Resistor Clips

For mounting grid leak Resistors across Sangamo Condensers.

3E5629—PER PAIR 6¢

A Complete Assortment! Mica Condenser Pad Kit 35 Units—Assorted Sizes

Micamold and Polymet Midget Type Mica Condensers as illustrated at left—some with mounting holes in addition to lugs. Suitable as "pad" condensers in critical Superhetrodyne oscillator circuits. Moisture proof, air tight 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:— .00007 Mfd. .00004 Mfd. .00015 Mfd. .00006 Mfd. .000035 Mfd. .00005 Mfd. .000025 Mfd. 3E5600—YOUR PRICE 96¢ PER KIT (35 units)

Standard Type



Stock Number	Cap. Mfd.	List Price	Your Price
3C5590	.003	\$0.45	15¢
3C5591	.004	.45	18¢
3C5592	.0045	.45	22¢
3C5593	.005	.45	24¢
3C5594	.006	.55	26¢
3C5595	.0075	.65	28¢
3C5596	.009	.70	34¢
3C5597	.01	1.00	35¢
3C5598	.015	1.10	45¢
3C5599	.02	1.25	54¢

*Note—Case size 1 1/2" square.

Pigtail Type



Stock Number	Cap. Mfd.	List Price	Your Price
3C5550	.00005	25¢	
3C5551	.0001	25¢	
3C5552	.00015	25¢	
3C5553	.0002	25¢	
3C5554	.00025	25¢	
3C5555	.0003	25¢	
3C5556	.0004	25¢	
3C5557	.0005	25¢	
3C5558	.00075	30¢	
3C5559	.001	30¢	
3C5560	.0015	30¢	
3C5561	.002	35¢	
3C5562	.0025	40¢	
3C5563	.003	45¢	

Midget Type



Stock Number	Cap. Mfd.	List Price	Your Price
3C5565	.0001	25¢	
3C5566	.00025	25¢	
3C5567	.00035	25¢	
3C5568	.0005	25¢	
3C5569	.00075	30¢	
3C5570	.001	30¢	
3C5571	.0015	35¢	
3C5572	.002	35¢	
3C5573	.0025	40¢	
3C5574	.003	45¢	

Postage Stamp Type



Stock Number	Cap. Mfd.	Stock Number	Cap. Mfd.
3C5535	.00001	3C5540	.0001
3C5536	.000025	3C5541	.00015
3C5537	.000035	3C5542	.0002
3C5538	.00005	3C5543	.00025
3C5539	.000075	3C5544	.00035
		3C5545	.0005

List Price, 20c. YOUR PRICE, Each 9¢

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 tinned "push back" wire.

Stock No.	Capacity	Size In.	Price Each
3C5250	1/2	2 1/2 x 1 1/2 x 1 1/2	12¢
3C5251	1	2 1/2 x 1 1/2 x 1 1/2	18¢
3C5252	2	2 1/2 x 1 1/2 x 1 1/2	29¢
3C5253	1/2	2 1/2 x 1 1/2 x 1 1/2	19¢
3C5254	1	2 1/2 x 1 1/2 x 1 1/2	29¢
3C5255	2	2 1/2 x 1 1/2 x 1 1/2	54¢

Stock No.	Capacity	Size In.	Price Each
3C5256	1/2	2 1/2 x 1 1/2 x 1 1/2	28¢
3C5257	1	2 1/2 x 1 1/2 x 1 1/2	36¢
3C5258	2	2 1/2 x 1 1/2 x 1 1/2	50¢

Stock No.	Capacity	Size In.	Price Each
3C5261	1	4 1/2 x 1 1/2	\$0.75
3C5262	2	4 1/2 x 1 1/2	1.22

Case Renewal Condenser Sections

Consists of a wax sealed paper dielectric condenser section housed in a 1/2" 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
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200 D. C. Working Voltage

3E3300	1.0	3 1/2 x 1 1/2 x 1 1/2	.25
3E3301	2.0	3 1/2 x 1 1/2 x 1 1/2	.42

400 D. C. Working Voltage

3E3302	.5	3 1/2 x 1 1/2 x 1 1/2	.25
3E3303	1.0	3 1/2 x 1 1/2 x 1 1/2	.37
3E3304	2.0	3 1/2 x 1 1/2 x 1 1/2	.57

600 D. C. Working Voltage

3E3305	.5	3 1/2 x 1 1/2 x 1 1/2	.43
3E3306	1.0	3 1/2 x 1 1/2 x 1 1/2	.62
3E3307	2.0	4 1/2 x 2 1/2 x 1 1/2	.83

800 D. C. Working Voltage

3E3308	.5	3 1/2 x 1 1/2 x 1 1/2	.59
3E3309	1.0	4 1/2 x 2 1/2 x 1 1/2	.84

1000 D. C. Working Voltage

3E3310	.5	3 1/2 x 1 1/2 x 1 1/2	.76
3E3311	1.0	4 1/2 x 2 1/2 x 1 1/2	1.24
3E3312	2.0	4 1/2 x 2 1/2 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 elphers 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

Deel-mals.	MMFDS	1st. Dot	2nd. Dot	3rd. Dot
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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 1/4 x 1 1/2 x 1 1/4	\$0.56
3E8901	8*	4 1/4 x 1 1/2 x 1 1/4	1.32
3E8902	8-8*	4 1/4 x 1 1/2 x 1 1/4	1.32

D. C. Working Voltage, 500—Peak, 800

Stock Number	Capy. Mfds.	Size In. L. W. T.	List Price	Your Price
3E8903	2*	4 1/4 x 1 1/2 x 1 1/4	\$1.10	\$0.65
3E8904	4*	4 1/4 x 1 1/2 x 1 1/4	1.35	.79
3E8905	6*	4 1/4 x 1 1/2 x 1 1/4	1.60	.88
3E8906	8*	4 1/4 x 1 1/2 x 1 1/4	1.85	.97
3E8907	4-4*	4 1/4 x 1 1/2 x 1 1/4	2.25	1.32
3E8908	8-8*	4 1/4 x 1 1/2 x 1 1/4	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 breakdowns 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. L. W. T.	Your Price
3E8909	4*	4 1/4 x 1 1/2 x 1 1/4	\$0.62
3E8910	8*	4 1/4 x 1 1/2 x 1 1/4	.76

D. C. Working Voltage, 500—Peak 800

Stock Number	Capy. Mfds.	Size In. L. W. T.	Your Price
3E8912	4*	4 1/4 x 1 1/2 x 1 1/4	\$0.88
3E8913	8*	4 1/4 x 1 1/2 x 1 1/4	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 1/4 x 2 1/4	\$1.18
3E8917	8-15*	4 1/4 x 2 1/4	1.97
3E8918	8-8-8*	4 1/4 x 3	2.06
3E8919	9-9-18*	4 1/4 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 1/4 x 1 1/4	\$1.50	\$0.88
3E8921	8*	4 1/4 x 1 1/4	1.80	1.06
3E8922	4-4*	4 1/4 x 2 1/4	2.40	1.41
3E8923	8-8*	4 1/4 x 2 1/4	2.90	1.70
3E8924	5-15*	4 1/4 x 2 1/4	4.75	2.79
3E8925	4-4-4*	4 1/4 x 2 1/4	3.50	2.06
3E8926	8-8-8*	4 1/4 x 3	5.00	2.94
3E8927	9-9-18*	4 1/4 x 3	7.00	4.32

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	.25	1 1/4 x 1 1/4 x 1 1/4	\$0.20
3D7525	.16	1 1/4 x 1 1/4 x 1 1/4	.23
3D7526	.1	1 1/4 x 1 1/4 x 1 1/4	.26
3D7527	.05	1 1/4 x 1 1/4 x 1 1/4	.59
3D7528	.2	1 1/4 x 1 1/4 x 1 1/4	1.00
3D7529	.1	4 1/4 x 1 1/4 x 1 1/4	.50
3D7530	.2	4 1/4 x 1 1/4 x 1 1/4	.79

600 Volt

Stock Number	Cap. Mfd.	Dimensions Ht. Wd. D.	Your Price
3D7531	.1	1 1/4 x 1 1/4 x 1 1/4	\$0.25
3D7532	.25	1 1/4 x 1 1/4 x 1 1/4	.32
3D7533	.16	1 1/4 x 1 1/4 x 1 1/4	.44
3D7534	.1	1 1/4 x 1 1/4 x 1 1/4	.68
3D7535	.2	1 1/4 x 1 1/4 x 1 1/4	1.15
3D7536	.1	4 1/4 x 1 1/4 x 1 1/4	.59
3D7537	.2	4 1/4 x 1 1/4 x 1 1/4	.88

800 Volt

Stock Number	Cap. Mfd.	Dimensions Ht. Wd. D.	Your Price
3D7538	.1	1 1/4 x 1 1/4 x 1 1/4	.26
3D7539	.25	1 1/4 x 1 1/4 x 1 1/4	.38
3D7540	.16	1 1/4 x 1 1/4 x 1 1/4	.47
3D7541	.1	4 1/4 x 1 1/4 x 1 1/4	.65

1000 Volt

Stock Number	Cap. Mfd.	Dimensions Ht. Wd. D.	Your Price
3D7542	.1	4 1/4 x 1 1/4 x 1 1/4	.39
3D7543	.5	4 1/4 x 3 1/4 x 1 1/4	.53
3D7544	.1	4 1/4 x 3 1/4 x 1 1/4	.79

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.	
3E8929	\$.09	.001		3E8943	\$.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		3E8946	.16		
3E8940	.16	.25		3E7641	.21		
3E8941	.24	.5		3E8947	.32		
3E8942	.38	.01-.01		3E8948	.19		

600 Volt				1000 Volt			
Stock Num.	Your Price	Capy. Mfds.		Stock Num.	Your Price	Capy. Mfds.	
3E8949	\$.11	.001		3E8953	\$.12		
3E8950	.11	.006		3E7642	.12		
3E7643	.11	.01		3E7643	.12		
3E7645	.11	.02		3E7650	.14		
3E7646	.13	.05		3E7651	.21		
3E7647	.14	.1		3E8955	.29		
3E8951	.24	.25					
3E8952	.38	.5					

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 1/4 x 2 1/4	\$1.35	\$0.44
3D7548	4	1 1/4 x 2 1/4	.55	.50
3D7549	4-4	2 1/4 x 4 1/4	2.70	1.00
3D7550	5-15	2 1/4 x 4 1/4	4.10	1.35
3D7551	6	1 1/4 x 4 1/4	1.80	.59
3D7552	8	1 1/4 x 4 1/4	1.85	.62
3D7553	8-8	2 1/4 x 4 1/4	3.25	1.06
3D7554	8-16	2 1/4 x 4 1/4	4.10	1.62
3D7556	10	1 1/4 x 4 1/4	2.25	.91
3D7558	16	2 1/4 x 4 1/4	2.80	1.20
3D7561	2-4-8	3 x 4 1/4	4.10	1.70
3D7562	2-8-8	3 x 4 1/4	4.40	1.82
3D7563	4-4-4	3 x 4 1/4	3.05	1.50
3D7564	8-8-8	3 x 4 1/4	4.90	1.59
3D7565	8-8-16	3 x 4 1/4	5.85	1.88
3D7566	9-9-18	3 x 4 1/4	6.70	2.20
3D7567	8-8-8-8	3 x 4 1/4	6.55	2.12
3D7570	9-9-18-18	3 x 4 1/4	9.00	3.09

Inverted Mounting Container—525 V.D.C. Peak

Insulated type—is provided with insulating boss segregating case from chassis. Grounded type—Case grounds to chassis.

INSULATED		GROUNDED		Mfd. Cap.	Can Size	List Price	Your Price
Stock Number	Stock Number	Stock Number	Stock Number				
3D7571	3D7580	3D7572	3D7575	2	1 1/4 x 1 1/4	\$0.75	\$0.44
3D7573	3D7576	3D7574	3D7577	4	1 1/4 x 2 1/4	.85	.50
				6	1 1/4 x 2 1/4	1.00	.59
				1	1 1/4 x 3 1/4	1.05	.62

Replacement Electrolytics For A.C.-D.C. Midgets

Identical to the original units. Cardboard containers (*) Denotes Common Terminal is negative.

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 1/4	\$0.44
3E8957	10-10	1 1/4 x 1 1/4 x 2 1/4	.44

Working Voltage 150 Volts

Stock Number	Capy. Mfds.	Size In. D. W. L.	Your Price
3E8958	4-4	1 1/4 x 1 1/4 x 2 1/4	.50
3E8959	4-4	1 1/4 x 1 1/4 x 2 1/4	.50
3E8960	4-8	1 1/4 x 1 1/4 x 2 1/4	.65
3E8961	12-4	1 1/4 x 1 1/4 x 2 1/4	.76
3E8962	12-4	1 1/4 x 1 1/4 x 2 1/4	.76

Working Voltage 200 Volts

Stock Number	Capy. Mfds.	Size In. D. W. L.	Your Price
3E8963	4-4	1 1/4 x 1 1/4 x 2 1/4	.53
3E8964	4-4	1 1/4 x 1 1/4 x 2 1/4	.53
3E8965	4-8	1 1/4 x 1 1/4 x 2 1/4	.68
3E8966	8-8-4	1 1/4 x 1 1/4 x 2 1/4	1.06
3E8967	8-8-8	1 1/4 x 1 1/4 x 2 1/4	1.15
3E8968	8-8-16	1 1/4 x 1 1/4 x 2 1/4	1.23
3E8969	12-4	1 1/4 x 1 1/4 x 2 1/4	.76
3E8971	16-8	1 1/4 x 1 1/4 x 2 1/4	.85
3E8972	16-8	1 1/4 x 1 1/4 x 2 1/4	.85

Compact Electrolytics In Cardboard Containers

Suitable substitute for paper units. Very compact. Double sections have a common negative terminal.

Stock Number	Capy. Mfds.	Size In. D. W. L.	Your Price
3E8974	5	1 1/4 x 1 1/4 x 2 1/4	29c
3E8975	10	1 1/4 x 1 1/4 x 2 1/4	38c
3E8976	25	1 1/4 x 1 1/4 x 2 1/4	47c

D.C. Working Voltage 150 Volts

Stock Number	Capy. Mfds.	Size In. D. W. L.	Your Price
3E8977	4	1 1/4 x 1 1/4 x 2 1/4	35c
3E8978	6	1 1/4 x 1 1/4 x 2 1/4	41c
3E8979	8	1 1/4 x 1 1/4 x 2 1/4	44c

D.C. Working Voltage 200 Volts

Stock Number	Capy. Mfds.	Size In. D. W. L.	Your Price
3E8980	1	1 1/4 x 1 1/4 x 2 1/4	32c
3E8981	2	1 1/4 x 1 1/4 x 2 1/4	32c
3E8982	4	1 1/4 x 1 1/4 x 2 1/4	38c
3E8983	6	1 1/4 x 1 1/4 x 2 1/4	41c
3E8984	8	1 1/4 x 1 1/4 x 2 1/4	47c

D.C. Working Voltage 300 Volts

Stock Number	Capy. Mfds.	Size In. D. W. L.	Your Price
3E8985	2	1 1/4 x 1 1/4 x 2 1/4	35c
3E8986	4	1 1/4 x 1 1/4 x 2 1/4	41c
3E8987	6	1 1/4 x 1 1/4 x 2 1/4	50c
3E8988	8	1 1/4 x 1 1/4 x 2 1/4	53c

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 1/4 x 1 1/4 x 1 1/4	32c
3D7606	2.	2 1/4 x 1 1/4 x 1 1/4	38c
3D7607	2-2.	2 1/4 x 1 1/4 x 1 1/4	65c
3D7608	2-4.	4 1/4 x 1 1/4 x 1 1/4	70c
3D7609	2-6.	4 1/4 x 1 1/4 x 1 1/4	85c
3D7610	4.	4 1/4 x 1 1/4 x 1 1/4	44c
3D7611	4-4.	4 1/4 x 1 1/4 x 1 1/4	70c
3D7612	6.	4 1/4 x 1 1/4 x 1 1/4	53c
3D7613	6-8.	4 1/4 x 1 1/4 x 1 1/4	85c
3D7614	8.	4 1/4 x 1 1/4 x 1 1/4	56c
3D7615	8-8.	4 1/4 x 1 1/4 x 1 1/4	88c

By Pass Condensers

Metal Case
Hermetically sealed. Non-inductively wound. Size 2 1/4 x 1 1/4 x 1 1/4.

Conservatively rated.

Stock Num.	Your Price	Capy. Mfds.	Stock Num.	Your Price	Capy. Mfds.
3E8989	25c	.05	3E7500	27c	
3E8990	28c	.1	3E7501	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	

\$327

Double Emergency Kit

3E7730—YOUR PRICE \$6.58

connected in series for 850 volt working potential

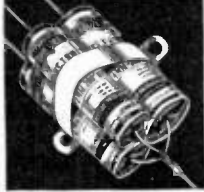
High Capacity, Low Voltage Cardboard Cased Condensers



Stock No.	Cap. Mfd.	D. C. Volts	Length & Dia. Inches	List Price	Your Price
3E8457	10	25	2 1/2 L x 1 1/4 D.	\$0.60	\$0.36
3E8458	10	50	2 1/2 x 1 1/4	.80	.48
3E8459	25	25	2 1/2 x 1 1/4	.85	.51
3E8460	25	50	2 1/2 x 1 1/4	1.10	.66

AC-DC Dry Tubular Electrolytics

Similar in appearance



Cut shows typical example of Three Low with mounting strap replacement.

Voltage Tubulars connected with mounting strap.
Used as substitute for exact replacement.

Famous Sprague Midgets

A close-up photograph of a rectangular electronic component, likely a microcontroller or memory chip, mounted on a printed circuit board. The component has two metal leads extending from its sides. A label on the top surface contains technical specifications:

- 74VHC00**
- Hex Inverters**
- Low Power Schottky**
- 14-Pin DIP**
- 100°C**
- 100%**
- RoHS Compliant**

Stock Number	Catalog Number	Capacity Mfd.	List Price	Your Price
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GUARANTEE

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.

Stock Number	Cap. Mfd.	Dis. & Hgt. In.	List Price	Your Price
3E7655	2	1 x 3 3/4	\$1.10	\$0.66
3E7656	4	1 x 3 3/4	1.25	.75
3E7657	6	1 x 4 7/8	1.45	.87
3E7658	8	1 3/4 x 4 7/8	1.50	.90
3E7659	10	1 3/4 x 4 7/8	1.80	1.08
3E7660	12	1 3/4 x 4 7/8	2.05	1.23
3E7661	16	1 3/4 x 4 7/8	2.30	1.38

3E7662	8-8	1 $\frac{1}{2}$ x $\frac{1}{2}$	\$2.40	\$1.44
3E7663	4-4-4	1 $\frac{1}{2}$ x $\frac{1}{2}$	2.80	1.68
3E7664	8-8-8	3 x $\frac{1}{2}$	1.00	2.40
3E7665	5-15	2 $\frac{1}{2}$ x $\frac{1}{2}$	3.35	2.01
3E7666	9-9-18	3 x $\frac{1}{2}$	5.80	3.48
3E7667	9-9-18-18	3 x $\frac{1}{2}$	8.15	4.89
3E7668	8-8-8-8	3 $\frac{1}{2}$	5.35	3.21
3E7669	8-8-18-18	3 x $\frac{1}{2}$	7.55	4.53
3E7670	18-18	2 $\frac{1}{2}$ x $\frac{1}{2}$	4.90	2.94

3E7671	4	1 x3	\$1.25	\$0.7
3E7672	6	1 x3	1.45	.8
3E7673	8	1 x47	1.50	.9

Stock Number	Cap. Mfd.	Dia. Inches	List Price	You Price
3E8465	4	1	\$1.25	\$0.7
3E8466	6	1	1.40	.8
3E8467	8	1	1.45	.8
3E8468	10	1 1/4	1.50	.9
3E8469	12	1 1/2	1.55	.9

Dry E.C. Multiple Units.

Stock No.	Mfg. No.	Cap. Mfd.	D. C. Volts	Size inches	List Price	Your Price
3E3480	CM-88	4-8	25-2002	x1 x1 x1	\$1.15	50.00
3E3481	RM-44*	8-4	140	3 x1 D.	1.05	0.00
3E3482	RM-55*	5-5	35	2 x1 D.	1.85	0.00
3E3483	CM-55*	5-5	25-2002	x1 x1 x1	1.05	0.00
3E3484	DM-44	4-4	450-1503	3x1 x1	1.45	0.00
3E3485	RM-14*	1-3.6	300-1002	x1 x1	1.00	0.00
3E3486	CM-88*	8-8	150	3 x1 x1	2.75	1.40

Sprague Type A.R.

A Steel Jacketed Noise Filter Condenser with standard mounting bracket permanently welded to the jacket. For use where temperature and heat ruin ordinary condensers. 400 V.

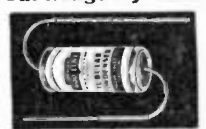
Stock Number	Cap. Mfd.	Length & Dia.	List Price	Your Price
3E7731	1.0	2 1/4' x 1"	\$0.80	\$0.40
3E7732	.5	2' x 1 1/4"	.60	.30

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.F.



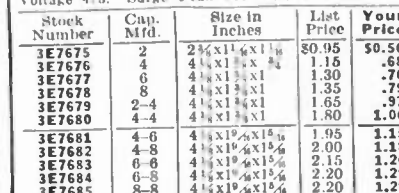
Stock No.	Cap. Mtd.	Dimensions In Inches	Mtg. Cen.	1st Price	Your Price
3E7686	0.1	1 1/4 x 1 1/2 x 1 3/4	2 1/2	\$0.50	\$0.30
3E7687	0.25	1 1/2 x 1 3/4 x 1 3/4	2 1/2	.76	.76
3E7688	0.5	2 x 1 3/4 x 1 3/4	2 1/2	.75	.45
3E7689	1.0	2 x 1 1/2 x 1	2 1/2	1.00	.60
3E7690	1-1	1 1/2 x 1 1/2 x 1 3/4	2 1/2	.65	.39
3E7691	.25-.25	2 x 1 3/4 x 1 3/4	2 1/2	.80	.48
3E7692	.5-.5	2 x 1 1/2 x 1 1/2	2 1/2	1.00	.60
3E7693	1-1, 1-1	2 x 1 1/2 x 1 3/4	2 1/2	.85	.51

**Non-Inductive
"600" Peak Volt-
age. 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. Mid.	Length & Dia. in Inches	List Price	Your Price
3E7695	.0001	15 1/8" L x 3/8" D.	\$0.25	\$0.15
3E7696	.00025	3 1/8" x 3/8"	.25	.15
3E7697	.0004	7 1/8" x 3/8"	.25	.15
3E7698	.0005	13 1/8" x 3/8"	.25	.15
3E7699	.001	15 1/8" x 3/8"	.25	.15
3E7700	.002	15 1/8" x 3/8"	.25	.15
3E7701	.003	1 x 3/8"	.25	.15
3E7702	.004	1 x 3/8"	.25	.15
3E7703	.005	1 1/8" x 3/8"	.25	.15
3E7704	.006	1 1/8" x 7/16"	.25	.15
3E7705	.01	1 1/8" x 7/16"	.25	.15
3E7706	.02	1 1/8" x 7/16"	.30	.18
3E7707	.05	1 1/8" x 7/16"	.30	.18
3E7708	.06	1 1/8" x 7/16"	.35	.21
3E7709	.1	1 1/8" x 7/16"	.35	.21
3E7710	.125	1 1/8" x 3/4"	.45	.27
3E7711	.5	1 1/8" x 7/8"	.60	.36



Capacity

From 16 to
.00025 Mfd. in
56 Steps.

3E7733—
Your Price **\$8.90**



The Sprag 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, contains the popular sizes of standard capacitor. The first selector switch connects the standard paper electrolytic capacitors to the pin jacks, in the following order: .00025 Mfd., .001 Mfd., .001 Mfd., .01 Mfd., .05 Mfd., .1 Mfd., .25 Mfd., .5 Mfd. The second selector switch connects the following 475 volts E.C. capacitors to the pin jacks in this order: 1 Mfd., 2 Mfd., 4 Mfd., 8 Mfd., 10 Mfd., 12 Mfd., 16 Mfd., 20 Mfd. The values available on the selector switch may be combined in all possible capacities, covering most capacitors used in modern receivers may be obtained.

FREE With each order for ten or more Sprague Condensers we will, upon request and as long as our supply lasts, include 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 watters. 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

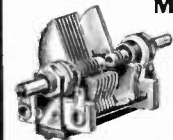
Double Spaced Dual Midget Condensers

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 necessary in 5 meter work. An ideal condenser for compact 5 meter transmitters using tubes up to 245's or 210's in 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 section to spread narrow frequency ranges over the entire dial, regardless of the range of the band or the coils used.

Stock Num.	Code Num.	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 3/4 inch hole.

Stock Number	Plates	Max. Cap.	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 **23c**



Equalizer

A small neutralizing or balancing condenser, having an exceptionally wide capacity range. For equalizing the units of a multiple-tuning condenser. Bakelite base mount, mica dielectric and a heavy phosphor-bronze spring plate. Minimum capacity, 3 mmfds. Shpg. wt., 6 oz.

3C7266—EC-35—2 to 35 mmfds.
List, 50c. YOUR PRICE **14c**

3C7267—EC-80—20 to 100 mmfds.
List, 60c. YOUR PRICE **15c**

Improved Hammarlund Midget Condensers



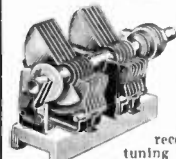
For use as short wave and ultra short wave tuning condensers. Designed to meet the strict demands of frequencies running up to 50 and 60 mcaycles. Isolantite insulation reduces dielectric losses to a minimum and assures maximum and uniform efficiency under all conditions of temperature and humidity. 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.	Cap. (Mmf.)	List Price	Your Price
3C7215	MC-325M	43	12 \$3.50	\$2.06
3C7216	MC-250M	34	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	14	6 2.25	1.32
3C7221	MC-75M	11	6 2.00	1.18
3C7222	MC-75S	11	5 1.60	.94
3C7223	MC-50M	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 midget condensers. Single hole panel mounting. Overall length behind panel is 3 3/4".

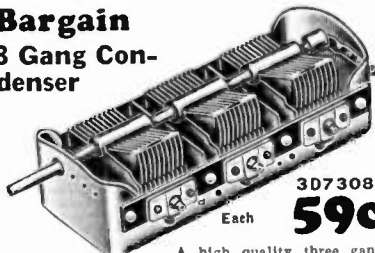
Stock Number	Code No.	List Price	Your Price
3C7230	MC10-140-M	\$4.00	\$2.35

(140 mmf. capacity per section)

Stock Number	Code No.	List Price	Your Price
3C7231	MCD-100-M	3.50	2.05

(100 mmf. capacity per section)

Bargain 3 Gang Con- denser



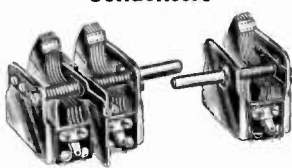
A high quality three gang condenser made in one of the best equipped plants by skilled workmen. Very accurate and unusually efficient. Each unit has separate neutralizing device for micrometric balancing. Rigid stamped steel frame, cadmium plated. Best quality aluminum plates. Each unit .00035 capacity. Body is 7/8 in. long, 3/8 in. wide.

"Star" Midget Condenser

Manufactured for the Radolek Company by Hammarlund. The most popular low priced midget for set builders, experimenters and laboratories. Sizes for short wave tuning, regeneration, antenna coupling verniers, etc. Light in weight, strong and compact in construction. Low minimum capacity, low loss natural bakelite insulation, non-corrosive aluminum plates. Easy single hole mounting, 1/4" shaft. Individually packed with 1" Bakelite knob. Size 1 1/2" deep behind panel, depending on capacity.

Stock Number	Capacity	Min.	Mmf. Max.	List Price	Your Price
3D7286	.000015 mfd.	SM-15	\$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 1/4" long, 1/4" diameter shaft.

150 Mmf. Single Gang
Size: Height, 1 1/4"; width, 2 3/4"; depth, 1 1/2". Four threaded size 3/32 mounting holes in base. List Price, \$1.25.
YOUR PRICE **59c**

150 Mmf. Dual Gang
Size: Height, 1 1/4"; width, 3 3/4"; depth, 2 1/2". Three threaded size 3/32 mounting holes in base. List Price, \$2.25.
YOUR PRICE **98c**

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, grid input and plate 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 1/4" long, 1/4" shaft.

150 Mmf. Three Gang
Size: Height 1 1/4", width 3 3/4", depth 3 1/4". Three threaded size 8/32 mounting holes in base. List Price, \$3.25.
YOUR PRICE **\$1.48**

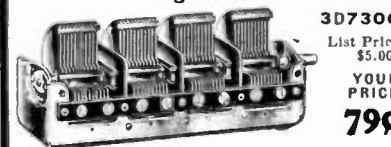
Thordarson Vernier Condenser Capacity .001 Mfd. (43 plates)

3D7307
List Price, \$4.50
YOUR PRICE **39c**

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. Drilling template included.



4-Gang Condenser



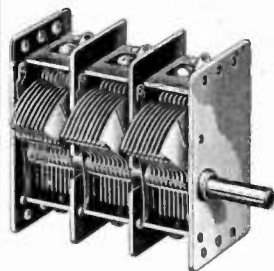
Shielded between sections. Heavy aluminum plates, 3/8 inch diam. steel shaft. Self adjusting bearings at both ends of the shaft. Smooth easy rotation. Heavy steel frame, cadmium plated. Width 3 1/4". Height, 3". Length, 9". Shaft, 1/4" long. Capacity .00035 Each Section.

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.

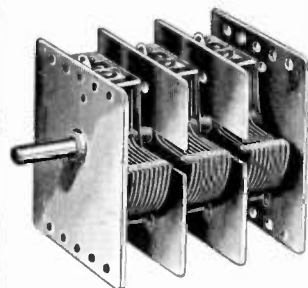
Stock Number	Capacity Min.	Mmf. Max.	List Price	Your Price
3E7260	10	70	\$0.50	29c
3E7261	70	140	.80	35c
3E7262	140	220	1.00	41c
3E7263	600	1000	1.00	59c
3E7264	1000	1300	1.25	79c

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 .000020 mfd. Maximum capacity of oscillator section .000354 mfd. Minimum capacity .000020 mfd. Size of end plate: 2 1/2 in. Length: 2-gang 2 1/2", 3-gang 4", 1/2" 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	

Low Shield T. R. F. Models (Capacity: .000365 mfd. Max., .000020 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 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: .00002 mfd. Capacity of oscillator section, maximum: .000354 mfd., minimum: .00002 mfd. Size of end plate: 4 1/2 in. Length: 2-gang 2 1/2", 3-gang 4", 4-gang 5 1/2". 1/2" ball bearing shaft.

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	

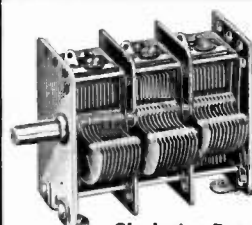
High Shield T. R. F. Models (Capacity: .000365 mfd. Max., .000020 mfd. Min.)

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 .000016 mfd. Maximum of oscillator section .000275 mfd., minimum .000013 mfd. Covers 1800 to 535 KC. When used to cover this range the r.f. inductance should be 240 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 1/2" 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 .000016 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 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 1/2" shaft extends 1/2". 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	

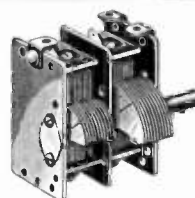
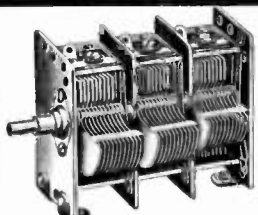
Counter-Clockwise Rotation			
Stock Number	Num. Gangs	Trim-mers on:	Your Price, Each
3D7338	2	Right	\$1.13
3D7339	2	Left	
3D7340	3	Right	1.60
3D7341	3	Left	

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.



New 456 K.C. Condenser

Tunes from 1800 to 535 K.C.

Two Gang

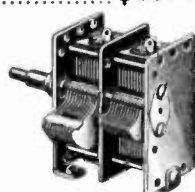
Shaft 3/4" diam. 1 1/2" long. 3 tapped mounting holes in bottom and 1 mounting hole on sides to fit 1/2" thread. 2 1/2" long, 3/4" wide, 1 1/2" high. Maximum capacity of R.F. section .000365 mfd. Minimum capacity .000016 mfd. Maximum of oscillator section .000275 mfd. Minimum .000013 mfd.

