

# SEMI-ANNUAL 1933 SUPPLEMENT COAST-TO-COAST

# BROADCAST

**An Important Message To All Radio Dealers:**

YOU CAN Make BIG MONEY In A NEW INDUSTRY  
Wherein The PROFIT POSSIBILITIES ARE GREATER  
Than Those Enjoyed From Selling Or Servicing  
Radio Receivers . . .

PLEASE TURN TO PAGE 3  
For Full Details Showing You How To  
ESTABLISH YOURSELF  
AS AN OFFICIAL  
"COAST-TO-COAST"  
P. A. AMPLIFIER  
SALES-RENTAL  
SPECIALIST!



UNIVERSAL POWERED FEATURE PERMITS MANY USES

**20 WATT OUTPUT**  
**2A3 PA AMPLIFIER**

Choosing From Choice of  
A 6 Volt Storage Battery . . .  
110 Volt AC Light Socket . . .  
"A", "B" and "C" Batteries . . .



SEE PAGE 10 For Complete Description!



## COAST TO COAST RADIO CORP.



PHONE  
WATKINS  
7861-7862

121-125 WEST 17th ST. NEW YORK CITY U.S.A.

CABLE  
ADDRESS  
COTCORAD



# 21.7 WATT CLASS "A" PRIME



## Seven Tube 3 Stage 250 Push-Pull P. A. Amplifier

Unexcelled for Amplification of All MIKE-PHONO-RADIO INPUTS Due to Incorporation of a HIGH GAIN PRE-AMPLIFIER STAGE!

**SPECIFICATIONS:**

TUBES REQUIRED: 1-56, 1-89, 2-250, 1-280, 2-281; NUMBER OF STAGES: Three; CIRCUIT: The first 56 tube is resistance coupled into the high gain 89 power pentode amplifier driver tube, which in turn is coupled through a specially designed Class "A" Prime input transformer into the two 250 Output Tubes; INPUT: To 500,000 ohms potentiometer connected to the grid of the first tube. GAIN: 92 D.B. at 1,000 cycles. OUTPUT: 8,000 ohms in the plates of the 250 output tubes; POWER CONSUMPTION: 155 watts. DIMENSIONS: 17 1/2 in. long, 12 1/2 in. wide and 7 1/2 in. tall; WEIGHT: 68 lbs.

Equipped with highly effective VOLUME and TONE CONTROLS. TWO ON-OFF Switches are provided one for the plate supply and A. C. line respectively, and another toggle switch varies the input line voltage. Dynamic speaker field current is available for one 2,500 or 1,000 ohm speaker at no additional charge. Speaker field provision for seven additional 2,500 ohm speakers may be had for \$1.50 for each field provision, or 3 more 1,000 ohm fields for \$2.00 additional, for each such field provision.

D3092, 21.7 Watt Improved RCA Amplifier, FACTORY WIRED, Ready for Immediate Operation. Less Tubes and Speakers ..... **\$29.50**



A FULLY MODERNIZED AMPLIFIER CONTAINING VALUABLE FEATURES NOT INCORPORATED IN THE ORIGINAL MODELS—A "COAST-TO COAST" DEVELOPMENT

Equipped with TWO COMPLETE and INDEPENDENT A.C. POWER PACK SYSTEMS! The two 281 Full Wave Rectifiers furnish the "A-B-C" voltage requirements of the entire amplifier, whereas the 280 Rectifier is solely used to furnish absolutely constant and purely filtered voltage source for exclusive use as the proper "C" Bias for the 2-250 Tubes. The amazing and highly satisfactory results produced by this amplifier are greatly due to this exclusive feature! The exceptional faithful and realistic quality produced by Class "A" Prime Amplification is too well known and established to necessitate further elaboration herein... suffice it to say, however, no existing amplifier can rank superior to this model in performance and all around satisfaction... nor can any other 100% QUALITY AMPLIFIER meet the amazingly low quotations as shown below!