Stock No.	Trim-mers On	Rotation	Your PRICE
3D7327	Left	Clockwise	\$1.00
3D7328	Right	Clockwise	
3D7329	Left	Counter Clockwise	
3D7328	Right	Counter Clockwise	

2 Gang 456 K.C. Model Vernier 6 to 1 Ratio

Has a 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
3D7331	Left	Clockwise	\$1.13
3D7330	Right	Clockwise	
3D7333	Left	Counter Clockwise	
3D7332	Right	Counter Clockwise	



Single Gang Condensers

Cadmium plated. End plate 3 1/2 x 2 1/4". Heavy aluminum plates. Wiping phosphor bronze rotor connections. Shielded minimum compensators with grounded adjusting screw. Steel shaft 1/2" 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	.00048	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. 1° primary and secondary on each coil. 15-200 meters. 4 coils to a set.

3E6668—Ultra Short Wave Coil. Range 9.5 to 21 meters. 4 prong. **53¢**

3E6681—Broadcast coils same as above but tune 190-550 meters. 4 prong bases. **88¢**
YOUR PRICE, Set of 2 Coils

5 Prong Coils
Regular standard 2-circuit 5-prong base. Primary and secondary on each same as above but 5-prong base interchangeable with hand spread coils. 15 to 200 meters.

3E6670—Set of 4 coils. **\$1.47**

3E6671—Broadcast coils same as above but tune 190-550 meters. 5 prong bases. **\$1.03**
YOUR PRICE, Set of 2 coils

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. **\$2.04**

3E6669—Ultra Short Wave Coil. Range 9.5 to 21 meters. 6 prong. **59¢**

3E6673—Broadcast coils same as above but tune 190-550 meters. 6 prong bases. **\$1.18**
Set of 2 coils

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

Each coil **59¢**
Set of 4 coils **\$2.35**

Long Wave. Highly efficient hand windings. Used in any short wave receiver using .00014 S.W. tuning condenser. For use on the interesting transatlantic code, 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

Each coil **59¢**
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 from 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. List Price, 50c.

3E6696—5 prong form with 180 " " cond. List Price, 50c.

YOUR PRICE **29¢**

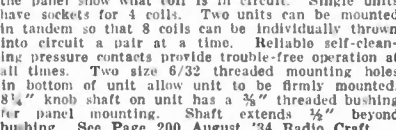


NEW ALDEN SHORT-WAVE Coil Selector Unit

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. 3/4" 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, 75c.
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 3/4" 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 from 9.5 to 25 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.

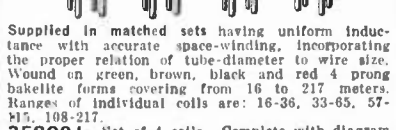
YOUR PRICE **\$1.76**

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¢**

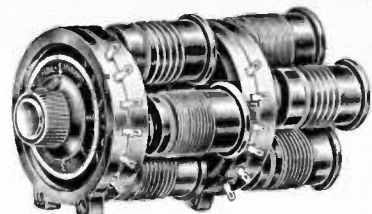


Illustration shows two units combined in Tandem. Price is for single unit.

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 .00015 condenser. Supplied with 16 different circuit diagrams, instructions, and parts list.

3E2274—Ultra Short-Wave Coil. Range from 9.5 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 1/4 x 1 1/2 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	50c	29c
3C2489	5 prong	55c	32c
3C2490	6 prong	60c	35c
3E2487	78 prong	60c	35c

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 ebonized cap.

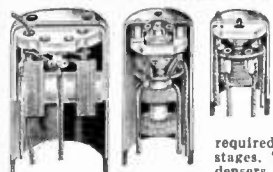
List, \$1.00.

YOUR PRICE

3E7205 4 pin } **58¢**
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 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"x3" 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"x2 1/2" high Mtg. hole centers 1 1/2"

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 listing. The windings are dipped and have a 1/2" round bakelite terminal mounting panel. The broadcast coils are wound on a 1/2"x3/4" special dowel while the combination short wave and broadcast coils are wound on a special 1/2"x1 1/2" dowel. For use with a .000365 mfd. (.00035) tuning condenser.

3E6633—Antenna Broadcast Coil (1750 to 550 meters).
YOUR PRICE, Each Coil... **42¢**

3E6634—Antenna Shortwave and Broadcast Coil (550 to 1500 and 1500 to 4000 K.C.)
YOUR PRICE, Each Coil... **57¢**

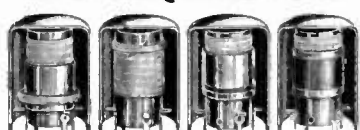
Oscillator Coils

Broadcast 550 to 1500 K.C. To Secure I.F. Specified Below Stock Number

Stock Number	To Secure I.F. Specified Below	Stock Number
3E6635	465 Kilocycles	3E6639
3E6636	262 Kilocycles	3E6640
3E6637	175 Kilocycles	3E6641
3E6638	115 Kilocycles	3E6642

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., etc., 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 shown will make an excellent replacement. The 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 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

Low Impedance Primaries

The proper relation between the shielding and the coil insures a minimum of loss.

Can Size 1 1/2"x2 1/2" high.
Mtg. hole Centers 1 1/2".
3E6643—Low Impedance Antenna Coil.
3E6644—Low Impedance R. F. Coil

YOUR PRICE EACH... **34¢**

3E6645—High Impedance Antenna Coil.
3E6646—High Impedance R. F. Coil.
YOUR PRICE EACH... **40¢**

Unshielded Ant. and R. F. Coils



The same as those listed above except without shield. Supplied on a standard 3/4" outside diameter by 2 1/2" high coil form. Mounting bracket and dowel with mounting screws supplied enable mounting of coil in any position.

3E7160—Low Impedance Antenna Coil.
3E7161—Low Impedance R. F. Coil.
YOUR PRICE EACH... **27¢**

3E7162—High Impedance Antenna Coil.
3E7163—High Impedance R. F. Coil.
YOUR PRICE EACH... **34¢**

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.

3E7164—Low Impedance Antenna Coil.
3E7165—Low Impedance R. F. Coil.
YOUR PRICE EACH... **27¢**

3E7166—High Impedance Antenna Coil.
3E7167—High Impedance R. F. Coil.
YOUR PRICE EACH... **34¢**

Unshielded Coils

3E7168—Low Impedance Antenna Coil.
3E7169—Low Impedance R. F. Coil.
YOUR PRICE EACH... **20¢**

3E7160—High Impedance Antenna Coil.
3E7161—High Impedance R. F. Coil.
YOUR PRICE EACH... **27¢**

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. (commonly 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 7/8" O. D. x 2 1/2" long.
3E7162—Antenna Coil.
3E7163—R. F. Coil.

YOUR PRICE EACH... **33¢**

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 7/8" O. D. x 2 1/2" 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 with tap on coil for short wave covering 120 to 200 meters and 200 to 550 meters complete with wiring diagram. Coil size 1 1/2" O. D. x 2 1/2" long.
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 1/2" O. D. x 2 1/2" long. Size of shield can 1 3/4" O. D. x 2 1/2" high with two 3/16" spade bolts for mounting with centers 1 1/2". 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 3/4" diameter x 1 1/4" 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—1st, 55.00.
YOUR PRICE, Set Four Coils... **\$1.47**

3C6686—Broadcast coil range 200 to 550 meters.
YOUR PRICE... **45¢**

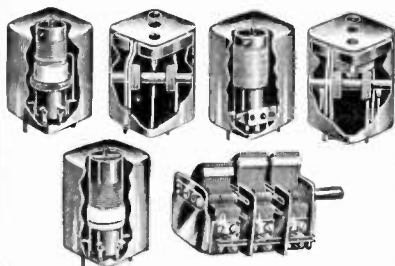
Coil and Matched Condenser Kits

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.

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-Preselector 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 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—no 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

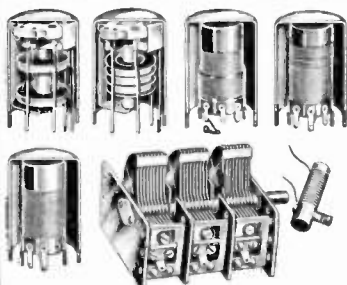
The coils and circuits for both receivers are designed to incorporate automatic volume control, tone control and visible meter tuning. These features in addition to the expertly engineered chassis make these receivers the finest radio it is possible to build.

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 5 microvolt sensitivity and 10 K.C. 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 transmittings 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 12½" long, 9" wide, 2½" deep.

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.

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 (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 under favorable conditions can be obtained on the regular broadcast band. Foreign broadcast, police calls, ship to shore communication and amateur transmittings 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 12½" long, 8" wide and 2½" 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 AC, DC coil kits. No other diagrams are included, neither can they be supplied.

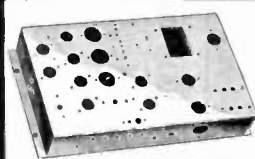
Kit of 2 coils consists of 1 Antenna Coil and 1 Radio Frequency coil. These coils are precision machine wound and with them a receiver the equal of many 6 and 7 tube models can be constructed. Under very favorable condition coast to coast reception can be obtained. Distance reception under practically 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 9x12½x2½"	Size 8x12½x2½"
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



band. Its compactness permits mounting in isolated positions well removed from stray R.F. fields, which, together with its load characteristics, especially 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 Collophane. 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 $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ in., 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

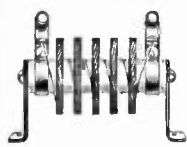
List, \$1.10

YOUR PRICE

65¢

HAMMARLUND

Heavy Duty Transmitting Choke



Designed for parallel feed 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 1500 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) $1\frac{1}{2}$ inch diameter by 2 inch long.

3E7204—Code CH500.

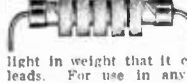
List, \$1.75

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 3/8 inch 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 $1\frac{1}{2}$ inch. Diameter $\frac{1}{2}$ inch. Maximum recommended D.C. 125 milliamperes.

3E7200—Code CH-X.

List, \$0.75

YOUR PRICE

44¢

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 $\frac{1}{2}$ inch centers. When mounting space is limited the legs can be removed and the choke mounted by means of two tapped holes on 1 inch centers in the aluminum bottom plate of the choke. The shield can measure $1\frac{1}{2}$ inch high by $1\frac{1}{2}$ inch 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

59¢

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 $1\frac{1}{2}$ inch high by 1 inch 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 superheterodyne 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, tuned 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. type, color coded for easy installation. Secondaries are either plain for standard screen grid 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 $2\frac{1}{2}$ inch outside diameter by $3\frac{1}{2}$ inch high. Mounting is by means of threaded lugs on 2 inch 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	97¢
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	97¢
3D7276	T-175-CT	175 K.C.	1.65	
3D7277	T-115-CT	115 K.C.	1.65	

Beat Oscillator

3E7185 | 7B0-465 | 465 K.C. | 2.00 | \$1.18

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 0.77%, the transformers providing a gain 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" 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 55's and 55's and other tubes of this type such as 2A'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 $2\frac{1}{2}$ inch diameter by 5 inch high mounted by two screws through the bottom of shield.

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" 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 55's and 55's and other tubes of this type such as 2A'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 $2\frac{1}{2}$ inch diameter by 5 inch high mounted by two screws through the bottom of shield.

Stock Number	Code	Peak	List Price	Your Price
3E7186	ATT-175	175 K. C.	\$4.50	\$2.65
3E7187	ATT-465	465 K. C.	4.50	2.65
3E7188	ATT-825	525 K. C.	4.50	2.65

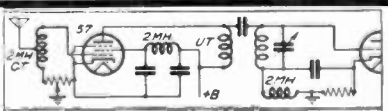
Center Tapped

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 exactly 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.

World Radio History

"Imp" Miniature Size R. F. Coils



1 7/16" Square 1 1/4" High

Unusually small aluminum shielded coils with spade bolt mounting. Designed for superheterodyne 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 rain 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

3D8600—One R.F. coil, One Ant. coil \$0.95

3D8601—Two " " " " 1.35

3D8602—Three " " " " 1.75

YOUR PRICE

Radio Frequency Chokes

For use on any Wave Length

Broadcast, Short and Long Wave Receivers

Lateral 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 $1\frac{1}{2}$ inch diam., $1\frac{1}{2}$ inch long. Insulated wire leads. Single mount screw projects $\frac{1}{2}$ inch.

Unshielded		Shielded	
Stock Number	Millihenries	Stock Number	Millihenries
3D6650	80	3D6660	80
3D6651	60	3D6661	60
3D6652	30	3D6662	30
3D6653	10	3D6663	10
3D6654	5 1/2	3D6664	5 1/2
3D6655	2 1/2	3D6665	2 1/2
3D6656	1 1/2	3D6666	1 1/2

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	3E8649-90 mh.
3E8638	3.18	3E8644	13.90	3E8650-120 mh.
3E8639	4.00	3E8645	16.00	3E8651-150 mh.
3E8640	5.70	3E8646	17.80	3E8652-200 mh.

Your Price Ea.

15¢

Your Price Ea.

22¢

Radio Frequency Chokes and Untuned Transformer

Unshielded chokes and transformers are wound on a $\frac{1}{2}$ inch by $\frac{1}{2}$ inch special impregnated dowel form with a 1 inch round bakelite wafer to hold the mounting lugs. The untuned transformer is supplied with four 1/8 inch coded leads. Shielded coils are in a $1\frac{1}{2} \times 1\frac{1}{2}$ inch high shield can. Spade bolts have $1\frac{1}{2}$ inch mounting centers. Single hole mounting by use of extra length screw at the top of the can. Shielded coils supplied with 5 inch flexible coded leads. See Diagram at left.

Stock Number	Inductance	For Circuit Frequency	Your Price
3E8655	700 Microh'y	4000-15000 KC	11¢
3E8656	2 Millih'y	1500-4000 KC	14¢
3E8657	2 Millih'y	Gen. Tap. Ant.	15¢
3E8658	4 Millih'y	456-1500 KC	16¢
3E8659	50 Millih'y	175-262 KC	34¢
3E8660	85 Millih'y	142 KC	62¢
3E8661	15 Millih'y	(UT) Untuned	38¢

Shielded R.F. Chokes

Stock Number	Inductance	For Circuit Frequency	Your Price
3E8662	700 Microh'y	4000-15000 KC	19¢
3E8663	2 Millih'y	1500-4000 KC	20¢
3E8664	2 Millih'y	Gen. Tap. Ant.	24¢
3E8665	4 Millih'y	456-1500 KC	24¢
3E8666	50 Millih'y	175 K.C.	42¢
3E8667	85 Millih'y	142 KC	82¢
3E8668	15 Millih'y	(UT) Untuned	46¢

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 two tubes 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 3/4" high, 5 1/4" wide, 2 3/4" 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¢**

YOUR PRICE

3E7176—Broadcast Coils. Set of 2. Wave length range 19 to 310 and 300 to 550 meters. List Price, \$1.85. **\$1.09**

YOUR PRICE

Batteries and Tube

4E10776—1 No. 6 Dry Cell, 1-45 Volt "B" battery and 1-type 30 tube. **\$1.64**

YOUR PRICE

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 six 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**

YOUR PRICE

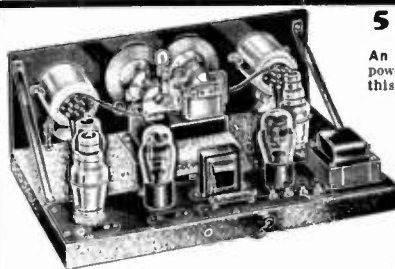
Tuning Range Extension Coils For Mascot 2, 3, 4, Tube Sets

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—9 1/2 to 21 Meters, Ultra Short Waves. List Price, \$4.00. **\$2.35**

YOUR PRICE

3E7180—Two Coils for Broadcast Ranges, 190 to 310 and 300 to 550 meters. List Price, \$7.50. **\$4.41**

YOUR PRICE



Masterful Performance

Single dial control of the R.F. and detector circuits is featured as well as band spread tuning for both stations 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 capacitor. 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 circuits. 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.

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 reception 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 R.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-six prong coils with 3 windings, 21 new 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**

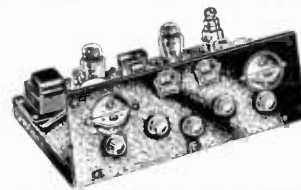
YOUR PRICE

3E7184—Broadcast Coils. Set of 4. Wave length range of kilis 190-310 and 300 to 550 meters. List Price, \$7.50. **\$4.41**

YOUR PRICE

4E10784—Kit of 5 Tubes, 1-'78, 1-'37, 1-'77, 1-'42, 1-'80. **\$2.89**

YOUR PRICE



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 Radiolek 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".....

Universal Mascot "4" Kit

14E10781—Complete Kit of Parts consisting of all parts for the 4 tube model. List, \$30.00. Less Tubes. **\$17.64**

YOUR PRICE

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.

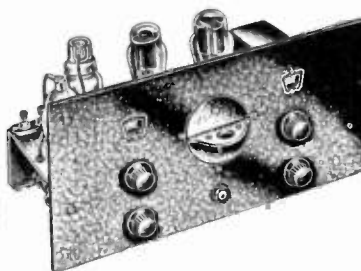
Appearance similar to the Mascot "4". Employs 1-6F7, 1-79, and 1-80 tubes. Panel size 7"x14" Chassis depth 6 3/4".....

14E10779—Complete Kit of Parts, Less Tubes. List Price, \$22.50. **\$13.23**

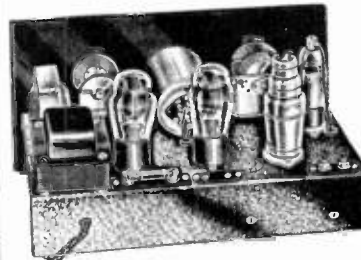
YOUR PRICE

4E10780—Tubes for Mascot "3", 1-6F7, 1-79, 1-80. **\$2.10**

YOUR PRICE



Front View showing convenient plug in coil. Rear View emphasis neat finished appearance.



Coil Shield with Base



Shield is 2 1/2" inside diameter 1 1/2" overall height. Grid lead hole in wall near top. Bases have oblong mounting holes to fit either 1/4 or 1/2" socket centers. Shield and base bright natural finish of 24 gauge aluminum.

3C6958—Coil Shield
—Code 0781—Basecode 0720.
PER SET 10¢

TEN FOR 85¢
PER HUNDRED \$7.95

Aluminum Coil Shields

3/4" outside diameter x 2 1/2" overall height. Heavy 22 gauge metal insures perfect grounding and eliminates interstage interference. Holes punched for standard spade bolt mounting lugs. Lugs not included. Bright natural finish.

3C6959—Coil Shield
—Code 0318.
EACH 10¢
TEN FOR 79¢
Per Hundred \$6.50

3C6960—Same as above except 4" high for longer coils.
—Coil Shield—Code 0318.
PRICE EACH 12¢

TEN FOR 98¢
PER HUNDRED \$8.50

Aluminum Coil Shields

2 1/2" inside diameter and 3" overall height. Holes for spade bolt mounting lugs. Bright finish. **3D7000**

← Your Price
Each **8¢**
Ten for 65¢

1 1/2" inside diameter and 2 1/2" overall height. 22 gauge mounting holes in side. Bright finish.

→ **3D7001**—YOUR PRICE
EACH **6¢**
Ten for 45¢

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 1/2" 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 85¢
PER HUNDRED \$7.90

Universal Coil Shield



A shield of many uses. Heavy drawn aluminum top. Height 4". Diameter 2 1/2". Base diameter 3 1/2" 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 net. Reinforced welded corners. Bright rust proof finish. Size 18" long, 10 1/2" wide and 2 1/2" deep.
4D10909
YOUR SPECIAL NET PRICE 29¢

New Ventilated Tube Shields

For 55, 57, 58 Tubes

Improved Non-Rattle Type



Ventilated shield has three formed ribs which press against the side of the tube to hold it rigidly—dampens vibration and microphonic disturbances. Natural finish aluminum metal. A wide range of base mounting sizes. Cap height 1 1/2" slotted for grid lead. Shell diameter 1 1/2" height 3 1/2". Overall height assembled 4 1/2".

Aluminum Stock Number	Base Mounting Centers	Price Each
3D7110	1 1/2"	Ten for 95¢
3D7111	1 1/4"	Mund'd \$7.75
3D7112	1 1/8"	

Standard Type Ventilated Tube Shields

For 55, 57, 58 Tubes

Same specifications as tube shield described above except that ventilated shield 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	10¢
3D6951	1 1/4"	3D6968	8¢
3D6952	1 1/8"	3D6969	8¢

Ten for \$0.80 Ten for .65¢
Hundred 6.70 Hundred \$5.75

Close Fitting Tube Shields



Save Space
— Cost Less —
Bright Rust-Proof Finish

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.

3E7106—Without Chimney.

Type ST-14

For large dome type (2A, 27, 32, 33, 34, 35, etc.) tubes.

3E7108—With Chimney.

YOUR PRICE, EACH **7¢**
10 FOR 60¢
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 1/8" sockets.

3C6955—Tube Shield
—Code 0132.
EACH 11¢
TEN FOR 95¢
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	\$0.89
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 painted 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 1/16 inch.

Stock Number	Size Inches	List Price	Your Price
3C7475	7x10	\$1.02	\$0.49
3C7476	7x12	1.26	.58
3C7477	7x14	1.50	.68
3C7478	7x18	1.98	.93
3C7479	7x21	2.28	1.05
3C7480	7x24	2.10	1.16
3C7481	7x30	3.00	1.43
3C7482	21x36	11.10	5.47

Special size aluminum panels cut to your specifications. Any width or length. Thickness about 1/16 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 capacitative 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 **10¢**
Ten for 79¢

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 and 1 1/8 inches.

3C6966—EACH **8¢**

TEN FOR 69¢
PER HUNDRED \$4.76

Two-Piece Tube Shields

For 24 and 27 Tubes
5" height when assembled, diameter 1 1/2". Bottom punched for spade bolts but bolts not furnished. Fits standard 1 1/2" mounting hole center socket. Top and bottom vent ventilated. Long slot for grid lead. 21 gauge polished aluminum.

3C6953—Shield—Code 01015—01016.
EACH 12¢

Ten for 98¢ 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 50¢, 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. Template 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	59¢
4E10916	10x17	77¢
4E10917	10x23	86¢

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 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 1/2 screws supplied. Base of post also tapped to take screw coming through base on which chassis is mounted. Complete set includes: 4 Corner Posts; 24 1/2 screws; and 4-1/4" long 1/2 screws for anchoring to any base.

Radio Alloy Shield Cans

All six sides made of rustless non-rusting zinc-copper-cadmium alloy which has superior shielding qualities. Attractive buffed silver finish. Heavy cast aluminum corner posts drilled and tapped for 1/2 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
3C6982	5x9	3.00	1.47
3C6985	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 1/2 in. thick aluminum pieces and tapped at each end to fit 1/2 in. machine screws. Thickness of metal overall 1/4 in.

3C6979—YOUR PRICE, EACH PIECE **18¢**

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 50¢ 1/4 in. Four 15-inch pieces would be billed at 50¢, 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 39c

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 62c



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 76c

Spring Clamp Binding Posts

3C6204—Plain (not marked).
3C6205—"Ant."
3C6206—"Gnd."
EACH 5c

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 $1\frac{1}{2}$ ".

Spring Clamp Binding Post Assembly

3C6207—GCH
12c
Ten for \$1.10
Two automatic, spring clamp, insulated top binding posts mounted on bakelite strip $2\frac{1}{2}$ " long, $\frac{1}{2}$ " wide, with mounting holes in centers. Completely equipped with soldering lugs—one grounded to chassis. Posts marked "ant." and "gnd."

Non-Removable Bakelite Top Binding Posts

3C6113—Plain. **EACH 9c**
3C6114—"Ant."
3C6115—"Gnd."
3C6116—" + "
3C6117—" - "
3C6118—Input. **Per Dozen 95c**
3C6119—Output.
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 24c

Double Binding Posts

3C6598
EACH 8c
Dozen 95c
Made of brass, polished nickel finish. Has two holes for wires or cord tips. Fits any thickness of panel.



Bakelite Trio-Tap

Three connections from one outlet. Bakelite body. Very strong, sturdy connection. Retail at 25c.

3D7027 Brown **Each 6c** **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 4c
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 11c
Ten for 95c

Two-Piece Attachment Plug

A sturdy, well designed, good quality composition plug. Brass blades with beveled ends.
3D7019—EA. 5c
3D7020—Caps Only 2c
EACH

Soft Rubber Cord Connector

Unbreakable. Easily wired into cord. For 110 volt lines. Standard size pin cap.
3D7035—Each.. 18c
Ten for \$1.59

Cord Connectors

For 110 volt service. Screw caps protect connections. Composition body. Overall length $2\frac{1}{2}$ ".
3D7036—Each 16c
Ten for \$1.49

Rubber Handle Cap

Strong, durable and convenient. Scientifically designed finger grip. Stiff, pliable, unbreakable rubber body.
3D7025—Black, Each 4c
Ten for 35c

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 0c
10 for 75c

Laundry Iron Elements

Standard replacement element for all 6 pound electric such as Westinghouse, Eagle, Sunbeam, etc. Fits 80% of irons.
3E7091—NET EACH 22c

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.

Brown
3D7039—For toggle switch.

3D7040—Duplex flush receptacle.

EACH 6c
Ten for 56c

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 Fire
3D7101 10 18c
3D7102 15 2c
3D7103 20 Per 100 \$2.94
3D7104 25
3D7105 30

Insulated Staples

$\frac{1}{4}$ -inch sharp pointed insulated staples for wire work. 100 in box. Shpg. wt., 8 oz.
3D7099—Per Box 11c

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. 9c
YOUR PRICE
3C7126—Eight Ounce 17c
Roll. YOUR PRICE

Nichrome Wire Lengths

3D7096—EACH 8c
Ten for 75c
Coiled nichrome wire, round size 22. Each length is 600 watts at 110 volts. Requires no further cutting and may be stretched to any lengths required.

Heater Element

3D7097 EACH 22c
Ten for \$2.10
Fits all screw type heaters. Best grade coiled nichrome wire wound on ceramic form. 110-120 volts, 600-660 watts.

Terminal Strip Assemblies With "Screw and Collar" Terminals and Single Unit Lug



Genuine laminated bakelite strip $\frac{1}{4}$ " thick, $\frac{1}{2}$ " wide. Latest type screw and collar terminals with rigid-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"	15c
3D8152	4	2 $\frac{1}{4}$ "	18c
3D8153	5	3 $\frac{1}{2}$ "	23c
3D8154	6	4"	28c
3D8155	7	4 $\frac{1}{2}$ "	30c

New Lug Terminal Strip Bakelite Insulation

3D8160
YOUR PRICE 8c
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. $1\frac{1}{2}$ inch long. Lugs tinned.



Five tinned lugs mounted securely on laminated bakelite strip $2\frac{1}{2}$ " 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 10c
Ten for 45c

Screw and Lug Assembly



Genuine bakelite strip $\frac{1}{4}$ " thick, $2\frac{1}{2}$ " long, $\frac{1}{2}$ " wide. Mounting holes $1\frac{1}{8}$ " centers. Wide head cadmium plated screws on $\frac{1}{4}$ " centers. Solder lugs riveted on, extend $\frac{1}{4}$ inch.
3C6208
PRICE EACH 7c
Ten for \$0.59
Per Hundred \$3.95

Bakelite Current Tap

Two side outlets for attachment plugs and one Edison screw receptacle with unno-thread shade holder.
3D7031
EACH 11c
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.
3E6150—4 prong. 10c
YOUR PRICE

AIRPLANE TYPE 2 1/2" Dial

With Escutcheon and Lamp Socket
6-1 Ratio

COMPLETE EACH 89¢

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 distinct indicating figures. Convex crystal lens. 3 1/2" diameter embossed escutcheon, bronze finished. Fits 3/8" shaft. Clockwise scale is marked 0-10 in upper portion with lower portion for Kilocycles 550-1500. Counterclockwise is marked 10-0 and 1500-550 respectively.

Airplane Scale, Pointer, Escutcheon For Direct Drive

Escutcheon and one dial face with two airplane pointers for mounting on 1/4" or 3/8" condenser shafts. Exactly the same face as supplied on the above dial scale.

3E6776 Green. Scale 10-0. 1500 to 550 K.C.

3E6777 Green. Scale 10-0. 550 to 1500 K.C.

3E6778 Amber. Scale 10-0. 1500 to 550 K.C.

3E6779 Amber. Scale 10-0. 550 to 1500 K.C.

YOUR PRICE 29¢

3 1/2" Airplane Dial

For Broadcast and Short-wave

With Escutcheon and Lamp Sockets
Ratio 2-1

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. Con-

convex crystal lens. Translucent

amber scale. Two lamp sockets

are supplied. This permits broadcast and short-wave scale to be illuminated independently by connecting pilot lights to a section on the coil change switch. Unusually smooth drive, no backlash. 4 1/2" bronze finish escutcheon. Fits 3/8" shaft. Supplied 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.

New Dual Ratio

For Short-Wave and Broadcast

Ratio 30:1 and 6:1
Your Price

97¢

Complete with Escutcheon and Lamp Socket

3E6780—Scale 100-0.

3E6781—Scale 0-100.

Ratio of dial can be alternated

from 30-1 to 6-1 by simply

pushing in or pulling out on

portion 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.

Full Vision Dial for Long and Short Wave Work

3E6782—

Clockwise

3E6783—

Counterclock

Complete

65¢

Dial and escutcheon with pilot light

socket. Extra high ratio 12 to 1. Friction

drive. Full vision illuminated scale

with traveling pointer. Bronze finish escutcheon

plate 4 1/2" wide, 2 1/4" high. Takes 3/8" shaft.

Midget Dial

42¢

Dial Only

3E6784—

Clockwise

3E6785—

Counterclock

3E6786—Escutcheon plate.

Extra 15¢

Tuning Ratio 4 1/2 to 1. For very

small sets. Scale 3" wide. Bronze finish. Escutcheon

2 1/4" wide, 2 1/4" high. Pilot light socket. Takes

3/8" condenser shaft.

Spot Light Full Vision

Complete 68¢

3E6787—

Clockwise

3E6788—

Counterclock

Tuning Ratio.

4 1/2 to 1. Light

travels with

pointer. Pilot

light socket in-

cluded. Takes 3/8" condenser shaft. Knob shaft

1/4". Bronze finished. Escutcheon 4 1/2" wide; 3 1/2"

high. Amber celluloid scale.

Spring Friction Drive

Dial

only. Each

47¢

3E6789—

Clockwise

3E6790—

Counterclock

3E6791—Escutcheon

plate extra. EACH 14¢

Tuning Ratio 6 to 1. Outside

diameter dial 4 1/2". Shaft hole for

3/8" shaft. Knob shaft 1/4". Cel-

luloid scale. Pilot light socket. Bronze finish.

Escutcheon plate 2 1/2" high, 2 1/2" wide.

3E6771—As above with hole for 1/4" shaft and

dial scale calibration 55 to 150. YOUR PRICE 34¢

DRUM DIAL

3E6800—

Without

Plate. 81¢

3E6801—Escutcheon

Plate. Extra each 17¢

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.

Celuloid scale 0-100. Bronze finish escutcheon plate

3 1/2" high, 2 1/2" wide. Fits Marvelo Model 30.

Note:—"C" (Clockwise) reads 0-100. "CC"

(Counterclockwise) 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 connection mountings as used in

various types sets. No bulbs included.

A. 3E6796—Upright clip mount.

B. 3E6797—Rivet mounting.

C. 3E6798—Reverse clip mount.

D. 3E6799—With rubber grommet.

Ten for....78¢—Per 100....\$7.25

Genuine G. E. Mazda Pilot Light Bulbs

Guaranteed quality. Consume minimum

of current. Miniature screw base. Diam-

eter about 3/8 inch. Abbreviations: Tub.—

Tubular; Rd.—Round.

Article Number Shape Volts Amperes TEN FOR

3E6900 Tub. 2.5 0.50

3E6906 Tub. 3.2 0.35

3E6901 Rd. 3.8 0.30

3E6902 Tub. 6.3 0.15

3E6913 Tub. 6-8. 0.20 65¢

Low Drain Pilot Lamps

Article Number Shape Volts Amperes Price Each TEN FOR

3E6903 Tub. 2. 0.06 20¢ \$1.47

3E6904 Tub. 2. 0.05 24¢ 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 33¢ \$2.45

3E6813 3.3 33¢ 2.45

3E6814 6.3 33¢ 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 20¢

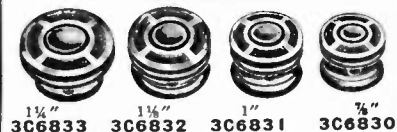
World Radio History

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 3C6836 3C6834

La Rose



3C6847 3C6846 3C6843 3C6842

EACH 9¢ Ten for 76¢ Per Hundred \$7.25

(May be assorted)

Bakelite Knobs



3E6828— 3E6827— 3E6829—

Each 6¢ Ten for 55¢ Per Hundred \$5.25

Finished in beautiful two-tone

walnut. Will harmonize well

with wooden panels. 3/8" shaft

hole. Set screw. Polished black

arrow pointer. White

bakelite. White

Newest Bakelite Knobs



Newest patterns. Cleanly moulded of best quality

genuine bakelite. All for 1/4" shafts.

3D6855 Style A 1" across. 1 1/2" high. Walnut

finish.

3D6856 Style B 1 1/4" diameter. 3/4" high.

For Midget Sets. Polished black finish.

3D6857 Style C 1" across. 3/4" high. Polished

black finish.

3D6858 Style D with Pointer. 1 1/4" across in-

cluding pointer. 3/4" high. For smallest midgets.

Fine Walnut finish. 7¢

EACH

Ten for 48¢

Drive Cables, Bands, Belts

For Standard Receiver Dials-Condensers

Make of Set Model Num. Stock Your Price

Atwater Kent 35, 37 3E6862 18¢

Crosley 40s, 60s, 80s 3E6876 18¢

Crosley 601, 602, 607 3E6877 24¢

Majestic No 1 70, 71, 72 3E6886 14¢

Majestic No. 2 70, 71, 72 3E6887 9¢

Philco All 3E6890 13¢

RCA Cord 16, 17, 18, 33 3E6893 12¢

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 1/2" wide. Translucent scale

marked 100-0-100. Fits 1/4" shaft.

3E6825—Black.

3E6826—Walnut.

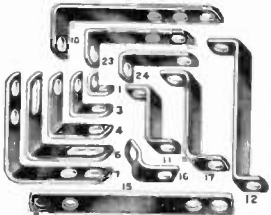
List, \$1.00.

YOUR PRICE, Each 42¢

Ten for \$3.95

Indispensable Hardware for Servicemen

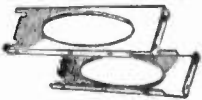
Angle Brackets



Brass nickel plated. For mounting panels, tubes, coils, grid leaks, etc. Width $\frac{1}{2}$ inches.

Stock Number	Code Num.	Size Inches	Ten For
3C4810	1	$\frac{1}{2} \times \frac{1}{2}$	9c
3C4811	3	$\frac{3}{4} \times \frac{3}{4}$	16c
3C4812	4	1×1	19c
3C4813	6	$1\frac{1}{2} \times 1\frac{1}{2}$	26c
3C4814	7	$1\frac{1}{2} \times 1\frac{1}{2}$	35c
3C4815	10	$1\frac{1}{2} \times 2\frac{1}{2}$	36c
3C4816	11	$2 \times \frac{1}{2}$ high	39c
3C4817	12	2 high	39c
3C4818	15	3 long	29c
3C4819	16	$\frac{3}{4} \times \frac{3}{4}$	16c
3C4820	17	1 high	25c
3C4821	23	$\frac{1}{2} \times 1\frac{1}{2}$	29c
3C4822	24	$\frac{1}{2} \times 1$	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 $2\frac{1}{4}$ in.

YOUR PRICE 20c

4 for 30c

3C4827. Type 26. Mounting hole centers $4\frac{1}{2}$ in.

YOUR PRICE. 4 for 40c

Service Angle-Bracket Assortment

3C4829. YOUR PRICE 25c

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 $\frac{3}{4} \times \frac{3}{4}$ angles, two 1×1 angles, two $1\frac{1}{2} \times 1\frac{1}{2}$ oval hole angles, six grid leak brackets, four $\frac{3}{4} \times \frac{3}{4}$ brackets, two 1×1 brackets and two $\frac{3}{4} \times \frac{3}{4}$ Z type brackets.

Fibre Washer Assortment



3C4830

YOUR PRICE

27c

100 piece assortment of fibre washers and grommets. A complete range of sizes. Plain and shoulder types to fit number 4-6-8-10 screws and $\frac{1}{4}$ in. 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 sprung spot welds or any type of construction.

Size No. 6			Size No. 7		
Stock Number	Price Gross	Length Inches	Stock Number	Price Gross	Length Inches
3D8175	30c	$\frac{1}{2}$	3D8185	32c	$\frac{1}{2}$
3D8176	32c	$\frac{3}{4}$	3D8186	34c	$\frac{3}{4}$
3D8177	35c	$\frac{1}{2}$	3D8187	36c	$\frac{1}{2}$
3D8178	37c	$\frac{3}{4}$	3D8188	38c	$\frac{3}{4}$
3D8179	40c	$\frac{1}{2}$	3D8189	41c	$\frac{1}{2}$
Size No. 8			Size No. 10		
3D8180	34c	$\frac{3}{4}$	3D8190	40c	$\frac{1}{2}$
3D8181	36c	$\frac{1}{2}$	3D8191	42c	$\frac{1}{2}$
3D8182	38c	$\frac{3}{4}$	3D8192	45c	$\frac{1}{2}$
3D8183	40c	$\frac{1}{2}$	3D8193	50c	$\frac{1}{2}$
3D8184	42c	$\frac{1}{2}$	3D8194	55c	$\frac{1}{2}$

Self-Tapping Screw Assortment

Most popular sizes used by set manufacturers. Can be used for replacement on Atwater-Kent, Hosh, Crosley, Fada, Majestic, Philco, etc. Ideal for general work. Does not require a nut. Consists of 24 screws of assorted sizes.

3D8195—List 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 $\frac{1}{8}$ in. thick.

Stock Num.	Fit Hole	Inside Diam.	Per Doz.	Per Hun.
3C4806	$\frac{1}{8}$	$\frac{1}{8}$	15c	59c
3C4807	$\frac{1}{4}$	$\frac{1}{4}$	17c	64c
3C4808	$\frac{3}{8}$	$\frac{3}{8}$	19c	69c
3C4809	$\frac{1}{2}$	$\frac{1}{2}$	21c	74c
3C4828	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. $\frac{3}{8}$ in. diam., $\frac{1}{8}$ in. high.

3D4793. $\frac{1}{2}$ in. diam., $\frac{1}{8}$ in. 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 $\frac{1}{2}$ in. 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.

3C4837. 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 Grille finish.

Stock Number	Length Screw	Per Dozen	Per Hundred
3C4794	$\frac{3}{4}$	15c	47c
3C4795	1"	17c	61c
3C4796	1 $\frac{1}{4}$	19c	75c

Stranded Phosphor Bronze Dial Cable



3C6850

25 foot coil

74c

3C6851. 100 foot spool \$2.65
Right 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 $\frac{1}{8}$ inch 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 6 hole for rivet or screw; threaded end and 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 a necessity 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 $\frac{1}{8}$ in.

3C6565— $\frac{1}{8}$ in. long.

3C6566— $\frac{1}{4}$ in. 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 $\frac{1}{2}$ in. long, $\frac{1}{2}$ in. 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 $\frac{1}{4}$ in. body diameter tubular rivets.

3D4710. YOUR PRICE. Each 59c

Shaft Couplings, Reducers, Extenders

Brass and Fibre Shafting

Machined brass fittings for coupling shafts of uniform or dissimilar diameter; for extending rheostat, volume control or switch shafts. Extension fittings are furnished to expand or reduce shaft diameter. Shafting is available in brass or fibre.

Supplied in Either Brass or Bakelite. Specify Brass or Bakelite on your order.

Stock Number	Style	Length	Description	Your Price
3D7290	A	$\frac{3}{4}$ " Long	$\frac{1}{4}$ " Hole I.D. $\frac{3}{4}$ " 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	$\frac{3}{8}$ " Hole I.D. $\frac{1}{2}$ " O.D. Coupling	12c
3D7293	D	$\frac{3}{4}$ " Long	$\frac{1}{2}$ " Hole I.D. $\frac{1}{2}$ " O.D. Coupling	12c
3D7294	E	1- $\frac{1}{4}$ " Long	$\frac{3}{8}$ " Hole I.D. $\frac{1}{2}$ " O.D. Extender	12c
3D7295	F	1- $\frac{1}{4}$ " Long	$\frac{1}{2}$ " Hole I.D. $\frac{1}{2}$ " O.D. Reducer	12c
3D7296	G	1- $\frac{1}{4}$ " Long	$\frac{3}{4}$ " Hole I.D. $\frac{1}{2}$ " 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	I	6" Long	$\frac{1}{4}$ " Diameter Fibre Shafting	18c
3D7300	I	12" Long	$\frac{1}{4}$ " Diameter Fibre Shafting	28c

Nickel Plated Cap Screws

Highly polished hexagonal head $\frac{3}{16}$ across and $\frac{1}{8}$ thick. Screw is $\frac{1}{8}$ in. long with standard $\frac{1}{2}$ thread.

3E6571—

Package of 100 16c

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.

3C6570. No. 1 Round Head Wood Screws.

Per Gross 29c

Push Button Switch

3D6358. Open Circuit.

YOUR PRICE 27c

EACH

Ten for \$2.50

Fine quality. Pearl center with polished nickel rim. Fits $\frac{1}{8}$ hole. Screw connectors eliminate soldering. Suitable for circuits up to 250 volts. 2 amps. Phosphor bronze contact.

3D6360. Same as above but for mounting in a $\frac{3}{4}$ in. diam. hole.

List Price 75c.

YOUR SPECIAL PRICE 20c

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- $\frac{3}{4}$ in., 20- $\frac{1}{2}$ in., 16- $\frac{1}{2}$ in., 10- $\frac{1}{2}$ in., 10-1 in. lengths.

3D4831. Round Head. } 24c

3D4832. Flat Head. }

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 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 $1\frac{1}{2} \times 8\frac{1}{2}$ in.

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 $1\frac{1}{2} \times 8\frac{1}{2}$ in.

3D4839. YOUR PRICE. Each 24c

Per Package 5 for \$1.05

Screws-Nuts

Round Head Machine



Screws

Brass—Nickel Plated

Stock Number	Length Inches	Size	Gross Price
3C6500	1/4	6-32	\$0.30
3C6501	1/2		.42
3C6502	3/4		.55
3C6503	1		.63
3C6504	1 1/2		.76
3C6505	2		1.05
3C6485 assortment equal quantities of each above lengths.			
PER GROSS			

Steel—Cadmium Plated

Stock Number	Length Inches	Size	Gross Price
3C6525	1/4	4-38	.19
3C6526	1/2		.21
3C6527	3/4		.21
3C6528	1		.24
3C6529	1 1/2		.27
3C6486 assortment equal quantities of each above lengths.			
PER GROSS			

Stock Number	Length Inches	Size	Gross Price
3C6530	1/4	6-32	.15
3C6531	1/2		.16
3C6532	3/4		.17
3C6533	1		.18
3C6534	1 1/2		.19
3C6535	2		.22
3C6536	2 1/2		.24
3C6537	3		.31
3C6538	3 1/2		.35
3C6539	4		.42
3C6540	4 1/2		.45
3C6541	5		.45
3C6487 assortment equal quantities of each above lengths.			
PER GROSS			

Stock Number	Length Inches	Size	Gross Price
3C6542	1/4	6-32	.25
3C6543	1/2		.28
3C6544	3/4		.35
3C6545	1		.39
3C6546	1 1/2		.41
3C6547	2		.52
3C6548	3		.63
3C6549	4		1.35
3C6488 assortment equal quantities of each above lengths.			
PER GROSS			

Stock Number	Length Inches	Size	Gross Price
3C6546	1/4	10-32	.30
3C6547	1/2		.45

Flat-Head Machine Screws



Brass—Nickel Plated

Stock Number	Length Inches	Size	Gross Price
3C6506	1/4	6-32	\$0.30
3C6507	1/2		.42
3C6508	3/4		.55
3C6509	1		.63
3C6510	1 1/2		.76
3C6511	2		1.05
3C6489 assortment equal quantities of each above lengths.			
PER GROSS			

Steel—Cadmium Plated

Stock Number	Length Inches	Size	Gross Price
3C6548	1/4	6-32	.15
3C6549	1/2		.18
3C6550	3/4		.20
3C6551	1		.22
3C6552	1 1/2		.25
3C6490 assortment equal quantities of each above lengths.			
PER GROSS			

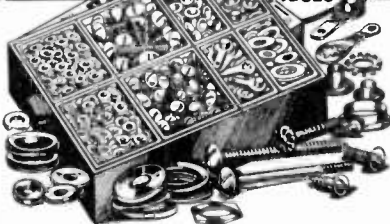
Round Head Wood Screws



Brass, Nickel Plated

Stock Number	Length Inches	Size	Gross Price
3C6512	1/2	5	.24
3C6513	3/4	5	.26
3C6514	1	5	.36
3C6515	1 1/2	6	.45
3C6491 assortment equal quantities of each above lengths.			
PER GROSS			

JUMBO BOX 900 RADIO HARDWARE ASSORTMENT



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 6-32 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,

Handy Hardware Assortment. 900 assorted nuts, screws, bolts, washers, eyelets, lock washers and grommets.

3D684 YOUR PRICE

95c

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 micarta tubing. Smooth polished surface. Natural finish. All tubing listed has a "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 1/2"	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 for
3C7444	1"	35c	\$1.30
3C7445	1 1/2"	40c	1.50

Stock Number	Outside Diam.	Price Foot	Four Feet for
3C7446	1 1/2"	45c	1.70
3C7447	2"	50c	1.90
3C7448	2 1/2"	55c	2.10
3C7449	3"	60c	2.30

Stock Number	Outside Diam.	Price Foot	Four Feet for
3C7450	2 1/2"	65c	2.50
3C7451	3"	70c	2.65
3C7452	3 1/2"	75c	2.80
3C7453	4"	80c	2.95

Stock Number	Outside Diam.	Price Foot	Four Feet for
3C7454	4 1/2"	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	Price Each	Ten For
3C7465	1/2"	1/8"	1/8"	49c	
3C7466	3/4"	1/4"	1/8"	59c	
3C7467	1"	1/2"	1/8"	49c	
3C7468	1 1/2"	3/4"	1/8"	59c	
3C7469	2"	1"	1/8"	49c	
3C7470	2 1/2"	1 1/4"	1/8"	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.	Price Each	Ten For
3C7457	1/2"	50c	\$4.25
3C7458	3/4"	50c	4.25
3C7459	1"	50c	4.25
3C7460	1 1/2"	55c	4.75
3C7461	2"	65c	6.00
3C7462	2 1/2"	75c	6.90
3C7463	3"	90c	8.10

Combination Rivet—Solder Lug



Rivet fits 1/8" hole. Illustration exact size. Plated with solder coating.

Stock Number	Price Each	Ten For
3C6585	29c	
PER HUNDRED		
Per Thousand		

Bakelite Panels



We supply best grade bakelite panels. Machine well without chipping. Black finish.

No.	Thick.	Size In.	Each	No.	Thick.	Size In.	Each
3C7420	1/8"	7x10	\$0.98	3C7424	1/8"	7x12	1.18
3C7421	1/8"	7x12	1.18	3C7425	1/8"	7x14	1.38
3C7422	1/8"	8x14	1.38	3C7426	1/8"	7x18	1.77
3C7423	1/8"	11x18	1.77	3C7427	1/8"	7x21	1.95
				3C7428	1/8"	7x24	2.15
				3C7429	1/8"	7x28	2.35
				3C7431	1/8"	7x30	2.55
				3C7432	1/8"	7x36	2.70
				3C7433	1/8"	7x36	3.20

Supplied 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.

Stock Number	Price Each	Stock Number	Price Each
603C7417—1/8" inch thick.		603C7418—3/8" inch thick.	
Per sq. inch. Net.	1 1/2c	Per sq. inch. Net.	1 1/2c
603C7419—1/4" inch thick.		Per sq. inch. Net.	2 1/2c

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 3/16 inch. Average shipping weight, 3 pounds.

Black	Price Each	Walnut	Price Each
3C7400	\$0.56	3C7408	\$0.88
3C7401	.69	3C7409	.82
3C7402	.82	3C7410	.94
3C7403	1.03	3C7411	1.24
3C7404	1.19	3C7412	1.45
3C7405	1.35	3C7413	1.63
3C7406	1.51	3C7414	1.78
3C7407	1.76	3C7415	2.06

Insulating Washers

For insulating equipment mounted on flat metal panels or chassis.

Flat Washers

Stock Number	Outside Diameter	Hole Diameter	Thick. neis	Ten for
3C6450	1 1/2"	1"	1/8"	8c
3C6451	1 1/2"	1"	3/16"	
3C6453	1 1/2"	1"	1/4"	
3C6454	1 1/2"	1"	3/8"	
3C6455	1 1/2"	1"	1/2"	
3C6456	1 1/2"	1"	3/4"	

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"	3/4"	3/4"	1/8"	1/8"	12c
3C6459	1 1/2"	1"	1"	1/8"	1/8"	
3C6460	1 1/2"	1"	1"	3/16"	3/16"	
3C6461	1 1/2"	1"	1"	1/4"	1/4"	
3C6462	1 1/2"	1"	1"	3/8"	3/8"	

Lugs-Washers

Hexagon Nuts

Made of brass, nickel plated. Chamfered and countersunk for quick assembly work. Size 1/2".

Stock Number	Size	Price Hundred
3C6520	1/2"	22c
Steel—Cadmium Plated		
3C6555	1/4"	18c
3C6556	3/8"	19c
3C6557	1/2"	20c
3C6558	3/4"	35c

Flat Washers



Made of brass, nickel plated. Fit size 6 screws.

Stock Number	Size	Price Hundred
3C6521	1/2"	21c
Steel—Cadmium Plated		
3C6560	4	18c
3C6561	6	19c
3C6562	8	20c
3C6563	10	28c

Locking Lugs and Washers



Insure permanent tight connections. When nut is tightened down they will not loosen regardless of vibration or shaking. Tinned.

3C6588—1/2" lug with #8 hole.	
3C6589—3/4" lug with #8 hole.	
3C6590—1/2" washer with #8 hole.	
3C6591—3/4" washer with #8 hole.	
Per Hundred	25c
PER THOUSAND	\$1.75



Flat Lugs

3C6586	18c
PER 100	
Per Thousand	\$1.55
Flat lug with two holes. Illustration is actual size. Best tinned lug on the market; makes soldering easy. Punched 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	
Per Thousand	\$1.45

Shield Grid Clips—Lugs

Slips over grid terminal on top of shield grid tubes. Lug type solder, 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



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 tips. Widely spaced solder lugs tinned and pierced. Overall length $\frac{3}{4}$ " width $\frac{1}{4}$ ". Mounting centers $\frac{1}{2}$ ". Will mount in cut out $1\frac{1}{2}$ " x $\frac{1}{2}$ ". Engraved "Speaker" or "Phone." Priced far below its actual value.

3D6356. Engraved "Speaker."
3D6357. Engraved "Phone."
YOUR PRICE **4c**
TEN FOR 35c

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.
3C6440—Code 2001. Non-locking.
3C6440—Code 2001L. Locking.
List Price \$0.90.
YOUR PRICE **53c**

Single Pole-Single Throw
Breaks Contact in Single Circuit.
3C6431—Code 2002. Non-locking.
3C6441—Code 2002L. Locking.
List Price \$0.90.
YOUR PRICE **53c**

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 **59c**

Double Pole-Single Throw; Open
Makes contact in two separate circuits when depressed. Both circuits open in "up" position.
3C6433—Code 2004. Non-locking.
3C6443—Code 2004L. Locking.
List Price \$1.20.
YOUR PRICE **70c**

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 **70c**

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 **88c**

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 **97c**

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.
3C6446—Code 2007L. Locking.
List Price \$1.30.
YOUR PRICE **76c**

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 $\frac{1}{4}$ inch hole or will fit $\frac{3}{8}$ " hole if used with extruded mounting washer listed below. Solder lug terminal.

3D6345 Green
3D6346 Red
3D6347 Black
3D6348 Brown
YOUR PRICE, Each **5c**
TEN FOR **40c**
Per Hundred **\$3.75**



Fibre Washers to insulate jacks when mounting on metal panel or chassis. Diameter $\frac{1}{2}$ inch, extruded to fit $\frac{3}{8}$ inch hole.
3D6461. Ten for **12c**

Short Jacks



Smallest made. Solder lugs widely spaced. Heavy bakelite insulators eliminate leakage. Mount in $\frac{3}{8}$ inch hole on $\frac{1}{4}$ to $\frac{3}{8}$ inch panels. Make any standard plug.

3C6366—No. 1—Open Circuit. List, 25c. Net. **15c**

3C6367—No. 2A—Single, Closed Circuit. List, 30c **YOUR PRICE** **18c**

Frost Gem Jacks

Very compact. Extend $\frac{1}{2}$ inch back of panel. Mount in single "A" hole on any panel not over $\frac{1}{4}$ " thick. Nickel plated solder lug connections. Two washers included.



3C6396—Code 953—Open circuit. **EACH** **17c**

3C6397—Code 954—Closed circuit. **EACH** **17c**

3C6398—Code 951—Double circuit. **EACH** **19c**
3C6399—Code 955—Single circuit filament control. **EACH** **20c**

Extension Connector



Eyelet anchors securely fasten cords and relieve strain from terminals.

3C2300—Code 955—Single. **YOUR PRICE, Each** **6c**
Ten for 55c 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 **12c**
Per Hundred **65c**

3C2244—Double connector. Dozen **28c**
Per Hundred **\$1.59**

Flat Jack Plug



3C6364—List Price 50c.
YOUR PRICE **29c**
Body $1\frac{1}{2}$ in. diameter, $\frac{1}{4}$ in. thick. Best for wall plate connection. Polarity indicated.

Standard Jack Plug



3C6362 List Price 35c. **Each** **10c**
Ten for **95c**

Moulded body $1\frac{1}{4}$ inch diameter with eyelet for anchoring cord.

Two Way Jack Plug



3C6363 List Price 50c.
YOUR PRICE **26c**
EACH **26c**
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 $\frac{1}{4}$ " hole on panels of thickness up to $\frac{1}{4}$ ". With nut and solder lug.

3D6370—Code 700. **EACH** **4c**
Ten for 35c. Per Hundred \$2.75

Fibre washers to insulate jacks when mounting on metal panel or chassis. Diameter $\frac{1}{2}$ inch, extruded to fit $\frac{3}{8}$ inch hole.
3D6461. Ten for **12c**

Yaxley Jack Switches



Small and compact. Mount in $\frac{1}{4}$ inch hole on panels up to $\frac{1}{4}$ " thick. Insulated knob with indicating pin set screw.

Lock nut, washer, etched indicating plate included. $\frac{1}{4}$ inch diam. shaft. Including lugs, they project $1\frac{1}{4}$ inches back of panel. $1\frac{1}{2}$ inches wide. $1\frac{1}{2}$ to $1\frac{3}{4}$ 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 **40c**

Single Pole-Double Throw
3C6421—Code 730. 3 spring. Connects input circuit to either one of two output circuits. List Price 85c.
YOUR PRICE **50c**

3C6422—Code 732. 3 spring. Same as Code 730, except has center neutral position. List, 90c.
YOUR PRICE **50c**

Double Pole-Single Throw
3C6423—Code 710. 4 spring. Makes and breaks two circuits. List, 95c.
YOUR PRICE **55c**

Three Circuit
3C6424—Code 715. 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 **65c**

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 **72c**

3C6426—Code 762. Double pole, double throw. Same as Code 760, but with center neutral position. List, \$1.20.
YOUR PRICE **71c**

Triple Pole-Double Throw
3C6427—Code 763. With center neutral position. List, \$1.55.
YOUR PRICE **91c**

Four Pole-Double Throw
3C6428—Code 761. 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 $\frac{3}{8}$ " hole. Terminal lugs widely spaced.

3C6354 Non-locking {Price **50c**
3C6355 Locking {Each

S. P. S. T. Toggle Switch



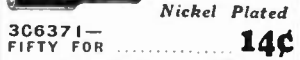
A quality H & H switch with 8" stranded insulated leads. Standard $\frac{3}{8}$ " bushing is $\frac{3}{8}$ " long and fitted with a locking ring.
3C6344—Code 700. **YOUR PRICE** **10c**
Ten for 75c

Rotating Type "Panel" Switch



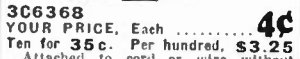
Single Pole. Single Throw. Shaft takes knob. Threaded $\frac{3}{8}$ " diam. mounting sleeve $\frac{1}{2}$ " long. Shaft extends $\frac{1}{2}$ " beyond sleeve. Locknut included.
3C6325—Code 700. **YOUR PRICE** **15c**
Ten for \$1.35

Solder Cord Tips



Brass. Nickel Plated.
3C6371—Code 700. **FIFTY FOR** **14c**
Per hundred **25c**

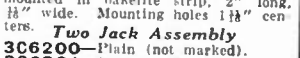
Solderless Tip Plug



3C6368—Code 700. **YOUR PRICE, Each** **4c**
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



Sure contact, nickel tip jacks mounted in bakelite strip, 2" long, $\frac{1}{4}$ " wide. Mounting holes $\frac{1}{4}$ " centers. **Two Jack Assembly**
3C6200—Plain (not marked).
3C6201—Marked "Phone."
3C6202—Marked "Speaker."
Each, 6c. Ten for **55c**

Three Jack Assembly
3C6203—Plain. Each, 9c. Ten for **82c**

Yaxley Junior Jacks



Same construction as jack switch except has hole for receiving any standard jack. Mount in $\frac{1}{4}$ " hole on panels not over $\frac{1}{4}$ " thick.

3C6405—Code 701. "Open Circuit." One insulated spring. List Price 40c.
YOUR PRICE **24c**

3C6406—Code 702. "Closed Circuit." Two insulated springs. List Price 55c.
YOUR PRICE **32c**

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 **33c**

3C6408—Code 703. "Two Circuit." Three insulated springs. List Price 65c.
YOUR PRICE **38c**

3C6409—Code 703A. "Circuit Reversing." Three insulated springs. List Price 65c.
YOUR PRICE **39c**

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 $\frac{3}{8}$ " diameter. Two locknuts included. Very rugged. Best quality. H. & H. brand. Laminated bakelite or fiber insulation. Slider lug connections.

Single Pole—Single Throw



2 Connections
Makes and breaks a single circuit.
Standard "ON" and "OFF" switch.
Mounting sleeve $\frac{3}{8}$ " diameter.

Stock Number	Sleeve Length	Price Each	Ten For
3C6300	$\frac{1}{4}$ "	17c	\$1.58
3C6301	$\frac{1}{2}$ "	21c	1.95
3C6302	$\frac{3}{4}$ "	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 $\frac{3}{8}$ " diameter.



Stock Number	Sleeve Length	Price Each	Ten For
3C6303	$\frac{1}{4}$ "	22c	\$2.10
3C6304	$\frac{1}{2}$ "	24c	2.20
3C6305	$\frac{3}{4}$ "	27c	2.50

Double Pole—Single Throw



4 Connections
Cuts two circuits in and out. "On" and "Off" for two circuits. Mounting sleeve $\frac{3}{8}$ " diameter.

Stock Number	Sleeve Length	Price Each	Ten For
3C6306	$\frac{1}{4}$ "	24c	\$2.20
3C6307	$\frac{1}{2}$ "	27c	2.50
3C6308	$\frac{3}{4}$ "	30c	2.80

Double Pole—Double Throw

6 Connections

Feeds two circuits into either one of two pairs of circuits. A new development of many uses. Mounting sleeve $\frac{3}{8}$ " diameter.



Stock Number	Sleeve Length	Price Each	Ten For
3C6309	$\frac{1}{4}$ "	44c	\$4.25
3C6310	$\frac{1}{2}$ "	47c	4.50
3C6311	$\frac{3}{4}$ "	49c	4.60

Special Toggle Switches



Underwriters approved 125 V. 6 amp.; 250 V. 3 amp. Bakelite body. Slider lug connections. Mounting sleeves $\frac{3}{8}$ " diameter. Two locknuts included.

Single Pole—Single Throw

2 Connections

Makes and breaks a single circuit

Stock Number	Sleeve Length	Price Each	Ten For
3C6335	$\frac{1}{4}$ "	14c	\$1.30
3C6336	$\frac{1}{2}$ "	16c	1.50
3C6337	$\frac{3}{4}$ "	18c	1.75

Double Pole—Double Throw

6 Connections

Stock Number	Sleeve Length	Price Each	Ten For
3D6341	$\frac{1}{4}$ "	28c	\$2.70
3D6342	$\frac{1}{2}$ "	32c	2.95
3D6343	$\frac{3}{4}$ "	35c	3.20

Rotary Panel Switches



Underwriters approved. For knob operation. 3 amp., 250 volts. Best quality. H. & H. brand. Cadmium plated lugs. Supplied with locknuts. Mounting sleeve $\frac{3}{8}$ " diameter. Knob shafts extend 1" beyond threaded sleeve.

Single Pole—Single Throw

2 Connections

Stock Number	Sleeve Length	Price Each	Ten For
3E6312	$\frac{1}{4}$ "	19c	\$1.70
3E6313	$\frac{1}{2}$ "	22c	1.95
3E6314	$\frac{3}{4}$ "	25c	2.25

Single Pole—Double Throw

3 Connections

Stock Number	Sleeve Length	Price Each	Ten For
3E6316	$\frac{1}{4}$ "	24c	\$2.20
3E6317	$\frac{1}{2}$ "	27c	2.50
3E6318	$\frac{3}{4}$ "	31c	2.95

Double Pole—Single Throw

4 Connections

Stock Number	Sleeve Length	Price Each	Ten For
3E6319	$\frac{1}{4}$ "	36c	\$3.40
3E6320	$\frac{1}{2}$ "	42c	3.95
3E6321	$\frac{3}{4}$ "	46c	4.32

Double Pole—Double Throw

6 Connections

Stock Number	Sleeve Length	Price Each	Ten For
3E6322	$\frac{1}{4}$ "	42c	\$3.95
3E6323	$\frac{1}{2}$ "	48c	4.60
3E6324	$\frac{3}{4}$ "	51c	4.95

Key Lock Switch

Double Pole—Single Throw

4 Connections

3C6315
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 $\frac{3}{8}$ " 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-Insulation 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 $\frac{1}{4}$ ". Shaft extends 1". Switches are $\frac{3}{4}$ " wide and $1\frac{1}{4}$ " 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 $2\frac{1}{4}$ 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

Stock Number	Poles	List Price	Your Price
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 $1\frac{1}{2}$ " 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

3C6695 With black knob. EACH 10¢



Tapered polished knob. Nickel plated 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. 422 A. Two spring. Closes one contact. List, 50c. YOUR PRICE 29¢

3C6351—No. 444-A. Four springs. Makes 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 $\frac{1}{2}$ inch hole on panels not over $\frac{1}{4}$ inch thick. Locknut holds switch securely in place. Contacts severely mounted on punched bakelite form. Phosphor bronze wiping contact arm makes continuous contact on ring lug 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 indicating contact positions. Diameter overall $1\frac{1}{2}$ inches. Four gang size projects 2 inches back of panel; one gang projects $\frac{1}{2}$ inch. These are smooth working and solid switches. No wearing nor play even in multi-gang with wide spacing.