**CLASS A PRIME**  
**3 STAGE 250 PUSH-PULL**  
**HIGH GAIN**

**\$29.50 LESS TUBES AND SPEAKERS**

**OUTPUT 21.7 WATTS**  
**CAN FURNISH FIELD CURRENT FOR 1 TO 8 DYNAMIC SPEAKERS**

**Special Offer**

D3054, 21.7 Watt Amplifier and Set of Seven Matched Tubes (D3093) FOUR 11 in. (choice of) JENSEN or WRIGHT DE COSTER DYNAMIC SPEAKERS, Special Matched Output Transformer and Speaker Field Provision for the 4 Speakers ..... **\$64.50**  
(Deduct \$1.35 for EACH Speaker Not Desired)

D3093, 21.7 Watt Improved RCA Amplifier, FACTORY WIRED, COMPLETE, With a Set of Seven GENUINE MATCHED TUBES ..... **\$39.50**

D3138, Matched Output Transformer—500, 250, 15, 8, 4, and 2-ohm Secondaries ..... **\$4.75**



**RCA**



**Westinghouse**



**VICTOR**

## Four Tube "Instantaneous Heater" 250 Super Power Auditorium—Sound Truck—Public Address Amplifiers

Excellent for Microphone, Inter-Office Communication, Phone, Pick-up, and Radio Tuner Amplifications

Uses 1-226, 1-250, 2-281 RCA Tubes--Produces Tremendous Volume--Ample for Huge Gatherings

**MOST AMAZING AMPLIFIER VALUE EVER OFFERED!**

Due to the "quick heater" action of all its tubes, this amplifier is especially valuable for use in INTER-OFFICE COMMUNICATION SYSTEMS, or wherever it is necessary to operate an amplifier "the moment" it is turned on! These amplifiers are also very ideal for use in multi-channel installations, as each amplifier is entirely self A.C. operated.

**Produces Gigantic Distortion-Free Volume. Remarkable Reproduction!**

Connection diagrams are furnished showing how to connect the field coils of 1-250 ohm, 1 or 2-1,000 ohm, or 4-2,500 ohm (110 Volt D. C. Type) DYNAMIC SPEAKERS. Each amplifier is equipped with a 10 to 15 ohm impedance voice coil matching transformer—a diagram furnished shows how 1 to 8 dynamic speakers can be properly "matched."



**Produces Gigantic Distortion-Free Volume. Remarkable Life-like Reproduction!**

You will be immensely thrilled by the almost uncanny reproducing qualities of these amazingly powerful amplifiers—either using it as a microphone, phonograph or Radio Tuner amplifier! Its A.C. Audio system ensures universal utility of application, permitting the use of a high impedance phone, pick-up or coupling to any Radio Tuner. The input and Output Circuits of the first A.F. tube are brought out to a terminal strip, permitting the use of that stage as a self-contained pre-amplifier for any microphone, phone, etc. An external voltage supply of low volts at 50 milliamperes is available—serves a host of valuable applications, such as for Radio Tuner voltage supply adaptation, etc. A switch permits selection of 90 to 195 Volts, or 105 and 120 Volt A.C. operation. Receptacles are provided for an A.C. Line Cord Male Plug and for a convenient speaker field current outlet. All connection terminals are clearly engraved on a readily accessible bakelite terminal strip.

**\$8.95**  
Complete with TUBES & 2B

**New! Guaranteed! In Original Cases! Ready for Use!**

**HERE IS THE IDEAL "Rental" P. A. Amplifier System PAYS FOR ITSELF WITHIN TWO OR THREE RENTALS!**

Your purchase of this high grade equipment is actually an INVESTMENT... many dealers have on hand 3 to 10 of these amplifiers, and keep them constantly rented out!

D-1700, RCA 250 AMPLIFIER ..... **\$8.95**

Less Tubes and Speaker

D-1701, RCA 250 AMPLIFIER, Complete with Four Genuine RCA Tubes ..... **\$12.75**

D-1712, RCA AMPLIFIER (D-1701) with Four Genuine RCA Tubes and ONE Matched WRIGHT DE COSTER, or Jensen 11 in. Diameter Dynamic Speaker ..... **\$17.75**

Same as above, but with TWO SPEAKERS ..... **\$22.50**

# It Will Pay You to Confine All of Your Radio Purchases to the House of "COAST-TO-COAST"

The Continuous and Enviably Growth of Our Sales Volume Is Proof Positive That Our Service, the Quality of Our Merchandise, Our Sales Policies, and Guarantee of Complete Satisfaction Has Established Unreserved Confidence in Us!

## WE WILL NOT BE Undersold

If there appears in any competitor's Radio Mail Order Catalog a listing of an identical item as shown in this bulletin at a LOWER PRICE than OURS, just mention the facts (catalog catalog involved, page number, etc.) and WE WILL MEET THE SAME PRICE! You can, therefore, trade exclusively with us fully realizing that you cannot buy anything in Radio for less money from our competitors. There is no need to split your profits!