Single Gang

Short's Type	Non Short's Type	Stock Number	Points	List Price	Your Price
YC1512	YC1612	2			
YC1513	YC1613	3	90c		53c
YC1514	YC1614	4			
YC1515	YC1615	5			
YC1516	YC1616	6	95c		56c
YC1517	YC1617	7			
YC1518	YC1618	8			
YC1519	YC1619	9	\$1.15		68c
YC1520	YC1620	10			

Two Gang

YC1522	YC1622	2			
YC1523	YC1623	3	\$1.50		88c
YC1524	YC1624	4			
YC1525	YC1625	5			
YC1526	YC1626	6	\$1.60		94c
YC1527	YC1627	7			
YC1528	YC1628	8			
YC1529	YC1629	9	\$1.90		\$1.12
YC1520	YC1620	10			

Three Gang

YC1532	YC1632	2		
YC1533	YC1633	3	\$2.10	\$1.23
YC1534	YC1634	4		
YC1535	YC1635	5		
YC1536	YC1636	6	\$2.20	\$1.29
YC1537	YC1637	7		
YC1538	YC1638	8		
YC1539	YC1639	9	\$2.50	\$1.47
YC1530	YC1630	10		

Four Gang

YC1542	YC1642	2			
YC1543	YC1643	3	\$2.70		\$1.59
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. 444. 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	Stock Number	Price 8 oz. Net wt. Spool	Ft. per Spool	SIZE
3E2100	22c	63	18	3E2115	24c	61	
3E2101	24c	100	18	3E2116	27c	96	
3E2102	29c	155	20	3E2117	31c	150	
3E2103	31c	245	22	3E2118	33c	232	
3E2104	35c	380	24	3E2119	37c	355	
3E2105	43c	600	26	3E2120	48c	540	
3E2106	46c	925	28	3E2121	61c		
3E2107	54c	1430	30	3E2122	73c	1210	

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.

WHITE DOUBLE COTTON COVERED

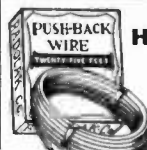
PLAIN ENAMELED

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
3E2145	42c	62
3E2146	45c	100
3E2147	47c	157
3E2148	55c	247
3E2149	63c	389
3E2155	72c	610
3E2157	97c	1480

Price 8 oz. Net Wt. Spool	Price 4 oz. Net Wt. Spool
3E2138 \$0.38 2550	3E2158 \$0.71 1142
3E2139 .46 4040	3E2159 .94 1745
3E2140 .59 6400	3E2160 1.29 2625
3E2141 .75 10150	3E2161 1.82 3875
3E2142 1.03 10050	3E2162 2.59 5325



Push-Back Hook-up Wire

Tinned copper wire, cotton served and covered with a paraffined damp-proof braid. Simply 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	YOUR PRICE PER ROLL
10c	37c

9 Rolls (One Each Color) for 85c
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	YOUR PRICE PER ROLL
12c	43c

9 Rolls (One Each Color) for 99c
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	YOUR PRICE PER ROLL
13c	47c

9 Rolls (One Each Color) for \$1.08
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	YOUR PRICE PER ROLL
14c	49c

9 Rolls (One Each Color) for \$1.15
9 Rolls (One Each Color) for \$4.05

"Spaghetti" Tubing



30-inch lengths. The best quality spaghetti made. Made of high grade cumbria 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

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. 8894, 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

3E2040-Red

3E2041-Green

3E2042-Blue

3E2043-Black

3E2044-Yellow

3E2045-Gray

YOUR PRICE Per Coll 15c

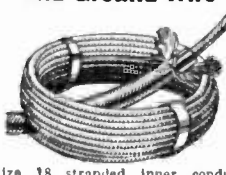
3E2052-Red

3E2053-Black

10 lengths for 29c

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.

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 coll. 45c

EACH

3E2196—100 foot coll. 88c

EACH

3E2194—250 foot coll. \$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	Coll Feet	Per Coll	Ten Colls for
3E2165	25	\$0.16	\$1.40
3E2166	50	.27	2.45
3E2167	100	.55	4.95
3E2168	1000	4.75	

Stranded Conductor

Rubber Covered—No outer braid.

Stock Number	Coll Feet	Per Coll	Ten Colls for
3E2169	25	\$0.12	\$1.05
3E2170	50	.23	2.05
3E2171	100	.45	4.20
3E2172	1000	3.95	

Rubber Covered Hook-up Wire



Stranded, tinned copper wire covered with a live rubber insulation to withstand any voltage ordinarily used in radio. Best for short leads and ease of wiring. Belden 25-foot coils

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

65 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 Equiv. Size Coll Feet Per Coll Ten Colls

3E2175 27 50 9c \$0.80

3E2176 24 50 13c 1.25

3E2177 22 50 17c 1.65

3E2178 27 75 13c 1.25

3E2179 24 75 19c 1.80

3E2180 22 75 25c 2.40

3E2181 27 100 17c 1.60

3E2182 24 100 22c 1.80

3E2183 22 100 31c 2.95

3E2184 14 100 28c 2.70

Enameled Copper Wire 7 Strand Conductor

Stock Number Equiv. Size Coll Feet Per Coll Ten Colls

3E2185 22 50 21c \$1.90

3E2186 22 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 2.95

3E2192 12 100 48c 4.50

Shielded Low Capacity Cable



For Auto Antenna Lead-in and Short Wave Converters. Stranded copper conductor size 18. Rubber insulated. Jute 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— $\frac{1}{4}$ " Outside Diam. **67¢**

10 feet for
100 feet for **\$6.23**

4E11066— $\frac{1}{2}$ " Outside Diam. **49¢**

10 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— $\frac{1}{4}$ " Outside Diam. **97¢**

10 feet for
100 feet for **\$9.50**

Shielded Low Capacity Weatherproof Tubing



$\frac{1}{4}$ " 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 $\frac{1}{4}$ ". Consists of a thoroughly impregnated loom tubing covered with a finely woven tinned copper shield.

4E11068—10 ft. coll. **46¢**

YOUR PRICE
100 feet for **\$3.95**

Shielded Ignition Cable



7 M/M shielded secondary high tension wire. For leads from plugs to coil, distributor to coil, etc. Conductor consists of 16 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 65 size 30 stranded copper wires. 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 **\$2.52**

Tinned "Bus" Wire

No. 14. Cut into two-foot lengths.

3C2067—Round, 10 **13¢**

Lengths. (20 feet)
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, $\frac{1}{4}$ " rubber insulated and braid covered. Each covering is distinctively colored for easy tracing. Individual conductors are braid 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



Shielded Covering Overall

Each conductor size 18 of stranded copper wires, $\frac{1}{4}$ " rubber insulated and braid covered. Each covering is distinctively colored for easy tracing. Individual conductors are braid 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 Glazed Braid Overall

Each conductor size 18 of stranded copper wires, $\frac{1}{4}$ " rubber insulated and braid covered. Each covering is colored for easy tracing. Conductors braid 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	Each	Ten For
3C2310	10	18c	\$1.71
3C2311	20	24c	2.28
3C2312	30	35c	3.33
3C2313	50	49c	4.65

With Connector

Stock Number	Length	Each	Price
3C2314	20 foot	29c	
3C2315	30 foot	39c	
3C2316	50 foot	54c	



Rubber Jacket Overall

Each conductor size 18 of stranded copper wires, $\frac{1}{4}$ " rubber insulated. Distinctively colored for easy tracing. Individual conductors are braid 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	8.90



Woven Shield Covered With Rubber Jacket Overall

Each conductor size 18 of stranded copper wires, $\frac{1}{4}$ " rubber insulated and braid covered. Each covering is distinctively colored for easy tracing. Individual conductors are braid 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

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 therm-relay circuits, oil burners and heat control devices but will make an excellent temporary cable for microphone current where the cable is not subject to any 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—100 ft. roll. **\$1.19**

YOUR PRICE

Analyzer Cable 8 and 9 Conductor



Has two heater leads of size 18 stranded tinned copper wire. Balance of conductors are size 20. All conductors are cotton served, covered with a $\frac{1}{4}$ " rubber insulation, and a lacquer dipped color-coded cotton braid. Black glazed braid overall. Supplied in 5 ft. lengths. Longer lengths are available. Add 6c for each additional foot of 8 wire cable and 9c for each additional foot of 9 wire cable.

5E0772—8 wire cable. **29¢**

5E0773—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 sleeve and the sleeve 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 Number	Diam.	Wide 10 ft.	50 ft.
4E11072	1 in.	42c	\$1.65
4E11073	$\frac{1}{2}$ in.	30c	1.25
4E11074	$\frac{3}{4}$ in.	20c	.85
4E11075	$\frac{1}{4}$ in.	15c	.60

Individual Wires Tinned

Stock Number	Diam.	Wide 10 ft.	50 ft.
4E11076	1 in.	60c	\$2.44
4E11077	$\frac{1}{2}$ in.	41c	1.71
4E11078	$\frac{3}{4}$ in.	30c	1.35
4E11079	$\frac{1}{4}$ 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-Q-Stat, etc., when used in locations near ignition systems for oil-burning furnaces, X-Ray and Electrotherapy 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 coll. **\$1.25**

YOUR PRICE

3D2198—100 foot coll. **\$2.18**

YOUR PRICE

Duplex Wire Lead Sheathed



Two conductor cable of the same specifications of the single wire listed above covered with $\frac{1}{2}$ inch 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. coll. **\$2.35**

YOUR PRICE

3D2200—100 ft. coll. **\$3.95**

YOUR PRICE

Pigtail Wire



3C2387—10 foot. **20¢**

List Price, 35c.

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 $\frac{1}{4}$ " rubber jacket. Beautiful smooth brown finish. Flat oval shape $\frac{1}{4}$ " wide, $\frac{1}{4}$ " thick. Illustration is actual size. Extremely flexible.

4E11049—10 foot length. **29¢**

YOUR PRICE

250 foot roll for **\$4.50**

Insulators

Wall Insulator

For supporting wiring or instruments, or may be used outside for supporting lead-in or ground wires. Glazed porcelain. Nuts and washers as shown. Dimensions: 2 1/4 x 3 1/2 inches. Shpg. wt., 8 oz.

3E2230—YOUR PRICE **8¢**

Ten for **70¢**

Aerial Insulators

Glazed porcelain, deeply corrugated to prevent leakage. Holes at each end for attaching wires. Shpg. wt., 1/4 lb.

3E2232—2 1/2 inches long.

Ten for **18¢**

100 Lots, \$1.75

3E2233—4 inches long.

Each **5¢**

Ten for **46¢**

3E2234—5 inches long.

Two for **17¢**

Insulator

3E2237—With 3 inch long screw.

Each **2 1/2¢**

Ten for 22¢

100 Lots, \$1.95

3E2238—With 7 inch long screw.

Each **4¢**

Ten for 35¢

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—YOUR PRICE **15¢**

Per Hundred **85¢**

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 **65¢**

Porcelain Strain

Designed especially for insulating extra long aerials or guy wires. Extra strong. These insulators will help prevent antenna troubles. Shpg. wt., dozen, 4 lbs.

3E2239—Each **5¢**

Ten for **36¢**

Glass Insulators

Special tempered glass unaffected by heat or cold or other atmospheric conditions. Finest quality. Approximately 3 1/2 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—Each **10¢**

Ten for **85¢**

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.

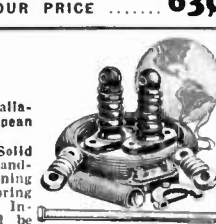
3E2075—YOUR PRICE **42¢**



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. Beldenamed 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

Vise grip hardened steel frame. Bite through rust, corrosion, paint, and foreign matter of all kinds. Will not rust. 1 1/2-in. opening.

3E2255—Each **4¢**

Ten for **35¢**

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—Each **5¢**

Ten for **45¢**

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—Per box of 10 **18¢**



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 **45¢**

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, 25¢.

YOUR PRICE **14¢**

Ten for **\$1.29**



Brach Storm King Arrester

Made of genuine bakelite. Non-air gap principle. For indoor installation. \$100.00 Insurance policy against lightning. For your radio set, goes with this arrester. Shpg. wt., 1 pound.

3E2211—List, 50¢.

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.

Each **36¢**

ELECTRO-STATIC

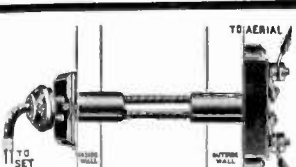
Lightning Arrester Static Arrester



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.

List, \$1.85.

YOUR PRICE **88¢**

3E2206—Special Type "Super-Thru" for use with Shielded Lead-In. List Price, \$2.15.

YOUR PRICE **\$1.25**

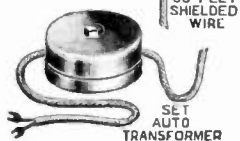
Copyright 1934 by W. C. Braun

Radolek Noise Filter System



YOUR PRICE **\$2.70**
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 lead-ins 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 Receiver. Complete instructions included. Waterproof. 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. **YOUR PRICE** **\$1.95**

3E8508—Step-Up Auto Transformer only. **YOUR PRICE** **.95c**
3E8509—Step-Down Auto Transformer only. **YOUR PRICE** **\$1.05**

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**

Multiple Outlet Assembly

Step-up multiple Auto Transformer with Fierlon 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.
YOUR PRICE **\$1.47**

Antenna Lead-In

With Screw Terminals
 A new type lead-in strip with a screw and self locking terminal on copper strip. Weiblogg covering impregnated with Hyglass Duco.
3E2475—12 inches long. **6c**
 EACH
 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.
YOUR PRICE **\$7.35**

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.
YOUR PRICE **\$3.53**

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.
YOUR PRICE **\$2.06**

"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.
YOUR PRICE **\$3.53**
3E8519—Same as above except with 100' shielded Transmission Cable. List Price, \$7.00.
YOUR PRICE **\$4.12**

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.
YOUR PRICE **\$3.81**

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 different 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.



Tobe Model 32 Filterizer Kit

For use with receivers operated on electric supply lines over which interference is brought in. Includes a complete Model 33 outfit as described above and in addition a Tube line Filterette type R. F. 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 line filters which do not include the choke coils that are so necessary for effective line filtering. This system properly installed is very effective in suppressing all interference—that which is ordinarily brought in over antenna and that ordinarily brought in over power line.

Combines Antenna Lead-In And Supply Line Noise Suppression
3D8501—List Price \$9.95.
YOUR PRICE **\$5.85**

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.
YOUR PRICE **\$1.74**

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**

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**

Antenna Spreaders

Reduces electrical loss of leakage across the antenna insulators.
3E8576—3 1/2" long unglazed
3E8577—6" long unglazed
YOUR PRICE EACH **10c**
 10 for **90c**
3E8578—3 1/2" long glazed
3E8579—6" long glazed
YOUR PRICE EACH **15c**
 10 for **\$1.45**

Airplane Insulator

3E8575—1 1/2" long, 1/2" diameter, 1 1/2" holes. Glazed overall.
EACH **4c**
 10 for **36c**

Antenna Spring Tightener

Takes up slack in Aerial.
3E2376—Spring only.
EACH **7c**

Universal Coupler

Complete with electrostatic shield. Permits the use of an ungrounded 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**

Double Lightning Arrester

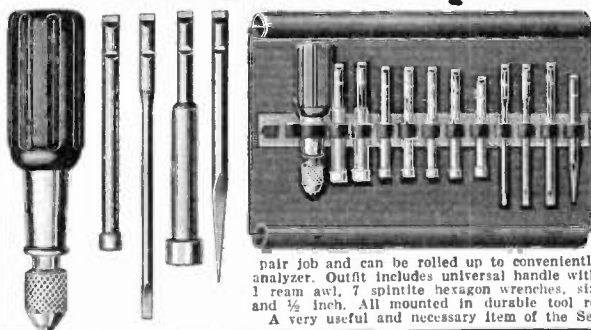
For use on all wire transmission lines. Provides suitable protection for any receiver, if connected between the antenna and ground binding posts.
3E8555—**YOUR PRICE, EACH** **68c**

"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.
NET **59c**
3E8557—Heavy Weight 50 Ft. List, 75c.
NET **46c**
3E8558—Heavy Weight 100 Ft. List, \$1.50.
NET **89c**

See Page 142 for RCA World Wide Antenna System.

Serviceman's Spintite Kit



Socket Wrenches Reamer and Screw Drivers

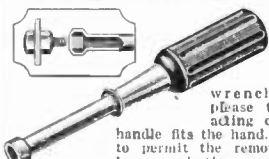
3C4681 **\$3.50**
YOUR PRICE

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 repairman in the tool chest or on the job.

pair job and can be rolled up to conveniently carry in the tool chest or on the job. Outfit includes universal handle with chuck, 3 screwdriver bits, 1 ream awl, 7 spintite hexagon wrenches, sizes $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, and $\frac{3}{4}$ 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 hand. Stem is 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
3C4682	$\frac{1}{8}$ in.	30c	\$2.30 YOUR PRICE
3C4683	$\frac{1}{4}$ in.	30c	
3C4684	$\frac{3}{8}$ in.	30c	
3C4685	$\frac{1}{2}$ in.	30c	
3C4686	$\frac{5}{8}$ in.	30c	
3C4687	$\frac{3}{4}$ in.	45c	
3C4688	$\frac{7}{8}$ in.	45c	

Special Socket Wrench Set



3C4652—Handle and five sockets. **59c**
YOUR PRICE

A specially selected set of five detachable sockets, together with a special light-grip handle in which is set a sturdy steel shaft firmly fixed with long steel ferrule. Fine quality steel sockets with very thin but strong walls. Sizes: $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, and $\frac{5}{8}$ inch for hexagonal nuts. Hollow stems take screws projecting not over $\frac{3}{4}$ 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 prices! Tight grip, moulded, polished black hard rubber handles. Offer perfect insulation. Radio sizes have slender hardened steel blades, diameter $\frac{1}{8}$ 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 $\frac{1}{8}$ inch diameter.

Stock Number	Blade Length	Price Each	3E4731—Set of 6 One of each size.
3C4725	$\frac{3}{4}$ in.	15c	\$1.23 YOUR PRICE
3C4726	$\frac{1}{2}$ in.	17c	
3C4727	$\frac{3}{8}$ in.	20c	
3C4728	$\frac{1}{4}$ in.	24c	
3C4729	$\frac{1}{8}$ in.	28c	
3C4730	$\frac{1}{16}$ in.	32c	



3D4745 YOUR PRICE, Per Set **39c**
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 $\frac{3}{4}$ inch long, $\frac{3}{8}$ inch diameter handle. Hardened steel blade $\frac{1}{8}$ inch diameter. Smallest driver has $\frac{1}{16}$ inch diameter blade. Take care of all radio screws from chassis anchors to smallest set screws. Nickel plated quality steel.

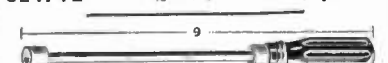
Hollow Stem Hex-Nut Wrenches

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

Stock Num.	For Hex. Nuts	YOUR PRICE EACH
3E4711	$\frac{1}{8}$ in.	12c
3E4715	$\frac{1}{4}$ in.	
3E4716	$\frac{3}{8}$ in.	69c 3E4719—Set of 6 Wrenches Complete
3E4717	$\frac{1}{2}$ in.	
3E4718	$\frac{5}{8}$ in.	
3E4712	$\frac{3}{4}$ in.	



With Straight Shanks, 9" Overall

Stock Num.	For Hex. Nuts	YOUR PRICE EACH
3E4713	$\frac{1}{8}$ in.	19c
3E4720	$\frac{1}{4}$ in.	
3E4721	$\frac{3}{8}$ in.	\$1.05 3E4724—Set of 6 Wrenches Complete
3E4722	$\frac{1}{2}$ in.	
3E4723	$\frac{5}{8}$ in.	
3E4714	$\frac{3}{4}$ in.	



With 90° Offset Shanks, 7" Overall

Easily and quickly handle nuts in positions not accessible with straight shank wrenches. Except for 90° bend in shank construction is exactly same as above.

Stock Num.	For Hex. Nuts	YOUR PRICE EACH
3E4732	$\frac{1}{8}$ in.	19c
3E4733	$\frac{1}{4}$ in.	
3E4734	$\frac{3}{8}$ in.	\$1.05 3E4738—Complete Set of six wrenches
3E4735	$\frac{1}{2}$ in.	
3E4736	$\frac{5}{8}$ in.	
3E4737	$\frac{3}{4}$ in.	



Hollow Handle Radio Wrench Set

3C4700—YOUR PRICE **45c**

The handiest tool in the serviceman's kit. Hollow handle holds screwdriver socket and 5 wrench sockets: size $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch, all of which are included in set. Ideal for radio and general repair use. Handle and shank are $\frac{7}{8}$ inch long. Handle is heavily knurled, providing good gripping surface. Finished in white nickel.



Burgess Flashlight Screw Driver



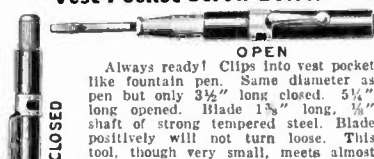
Puts the Light Directly on the Screw

A combination flashlight and screw driver. Handle screws in dark places quickly and efficiently. Enables use of both hands. Large secure grip safety 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. **59c**
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 $\frac{3}{4}$ inch long closed. $\frac{5}{8}$ inch long opened. Blade $1\frac{1}{2}$ inch long. $\frac{1}{8}$ inch 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. **3D4746—YOUR PRICE, Each 19c**

Radio Set Screw Drivers

3C4739—Set of three. **29c**

Real quality tools to handle tiny screws in recesses. Tight grip, moulded polished black hard rubber handles offer perfect insulation. $\frac{1}{8}$ inch diameter hardened steel blades, small enough and strong enough for any radio set screw. Blade lengths $\frac{1}{2}$, $\frac{3}{4}$ and $\frac{5}{8}$ inches. Blades will never loosen or turn in handles.

DeLuxe Super-Grip Radio Screw Driver Set

Transparent High Insulation Handles

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 $\frac{1}{8}$ inch diameter; $1\frac{1}{2}$, $2\frac{1}{4}$ and $3\frac{1}{4}$ inch long. Handles perfectly all types of machine screws, dial screws, small wood screws, etc. **3E4744—Per Set of Three. 65c**
YOUR PRICE

Maple Handle Screw Drivers

3E4749—Set of 4 Your Price **59c**

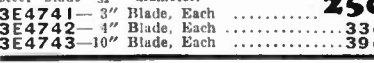
Substantially made to stand the gaff yet low in price. Handles are of white hard wood in natural varnish finish, fluted for sure grip. Blades of hardened and polished tool steel. Will not turn in handles. Extra heavy steel ferrules. Four Drivers with 6, 5, 4, and 3 inch blades. A set of these drivers 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 $\frac{1}{8}$ inch diameter. **3E4741—3" Blade, Each 25c**
3E4742—4" Blade, Each 33c
3E4743—10" Blade, Each 39c

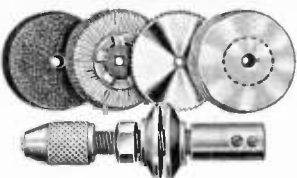


Screw Holding Screw Drivers

Four finger-like prongs hold nuts, screws, lock washers, etc. in rise-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 75c**
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 3/8 inch; 4 inch scratch brush; 1/2 x 4 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 1/2". 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 8 x 8 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—4 oz. Hammer. 15¢
YOUR PRICE
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

Set of three wrenches in leather case. For all hex nuts requiring 1/4", 3/8", 1/2" and 5/8" inch with alligator jaw for odd sizes. Very handy. Every service man 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 so tempered and curved with the width of the rule 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

Klein Cat. No. 202



Cuts close, the narrow head permits 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

Klein 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

Klein Cat. No. 203



Fine cutting assured. Knives carefully fitted. Body of the plier is hardened and tempered. Point 1/2 inch round.

3C4754 5 inch. Each..... \$1.87
3C4755 6 inch. Each..... \$2.06

Klein's Side-Cutting Plier

Klein 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. YOUR PRICE \$2.20



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.

World Radio History

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 1/2 inches. Jaws 5 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".

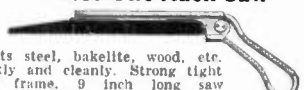
Special Thin Nose Pliers

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.

3C4654—Frame with one blade..... 59¢
3C4655—Extra blades. Six for..... 69¢

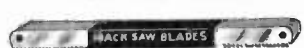
Pistol Grip Hack Saw



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 service man needs this tool. Firm grip, grooved wood handle. Hardened steel blade, firmly set.

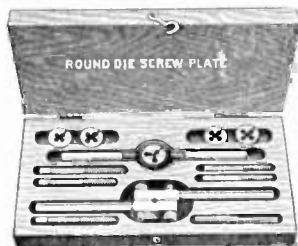
Magic Electric Pencil

Engraves and Embosses

An electrically heated scriber about the size of a fountain pen. Writes electrically, like 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 paper supplied to emboss hundreds of words. A wonderful tool. Will make a profit for you of many times its cost, every month. Works on 100-120 volt A.C. or D.C. Heats quickly. Maintains even temperature. 8 foot 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 4-36, 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 grease-tight chamber. Trouble-free switch. 8 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 1/8" Shank

5/16 to 1/2 Inch
Fine quality carbon steel twist drills with turned-down shank to fit 1/8" chuck. These sizes are a necessity for most auto radio installations. Very handy for drilling mounting holes in cabinets.

3D4620—1/8" Inch 3D4623—3/8" Inch
3D4621—1/4" Inch 3D4624—1/2" Inch
3D4622—5/8" 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 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, and 7/8 inch. YOUR PRICE 81¢

3E4563—Eight drills in Hardwood Box. Sizes 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, and 7/8 inch. YOUR PRICE \$2.73

3E4564—Eleven drills in Fibre Roll. Sizes 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, and 7/8 inch. YOUR PRICE \$1.27



Tap Wrench with Drills and Taps

3E4560—Per Set \$1.15

Three taps and three drills, one each for 1/8, 3/8 and 1/2 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, meter 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



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 1/8 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—two 1/2 inch parts highly polished. Overall height, 10 inches. Shpg. wt., 6 lbs.

3E4550—YOUR PRICE .. \$1.85

Same as above, except larger. Overall height, 13 1/2". Chuck fits round shank drills up to 3/4". Shpg. wt., 11 lbs.

3E4551—YOUR PRICE .. \$3.65



GOODSELL-PRATT Drill

4E4600—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 0-1/2 inch. Crank and side handle of mahogany finished hard wood. Length 16 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 415. Similar to above. Has hollow handle which contains eight drill points. 1/8 to 1/2 in. List, \$2.70. YOUR PRICE, \$1.96

complete with drills



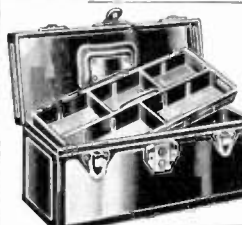
3D4619—YOUR PRICE 59¢

A substantial drill with set of 8 drills from 1/8" to 3/4". 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. Paneled sides, ends, top and bottom for rigidity and strength.



4E10901—YOUR PRICE 87¢

Handy size for Servicemen. Very strong and light. 14" long, 8 1/2" deep, 6" wide. Removable loose tray with adjustable partitions.

Cantilever Tray Tool Box

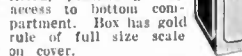
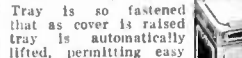
Tray Raises as Lid Is Opened

4E10902—Size 6x6 1/2 x 14" YOUR PRICE 93¢



4E10903—Size 6x6 1/2 x 18" YOUR PRICE \$1.28

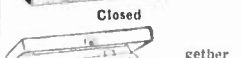
Tray is so fastened that as cover is raised tray is automatically lifted, permitting easy access to bottom compartment. Box has gold rule of full size scale on cover.



Radio Servicemen's Parts Box

4E10904—YOUR PRICE 59¢

Green enamel finish. Brass hardware. Strong and durable. Keeps your delicate parts together and insures them against breakage. Handy size. Length 12 1/2", depth 5", width 6 1/4". Lock and key included. Rounded corners. Movable tray.

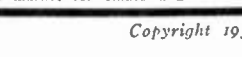
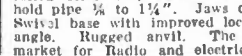
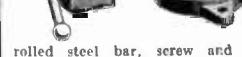


Servicemen's Vises

Portable Model

3E4580—YOUR PRICE 49¢

Sturdily built, accurately fitted. Machine cut steel screw. Polished jaws 1 1/2" wide. Red japan body. Convenient to carry in tool box. Shpg. wt., 2 lbs.

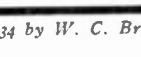
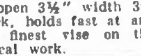
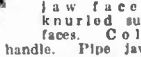
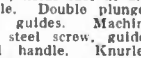


Swivel Bench Model

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.

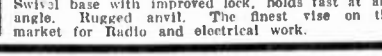
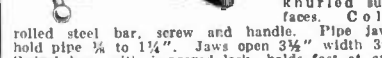
2 1/2" wide. Screws to bench and japan finish. Shpg. wt., 5 pounds.



Journeyman's Swivel Bench Model

3E4575—YOUR PRICE \$2.48

Replaceable hardened steel jaw faces, knurled surfaces. Cold rolled steel bar, screw and handle. Pipe jaws hold pipe 1/4 to 1 1/4". Jaws open 3 1/2" 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 1/4".
YOUR PRICE **97¢**



100 Watts
3E4486—
For general Radio and Electric work. Length overall 12 1/4".
YOUR PRICE **\$1.78**



150 Watts
3E4487—
For heavier Radio Electric and Garage work. Length overall 13 1/4".
YOUR PRICE **\$2.69**

Extra Tips for Solder-Master Irons

Stock Num.	For Iron Size	Your Price Each
3E4488	55 Watts	15¢
3E4489	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 Sizes



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 rubberized 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.	Tip	Length	Overall	List Price	Your Price
3C4785	65	3/4"	10 1/4"	\$5.00	\$3.37
3C4786	100	3/4"	12 1/4"	5.50	3.85
3C4787	200	3/4"	14 1/4"	8.75	5.91
3C4788	350	3/4"	16 1/4"	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 1/4" 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. **\$1.29**

3C4790—"Junior" 85 Watts. **\$1.89**

Length 11 1/4" **Length 12 1/4"**

"Blue—Comet—Balanced" Electric Soldering Irons Patented Balanced Design



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 steel 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	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 Size	Your Price
3E4487	55 Watts	17¢
3E4488	75 Watts	27¢
3E4489	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.

Sal-Ammoniac Cake For Cleaning Solder Iron Tips

Speedily cleans and brightens the soldering copper, causing solder to flow smoothly. Insures good solid joints with minimum of resistance. Will last many months in continuous service. Most convenient to use.
3E4779—
Per 3 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 set handle enable you to reach any part of any chassis. One each 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 1 3/4", 2" hex. sockets. Also one internal knurled socket to fit any 12 point Double Flex, nut driven 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.

World Radio History

Radio Blot torches

Combination Alcohol Blot torch



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 7 1/4 x 3 inches. Wind-proof. For indoors or outdoors. Burns 3 3/4 hours on one filling.

Alcohol Blot torch



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 7 1/4 x 2 inches.

Duplex Alcohol Blot torch



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 1/4 x 2 1/4 inches. When Bunsen burner starts generating, primary tube is used as a handle. Burns 40 minutes on one filling.

Gasoline Blot torch



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 x 7 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. Coll.
YOUR PRICE **56¢**



3E4767—5lb. Coll.
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**

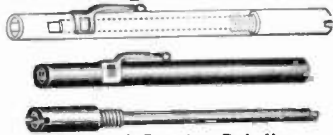
Solder Paste

3C4770—2 oz. Can. **10¢**
YOUR PRICE **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 \$4.40 **49¢**

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 "lining 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



Fit neutralizing tool No. 3C4500, listed above.

Bal-Neut for Majestic Sets

3C4501—List, 55¢. **YOUR PRICE** **27¢**

Overall length 2 1/4". Has screw driver and offset socket for 1/4" hex. nuts. Extends tool 1 1/4".

For Crosley Sets

3C4502—List 20¢. **YOUR PRICE** **11¢**

Extends tool 1 1/4". Has socket for 1/4" square nuts.

For Majestic Sets

3C4507—List 20¢. **YOUR PRICE** **11¢**

Extends tool 1 1/4". Has socket for 1/4" 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. 1/4" and 3/8" nut wrenches, miniature blade screw driver for neutralizing and a full size insulated handle general purpose screw driver. Made of fine quality extra strength fiber. Fountain pen clip prevents loss 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 3/4". 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 1/4"x1 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 3/4" 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 3/8" solid rod, one end of which has a strong screw driver blade, the other end is of special magnetic steel. Fits Majestic Model 70 and many others.

Neutralizing and Aligning Tool Kit

Will Balance All Sets



3C4508—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. Handles 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 3/4" nut wrench. Metal 1/4" nut wrench. 1/4" square nut insulated wrench. 1/4" hex. metal side wrench. 2 1/2" insulated screw driver with metal nib. 1/4" 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 9¢
3C4522—Extra Battery, Each 8¢

Pen Flashlight

With Dentist Magnifying Mirror



3C50
 Your Price, Complete **69¢**

Ten for.....\$5.85

Enables the serviceman to look into inaccessible parts of the Radio Set and chassis without removing chassis from cabinet. Will often save his coat on a single job. Throws bright light on hidden part which is reflected clearly in the mirror. Attractive metal case 5 1/4" long, 3/4" diam. Two section battery, 3 3/4" long, 3/4" diam. Bulb's eye bulb.

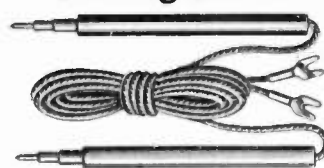
3C52—Extra Battery 9¢
3C53—Extra Bulb's Eye Bulb 10¢

Pen Flashlight Without Mirror
 But with Bulb and Battery

3C51—YOUR PRICE COMPLETE **28¢**

Ten for.....\$2.48

Testing Leads



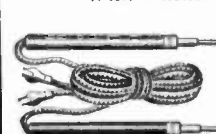
With Heavy-Duty Laboratory Sharp Point Ends

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 1/4" long (overall), 3/4" diameter. One red, one black for polarity indicating. 60" long flexible cables in colors to match. Points project 1 1/4" 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) 3/4" 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) 3/4" diam. One red, one black for polarity indicating. 50" long flexible cables in color to match. Chucks 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.

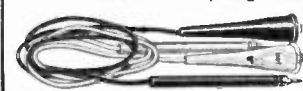
PER PAIR **35¢**

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, 3/4" 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

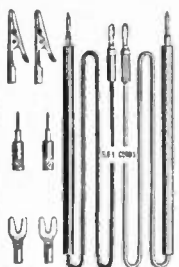


Tempered steel blade 8"x3/4" long, protected its entire length with 1000 volt hard-rubber insulation. Tight-grip hard rubber handle.

3E4748—YOUR PRICE **39¢**

Pencil Type Test Prods

With Interchangeable Tip Ends



New 6 inch test prods only $\frac{1}{4}$ " 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..... **78c**

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 **32c**
3D4411—24 inch, Pair **38c**
3D4412—36 inch, Pair **44c**

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 $\frac{3}{4}$ ". Polished nickel finish.

3E4407—YOUR PRICE, Each..... **4c**
Per Dozen..... **35c**

Rubber Insulators



For Alligator Test Clips
3E4408—EACH..... **9c**

Ten for..... **75c**

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

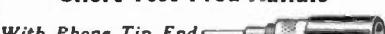
With Sharp Point Phone Tip End



Hollow high di-electric insulated handle. $\frac{5}{16}$ " long overall. $\frac{1}{8}$ " 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 15c
3E8877—Blue 3E8880—Purple
Ten for..... **\$1.20**

Short Test-Prod Handle



Hollow high di-electric insulated handle. $\frac{1}{8}$ " long overall. $\frac{1}{8}$ " 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 6c
3E8883—Blue 3E8886—Purple
Ten for..... **55c**

Insulated Top Jacks

For Standard Phone Tips



Insulated top $\frac{1}{8}$ " diameter. Brilliant lusterous color coded. Hold phone tips straight and tight. Fits panels up to $\frac{1}{2}$ " wide. Fiber shoulder washer and metal lock nut included.

3E8887—Red 3E8890—Green EACH
3E8888—Black 3E8891—Yellow 6c
3E8889—Blue 3E8892—Purple

Solderless Tip Plug



3E6368—YOUR PRICE, Each... **4c**

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.

NOTE: See Page 94 for other Tip Jacks and Plugs.

Test Prod Kit

With Interchangeable Plug-in Tips



3E4416—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 screw 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, Ohmmeters, etc. Moulded, high di-electric, knurled grip, non-removable top. Standard receptacle for Banana type plug-in prongs built into stem. A transverse hole is provided under the screw top for wire and phone tip connections. Length 1 1/2" overall with top is up. Extends $\frac{1}{2}$ " above panel when top is screwed down. Fitted with $\frac{1}{2}$ " screw $\frac{1}{2}$ " long and two nuts.

3E8857—Red 3E8860—Yellow EACH
3E8858—Black 3E8861—Green 10c
3E8859—Blue 3E8862—Purple
Ten for..... **75c**

Standard Insulated Binding Posts

With Color Coded Tops

Attractive colored, high di-electric, insulated top-diameter $\frac{1}{2}$ ". Mounted on 10/32 screw $\frac{1}{2}$ " long. Metal washer $\frac{1}{2}$ " diam., $\frac{1}{8}$ " thick.

3E8863—Red 3E8866—Green TEN FOR
3E8864—Black 3E8867—Yellow 48c
3E8865—Blue 3E8868—Purple

Small Insulated Binding Posts

With Color Coded Tops

Same as above but smaller. Top $\frac{1}{4}$ " diam., 6/32 screw $\frac{1}{2}$ " long. Metal washer $\frac{1}{4}$ " diam.

3E8869—Red 3E8872—Green TEN FOR
3E8870—Black 3E8873—Yellow 42c
3E8871—Blue 3E8874—Purple

Flexible Cable For Test Leads

Flexible rubber covered stranded copper wire, equivalent to size 18. Conductor is covered with cotton serving over which is a live rubber covering $\frac{1}{8}$ " 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 37c
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, $\frac{1}{2}$ " long, $\frac{3}{8}$ " diameter.

3E8851—Red 3E8854—Green EACH
3E8852—Black 3E8855—Yellow 10c
3E8853—Blue 3E8856—Purple
Ten for..... **78c**

Long Test-Prod Handle

With Banana Type Spring Contact Fits Plug-in Jacks



Hollow high di-electric insulated handle. $\frac{3}{8}$ " 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 3E4435—Green EACH
3E4418—Black 3E4436—Yellow 15c
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 12c
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.

3E8845—Red 3E8848—Green Net Per
3E8846—Black 3E8849—Yellow Set of 4
3E8847—Blue 3E8850—Purple 20c

Ten Sets for..... **\$1.75**

Insulated Plug-in Tips

With Banana Type Spring Contact Prongs



High di-electric insulated hollow handle $\frac{3}{4}$ " long. Solderless screw connection. Provides for connecting test wires into plug-in tip jacks.

3E4427—Red 3E8826—Green EACH
3E4428—Black 3E8827—Yellow 9c
3E8825—Blue 3E8828—Purple
Ten for..... **87c**

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 $\frac{3}{4}$ " thick. Shoulder washer included for metal panels.

3E4429—Red 3E8830—Green EACH
3E4430—Black 3E8831—Yellow 7c
3E8829—Blue 3E8832—Purple
Ten for..... **63c**

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 di-electric insulated tops. Intended for better grade of laboratory apparatus. Fit panels up to $\frac{3}{4}$ " thick.

3E8833—Red 3E8836—Yellow EACH
3E8834—Black 3E8837—Green 9c
3E8835—Blue 3E8838—Purple
Ten for..... **78c**

For Metal Panels—Have Moulded Washers

3E8839—Red 3E8842—Yellow EACH
3E8840—Black 3E8843—Green 10c
3E8841—Blue 3E8844—Purple
Ten for..... **88c**

"Banana" Style Plug-in Spring Contact Prongs



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..... **35c**
3E4513—With threaded Shank and two nuts 1 1/8" overall. Ten for..... **43c**

Metal Jack

For Banana Type Plug-in Prods



Made of brass nickel plated. Hold prongs securely. Provide sure contact. Fits $\frac{1}{4}$ " hole. Shank $\frac{1}{2}$ " long. Lock nut and solder lug included.

3E8893—Ten for..... **35c**

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

EDGE VIEW

**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 toned 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 nickelplate. 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, 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 1/4"x12". Net Shipping weight 12 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 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.

**3E2802—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.

**3E2818—List Price, \$2.00.
YOUR PRICE \$1.18**

Universal Model "W"

EDGE VIEW

**Perfected 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 a lapel. Highly sensitivity. Light weight and unusually compact. 200 ohms. Equipped 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.

**3E2819—List Price, \$3.00.
YOUR PRICE \$1.76**

Universal "Handi-Mike" Single-Button

Intended for voice only. Has maximum volume with clear and clean cut 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.

**3E2811—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 use 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 braid covered cable.

**3E2813—List Price, \$15.00.
YOUR PRICE \$8.82**

Suspension Rings

5 Inch

For use especially with Models "A", "X", "BB", "KK", "LL" or Torpedo Models, etc. For suspending microphones from ceilings or beams. Made of solid brass. Beautifully finished in highly polished chrome plate. 8 1/2 x 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.

3E2827—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 3/4 in. high. 8 suspension springs included. Removable Picard Holder.

3E2828—Without Covers.

List Price, \$4.00.

YOUR PRICE \$2.35

3E2829—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 1/4". Has two lengths of interchangeable tubing which allow for height of either 10 1/2" or 6 1/2" as desired. Base Dia. 5". Polished chrome finish. 8 suspension rings furnished.

3E2830—Without Covers.

List Price, \$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 54 1/2 in. 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 1/4 lbs.

3E2833—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

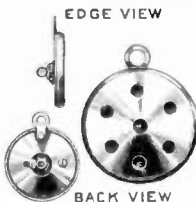
Double extension. Adjustable from 28 to 66 inches. Base 7 inches diameter. Top ring 6 1/2 inches diameter. Elegant polished chromium plated finish. Four point suspension. 8 microphone springs included.

**3E2834
YOUR PRICE \$5.88**

Desk Stand

On plate die-casting, beautiful chromium plate finish. Ring 5 inches diameter. Overall height, 7 1/4 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 regular size precision adjustable buttons making tone quality superior to that of units with smaller frames which can accommodate only the smaller buttons. Diaphragm damped to eliminate noisy 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 design. Highly polished and chromium plated.

Operates best at 2 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 Music).

3E2940—List Price, \$10.00. **\$5.88**
YOUR PRICE

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 sputtered gold spot stretched dural 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 2 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. Diameter of frames, 3 inches. Thickness overall: 1 1/2 inches. Shipping weight, 1 1/2 lbs. Packed with wiring diagram, and complete instructions. Highly polished chromium finish.

3E2941—List Price, \$25.00. **\$14.70**
YOUR PRICE

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 fixture 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 180 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 1/4" high, 4 3/4" deep. 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. **\$39.69**
YOUR PRICE



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 M.A.D.C. A+ 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. **\$23.52**
YOUR PRICE



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. Peps 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 **45c**
Each
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. **\$1.18**
YOUR PRICE, EACH
PER DOZEN\$12.76



Desk "Mike" Stands

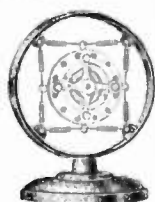
3D2992—5 inch ring. Overall height 6 3/4". Base cast aluminum. For small microphones. List Price \$3.50.

YOUR PRICE **\$1.99**

3D2993—6 3/4 inch ring. Overall height 8 3/4". 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 3C6335 switch (Page 95). Felted bottom prevents marring or scratching. Rich black crystalline finish. Eight springs included.



Shure Micro-Stand

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 25 lbs.

3E2874—List Price, \$22.50. **\$13.23**
YOUR PRICE

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. **\$10.88**
YOUR PRICE



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, 7/8 inch wide. 8 rust-proof springs included.

3E2876—List Price, \$10.00. **\$5.88**
YOUR PRICE



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 fine 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. **\$1.25**
YOUR PRICE



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 3/4 inch Ring. Size is 17" overall.

List Price, \$10.00. **\$4.50**
YOUR PRICE

With 5 Inch Ring

Stand is 10 1/2" high. 3D2994—List Price, \$8.00. **\$3.95**
YOUR PRICE

Floor Stand

Broad tripod base permits comfortable close to mike speaking. Built for hard service. Will not tip over easily. Rigid seamless steel standard adjustable from 40 to 66 inches height. Positive holding device. 6 3/4 inch ring in chrome finish. Black crystalline finish on standard and base.

3D2996
List Price, \$15.00
YOUR PRICE **\$8.95**



PIEZO ASTATIC Crystal Microphone

No Background Noise

No Batteries

3E2907—List Price,

\$21.00.

Your Price, **\$12.00**

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.

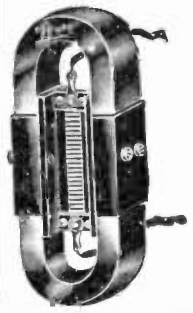
Requires No Special Transformers
High impedance output enables direct connection to grid input when used within 10 feet of amplifier. Does not require special type of line matching transformer when used at a distance from amplifier. Ordinary single button carbon mike transformer can be used, using secondary 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 this 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 speakers 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 assembly 6 1/2". Width overall 2 1/2". Depth 1". Complete instructions with circuits.

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" pipe 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 case 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.
YOUR PRICE, **\$8.82**

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, **\$2.94**
3E2856—Line to Grid }
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 back-ground noise. Reproduction is life-like. Excellent for public address, radio or recording.

Specially annealed duraluminum diaphragm—stretched so that resonant D. B. 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, \$64.00.
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 10 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.

3E2902-B—Medium Damped.

3E2903-C—Heavily Damped.

3E2904-E—Special Curve for Reducing Feedback.



List Price, \$10.00.
YOUR PRICE **\$5.88**

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 acoustical 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 shadings and inflection of speech are preserved together with clean-cut articulation. High quality double-button type, adaptable to broadcast, 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 are longer lived and reduce background noise. Damping plate is ground perfectly flat and tapped 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

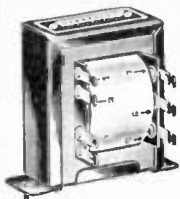
3E2998—Condenser microphone kit.
YOUR PRICE **\$2.94**

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. E.C. reagent 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

3D4360
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

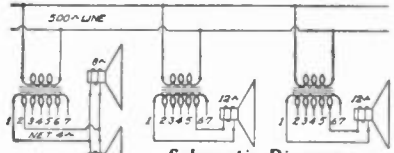
Universal Single Tube to 500 ohm Line. Matches above transformer in appearance. Has primary terminals and six secondary ratio taps to provide for coupling any of the following tubes to a 500 ohm line: 2A5, 41, 42, 47, 89, 59, 48, 45, 50, or 2A3, class "A". 15 watt working capacity, 25 watt peak. Diagrams 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 two secondary ratio taps to provide for coupling any of the following tubes in push-pull to a 500 ohm line: 2A5-11-42-89, 47, 59, 48, 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.

Stock 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	1200 But. Mike	200 or 50	4.00	2.35
3E3858	5000 or 2000 ohms for Phono Pickup	200 or 50	3.00	1.76

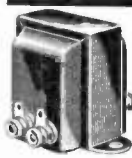
Tube to Line Output Transformer

For use particularly in matching output tube of microphone pre-amplifier to low impedance line. Two lead primary matching single tube such as 5E, 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 is 1-64. Primary impedance 200 ohms; secondary impedance 100,000 ohms. Primary D.C. resistance is 1.9 ohms. Secondary D.C. resistance is 3936 ohms. Especially designed for use with Universal Baby, QRQ Mike, Handi-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 1-22. 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 400 ohms impedance overall. Secondary impedance is 200,000 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 43.5 ohms. Secondary D.C. resistance is 6650 ohms. D.C. in primary balances out. Primary inductance 2.02 henries, secondary inductance 496 henries. Matches impedance of all standard type, carbon, 2 button microphones. Fully shielded in a black enameled steel case. Insulated color coded 8" leads out of bottom. Size: 2 1/2" high, 2 1/2" wide, 2 1/4" deep. Mounting hole centers:

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, 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.



Stock Number	Primary Imped. Ohms	Secondary Grid Ohms	List Price	Your Price
3E3861	200 or 50	Sgt. 100,000	\$3.00	\$1.75
3E3862	500 or 125	Sgt. 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	Sgt. 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 1/2" 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 1/2" x 2 1/4" high. Mounting centers 2 1/2".

3E4271—487-263.
YOUR PRICE \$1.47



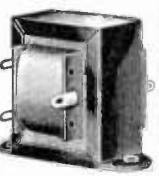
Jefferson Phonograph Pick-Up Transformer

Designed for coupling low impedance phonograph pick-up (on order of 700 ohms at 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 1/2" 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 frames 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 65¢.
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 3 1/2". No plug included.
3C2946—List Price \$2.00.
YOUR PRICE \$1.18

Microphone Plug and Jack

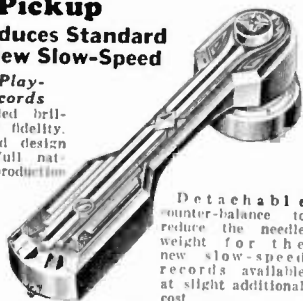
Especially designed 3 contact telephone type plug and jack for use with double button carbon microphone. Very handy for use in construction of mixing panels due to compactness.
3E2845—3 conductor plug only, List 75¢.
YOUR PRICE 44¢
3E2846—3 conductor jack only, List 50¢.
YOUR PRICE 29¢

New Webster Electric Pickup

Reproduces Standard and New Slow-Speed

"Long Playing" Records

Unequaled brilliancy and fidelity. Advanced design achieves full natural reproduction of tone.



Detachable counter-balance to reduce the needle 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 17 1/2" 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 attenuation 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 35% 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**

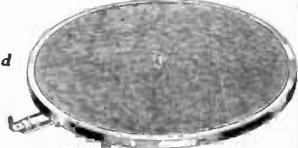
3D2955. Model 17A. Low Impedance Model. 200 ohms at 1000 cycles with built-in volume control. List, \$16.50.
YOUR PRICE **\$8.94**

Counterbalance

For above Webster pickups. Correct pressure for perfect reproduction of the new 33 1/3 R.P.M. records.
3D2966 List Price, \$2.00.
YOUR PRICE **\$1.05**

Diskadapt 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 Diskadapt in its place. Two screws secure the lever guide plate.

14DI0870. 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 \$45.00.
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 17 1/2" 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.

3D2969. 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



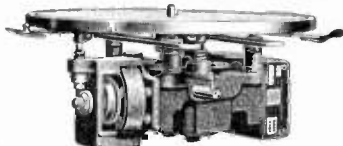
3E2965—8" tone arm for playing 10" and 12" records. List Price \$15.00.
YOUR PRICE **\$8.82**

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, over-size 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, eusecthon and pointers finished in statutory bronze. All mounting hardware included. Mounts in 8 1/2" x 5 1/2" cut out. Overall dimensions of motor 8 1/2" x 5 1/2" x 3 1/2" below baseboard. Mounting bracket centers 3 1/2" x 6 1/2". For operation on 105-120 volts 60 cycle.

14E10863—Complete with regular 12 inch turn table. List Price, \$16.50.
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 records. 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" x 1 1/4". Motor dimensions 6 1/2" x 3 1/2" x 3 1/2" below baseboard. Mounting plate 6 1/2" x 5 1/2". Mounting hole centers 3 1/2" x 1/4". For 105-120 volt 60 cycle A.C.

14DI0867—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 35 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 is provided for overhead suspension. Threaded base allows mounting on any Shure microphone stand listed on page 107.

Current requirements 6V at 60 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 bakelite 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¢
3C2861	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.	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

Stock Number	Playing Time	List Price	Your Price
3C2890—6" record per pkg. of 4		68¢	
3C2891—8" record per pkg. of 2		62¢	
3C2892—12" record per pkg. of 1		62¢	
3C2893—Needles per pkg. of 8		25¢	

Cellulose Coated Aluminum Disc
3C2883—12" Aluminum base record. Cellulose coated both sides. Not pregrooved.
48¢
YOUR PRICE, EACH

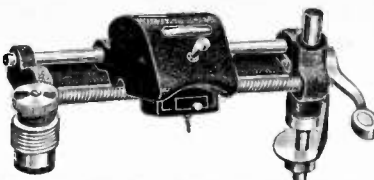
Blank Celluloid Discs

Stock Number	Record—Each	Your Price
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 1/4" 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¢



Phonograph Record Recorder

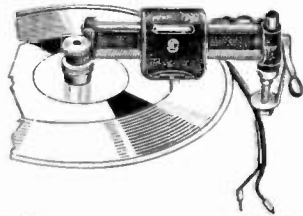
Consisting of: Center spindle; cutting head; threader; hardware; swivel arm. No needle included.

Complete Cutting Outfit

Stock Number	Impedance of Cutter
3E2830	15 ohms
3E2831	500 ohms
3E2882	4000 ohms

YOUR PRICE

\$16.95



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 played on any standard phonograph.

Easy to Install and Operate

One single 3/4" 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.

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 coupling 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.

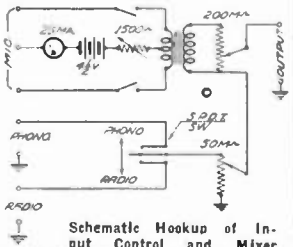
Radio or phono signal may be smoothly mixed or faded into microphone signal by proper easy handling of the two volume controls. Perfect fading from full volume to zero on microphone while fading simultaneously from zero to full volume on phono or radio can be accomplished. Mixing of the microphone input using voice 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 solist with orchestra at a distance.

Careful, accurate engineering in conjunction 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



Duralumin Diaphragms

For replacement in any make, stretched diaphragm type microphone. 24 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 3/4 inch diameter. Fitted with 1/2 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. 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 outboard bearing. 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

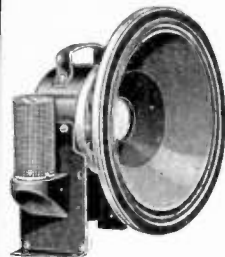
3E2895—For recording and reproducing on pre-grooved Victor or celluloid recording discs.
YOUR PRICE \$2.06

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¢

Jensen Electro Dynamic New Auditorium Speakers

Baffle Opening 12"—Cone Size Overall 13 $\frac{5}{8}$ "



These fine reproducers are 400% more efficient than conventional types. Adding one of them to an amplifying system is the equivalent of using type 30 tubes instead of 15'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 400 cycles. Diam. of voice coil 2 $\frac{1}{2}$ ". Ship. Wt. 37 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 $\frac{1}{2}$ ".

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 Coll		200 ohm Voice Coll
Number	Series	Number
14E10300	V	14E10303
14E10301	M	14E10304
14E10302	L	

Less output transformer.
List, \$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 Coll		200 ohm Voice Coll
Number	Series	Number
14E10306	V	14E10309
14E10307	M	14E10310
14E10308	L	

Less output transformer.
List, \$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 Coll		200 ohm Voice Coll
Number	Series	Number
14E10312	V	14E10315
14E10313	M	14E10316
14E10314	L	

Less output transformer.
List Price, \$48.50.

YOUR PRICE \$33.27

Output Transformer

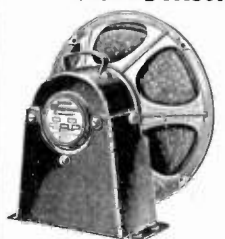
Output transformer to match 8 ohm voice coil speakers listed.

4E10318—List Price, \$3.00.

YOUR PRICE \$1.76

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 $\frac{1}{2}$ ", depth 7 $\frac{1}{2}$ ".

"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 Coll		200 ohm Voice Coll
Number	Series	Number
14E10320	V	14E10323
14E10321	M	14E10324
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
14E10326	V	14E10329
14E10327	M	14E10330
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 Coll		200 ohm Voice Coll
Stock Number	Series	Stock Number
14E10332	V	14E10335
14E10333	M	14E10336
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

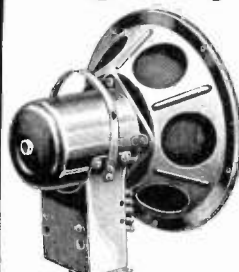
Input Transformer to match 8 ohm voice coil speakers listed.

4E10338—List Price, \$2.00.

YOUR PRICE \$1.37

NOTE: The Three Series listed correspond to those described above, under the New Auditorium Model.

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 mica spider 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 40 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 $\frac{1}{2}$ " Concert—Height 12 $\frac{1}{2}$ " depth 1 $\frac{1}{2}$ ", baffle opening 11". Wt. 14 $\frac{1}{2}$ lbs.
14" Concert—Height 14", Depth 1 $\frac{1}{2}$ ", baffle opening 12 $\frac{1}{2}$ ". Net weight 16 $\frac{1}{2}$ 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 $\frac{1}{2}$ " Concert	\$8.50	
14E10631	12 $\frac{1}{2}$ " Junior	5.85	
14E10632	14" Concert	8.85	
14E10633	14" Junior	6.95	

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 $\frac{1}{2}$ " Junior—Height 12 $\frac{1}{2}$ ", depth 8", baffle opening 11", net weight, 9 $\frac{1}{2}$ lbs. Shipping weight, 13 lbs.
14" Junior—Height 14", depth 9", baffle opening 12 $\frac{1}{2}$ ", net weight, 11 $\frac{1}{2}$ lbs. Shipping weight, 14 lbs.

Prices D. C. Types

Stock Number	Model	List Price	Your Price
14E10635	12 $\frac{1}{2}$ " Concert	\$8.50	
14E10636	12 $\frac{1}{2}$ " Junior	5.85	
14E10637	14" Concert	8.85	
14E10638	14" Junior	6.95	

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 $\frac{1}{2}$ " Concert	\$13.05	
14E10641	12 $\frac{1}{2}$ " Junior	11.25	
14E10642	14" Concert	15.75	
14E10643	14" Junior	12.85	

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 3 watts continuous. Overall depth 3 $\frac{1}{2}$ in. Baffle hole projects $\frac{1}{2}$ in. from edge of cone. Overall depth 3 $\frac{1}{2}$ in. Baffle hole should be 5 $\frac{1}{2}$ 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 $\frac{1}{2}$ in. Magnet projects $\frac{1}{2}$ in. from edge of cone. Overall depth 4 $\frac{1}{2}$ in. Baffle hole should be 6 $\frac{1}{2}$ 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 power continuously (9 watts peak load). Field coil necessitates 5 watts minimum and 10 watts maximum dissipation for best operation.

Size 11 $\frac{1}{2}$ " high, 11 $\frac{1}{2}$ " wide, 5 $\frac{1}{2}$ " deep, requires 10 $\frac{1}{2}$ " baffle opening. Shipping weight, 9 $\frac{1}{2}$ lbs. No output transformer included.

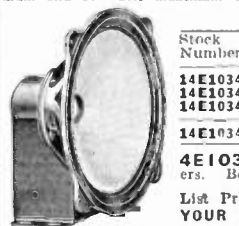
Cone Size 11 $\frac{1}{2}$ Inches

Stock Number	Field Excitation	Field Ohms	List Price	Your Price
14E10340	From Amplifier	500	\$14.75	
14E10341	From Amplifier	1000	14.75	
14E10342	6 v. Battery	4	14.75	
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¢



BUILD Your Own P.A. AMPLIFIER



Easy to Assemble and Wire
Point to Point wiring, color coded Resistors, plainly marked Condensers and a convenient roomy chassis to work in.

Educational—Profitable

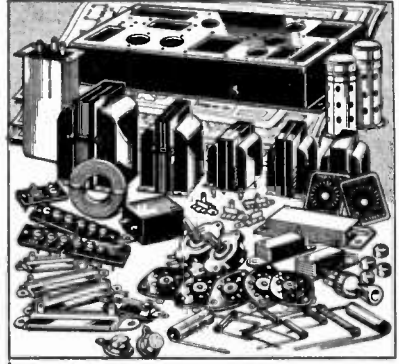
Building an amplifier: Testing it with your own voice, adding the little touches that distinguish custom-built products, proudly showing it to your customers,—it's the most fascinating experience in the radio business.

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.



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.

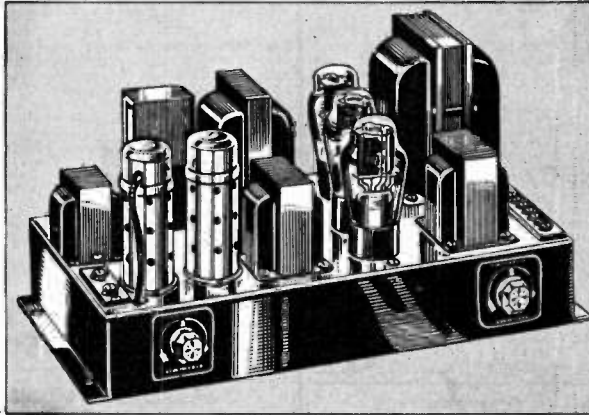
6 Watt Battery Amplifier Kit

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 42 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. Requires 1-39, 1-37, and 2-42 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

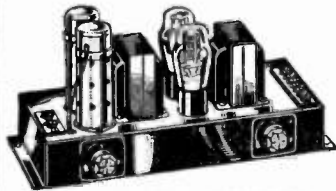


Push-Pull 2A3-15Watt A. C. Power Amplifier

For 115 Volt, 60 Cycle A.C. This powerful amplifier, capable of delivering 15 watts of audio power to a battery of dynamic speakers 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

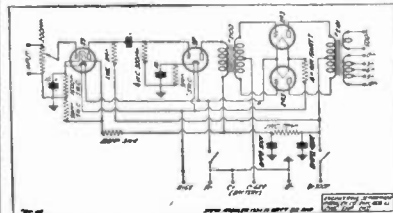


15 Watt Battery Kit

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

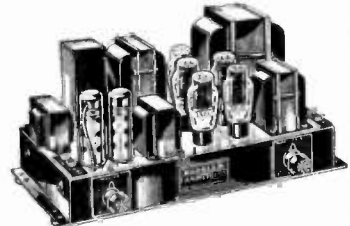
- Heavy steel chassis base, drilled to exactly fit each part supplied with the kit. Finished in tough baked on black enamel.
- Smooth tone and volume control on each amplifier.
- Best quality filter condensers and power transformers. Oversize choke inductances.
- Practically uniform audio output over 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
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.

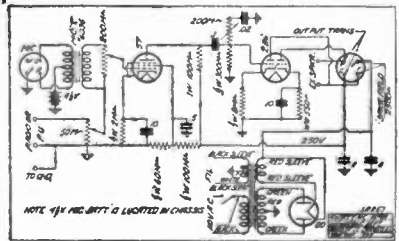
Any four to six watt, 2,500 ohm field dynamic speaker with a 2B6 matching transformer is suitable for this amplifier. For operating several magnetic speakers on a 500 ohm line, we recommend use of a 3:1 step-down output transformer.



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 the audience, to give a more even distribution of sound.

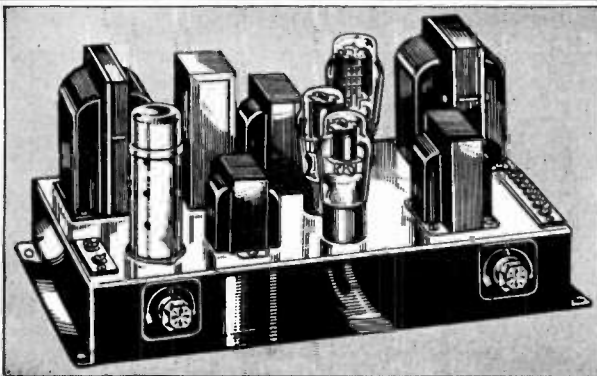
Carrying Case For 15 Watt Amplifier



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.



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 values engraved at each binding post.—10.—11 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 bases.—17.—Amp provision for ventilation.—18.—Rich Baked-On Black Enamelled finish.—19.—Overall height 7". Base width 9". length 18", height 2 1/2".—20.—Net wt., 20 lbs., ship. wt., 35 lbs.

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 a control unit like stock number 4E10700 described on page 6 (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.

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.

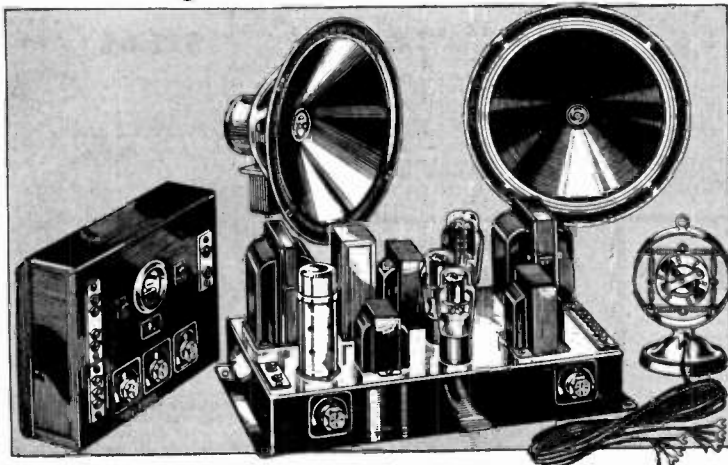
Installation Shield For 6-Watt Amplifier

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 92B Microphone.