## Complete Satisfaction Guarantee

We Guarantee That All of Our Goods Are Illustrated and Described Accurately . . . Should Any of Our Merchandise Fail to Meet With Your Complete Approval . . . It May Be Returned Within Ten Days of Its Receipt For Prompt Adjustment.

## WE DO MORE THAN Undersell

We only list such Radio equipment that we can conscientiously recommend. Most of our orders are dispatched from within 6 to 24 hours after receipt. Our large stock, thoroughly trained Personnel and smooth functioning systems make our remarkably speedy shipping service possible. A friendly spirit prevails—you are given the utmost personal service—the distance that separates us is veritably obliterated.

### RADIO DEALERS AND SERVICEMEN: INVESTIGATE THE P. A. AMPLIFIER FIELD.

## Make Big Money Renting or Selling Public Address Amplifiers . . . .

Establish Yourself as an Official "COAST-TO-COAST" P. A. Amplifier Sales Specialist!

In a recent editorial by that world-famous pioneering Radio Editor, Mr. Hugo Gernsback, the popular opinion was confirmed that the rental, sales, and installation of Amplifiers and Public Address Systems form one of the most lucrative fields any Dealer, Serviceman, or Technician can be engaged in. The Public Address field is a distinct outgrowth of the development of Radio—its money-making possibilities, however, exceed by far the profits ordinarily derived from the sale of receiving sets. Public Address Amplifier rentals and sales are not subjected to seasonal slump. Sound systems have a particularly advantageous commercial aspect, because the majority of sales or rentals are made to business organizations who usually employ the equipment to provide an additional source of income. In contrast to the average radio set buyer who purchases a receiver as a luxury. This commercial appeal makes P. A. Amplifiers suitable for sales promotional efforts throughout the year, and offers Radio Dealers and Servicemen a real money making opportunity aside from the general radio receiver business. Day by day, new uses are found for Public Address Amplifiers—the demand for "COAST-TO-COAST" P. A. Amplifiers is enormous. Your own town or city is literally full—of excellent prospects—there are many who actually NEED amplifiers and DO NOT KNOW IT! If you will only go after the business, you will actually be amazed at the golden opportunities to make real money in a veritable VIRGIN

FIELD! The demand for amplifier equipment is undeniably here, but, many prospective purchasers are entirely in the dark as to a suitable source of supply to obtain perfect equipment at a nominal investment. Thousands of store keepers are looking for effective methods of attracting more attention to their window displays and demonstrations—they are all "sure sale" prospects for the enterprising dealer who takes the initiative to demonstrate, for instance, our Portable Public Address Systems to them. Likewise, owners of convention halls, churches, factories, department stores, restaurants, beer-gardens, bus lines, dance halls, etc., would grasp the opportunity of renting or buying our Sound Systems if—THEY HEARD, or WERE TOLD ABOUT THE PROFIT they would derive from the application of Amplifiers in their business. You would be astonished to read the many letters received by us from store-keepers, political organizations, Chambers of Commerce, etc., throughout the country ASKING WHERE TO BUY and HOW TO INSTALL OUR P. A. SYSTEMS! You are the logical man to sell and rent our amplifiers in your locality! It is necessary, however, for you to "let the world know" that YOU SPECIALIZE in the rental and installation of Public Address Systems. Remember, this equipment can not readily be purchased in the average retail Radio Store, and the prospective purchaser will usually prefer the PERSONAL CONTACT, YOU, A "COAST-TO-COAST" PUBLIC ADDRESS AMPLIFIER INSTALLATION SALES SPECIALIST, can alone offer him!