List Price, \$125.00.
YOUR PRICE **\$62.70**

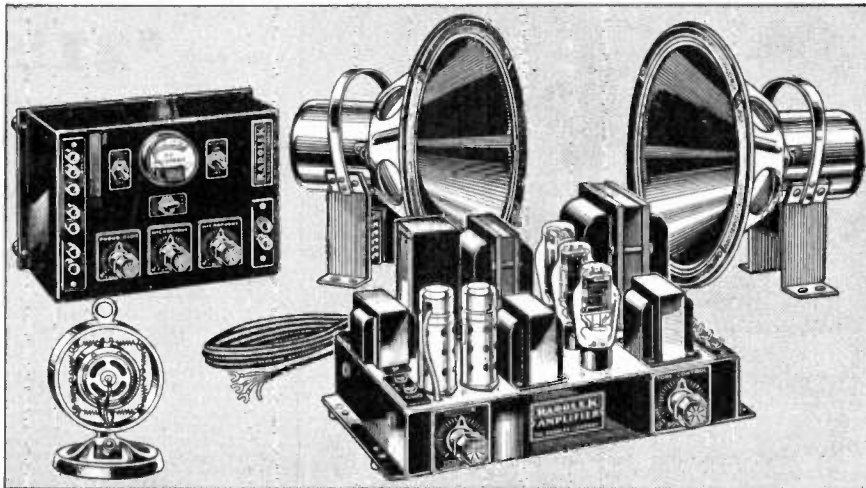
For 105-120 Volt 50-60 Cycle A.C. Current Supply

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 supplied with sound. They 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, magnetics 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.

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 of 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**

Extra 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 fabricoid covering. Solid laminated plywood construction throughout, strongly reinforced corners and handle. Positive hinge fasteners; Size 21 1/2" long, 11 1/2" wide, 12 1/2" 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, Refectories, 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

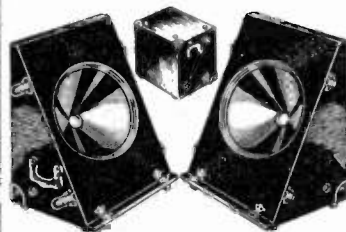
Two volume controls on the Control unit are inter-connected to enable mixing or fading from microphone to phonograph. A pleasing and novel effect can be obtained by providing a musical background for voice. This feature is a splendid advantage for home entertainment or advertising stunts. Two auditorium 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 **\$10.50**

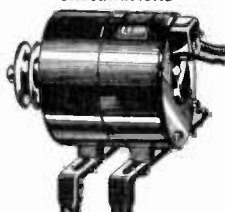
YOUR PRICE

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 over all with durable and beautiful black fabricoid. Reinforced with metal corner guards. Carrying handle will not pull out. Overall size 19 1/2" high x 15 1/2" wide x 15 1/2" 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, \$68.00.

YOUR PRICE

\$27⁵⁰

14E10671—With five Raytheon matched Tubes
1-57, 1-56, 2-2A3, 1-5Z3.

List Price, \$68.85.

YOUR PRICE

\$31⁹⁰

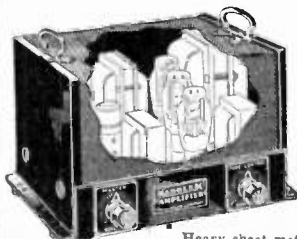
For Every Type Installation

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



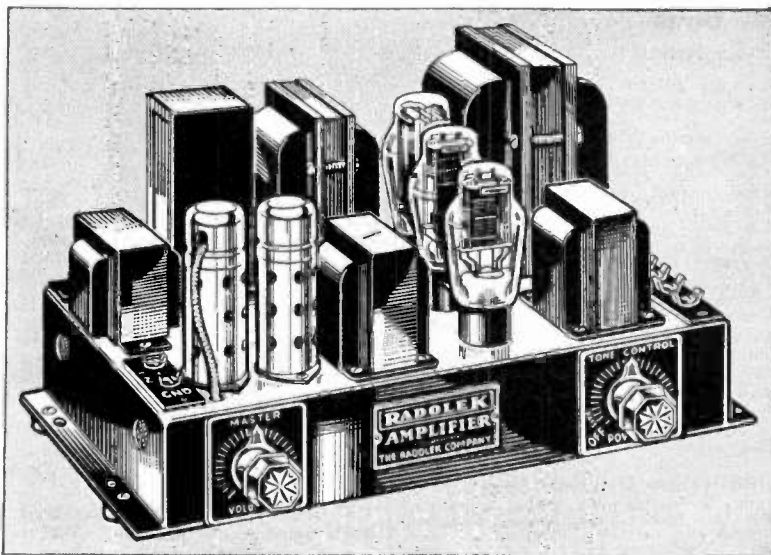
14E10672—
List, \$8.00.

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 dynamics). 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 3000 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 Enamel 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 11, 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 impedance, permitting the proper connection of dynamic speaker or speakers of any voice coil impedance—Separate winding of 500 ohms 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

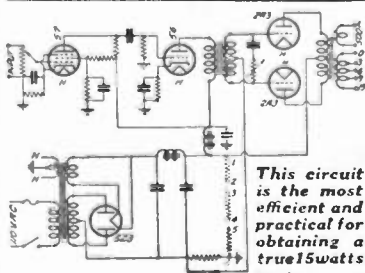
Power input line is fused with standard tubular glass fuse—All parts mounted on strong, rigid non-rusting alloy metal. Entire unit finished in rich baked-on black enamel; layout of component parts insures high-efficiency—Ample ventilation keeps operating temperature at low level point. All transformers, 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 Oscillograph tests proved that output of this amplifier was linear over practically the entire audio range and free from distortion harmonics within the rated output.

Simple Efficient Circuit

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 tube 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 3000 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.



This circuit is the most efficient and practical for obtaining a true 15 watts power.

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, 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 ist 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 lead coils in speaker construction together with lever engineering design makes these speakers any times as sensitive as the average unit. Speakers are to be used up to 1000 feet away from amplifier. 1500 ohm line connection on amplifier is used. 00 ohm line matching transformers are not furnished with system. See page 109 stock number E4360 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.

\$195.00

YOUR PRICE ...

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, selecto 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 7 pud 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

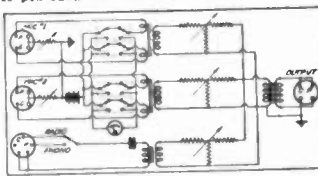
PRICE **\$21.95**

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.

YOUR PRICE

\$37⁵⁰

14E10686—With Seven Raytheon Matched
tubes, 1-57, 1-56, 4-2A3, 1-5Z3.
List Price \$88.35.

YOUR PRICE **\$44.00**

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.

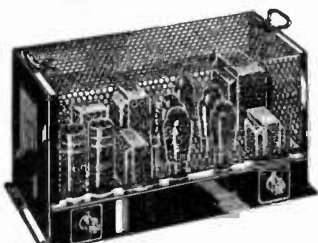
For All Large Installations

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 Pan 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 Kinetophone units or 5 dynamic horns or 30 max-netic 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 84'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

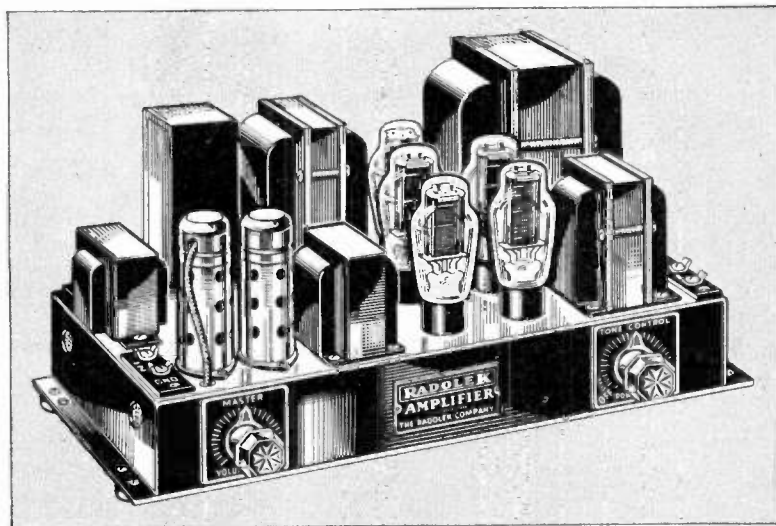


14E10687—List Price \$10.00.

YOUR PRICE

\$47⁵

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 dynamos).
3. Three stages with seven tubes, 57 resistor-impedance coupled to 56 transformer coupled, to four 2A3's in parallel push-pull, 5Z3 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.

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

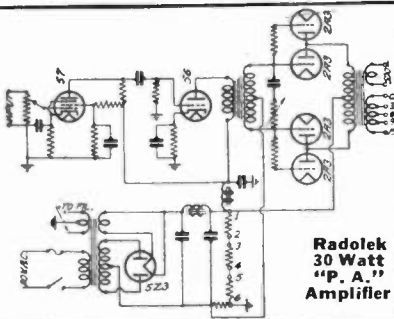


14E10673—

List Price \$12.50.

YOUR PRICE

\$57⁵



**Radolek
30 Watt
"P. A."
Amplifier**

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 23".
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 insure 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 hookup, are furnished. All parts used are standard.

Portable P. A. Speaker Housing



Will House 8" to 14" Cone Speaker

14E10485—List Price \$7.00.

YOUR PRICE

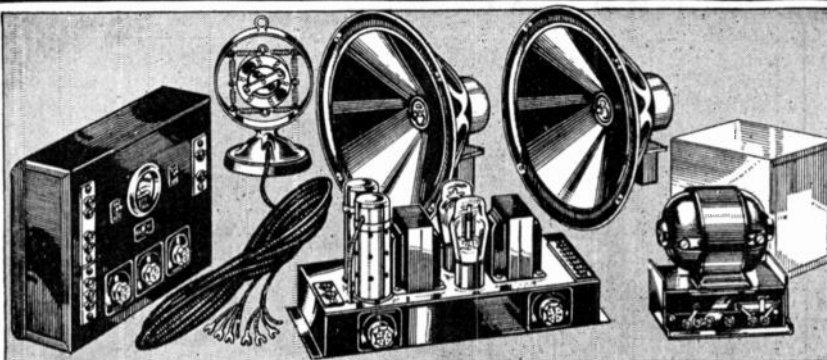
\$47⁵

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.

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 source 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 (1½ 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**

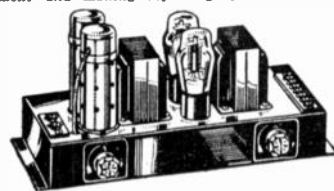
14D10658—Complete with four Raytheon Tubes; 1-39, 1-37, 2-42.

List Price, \$33.40. **YOUR PRICE\$19.45**

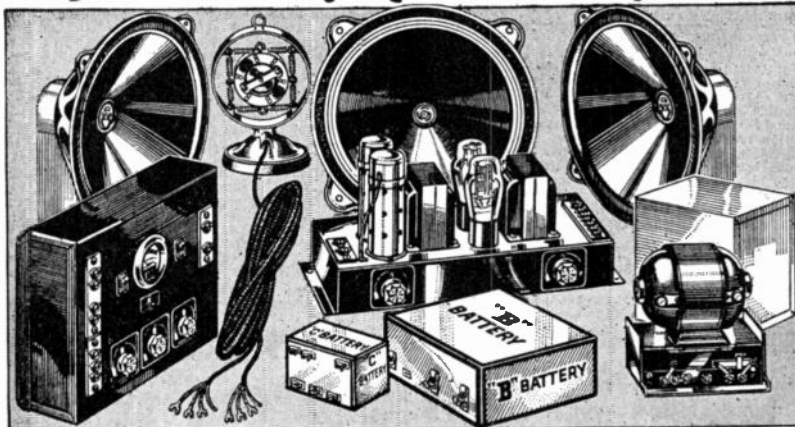
6 Watt Battery Operated Amplifier Specifications Class "A" Output

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. 72 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 .03 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 Enameled finish.—14. Overall height 7½", base width 6", length 11", height 2¼".—15. Net weight, 9 lbs. Shipping weight 16 lbs.

All parts mounted on strong, rigid, non-rusting steel chassis. Layout of component parts insures highest efficiency. Transformers 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 of 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 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.

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 1½ 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; 1-22½ 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, '39 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 Enameled finish.—15. Overall height, 7" base width 7", length 14", height 2¼".—16. Net wt., 9 lbs. Ship. wt. 16 lbs.

Output is direct to voice coils of speakers or 500 ohm line. Speakers used obtain field supply from 6 volt storage battery and take 1½ amperes each.

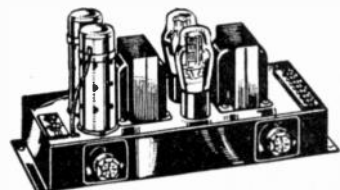
Price Amplifier Only

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

14E10650—Factory wired Laboratory tested amplifier. Less tubes.

List Price, \$20.00.

YOUR PRICE.....

\$9.65

14E10651—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 at broad a frequency response.

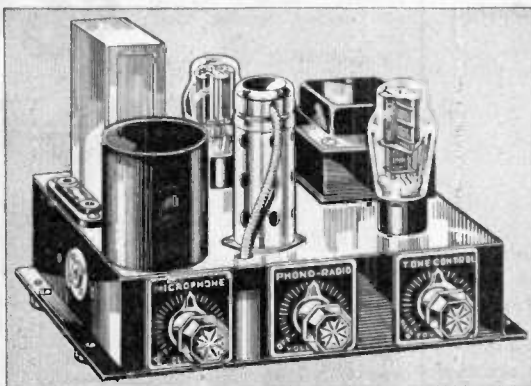
Has Many Uses

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 headphones 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 Cols: 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 volts 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 attaching plug.
15. Bottom protecting plate with four rubber feet entirely encloses base.
16. Rich baked-on black enameled finish.
17. Overall height 6 1/2"; base, width 7", length 11", height 2 3/4".

5 Watts Output 2B6 Power Tube

14E10680—Factory wired Laboratory tested amplifier. Less tubes.

List Price, \$25.00.

YOUR PRICE.....

\$9.65

14E10681—With three Matched Arcatrus 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.

Finest Construction

All parts mounted on strong, 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 parts easily accessible—Layout diagram showing exact position of each wire and part, together with schematic diagram, 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.



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.

14E10652—

List Price, \$61.25.

YOUR PRICE.....

\$29.75

Portable P. A. System complete with 5 watt 2B6 amplifier described above and Arcatrus tubes 1-57, 1-2B6, 1-80.

14E10682—

List Price, \$61.75.

YOUR PRICE.....

\$29.95

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 Arcatrus 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 field 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 50 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.

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
Unequalled 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 strong, durable, Fabrikoid covered separable, two section carrying case 18 1/2" wide, 16 1/2" high, 12 1/2" deep; 5 Raytheon Matched Tubes, 2-56, 2-A5, 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 of 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 simply 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.

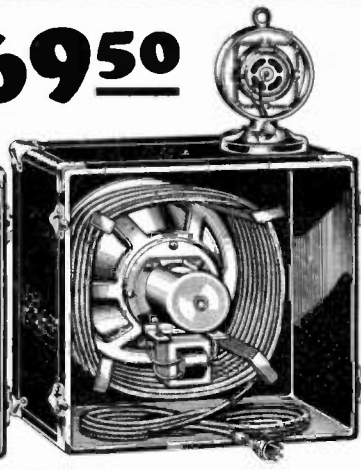
This is positively the best engineered, best built, most complete, best performing P.A. system of this type ever offered. Careful planning and long experience in manufacturing have held the price down so that this system is by far the most desirable outfit on the market at anywhere near its price. You 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 "Adding" 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 inputs.
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 attaching 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 1/4", 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.

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 33 1/3 to 78 R.P.M. with simple transmission gear lever. Powerful induction motor with manually compensated governor for exact speed adjustment on any voltage between 105 and 120, 60 cycle A.C. Extra heavy 12" weighted turntable for constant speed regulations—acts as a fly-wheel 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 14 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 35 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



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"x13"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.

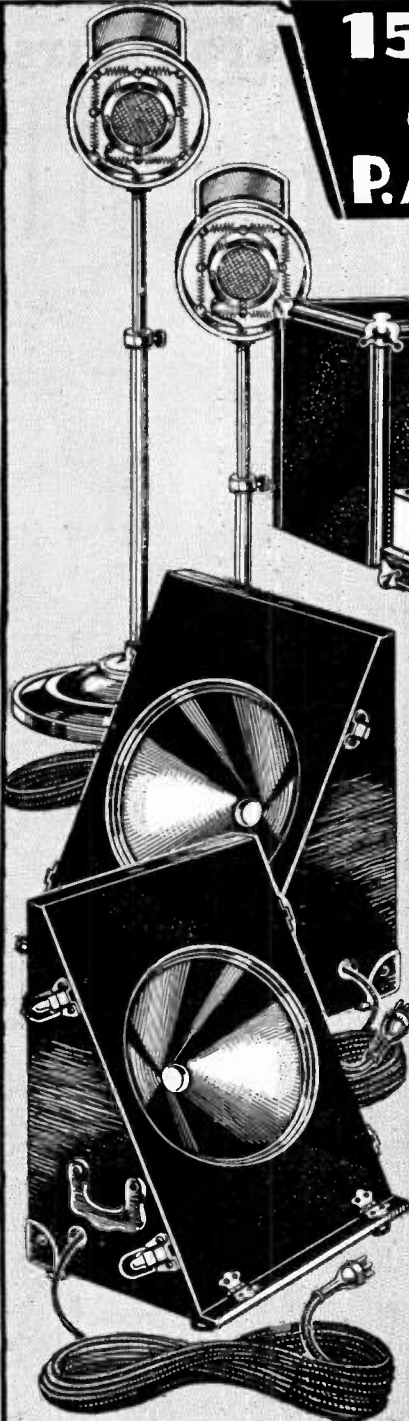
14E10667—List, \$25.00.

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 artists depending upon "gags" 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 house radio can set up and operate this system. No tools nor technical knowledge is needed. Entire system can be set up and 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:—2-58'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 boating (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 fading 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 4-1000 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 D'Arsonval movement type.

Two 12½" cone Auditorium Dynamic Speakers included are the extra large capacity Concert Type, built to carry enormous volume. Described on page 113 under stock number 14E10630. 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 5½ feet. Base is 12" in diameter and weighs 12 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 30 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 fabric. Will stand years of hard usage. Speaker Carrying case. Size closed 15½" wide, 15½" deep, 15½" high. Net weight with speakers 33 lbs. Amplifier Carrying Case. Size closed 22½" 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 carryins case; 2 Astatic Crystal microphones with stands and connecting cables; 2-12½ inch Auditorium Dynamic Speakers in separable case, with connecting cords; wiring diagram and instructions.

14E10679—

List Price, \$275.00.

YOUR PRICE.....

\$134⁷⁵

Amplifier only with output level meter and 8 matched Areturus tubes. Operates on 105-120 volt 50-60 cycle A. C.

14E10699—

List Price, \$100.00.

YOUR PRICE.....

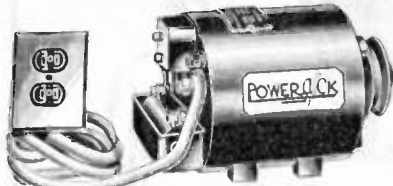
\$49⁰⁰

World Radio History

THE RADOTEK COMPANY

POWERACK—110 Volts A.C. In Any Car

Runs on the Fan Belt



14E10802—100 Watt Model.
List, \$45.00
YOUR PRICE **\$26.46**

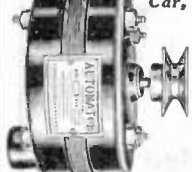
14E10803—175 Watt Model.
List, \$65.00
YOUR PRICE **\$38.22**

14E10805—Special Mounting Bracket
for V-8 Fords. List, \$8.00.
YOUR PRICE **\$4.70**

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.

Automator 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 cranking speeds as low as 5 m.p.h. Used for operating P.A. Amplifiers, neon signs, standard A.C. radios, or any electrical appliances within the rated watt output of Automator A.C. Generator.

Comes complete with 7 1/2 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 5 1/2 Amp. Charger
For Auto Batteries

Tapers from 5 1/4 A. to 3 1/4 A. as battery becomes fully charged. Input 115 V. 50/60 Cy. Polarized clamp-on receptacle for dash. Elkon dry-disc 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 frame. Double wound armature.

Perfect Radio Reception

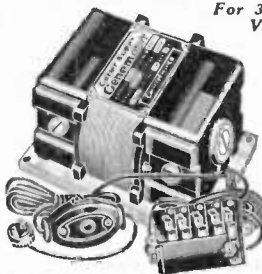
These converters are equipped with a special filter which prevents converter interference from reaching the radio. If converter is not fed use with radio, deduct \$7.00 if filter is not wanted.

Stock Number	Mfrs. Type	Output Watts	Input Amps	List Price	YOUR PRICE
14E10815	CA-25-F	80	5.4	\$8.50	\$6.41
14E10816	CA-20-F	110	8.5	4.50	28.47
14E10817	CA-18-F	150	8.5	46.00	31.56
14E10818	C13-F	300	15.0	64.50	44.25
14E10819	CB-12-F	400	19.0	99.00	67.91
14E10820	CE-12-F	600	24.0	133.00	91.24

Stock Number	Mfrs. Type	Output Watts	Input Amps	List Price	YOUR PRICE
14E10821	CA-25-F	80	1.3	\$8.50	\$6.41
14E10822	CA-20-F	110	1.9	41.50	28.47
14E10823	CA-18-F	150	2.4	46.00	31.56
14E10824	C13-F	300	4.0	64.50	44.25
14E10825	CB-12-F	500	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 6A For 6 Volt Input.

List, \$22.50
YOUR PRICE **\$13.23**

Either Model

Small precision built Motor-generators which operate from 6 V. or 22 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, 45, 67, 90, 135, and 180 volts. Special ball-bearing require no oiling. Will last for years. Built-in filter system. No trouble to connect. Complete instructions furnished for connecting.

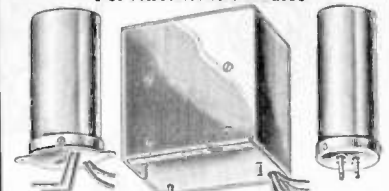
Ward-Leonard Automatic Battery Charge Regulator

3E8570—YOUR PRICE **\$2.05**

Increases the charging rate of the car generator by cutting out a resistance in series with the third 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. 66 6F, 9F, 10, 5T

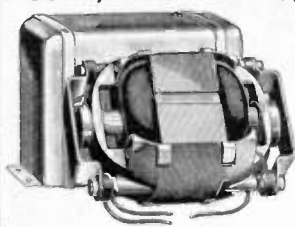
While these Vibrators are the exact replacements physically, for the Sets listed, they are big improvements over the originals electrically and will give long, trouble-free service.

Make	Model	Stock Number	List Price	YOUR PRICE
Atwater Kent	424,534 666	3E8530 3E8545	\$5.50 3.75	3.23 2.20
Audiola	345 346 347	3E8546 3E8547 3E8548	4.85 3.75 3.85	2.85 2.20 2.85
Arvin	10A, 15, 20A, 20B, 25, 30A 35, 45	3E8531 3E8549	3.50 3.75	2.06 2.20
Belmont	660 660 670	3E8533* 3E8531 3E8545	9.00 3.50 3.75	5.29 2.06 2.20
Bosch	45, 70 140, 150	3E8545 3E8534	3.75 6.50	2.20 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 1 Unit Sync 2 Unit Sync	3E8531 3E8536	3.50 5.25	2.06 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 (Sentryline)	602 5500	3E8539 3E8561	4.75 3.75	2.79 2.20
Fada	101, 102, 104B	3E8531	3.50	2.06
Ford-Maj. Ford-Zen.	Vibrator 1934 1934	3E8540* 3E8531 3E8545	9.00 3.75 3.50	5.29 2.20 2.06
Gen. Elect.	K34, M40, M41	3E8541	3.75	3.23
Grebe	61R	3E8531	3.50	2.06
Gulbrandsen	V6Z2, Z6Z1	3E8531	3.50	2.06
Hudson Terraplane	650HD, 650HE 660TD, 661TE	3E8531	3.50	2.06
Majestic	66 66 116, 116A	3E8533* 3E8531 3E8531	9.00 3.50 3.50	5.29 2.06 2.06
Motorola	34 44, 66, 77 Twin 6, Twin 8	3E8562 3E8534 3E8562	3.75 5.50 3.75	2.20 3.23 2.20
Philco	5, 6, 9, 10, 11, 700, 800, EF, Elm., EGE, 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 1171 R112	3E8532 3E8562 3E8531	4.50 4.75 3.50	2.65 2.79 2.06
Stewart Radio	50	3E8539	4.75	2.79
Truetone	Z6Z1	3E8531	3.50	2.06
United Motors	4036, 2035 4037, 4038	3E8531 3E8536	3.50 5.25	2.06 3.09
Wells-Gardner	Z6W1 26U1 V6Z2, Z6Z1 Series 6U	3E8542 3E8563 3E8531 3E8564	5.00 4.85 3.50 3.75	2.94 2.85 2.06 2.20
Wilcox-Gay	4B6	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



Replaces Vibrator Units in Following Auto Sets

Airline	General Electric
Arcadia	Majestic 116-66
Audiola	Motorola 88-61
Belmont	RCA
Bosch 150-160	Solar
Cadillac	Travillon
Ford 114	True Tone
Gulbranson	Wells-Gardner

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

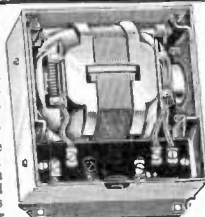
Install one of these rotary Units in the place of a faulty or inoperative vibrator type "B" supply and note the improvement in the operation of the Auto Radio. Provides a uniform voltage and will eliminate noisy and weak reception prevalent in most vibrator type Auto Receivers. No circuit changes necessary to install. Extremely compact—only 4 1/2" high, 5 3/4" wide, 2 7/8" 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**

Pioneer Auto "B" Supply Motor Generator—Dynamo

New compact dynamo type Auto "B" power supply. Motor generator operates from the 6 volt car battery and generates smooth filtered hushless 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 3/4" 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 enclosed 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.
 - Delivers 200 volts at 40 to 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" x 6 3/8" x 7 1/8". 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

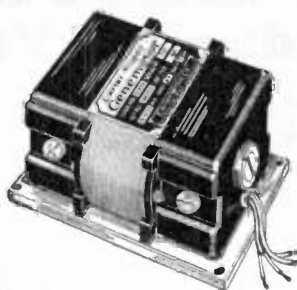
4E10123—For all Type 13s

4E10124—For all Type 14s

\$4.12

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" wide, 5" long. Fully guaranteed.

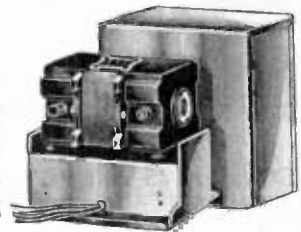
4E10140—Model 1580A } List
4E10141—Model 1535A } \$16.50
YOUR PRICE, EITHER MODEL \$9.70

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" x 6" x 6 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	\$19.09
4E10133	2565	225	65	4.5 Amp.	32.50	

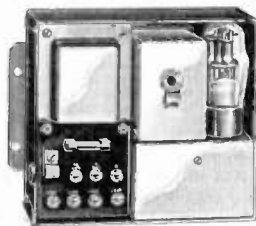
For 12 Volt Input

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	\$22.05
4E10135	3100-B	300	100	4.5 Amp.	37.50	
4E10136	2565-B	225	75	2.5 Amp.	32.50	\$13.33

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" x 6 3/8" x 2 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 150 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 7x3x3 1/2 inches. Easy to install. Complete with tube.

4E10100—List, \$17.50.

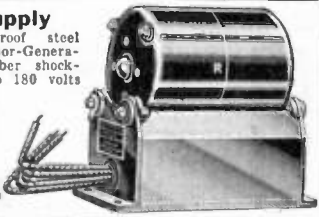
YOUR PRICE \$9.26

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 1/8" wide, 6 3/8" high. Electrical efficiency about 60%.

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.

These wonderful, over-size, long life batteries are made by the makers of one of the finest and best known brands. Buy this private label battery of us and get exactly the same quality that is offered in a well known advertised battery, but at our bargain price—a real saving for you. Actual usage will more than prove our claims.

Every battery is full voltage, positively fresh stock and will give extraordinary long service. They are ruggedly built and thoroughly tested. Each cell is sealed individually before being pitched, giving full insulation against short circuits. Compact, space-saving and hum-free—a line that we are proud to recommend and that you will be pleased to handle.

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, over-size 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.
NET EACH **19c**
Ten for.....\$1.79

22 1/2-Volt "B" & "C"



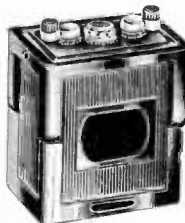
A quality battery that will give long, uniform current flow. Heavily insulated cells. New stock. Upright only. Size, Ht. 3" Wd. 4 1/2". Dpth. 2 1/2". Shpg. wt., 6 lbs.
2C14—List, \$1.75.
YOUR PRICE, Each. **74c**
Five for.....\$3.50

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.
YOUR PRICE, Each **21c**
Ten for.....\$1.98

2-Volt Radio Storage Battery



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 1/2 x 9 1/4" high overall.

3E16—
List Price, \$6.55.
YOUR PRICE **\$3.95**

A 2-volt 10 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

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.

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.

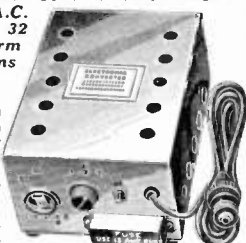
3E85—For "B" Eliminators using BH type tubes.
YOUR PRICE **79c**



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. 100 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 1/4" high.
4E10845—List, \$25.00.
YOUR PRICE **\$14.70**

32 Volt "A" Eliminator

For Farm Lighting Plants



3E4456—For 2 volt ('30, '31, '32, '33) tubes.
3E4457—For 6 volt ('36, '37, '38, '41, '42, '43) tubes.
List Price \$6.50.
YOUR PRICE **\$3.82**

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 1/2 for 5-201a or equivalent
3E4451 1 1/2 for 6-201a or equivalent
3E4452 1 1/2 for 7-201a or equivalent
3E4453 2 for 8-201a or equivalent
List Price, \$2.00.
YOUR PRICE **\$1.18**

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—
YOUR PRICE **\$1.32**

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.

"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 1/4"x4 1/4"x2 1/2".

"C" for Test Equipment

No. 5156 22 1/2 Volts
3E30—Retail Price, 85¢.
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, 31, 71A tubes on 135 volts. Shelf life over 8 months. Size 2 3/4"x1 1/4"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 22 1/2 Volt "C" batteries for use with one or two tube test oscillators or in portable two tube short-wave receivers. 3 3/4"x2"x2 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 "C" Bias. Choice of 1 1/4, 3, 4 1/2, 6, and 7 1/2 volts. Brass posts and one flexible terminal. 2 3/4"x4"x3 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 10s., Neg. 1 1/2, 3, 4 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, Overradio, and RCA battery radio sets as "C" bias. Size 2 1/2"x2 1/2"x3 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 1/2" inches. Brass contact springs on top. Retail Price 30¢.

FLAT 432 Same Size as Eveready 751
3C37—3 cell. Size 2 1/4"x2 1/4"x1 1/2" inches. Brass contact springs on top. Retail Price 30¢.
YOUR PRICE
In 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 1/4"x2 1/2" inches. Retail Price, Each 10¢.
YOUR PRICE, TEN FOR... 65¢

3C39—Baby No. 1 Tubular Type. Size 1 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 1/4". 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 1/4", 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 —22 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.

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 45volt "B"

Upright type with 22 1/2 and 45 volt tap. Height 8", width 8 1/4", depth 3 1/4". weight 9 lbs.
3E43—**YOUR PRICE** in unit PKG. OF 6,
76¢
NET EACH.....84¢
Single Lots.....

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 12 lbs., 2 oz.
3E44—**YOUR PRICE** in unit PKG. OF SIX,
\$1.01
EACH.....\$1.11
Single Lots.....