Here is a sure-fire plan of securing P. A. Sales or rentals: Install one of our Dual-Powered 5 volt D. C. and 110 Volt A. C. Amplifiers in your car—pull up in front of your prospects place of business and hail him out, by speaking his name and a clever accompanying sales talk into your "micro" . . . the resultant effect within the prospects establishment is electrifying . . . he will come out and the sale is then half won. Our advertising department has prepared a complete series of newspaper advertisements (of various sizes) which are supplied free upon request, to purchasers of "COAST-TO-COAST" P. A. AMPLIFIERS and SYSTEMS. These advertisements, if placed in your local newspapers under your own name, will bring many prospects into your store or shop. An interested "PROSPECT" cannot help but materialize into a SATISFIED PURCHASER, with but ONE DEMONSTRATION! The best possible way to "break into" this big money-making field, is to buy one or two of our P. A. Systems for yourself. These units can then be used not only to advertise yourself as a Public Address Specialist, but also as an actual unit for an System. (Only a few rental dealers own several such systems. Some of our Amplifiers, some of which are continuously rented while one or two are used for demonstrating purposes.) Again . . . WE REPEAT . . . There is BIG MONEY in this highly lucrative field . . . be the first in your neighborhood to establish yourself as an official "COAST-TO-COAST" Sales Specialist! Our wholesale net prices quoted in this catalog will permit you to quote re-sale prices that will give you a 20% to 100% profit, and your customer will still SAVE BIG MONEY! Many amplifiers have been sold to commercial houses who to turn out but the system to other merchants whenever they are not actually using it themselves—their purchase then of an amplifier system becomes an INVESTMENT, and not an expenditure.

## IF YOU VISIT OR LIVE IN NEW YORK

MAKE USE OF OUR

## METROPOLITAN SALES COUNTER and Amplifier Demonstration Rooms

Thousands of "Local" Radio Purchasers Wisely Come to the HOUSE OF "COAST-TO-COAST" as Their EXCLUSIVE SOURCE OF SUPPLY

A cordial welcome awaits the trade. We have made arrangements TO PARK YOUR CAR, ADJACENT TO OUR BUILDING, FREE OF CHARGE. Daily our salesrooms and laboratories are visited by customers who drive in from neighboring states! Our Sales Staff and Radio Engineers are eager to be of service to you—a friendly spirit prevails—we do not permit or tolerate "high pressure" sales tactics. We have ample stocks on hand and sufficient sales personnel to serve you quickly and courteously. We will cheerfully demonstrate any of our public address amplifiers, receivers, speakers, micro-phones, etc.

## Free Traveling Expense Allowance

If you live out of town, and desire to purchase a complete auditorium or sound truck P. A. Amplifier System, communicate with us and we will arrange to have one of our representatives meet you at the railroad or bus terminal, to personally escort you to our plant. Transportation traveling expenses, either by aeroplane, train or auto, will be compensated for by us in proportion to the amplifier sale consummated. On your arrival, one of our Staff of Engineers will devote his undivided attention to you, and give you TOTALLY UNBIASED TECHNICAL INFORMATION, which you can unreservedly rely upon!

## HOW TO ORDER

### YOU PAY THE PRICES SHOWN HEREIN

We Absorb the Present Federal Excise Tax!

For the sake of your convenience, a 2% CASH DISCOUNT HAS ALREADY BEEN DEDUCTED AS WELL. The Wholesale Prices Shown Are Your Net Costs.

Our only terms, to ALL individuals and business houses, are: FULL NET CASH REMITTANCE WITH ORDER OR C.O.D. TO EXTEND CREDIT WOULD SO GREATLY INCREASE OUR COST OF DOING BUSINESS, THAT HIGHER NET PRICES, THAN THOSE QUOTED HEREIN, WOULD OF NECESSITY HAVE TO BE IMPOSED! Send remittances by MONEY ORDER—PERSONAL CORPORATION OR CASHIER'S CHECK—CASH (REGISTERED MAIL, please) or in the form of U. S. POSTAGE STAMPS. Remittances from foreign countries should be made payable on a New York bank. All net prices in this catalog are subject to change without notice—you are given the benefit of all reductions that may occur.

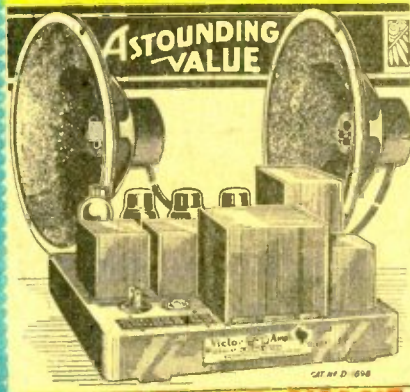
## C. O. D. ORDER INSTRUCTIONS

All C. O. D. orders must be accompanied by a 20% DEPOSIT REMITTANCE with order. You save money by sending full remittance, in not having to pay C. O. D. fees and return remittance charges. C. O. D. foreign shipments may be handled as follows: We will make shipment, SIGHT DRAFT AGAINST OUR BILLS OF LADING, presented to YOUR BANKERS IN N. Y. If parcel post shipment is desired, please include an additional amount in your remittance or cover note—in the absence of such additional remittance, or instructions, shipment will go forward via express collect. Any excessive postage allowance will be promptly refunded. Non-insured shipments are made at customer's risk.