No. 11 Unit Cell

Fits all "baby tubular" flashlights. Size 1" diam., x 1 1/4" long.
3E45—**YOUR PRICE, 10 for... 40¢**



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"x4 1/2".

3E40—Retail Price, \$3.20.
YOUR PRICE
Single Lots.....**\$2.32**
IN LOTS OF FOUR, Each.....\$2.11

Auto Radio
45Volt "B"



No. 2305
3C34
Retail Price \$1.95

YOUR PRICE, Single Lots \$1.48
IN LOTS OF SIX, Each.....1.34
Height 8", Width 8 1/4", Depth 3 1/4". Weight 19 pounds. Terminals to give +22 1/2 and +45 volts. Gives maximum electrical capacity for automobile radio sets. Shelf life over eight months.

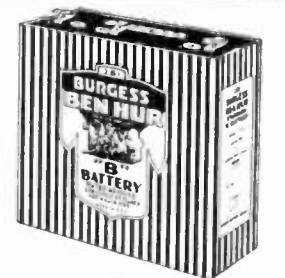
No. 23105—45 Volts

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 1/4". 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. Recovers rapidly during a short period of rest. Size 2 1/2"x1 1/2" inches. Weight, 2 lbs., 2 oz.



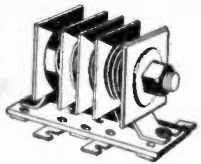
No. 21 Unit Cell

Fits standard and tubular flashlights. Size 1 1/2" diam. x 2 3/4" long.
3E46—**YOUR PRICE, 10 for... 41¢**
4 1/2 Volt "C" Battery
Height 2 1/2", width 2 1/2", depth 1 1/4".
3E47—**YOUR PRICE** in unit PKG. OF TEN, EACH.....18¢
Single Lots.....20¢

No. 6 Dry Cell

General purpose ignition, telephone and "A" battery lit. 6A". Wt. 2 1/4 lbs.
3E48—**YOUR PRICE** in unit PKG. OF 25, EACH.....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



Manufacturers' Type Rectifying Unit

The "B" B-L full wave rectifying elements are particularly suited to the use of "A" 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, Norden Hauck No. 3A, Tobe Deutchman, 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	25c
3C2318	6	.60	29c
3C2319	7	.70	32c
3C2320	8	.85	40c
3C2321	9	1.00	45c
3C2322	10	1.10	50c

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.

Cleat Mounting



3E7118-

YOUR PRICE, EACH

10¢

Cleat 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-6A.

List Price \$4.00.

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.

List Price \$8.00. 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 are 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 are 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 inter-element 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-Midget 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

TEN FOR

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

TEN FOR

36¢

3E7120-Medium 1/2 Watt. Same as above but with skirted candelabra base.

YOUR PRICE, EACH

TEN FOR

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

TEN FOR

36¢

3E7122-Same as above with skirted candelabra base. A.C. or D.C. 105-125 volts.

YOUR PRICE, EACH

TEN FOR

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

TEN FOR

36¢

3E6910-2 Watt. Standard Edison medium screw base. Clear pear Shaped Bulb. Diameter 1 1/4". 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

TEN FOR

45¢

3E7123-Same as above with Red Bulb.

YOUR PRICE, EACH

TEN FOR

49¢

3E7124-Same as above with Yellow Bulb.

YOUR PRICE, EACH

TEN FOR

\$4.50

Replacement Cells

for Wet "B" Eliminators

FOR USE WITH PHILCO-WILLARD-USA-VESTA and EXIDE ELIMINATORS



For replacing exhausted cells in electrolytic 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,

Per set of four, **\$1.69**

Wet Cells for "A" Eliminators

CORRECT TYPE FOR PHILCO SOCKET POWERS

For power units using electrolytic rectifiers to charge "A" batteries.

3C66-Type AA. 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¢**

TEN FOR

Fasten to post of any auto storage battery to adapt it for use with radio set. Has birding screw for connecting lead wire. Perfect contact always.

Universal Battery and Radio Clips



No. 45-Pee Wee Clip. For Radio Test Work. Teeth on both jaws which mesh. Jaw spread 3/8". Length 1 1/2". Cadmium plated. With screw.

3D2448-Each, 4c.

TEN FOR

30¢

No. 43B-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 24A-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

3C2420-For 48-10 for

3C2421-For 24A-10 for

3C2422-For 21A-10 for

3C2423-For 11A-Each

Auto Radio Running Board Aerial

4D10179—List Price \$3.25.

YOUR PRICE **\$1.57**

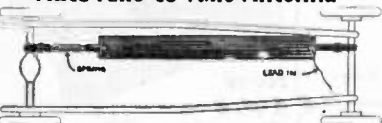
New weatherproof aerial designed to mount under the running board of any car. Aerial wire is molded inside of flexible, weatherproof rubber strips 3 3/4" wide. Two strips are mounted parallel on rustproof supporting plates. Overall width 8 inches, length 2 feet 7 inches. An additional 6 inch portion of each strip extends to a point just



This Flap Increases Pickup 200%.

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



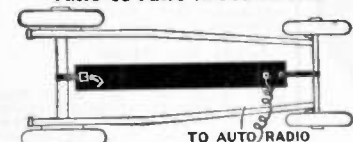
Spring Tension—Waterproof Rubber Casing

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



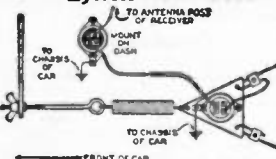
TO AUTO RADIO

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. "El-Mho" auto antenna wire, 2 rear axle insulator assemblies, 1 fly-wheel housing insulator assembly, with tension adjuster, 10 foot 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

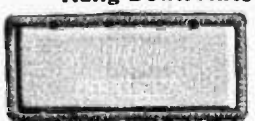


Pure copper wire screen "cloth." Makes most efficient aerial for auto when installed on top of or under roof. For car.

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.

RUNNING BOARD



This Flap Increases Pickup 200%.

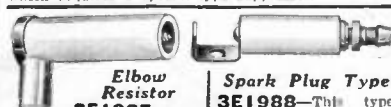
a few inches above the ground to provide extreme sensitivity. Easy to install, all mounting hardware included. A heavy spring takes up all slack—will not sag or drag. Flexible—will not crush.

Spark Plug and Distributor Suppressors

For Auto Radio Motor Interference

For silencing engine noises due to spark radiation in Auto Radio installations. Resistance element enclosed in waterproof tube. Cannot short or far 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—

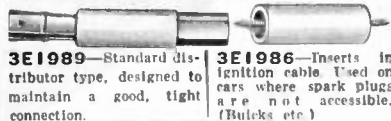
Meets the demand for unit that can be quickly and easily installed. Requires very little space for mounting.

Spark Plug Type

3E1988—This type

is the one in most general use. Fits all cars requiring standard Suppressor. Very ruggedly constructed.

Distributor Resistor Cable Resistor



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.

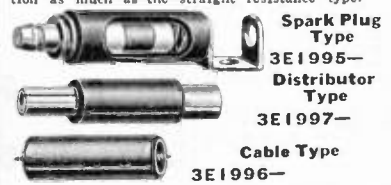
YOUR PRICE EACH For Any of the Above Types

15¢

TEN FOR \$1.39 FIFTY FOR \$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 effected 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

For use on interruptor and battery sides of ignition coil, tail light, windshield wiper, cigarette lighter, motor driven heaters and other electrical accessories on the car. All of the Single Capacitors have the same applications; the greater the capacity the greater the filtering value.

TYPE AG-1. Capacity .25 Mfd. Size 1 1/2"x1 1/2".

3E5175—List, 80¢.

YOUR PRICE, EACH **17¢**

TYPE AG-2. Capacity .5 Mfd. Size 1 1/2"x1 1/2".

3E5176—List, 95¢.

YOUR PRICE, EACH **22¢**

TYPE AG-3a. Capacity 1.0 Mfd. Size 1 1/2"x1 1/2".

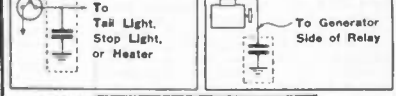
3E5177—List, \$1.25.

YOUR PRICE, EACH **29¢**

TYPE AG-4b. Capacity 1.5 Mfd. Size 1 1/2"x2 1/2".

3E5178—List, \$1.75.

YOUR PRICE, EACH **42¢**



Dual Capacitor and Inductive Units

TYPE AG-7. Consists of two .5 Mfd. capacitors and a choke in one can. Size 1 1/2"x2 1/2". For filtering storage battery supply to 5" Radio. Unbalanced condition of electrical auto system caused by various rates of charge and discharge of battery makes this unit indispensable in all installations. Diagram for connecting furnished.

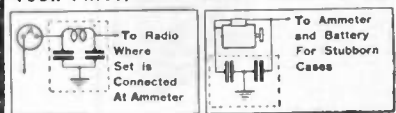
3E5179—List, \$1.75.

YOUR PRICE **49¢**

TYPE AG-8. Two .5 Mfd. capacitors properly grounded in one can size 1 1/2"x2 1/2" for filtering generator cut-out.

3E5180—List, \$1.50.

YOUR PRICE, EACH **34¢**

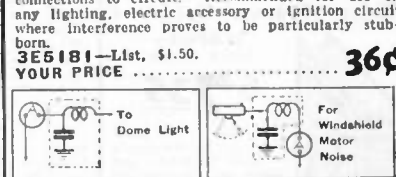


Special Dome Light Filter

TYPE AG-6. Consists of one .5 Mfd. capacitor and an efficient choke in one fibre tube size 1 1/2"x3". Has three flexible leads for easy connections to circuit. Recommended for use on any lighting, electric accessory or ignition circuit where interference proves to be particularly stubborn.

3E5181—List, \$1.50.

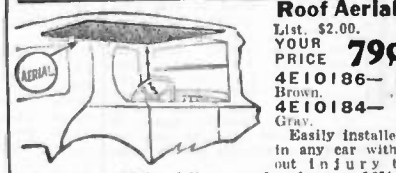
YOUR PRICE **36¢**



Inductance Capacity Filter

For Dome Lights, Stop Lights, Electric Motor-Windshield Wipers and A.C. Filter circuits. Consists of 1/2 mfd. 200 v. condenser connected in series to a choke coil wound with No. 14 wire. Metal flange on shell is ground connection and designed for mounting behind dashboard. Container size: 3" long, diameter 3/4". Mounting centers 1 1/2". Metal flange extends 1 1/2". List Price, \$1.00.

3D5195—YOUR PRICE **56¢**



Roof Aerial

List. \$2.00.

YOUR PRICE **79¢**

4E10186—Brown.

4E10184—Gray.

Easily installed in any car without injury to upholstery. Will deliver good volume. 16 1/2" wide, 28" long, 6 feet insulated lead-in. Nicely finished to harmonize with the finest car interiors.

Rider's Trouble Shooter's Manual Volume III

3E5902—
YOUR PRICE

\$7.35

1185 pages of fresh material which is not duplicated in previous issues. Point-to-Point resistance data checked by actual tests and Manufacturers' specifications. Contains a chronological catalog and index of nationally known Receivers made since 1921. Also a cumulative index covering Volumes I and II. Loose-leaf binder permits you to remove, add or change any of the pages instantly. Page sizes same as those of Volumes I and II—a new arrangement may be made grouping all models of each make of Receivers together.

Contains service data covering new Universal A.C.-D.C. Sets, Auto Sets, Short-wave Sets and combination Receivers. Public Address systems, Phonograph Amplifiers, Power Packs, Converters, "B" Power Units and Eliminators for Auto Sets are also covered. In addition a complete treatise on Test Equipment and much valuable information for the practical Radio Serviceman is included. An exclusive compilation of tube values showing electrical characteristics and constants for all tubes employed in Radio Receivers and Amplifiers since 1921. If you have Volume I and II you will appreciate the value of Volume III.

Rider's Trouble Shooter's Manual Volume II

3E5901—
YOUR PRICE

\$6.37

Contains complete circuit and servicing data on all Receivers manufactured after the issue of Volume I and prior to the publishing of Volume III. Very accurate and complete.

Point-to-Point Resistance Data

Includes a complete treatise on all values for point-to-point resistance measurement tests for the quickest accurate means of trouble shooting. 750 pages. Profusely illustrated. No duplication of material in Volume I but is of the same size and binding.

Rider's Manual Volume I

3E5900—
YOUR PRICE

\$7.35

This manual is complete in its treatment of older Receivers and should not be confused with the new Volumes II, III and IV which do not contain any of the material covered in Volume I. For practically all early models of factory-built Sets. Supplies vital data concerning these circuits.

Servicing Superhetes

By
John F. Rider



Third Edition revised to date with important information on electron coupled superhetes, AVC systems, Dual I.F. bands, Alignment of oscillators and many other valuable items of importance in the servicing and repairing of these complex modern radio sets.

3E5905—
YOUR PRICE **95¢**

RIDER'S MANUALS



Photo By Blackstone Studios, N.Y.

The Radolek Company
Chicago, Ill. Attn: Mr. W. C. Braun.
Gentlemen:

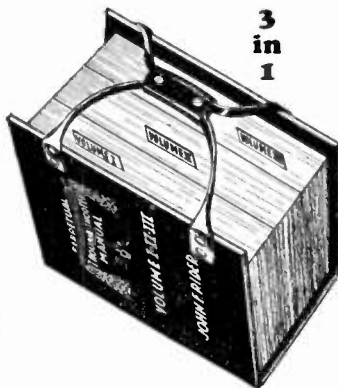
I am particularly pleased to have your firm distribute publications bearing my name due to the splendid type of Servicemen your catalog reaches.

It is my earnest hope that your customers will be thoroughly satisfied with my publications and with the delivery you are in a position to give their orders.

Assuring you of every effort to further this market, I am

Sincerely yours,
(Signed) J. F. Rider.

- The Most Complete Directory of Radio Circuits Available
- Contains Vols. I, II, and III in One Cover
- Has Cumulative Index covering All 3 Manuals
- Loose-leaf Bound in Patented "Herculox" Mechanism Binder
- Available with or Without Carrying Handles



New Complete Trouble Shooter's Manual—Volumes I, II, and III

Handiest to use. Less Chance of loss. Resistance values have been filled in to assist Point-to-Point analysis, on diagrams which were not marked previously.

Over 2,500 Pages of the Most Important Fundamental Data Required in the Radio Service Profession

Authentic Data

Rider's New Complete Trouble Shooter's Manual has been adopted as the official and most authentic source of service reference data available, by RCA-Cunningham, National Union Radio Corp., and is recommended by Weston, Elicock, Supreme and Readrite.

The clear diagrams and plainly marked resistance, capacity and IF frequency values make your work easier and your service better.

The complete tube reference chart supplied with Volume III is also included in the combined edition. This includes all standard types as well as the special types.

Contains an index of all nationally known Receivers manufactured in the United States since January 1921 and specifies the number and types of tubes they use.

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Get this complete up-to-date "3-In-1" edition in one big handy volume. You may trade in Volumes I, II, and III of either Rider's Trouble Shooter's or any other official radio service manual; we allow \$1.50 each on these old manuals if complete and sent prepaid to the Radolek Co., Chicago. Not more than three manuals accepted on any one purchase of the New Complete Trouble Shooters Manual.

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3E5904—Combined "3-In-1" Manual with Carrying Handles.
YOUR PRICE **\$24.50**

Servicing Receivers by Means of Resistance Measurement

By J. F. Rider



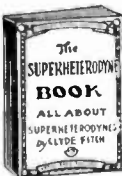
This book explains the usual resistance network which reduces all types of Sets and Amplifiers to a common level.

Special circuits are no problem when you use this new test procedure. You can test all types of Sets without wiring diagrams. Tells how to get the resistance between points in any circuit by working thru the socket contacts. Cloth bound, 203 pages.

3E5911—
YOUR PRICE **95¢**

The Superheterodyne Book

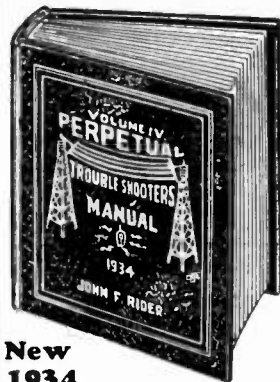
by Clyde Fitch



Contains complete information as to how they work, how to build them, and how to service them. Clearly explains the principles underlying the construction of superheterodynes.

Following is a list of the contents: Basic Principles of the Superheterodyne; The Oscillator; First Detector; Single Dial Tuning Systems; Intermediate Amplifier; Second Detector; Audio Amplifier, and Power Supply; Commercial Superheterodyne Receivers; and Servicing Superheterodynes.

64 pages. Over 60 illustrations, 6x9 inches.
3C5966—YOUR PRICE .. **40¢**



New 1934 Perpetual Trouble Shooter's Manual Volume IV

3E5906—
YOUR PRICE **\$7.35**

Are You Baffled by:

- Dual Oscillator Supers
- Reflexed IF and 2nd Detectors
- Rectifier-power Pentodes
- Electron Coupled Oscillators
- Single envelope 2-element tubes
- Automatic Tone Compensation
- Automatic Noise Gates
- Compensated Volume Controls
- Reflexed RF, AF and Detectors
- Bucking Bias Voltages
- SW-Broadcast Alignment

Never in the past have Radio Sets contained as many special and highly scientific circuits as those of the past year. A special section for Volume IV which fully explains these intricate circuits. No duplication of contents of Volumes I, II or III.

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The Index of Volume IV covers all preceding individual volumes as well as RCA-Radiotron-Cunningham "Complete Rider's Manual", also the National Union Rider's Manual.

Complete Data

More than 100 Manufacturers and their trade names are covered in Volume IV. Clear legible diagrams, plainly marked with resistance, capacity, and voltages. It is right up-to-the-minute in every respect and if you wish to combat the complications introduced into the Service field by the many new and intricate ideas incorporated in Sets of 1933 you must have a copy of this volume.

Saves Time and Money

Volume IV will be of greater help to you in servicing the Sets it covers than any other book you can possibly buy. It will save you hours of time and gain business that other Servicemen are passing up for lack of the latest technical data. Place your order today for Volume IV. Lowest-leaf binding 1008 pages, printed on good-quality bond paper. Stiff Dragon-Fabrikoid binding.

Specialized Auto Radio Manual

By J. F. Rider



3E5916—
YOUR PRICE
\$3.43

The most complete Auto Radio Service Manual available. Thoroughly up-to-date.

Covers the early as well as the late Auto Radios. Complete data; schematic diagrams, voltage requirements, resistor values, socket layouts, capacity values, installation notes, and solution of many problems met in every day Auto Radio service. Over 50 different Manufacturers products represented. No other source of information on Auto Sets so complete. Contains service questions answered in full. Don't attempt to do Auto Radio service work without this valuable book.

Gernsback's Official Radio Service Manuals



**NEW
1935
EDITION
VOLUME**

V

\$5.86

3E5959—
YOUR PRICE
1000 New Pages—but only 1 1/4 inches thick! Flexible loose leaf covers. 9"x12" size. A cumulative index covering all previous editions and supplements and 3000 illustrations.
Includes frank statements of well known weak points in hundreds of receivers. I.F. for majority of supers. Resistance data; socket layouts; color codes and everything of value in service data pertaining to all the latest receivers. Includes the late Auto and All Wave receivers, and data made available since the publication of Volume IV.



From Hugo Gernsback to Radolek

Dear Mr. Braun:

Your complete description and display of the Official Radio Service Manuals and my other publications is particularly pleasing.

Judging from your previous sales of these books, your catalog reaches the elite of the Radio Service Practitioners who use every effort to please their customers with efficient service made possible by adequate reference data. No doubt these same men depend upon your large stock and fast service for the majority of their radio needs.

My compliments, Mr. Braun.
(Signed) **Hugo Gernsback.**

Consolidated Official Service Manuals Volumes I, II, and III

In One Binding—Over 2,300 Pages

3E5954—
YOUR PRICE
COMPLETE **\$14.00**

Every circuit you need—"23 to '33. A Complete Radio Servicing Course. All Supplements published included. Size of book, 9x12x1 1/4 inches thick. Extra heavy cover, loose-leaf bound.

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If you are one of the Servicemen who have retained a large file of all the assorted service data sheets available and have to thumb through 1000 or more sheets to find that you haven't the desired data, you need this big indexed volume of all circuits.

The Consolidated Official Radio Service Manuals contain in addition to the extensive listing of receiver diagrams, hundreds of Manufacturers' instruction and service notes to their Dealers which are of great help in trouble shooting.



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Over 2000 diagrams, valuable illustrations, charts of receivers produced since the publication of Vol. III. Many circuits of earlier models which were not included in previous volumes, brings the entire series of Official Service Manuals up to 1934. Among the valuable features of this volume are extensive data on I.F. stages; P.A. Installation and Service; Test Equipment; and Radio Tubes. Extensive information on Auto Radio Installation and service is of considerable value to the serviceman specializing in this profitable field.

3E5953—YOUR PRICE **\$2.98**

Official Service Manual Volume I

To 1931



This is the first of the famous line of Gernsback service manuals which have taken the mystery out of radio repairing. Over 1500 diagrams and illustrations. This edition furnished with all supplementary sections up to 1932. Much fundamental service information and testing methods for various radio receivers. "B" eliminators, meters, speakers, tubes, etc. As this Manual includes major sets made from 1923 until 1931, no service organization can afford to be without its valuable reference data.

3E5950—
YOUR PRICE **\$4.50**

Official Refrigeration Service Manual



A logical field for radio servicemen lies in refrigeration service. One radianon recently said, "There is so little competition in the refrigeration field and the work is so simple compared to radio, that I make twice as much money in this new field as in radio and get more radio business because of contact with refrigeration clients. I use the Gernsback Official Refrigeration Service Manual and do not hesitate to tackle any 'box' listed in the manual. Every page illustrated. Every part explained. The simple tools required are described. All the information and data you need is included for Electrical Refrigeration service.

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YOUR PRICE **\$3.75**

1934 Official Short-Wave Radio Manual



Covers commercial and amateur receivers and transmitters. Ultra Short-Wave section on construction of 1, 3, 5, and 10 meter receivers. Short-Wave Coil Winding details. Treatment of disease by high frequency currents. S-W Converters and how to build them. Antennae for noise reduction on distant short-wave reception. 1000 illustrations—over 200 pages 9"x12". Leatherette Looseleaf Cover.

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YOUR PRICE **\$2.00**

Official Service Manual Volume II 1932 Edition

With Supplements



Contains 1931-32 receiver circuits and many older circuits not included in Volume I or its supplements. Short-Wave, Motion Picture, and P.A. systems are fully covered, up to 1932. 1000 pages, 2000 diagrams, charts and illustrations. Chapters on standard test equipment. Superheterodynes fully treated. 9"x12" leatherette binding.

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YOUR PRICE **\$4.00**

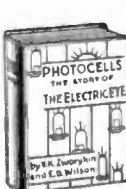
New Auto Radio Official Service Manual



Contains Auto Radio Diagrams and service notes up to mid-summer, 1934. Extensive notes on the peculiarities of different ignition systems are included. Instructions for the proper use of resistors, by-pass condensers, and chokes, location of aerial, etc., in auto radio installations. "B" power units of vibrator and dynamo types discussed from the standpoint of making quick efficient repairs. The correct adjustment of charging generators to compensate for radio drain and valuable notes on service and maintenance included. Nearly 200 pages, 9"x12" in fine loose leaf binder.

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YOUR PRICE **\$2.00**

Photocells and Their Applications



Revised Second Edition

Westinghouse research engineers V. K. Zworykin and Earl D. Wilson, authors of this exceptional book make knowledge of light sensitive cell within the reach of radio servicemen. Without doubt much of this material will be the foundation of television, a field every serviceman should be adequately prepared to enter. Written in a clear logical manner with such mathematics as is used clearly explained.

3E5929—
YOUR PRICE **\$3.00**

Official Service Manual Volume III

1933 Edition With
Supplements



The Official Radio Service Manual for 1933 receivers and sets manufactured previous to 1933 which were not included in the earlier editions. While improved circuits of some earlier receivers are shown, no exact duplicates of diagrams appearing previously are repeated. A number of timely articles from magazines are reprinted in this edition making it an excellent source of reference. A section is devoted to the construction of test equipment. Data on auto radio service. 700 pages bound in flexible 9"x12" leatherette.

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YOUR PRICE **\$4.00**

How to Become a Radio Service Man



This book by Louis Martin might better be called, "How any serviceman can make more money in the radio repair business." Careful reading of this book should double the earning power of the average radio serviceman. 64 pages. 55 illustrations. 3"x9" size.

3E5963—
YOUR PRICE **40¢**

Gernsback's New Illustrated Radio Encyclopedia



Second Edition
Revised up-to-date

3E5985—
YOUR PRICE **\$3.10**

Plain, clear English describes every technical feature of radio. A favorite book for the wires of radio servicemen who desire to know what it is all about. Excellent for the radio student or store clerk who must know how to identify and use any piece of radio apparatus. 1253 illustrations. 352 pages, 9"x12".

Key-indexed. 34 tables and charts for the advanced radio serviceman.

The Coyne Electrical

Reference Set

With Free Consultation Service



For the Radio Serviceman who wishes to branch out into the electrical field without the expense of special training or the delay of a correspondence course. Typical of Coyne is the practical applications of every theoretical proposition treated. This book would improve the work of a student electrical engineer as well as that of a radio repair man. Every related phase of the electrical industry is presented in a clear fascinating story form, with suggested practical problems at the end of each chapter.

3E5993—YOUR PRICE \$14.70

Radio Noises and Their Cure

Latest Edition

Containing full information on Radio noise sources and the methods of keeping interference from reaching the Receiver. Includes use of transmission line aerial systems and power line noise filter systems, with methods of locating and eradicating any noise producing electrical apparatus. Published by Tube Deutschman Corp.

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Radio Operating Questions and Answers

New Fifth Edition

Qualify as a Police Radio Station Operator. Here is a field for servicemen in cities with police radio stations. All you need to know for your Commercial License application is presented in easy to understand form, in 600 questions and answers, including new 34 regulations pertaining to police, aeronautical, marine and amateur station operating. 388 pages, 96 illustrations, 5 1/2"x8" cloth binding.

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Over 225,000 copies of the Radio Amateur's Handbook have been sold. A manual of high frequency Radio communication by the Headquarters Staff of the ARRL. Tells how to get started in this fascinating work of communication with other fellows throughout the whole world. Contains every detail necessary for a thorough understanding of Amateur Radio. 260 pages, profusely illustrated.

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By Moyer and Wostrel

The fourth and revised edition of this popular book, 444 pages right up to 1934 information. New sections treat of radio noise meters, auto-sets, interference suppressors, velocity microphones, special testing equipment for modern types of tubes and receivers. You can tackle the hardest kind of radio repair work with the aid of this book and solve any form of radio trouble by following the system explained.

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So little in the nature of genuine practical facts has been published on sound amplification that this book by J. T. Bernsley fills a definite need of the radio serviceman. Practical, simple, clear, every precaution necessary to insure success in P. A. work is fully described. 64 pages, 6"x9".

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Point-to-Point Resistance Measurements

Save half the time usually employed in locating trouble in a radio. Point-to-Point testing is the best method for the most difficult service problem, that of a radio which "cuts out" without apparent cause and suddenly snaps back to full volume. Written by Clifford E. Denton, consulting engineer and frequent contributor to Gernsback publications, every detail you wish to know about applying your present equipment to Point-to-Point service methods.

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Practical easy methods of substituting new tubes in old circuits, twin speakers in place of single units, increasing selectivity, improving tone; Dozens of methods which will make more money and better satisfied customers for alert radio servicemen. One of the books that you cannot afford to be without.

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Automobile Radio And Servicing



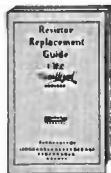
Make auto-radio service the bulk of your summer business—profit by the knowledge and grief of others. In this splendid 64 page book by Louis Martin you will find the assistance you need when motor noise fails to go out, when interference persists with the car coasting and the motor shut off. Hints for Installation in new and old style cars. Latest edition will be sent on all orders.

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3E5981—YOUR PRICE 59¢

Gives detailed information on resistors used in practically all the leading radio sets. Practical service information on location of defective resistance, formulae for determining resistor values, etc. With each guide is included scale for Weston Model 301 and Jewell pattern 88 meters with instructions for using these meters as ohmmeters. Dial scale alone worth 45¢, free with each IRC Resistor Guide.



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By Keith Henney

Just Published. A handbook for engineers written by engineers. It is comprehensive and up to the minute covering all fields of radio engineering design from fundamentals to the latest practical applications.

Every section written by a specialist. The newest tubes and latest circuits are covered. Contains 533 pages of 482 illustrations of constantly needed data presented in a profusion of tables, charts, equations, formulas and diagrams for ready reference by the designing engineer. Flexible Keratol cover, 4 1/2"x7".

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Alfred M. Ghirardi

The author of two best selling books on radio writes as follows to the Radolek Company:—

"Thank you Mr. Braun: For your presentation of my 'Radio Physics Course' in your catalog of radio parts and accessories for servicemen.

It is one of the most complete listings of radio merchandise I have had the pleasure of examining. Your clients who purchase my book may have the author's assurance that your catalog lists an ample assortment of merchandise for their needs.

Wishing you every success, I am,

(Signed) Alfred A. Ghirardi

Radio Physics Course

By A. A. Ghirardi



972 PAGES—508 ILLUSTRATIONS Latest edition, enlarged and revised. The most interesting and clearest book on radio we have ever read. The remarkable genius of the author developed through years of teaching radio to men without preliminary training makes even the most complex problems simple.

Of particular interest are new chapters on sound, superheterodynes, short-waves, "talkies", auto radio, aircraft receivers, and the latest testing systems in addition to all the earlier material in the previous volumes. The Radio Physics Course is endorsed by instructors in many technical schools as it is easy to understand and very complete. Why pay a large fee for a course in radio when this splendid book gives you all the theory you need for a complete understanding of radio service.

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The Radio Servicing Course

Second New Edition

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Larger than the first edition with many new chapters. Covers every phase of the radio serviceman's technical activity. Explains in simple concise manner, the construction and operation of all types of test equipment. Makes service a simple routine by following a system step-by-step in trouble shooting. Illustrations and diagrams make tracing circuits a pleasure. New chapter on interference elimination. Up-to-date tube data. The information in this book will improve the work (and the profits) of any serviceman who reads and follows the advice given.

3E5995—YOUR PRICE \$1.75

Experimental Radio Engineering

by John Morecroft



"Learn by doing" is an accepted educational maxim. Principles can best be grasped by working them out experimentally in your own home or laboratory. In this book, Professor Morecroft supplies 51 experiments covering the entire range of radio. You can absorb a vast amount of useful information by actually working out those problems.

This volume is the only experimental volume we know of that has as its primary purpose the definite object of hammering home the facts, theories and principles which go to make up the vast body of radio knowledge. 345 pages of knowledge which, when absorbed by you, will prove to be of immense value to you. 629 inches.

3E5931—YOUR PRICE \$3.50

Radio Frequency Electrical Measurements

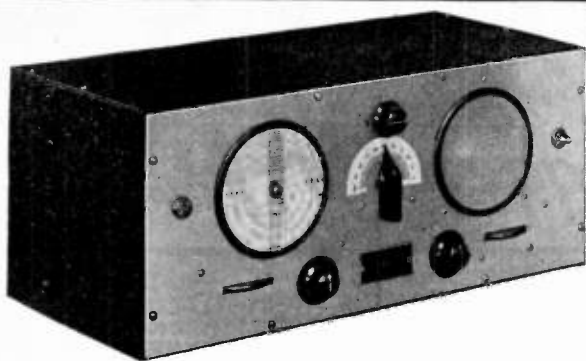
By Hugh A. Brown, E. E. Assist. Prof. Univ. of Ill.

A book for the advanced radio service man who is interested in precision measurements. The fundamental principles involved are clearly explained. Includes chapters on measuring Capacitance, Inductance, Resistance, Frequency, Wave Form, E.M.F., Power, and Current, all at radio frequencies. 386 pages, 6"x9", fully illustrated.

3E5940—YOUR PRICE \$4.00



WORLD-WIDE RANGE



5 TUBE PROFESSIONAL SHORT WAVE SKYRIDER

- ★ Four Tuning Ranges—13 to 200 Meters
- ★ An Ideal Short-Wave Receiver for the Home
- ★ Very Simple and Compact—Easy to Operate
- ★ Advanced Coil Design—Coupled Coils Interwound
- ★ Autodyne Circuit—Best for Short-Waves
- ★ No Plug-In Coils—Turn Knob to Select Band
- ★ Continuous Band-Spread Control
- ★ Finest Quality Built-In Dynamic Speaker
- ★ Jack for Head-phones or Additional Speaker

Built for Home Use

The "SKYRIDER" is a "Hallcraft" product... Designed and built by an organization specializing in short-wave Radio apparatus. It is so simple in operation that it can be successfully operated by anyone... so efficient that its performance will delight even the most critical short-wave "fan"... and so inexpensive that you don't have to talk yourself to death to sell it.

The "SKYRIDER" is a complete, self-contained Short-Wave Receiver—it is not a converter. Its efficiency on short-waves is much greater than that of "Dual-Wave" and "All-Wave" Receivers because it is designed and built for the specific purpose of covering only the wave lengths between 13 and 200 meters (25,000 to 3,100 KC).

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 $7\frac{1}{2} \times 7\frac{1}{2} \times 17$ ". 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.
YOUR PRICE.....**\$39.95**

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 Wal-
nut 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 4-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" 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, 1-2525.

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 1/2" 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!



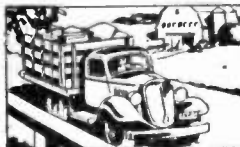
FOR SALESMEN AND DOCTORS

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!



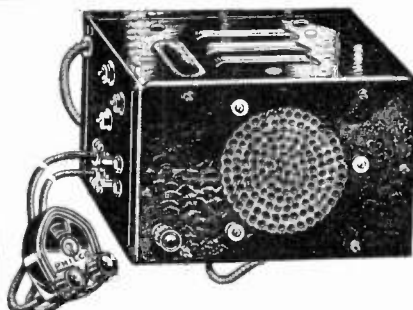
FOR TAXI OR BUS

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**

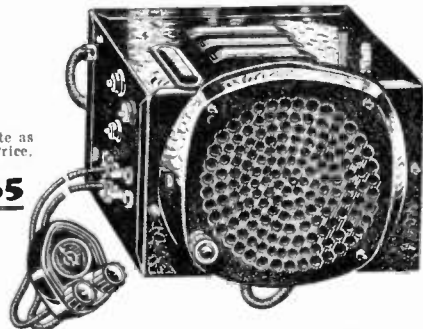
Philco's newest sensation—the most desirable Auto Radio ever produced at this low price. Superheterodyne circuit. Operates entirely from car storage battery. Has new full-wave Vibrator type "B" supply using a type 84 rectifier tube. Special input and output chokes in the vibrator circuit prevent engine 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 3/4" 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**

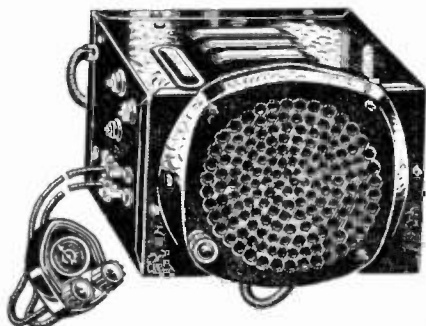


- New Airplane Type Dial which gives full tuning vision.
- Large-size Dynamic Speaker for rich, full Tone.
- 4-Point Tone Control which enables the user to adjust to the requirements of any program.
- Automatic Volume Control.
- Tremendous Power for open-car driving.
- Uniform performance over any road 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 "B" 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



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**

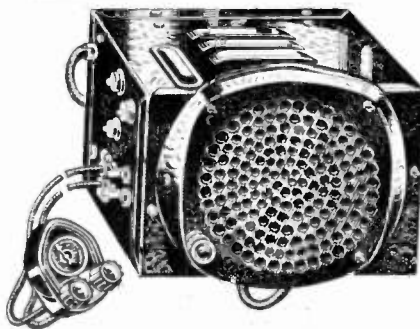
The Philco Model 10 is an ideal "sell-up" from the Model 700. Since it can easily be sold wherever its superiority over the lower priced Model 700 is demonstrated, why not pocket the substantially greater profit from the sale? The Model 10 is truly the finest 6-Tube Superhet ever designed for automobile 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 compares with modern A.C. Sets.
- Uniform performance under all conditions.
- Everything in one Unit.
- Easy to install under cowl. Container size 10 3/4" wide, 6 3/4" high, 8" deep.

MODEL 800

SEVEN-TUBE SUPERHET

- Improved A.V.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.



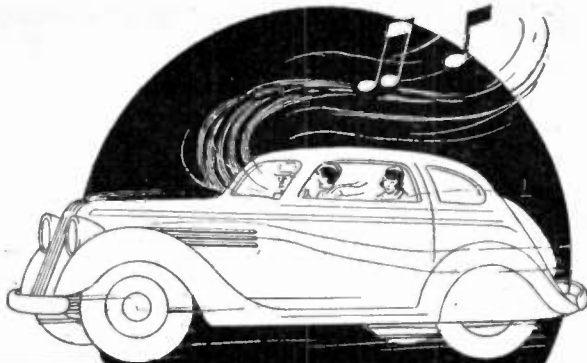
The finest automobile Radio ever built by the world's greatest manufacturer of automobile radios. With it you can dominate the quality Auto Radio business of your locality. Get behind this model and push it.

The Model 800 is a super-performing 7-Tube Superheterodyne which provides reception actually equal to the best home operated Receiver. 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 3/4" 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, 1-57, 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**

World Radio History



PHILCO

RANKS first

IN PUBLIC ACCEPTANCE

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 dipping 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 out. Your address is also printed in "secret ink". Prices FOB Worthington, Ind. **\$4.00**



3E3271—100 for **\$3.20**
250 for \$7.00; 500 for \$10.00; 1000 for \$15.00

POSTCARDS

The most economical way for reaching old customers and new prospects. 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.



3E3272—250 each of 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. Prices imprinted. Imprinting 1,000 or less \$1.00 extra. FOB Chicago. **\$1.00**



3E3273—250 for **\$1.00**
500 for \$1.95; 1000 for \$3.90

Asks No Odds in Performance!

RADOLEK 6 AVC 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 1/4" 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 11-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

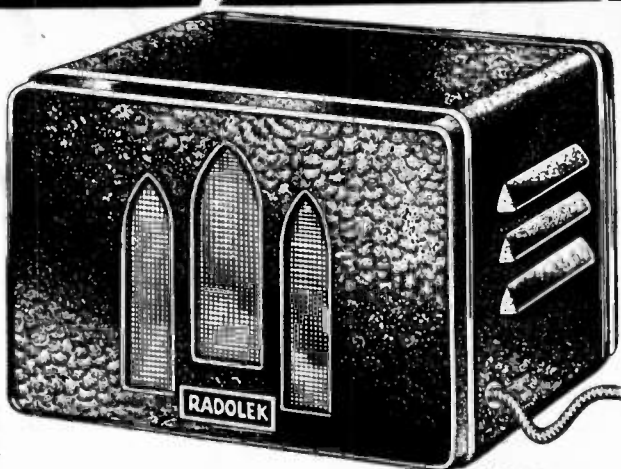
The Power-Pack uses a full-wave Vibrator and a type 84 Tube for full-wave rectification. This assembly is mounted on the chassis deck where it is easily accessible for adjustment.

Airplane Dial

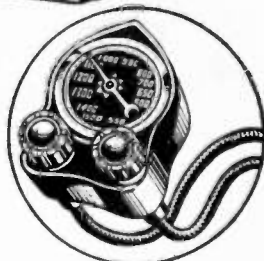
An Illuminated Airplane Dial of new design is accurately calibrated in kilocycles with large white figures on a black background. Very easy to read day or night.

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.

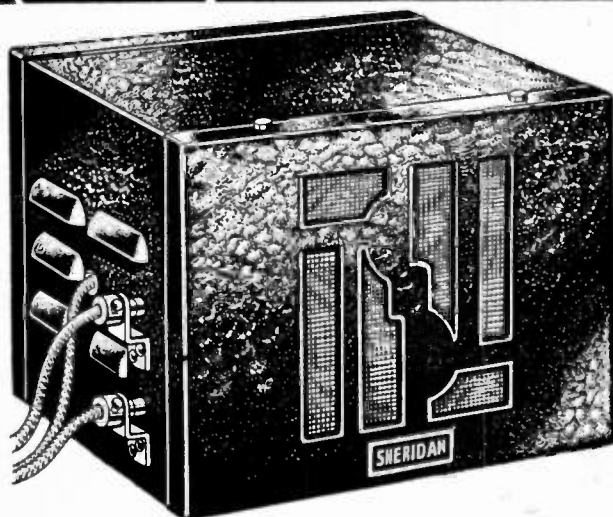


- Complete in ONE Unit
- Superheterodyne Circuit
- Automatic Volume Control
- Dynamic Speaker
- Illuminated Airplane Dial Vernier Drive
- Kilocycle Calibration
- Combination Volume Control and Locking Device
- Fits All Type Cars
- Easiest Auto Radio to Install
- Single Hole Mounting
- Only Two Connections



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, Tube Rectifier Type) are contained in a substantial crackle-finished steel case size 7 1/2" deep, 9 1/4" wide, x 7 1/4" high. This case mounts underneath the cowl 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.

- 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



Airplane Dial

RADOLEK 4 TUBE DUAL WAVE



\$13⁹⁰

COMPLETE WITH TUBES

TUBE

AC

**75-555
METERS**

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, 9½ 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.

YOUR PRICE.....

\$13⁹⁰

- 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 TUBE DUAL WAVE

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 A.C. Line Filter
- Finest Quality Dynamic Speaker
- Electric Phonograph Connection
- Beautiful Modernistic Cabinet

This five-Tube Midget 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 bell-clear 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 blasting 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 10½ inches wide, 7 inches deep, 12½ inches high.

World Radio History

**75-555
METERS**

\$19⁵⁰

COMPLETE WITH TUBES



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

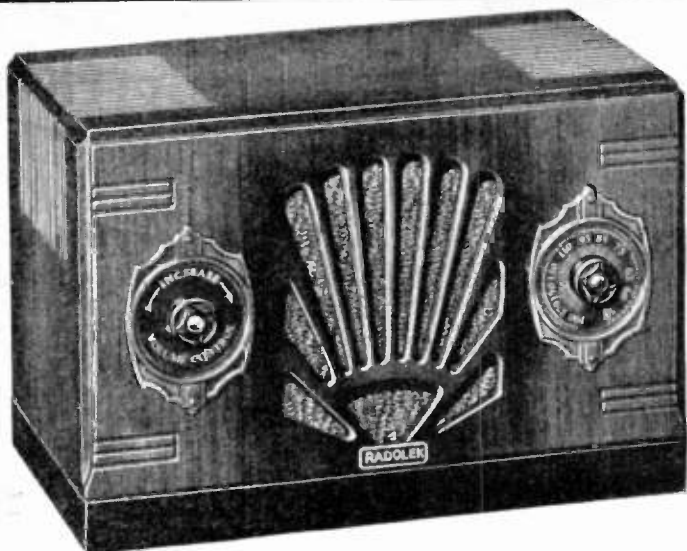
25 cycle available for \$1.00 extra.

\$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 $\frac{1}{4}$ " long, 6 $\frac{1}{4}$ " deep, 7 $\frac{3}{4}$ " 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. 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.

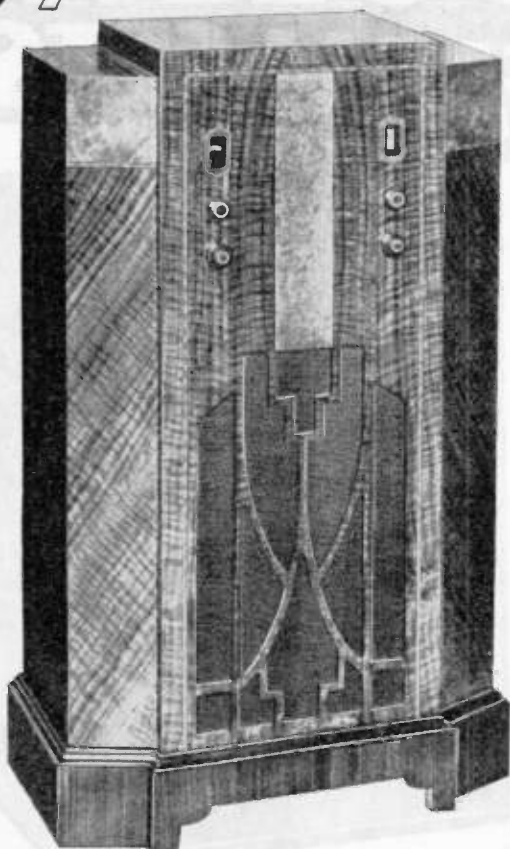
The Cabinet is a handsome design with two-tone walnut and bird's eye maple veneers. Very substantially made; durably and artistically finished. Its compact size—only 9 $\frac{1}{2}$ " inches wide, 4 $\frac{1}{2}$ " inches deep by 6 $\frac{1}{2}$ " inches high.



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, 1-43, 1-44, 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 | —Electro-Dynamic Speaker |
| —Improved Superheterodyne Circuit | —Gear-driven Vernier Dial |
| —Latest Type High-gain Tubes | —Accurate Kilocycle Calibration |
| —Silent Meter Tuning | —Finest Performance on broadcast |
| —Stepless Tone Control | —European Reception |
| —Three-gang Tuning Condenser | —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.

14E10981—Radolek "TRA-VELOG" 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

A 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 for 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 "TRA-VELOG" 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—Controls acts fading and tends to maintain an even volume level irrespective of signal strength.

THREE-GANG TUNING CONDENSER—Six sharply tuned circuits provide knife-edge selectivity and render all available broadcast 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: 1-2A 1-2A6, 1-2A7, 2-585, 1-80.

PHONOGRAPH CONNECTIONS provide for the addition of electric pick-up and turntable for the reproduction of ultra-fine music from phonograph records.

STONE 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.



14E10980—Radolek Table Model "TRA-VELOG" 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 "TRA-VELOG" 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

75 to 550 METERS

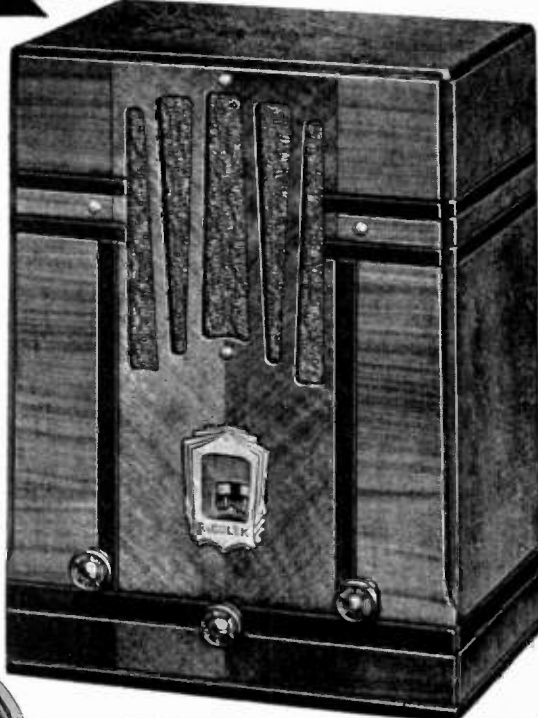


**Two Up-to-date
Sets for Rural Use
with as much Quality and
Performance as Similar A.C. Sets**

• 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 is 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.

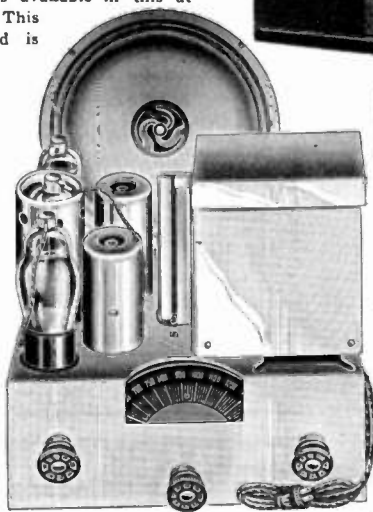
RANGE 75 TO 555 METERS

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 vernier driven and accurately calibrated in kilocycles for quick and easy tuning. Five New Type Low-drain Tubes are used: 1-6A7, 1-7B, 1-7S 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" wide, 8 1/2" deep, 14 1/2" high.

14E1096B—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".

14E1099S—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, 1-7S, 1-7B, 1-84) Chassis size: 8 1/2" wide, 6" deep, 8 1/4" high. List Price, \$39.50.

YOUR PRICE **\$23.23**

14E1099B—Radolek 5-Tube Dual-Wave Chassis for 2-volt Battery operation, 8" 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 1/4" 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 32 screen-grid Detector. This tube also provides Automatic Volume Control current for the type 31 intermediate frequency tube. A 1A6 acts as the mixer-oscillator tube.

Six-tuned 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 Amps. of "A" current and 20 ms. 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.

14E1096B—Radolek 5-Tube Dual-Wave Superhet (75-550 Meters) for 2-volt Battery operation, complete with RCA Tubes; less "A" and "B" batteries

List, \$33.00.

YOUR PRICE

\$19⁵⁰

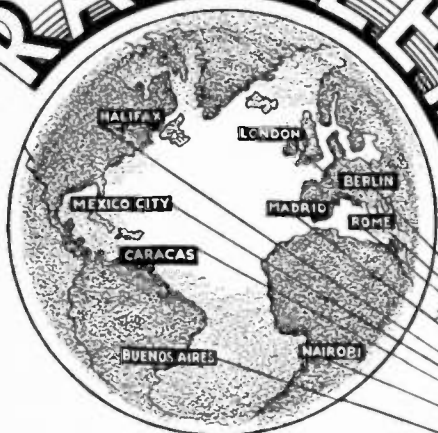
3E17—Special Set of 3-45 volt heavy-duty "B" batteries and 1 Eveready Air Cell.

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 Output
- ◆ 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

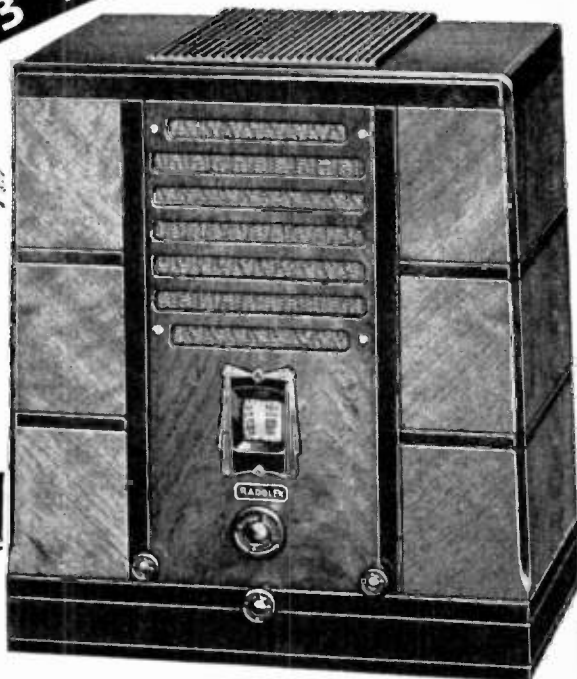
The Cabinet of the Radolek All-Wave Superhet is certainly one of distinction. Burled walnut veneer center panel is flanked on each side by panels of select crotch grain light American Walnut veneer. The paneling effect is applied to the sides as well as the front, a feature not found on any but the most 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 1/4 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 glove-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.

14E10974—As Above for 105/120 Volt 25 Cycle A.C. List Price, \$51.00. **\$30.00**

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**

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MERSHON

Electrolytic Condensers

Triple 8
8-8-8
Total 24 Mfd.
3E5887—
YOUR PRICE... **\$1.12**



These are genuine Merphon Condensers, offered to you at Real Bargain Prices. Quality Guaranteed. Peak voltage 430. Mounting brackets and vent covers not included.

Upright Mounting

Stock Number	Capacity Mfd.	List Price	Your Price
3E5885	8-18	\$4.50	\$0.75
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	.39
3E5894	10	1.70	.50

Grid Resistances

All wire-grid resistances—covered with varnished cambric can be bent any shape. Small—compact—length 2 1/4 to 12 inches. Plating leads.

Stock Number	Resist. Ohms	Stock Number	Resist. Ohms
3E285	25	3E312	1,400
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 1/4 in.	

Midget Carrying Case

Extra heavy suedette material. Strong and durable. Securely attached handles. Dark brown finish. 4 brass studs are attached to a heavy reinforced bottom.

Stock Number	For Sets NOT Larger Than	YOUR Price
4E10765	9" x 6" x 5"	\$1.42
4E10766	11 1/4" x 8 1/4" x 5 1/4"	1.59
4E10767	12 1/2" x 8 1/4" x 5 3/4"	1.65

Zipper Type

Zipper Type

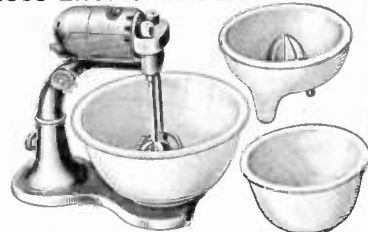
Zipper Type

Zipper Type

Zipper Type

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 easily 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.



14D11080—List, \$18.75.

YOUR PRICE... **\$10.78**

Complete with one large and one small mixing bowl, one juice extractor, one juice extractor r e a m e r, individually removable self-cleaning beaters, ball bearing self-revolving bowl plating form, 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. @ 3 amps., 5 V. @ 2 amps.

3E4250—List Price, \$7.00.

YOUR PRICE... **\$1.65**

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 470 V. C.T. @ 130 Ma., 6.3 V. C.T. @ 3.5 amps., 5 volts @ 2 amps.

3E4252—List Price, \$5.00.

YOUR PRICE... **\$1.95**

See Page 16

Radolek has made available to you at an unheard of low price a Genuine Neon "Radio Service" Sign.

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 70A, 270A, 370A

Part Num. 5118

For replacement of 25 cycle power transformers in Philco models 70A, 270A, 370A and other sets using 4-24's or 4-58's, 1-27 or 1-56, 1-47 or 1-45, 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.

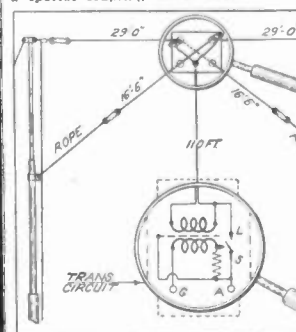
YOUR PRICE... **\$1.95**

NOTE—Can Be Used On 110 V., 60 Cycle Receivers.

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 intervening 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
1—Cross-over Insulators
2—Nail-Knobs
2—Pieces Cambric Tubing
1—Tube Insulator
1—Cleat
1—Ground Clamp
Installation Instructions and Certificate
3E5828—
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

14E10162—Complete with Tubes and Suppressors.

\$23.70

List Price, \$39.50.

YOUR PRICE...

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.

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

	Zones 1&2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
Weight In Pounds	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	.12	.17	.22	.26	.32	.37
4	.12	.13	.19	.24	.29	.36	.42
5	.13	.14	.20	.26	.32	.40	.48
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	.21	.31	.49	.70	.89	1.13	1.36
13	.22	.33	.52	.76	.96	1.22	1.47
14	.23	.35	.56	.80	1.03	1.31	1.58
15	.24	.37	.59	.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	1.67	2.02
19	.28	.45	.73	1.07	1.38	1.76	2.13
20	.29	.47	.77	1.12	1.45	1.85	2.24

If the weight of your package exceeds 20 pounds, add 1 lb. for each additional pound or fraction of a pound if you live in the 1st and 2nd zones, 2 extra if you live in the 3rd zone, 3 extra if you live in the 4th zone, 5 extra if you live in the 5th zone, 7 extra if you live in the 6th zone, 9 extra if you live in the 7th zone, and 11 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.

Table of Approximate Rates

Per 100 lbs. for Express and Freight

From Chicago to	Express per 100 Pounds	1st Class Freight per 100 Lbs.	From Chicago to	Express per 100 Pounds	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
Mississippi	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 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	\$6.00
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	.44	.48
3 Pounds	.38	.38	.40	.42	.43	.43	.44	.45	.46	.47	.50	.55
4 Pounds	.38	.39	.42	.45	.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	.62	.69	.74	.81	.86	.90	.93	.97	1.12	1.33
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

This INDEX LOCATES YOUR WANTS QUICKLY

WE WILL SEND YOU A GENEROUS SUPPLY OF ORDER BLANKS ON REQUEST

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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 unit of payment 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 millivolts. The audio quality is checked with a Cathode-Ray Oscilloscope and where possible is improved. For future reference, the report includes the exact frequency at which the I.F. stages are peaked. 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 \$5,000 WORTH OF LABORATORY EQUIPMENT. Quotations furnished on request for testing or calibration of special apparatus.

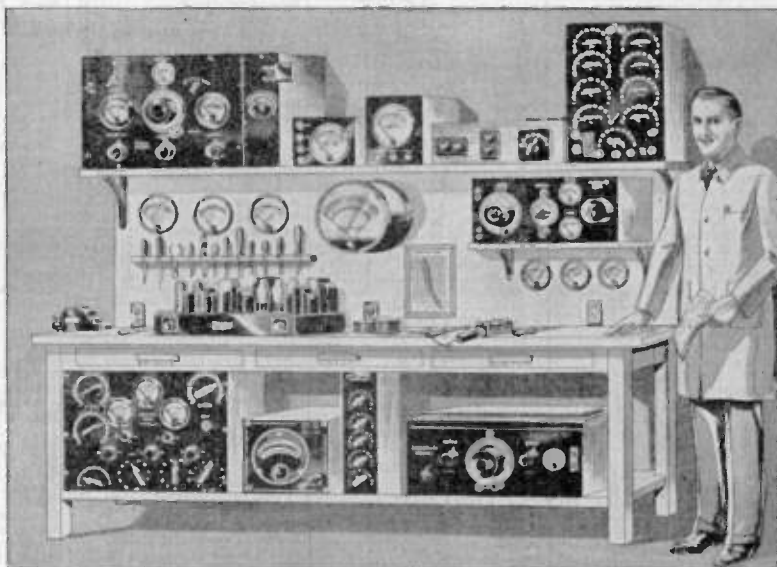
Enhance Your Professional Reputation! Seek the "Hard-to-Fix" Radio Sets

If your Equipment is inadequate for the job, Send the receiver to Radolek's Laboratory!

Any Radio Receiver Can Be Repaired Here. You Can Guarantee Your Customer Results Equal or Superior to That Which Might Be Expected from a Factory Service Station.

The Finest Radio Laboratory Facilities Are Now Available for Your Special Use on Difficult Problems!

Competent Engineering Staff—Familiar With Your Most Difficult Problems. You Will Always Receive the Best of Service and the Most Friendly 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 these 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 Chassis And Express Collect.

Shipping Instructions

FOR FASTEST SERVICE AND CAREFUL HANDLING, SHIP VIA PREPAID EXPRESS. Pack the chassis carefully. Include tubes and any auxiliary apparatus which might be the cause of trouble, (speakers, remote control, etc.) Do not send cabinets occupying more than 1½ cubic feet 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 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.

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, standard 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 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 they solve problems that are ordinarily difficult as merely routine tasks.

J. P. Kennedy, A.M.I.R.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

New RADOLEK 7-TUBE DUAL-WAVE SUPERHET

"TRANS-OCEANIC"

Here 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. Newspapers are featuring this new Radio thrill and are printing much information on short-wave schedules and programs. This publicity is creating new prospects by the thousands for better Dual-Wave Receivers, but most Sets capable of spanning the seas are too expensive for the average family to buy. These facts are important to YOU because they make sales easy for you with this improved low-priced Radolek 7-Tube Superhet.

How 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 astute engineering. Its designers appreciated the fact that practically all domestic and foreign program-broadcast is confined to just two wave bands—550 to 1500 kilocycles and 6 to 17 megacycles—and incorporated only these ranges in this Receiver. This very sensible specialization on 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

As 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 finest materials are used and each component matches with laboratory precision the 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 notice that Resistors and Condensers are not only the best known makes, but also liberally selected as to their current and voltage carrying capacities.

The Circuit

Being a Superheterodyne, this Receiver is very sensitive. Its seven tuned circuits also 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 TRF amplification ahead of the first Detector which operates on both bands and provides a very high signal to image ratio. The very latest type Tubes are used: 2-6D6, 1-6AT, 1-75, 1-76, 1-41 and 1-80. The circuit is designed to realize the full advantage of their improved performance characteristics and provides more than ample Power with smooth, distortionless reproduction. A Jensen Dynamic Speaker capable of handling the entire output of the Set is employed. The AVC is unusually efficient and maintains a uniform volume level for various signal strengths. A Continuous Tone Control permits frequency discrimination to suit the individual taste 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
HJ1ABB.....	Barranquilla, Columbia
EAQ.....	Madrid, Spain
GSC.....	Daventry, England
YV3BC.....	Caracas, Venezuela
0XY.....	Skanileback, Denmark
I2R0.....	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 Consoles. 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 1 1/2 inch wide, 3/8 inch 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.

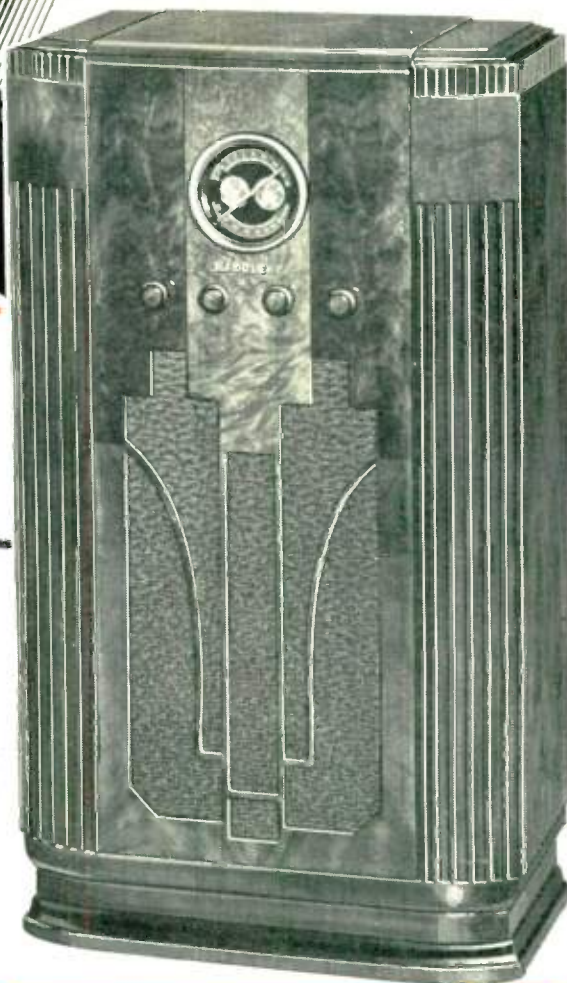
YOUR PRICE **\$43⁸¹**

The Table Model

For those who prefer the "Trans-Oceanic" Chassis and Speaker may be had in the beautiful Table Model Console shown 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 1/2 inches high.

14E10985—Radolek "Trans-Oceanic" Table Model for 105-120 volt 50/60 cycle A.C. Complete with 7 RCA Tubes.

List, \$59.50. 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.



RADOLEK 1935

RADIO PROFIT GUIDE
for DEALERS-
RADIO SERVICEMEN

**YOUR
STORE**

Trim your Store Windows
with the
LATEST RADIO SETS

Display Your New
SERVICE EQUIPMENT

Promote the Sale and
Rental of
**PUBLIC ADDRESS
SYSTEMS**

MODEL RADIO SERVICE
WE REPAIR ALL MAKES

**STANDARD PARTS
CARRIED IN STOCK**

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BRUNSWICK
GENERAL ELECTRIC
MAJESTIC
PHILCO
RCA RADIOLA
SPARTON
STEWART WARNER
TEMPLE
U.S. RADIO
ZENITH

**WE TEST YOUR TUBES
ACCURATELY and
HONESTLY**

**AUTO RADIO
Service**
We ELIMINATE
MOTOR INTERFERENCE

ALL WORK GUARANTEED

**SERVICE
DAY and NIGHT**

**WE INSTALL
NOISE
REDUCTION
AERIAL
SYSTEMS**

**AERIALS
CALLED**

RADOLEK CO.
601 W. RANDOLPH ST. CHICAGO.