## Victor Model R-32, R-52, RE-45, RE-75 Two Stage 245 and 247 Push-Pull "Mike"-Phone-Radio P. A. Amplifiers

Excellent for Window Sales Demonstrations, Inter-Office Communication Systems, Call Systems, Lectures, etc.



**ASTOUNDING VALUE**

The incorporation of a late model design RCA Power Transformer enables the use of the latest series of highly improved tubes, assuring matchless performance! (The original transformer employed only permitted the use of 1-226, 2-245, 1-280 Tubes.) Every component part in these amplifiers was designed to carry a substantial over-load, to avoid break-down. Its generous construction can be gleaned by its dimensions of 13½ in. long, 10¼ in. wide, 6¼ in. tall. Mounted upon a sturdy chassis, fitted with all conveniences, such as speaker field provision plug, voice coil outlet plug, tuner voltage outlets, etc., etc. These amplifiers can furnish D.C. Field Current to a 2,500 ohm 110 volt D.C. Dynamic Speaker. (If you desire to use any other type speaker, we will include a special 2,500 ohm choke to supplant the speaker field . . . 90c additional.) An Output Push-Pull Transformer, with a 7-15 ohm Voice Coil Matching Impedance is also furnished—a diagram included shows how to match same to the impedance of 1 to 8 Dynamic Speakers. A Phono-Input Tap is also provided. Highest grade parts make up these very easily assembled kits—such manufacturers as Westinghouse, Victor, General Electric, etc., etc. The utterly simple wiring that remains to be done can be accomplished by anybody with only a slight knowledge of Radio! We have made available this series of amplifiers, incorporating the latest type tubes to cover various modern innumerable amplifier applications.

**SPECTACULAR VALUE**

Cat. No. D 1652

**\$4.95**

LESS TUBES & SPEAKER

**OUTPUT: FOUR WATTS**

### 4 and 7½ Watt Output Class "A" Amplifiers

For Operation From 110 Volt, 50-60 Cycle A. C.

#### 4 Watt Model

Cat. No. D1652 **\$4.95** Less Speakers and Tubes  
Tubes Required: 1-56 (or 326, 2271, 2-245, 1-280)

#### SPECIAL OFFER

D1896, Four Watt Amplifier (Cat. No. D1652), including Four Tubes (specify type numbers desired), and with your choice of one Wright De Coster, or Jensen Dynamic Speaker **\$12.45**

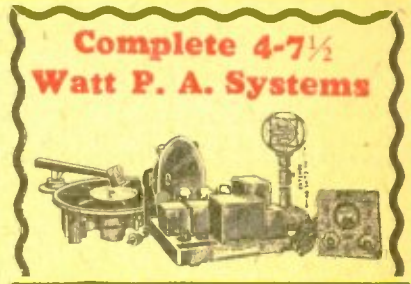
Additional Wright De Coster, or, Jensen Dynamic Speakers Available for \$7.35 each.

#### 7½ Watt Model

Cat. No. D1653 **\$5.95** Less Speakers and Tubes  
Tubes Required: 1-57 (or 224A, 226), 2-247 (or 59), 1-280 (or 83)

#### SPECIAL OFFER

D1895, 7½ Watt Amplifier (Cat. No. D1653), Complete With Tubes (specify type numbers desired) and one Wright De Coster or Jensen Dynamic Speaker **\$13.95**



### Complete 4-7½ Watt P. A. Systems

**AS ILLUSTRATED**

<b>4 WATTS</b>	<b>7½ WATTS</b>
<b>\$44.50</b>	<b>\$49.50</b>
<b>COMPLETE</b>	<b>COMPLETE</b>

Cat. No. D1906 Consists of:

- 1—"MIKE - PHONO - RADIO" INPUT MIXER CONTROL BOX.....\$16.50
- 1—Wright De Coster, or Jensen Dynamic Speaker (Choice of 2,500 ohm or 6 volt fields).....7.35
- 1—40 to 72 in. Tall "Mike" Stand.....5.95
- 1—Double Button "Mike".....5.95
- 1—110 Volt A.C. Phono Motor.....7.95
- 1—Super-Sensitive Phono Pick-up.....6.95

Cat. No. D1906 Total.....\$30.65

#### SPECIAL OFFERS

#### 4 WATT MODEL

D1907, Consists of 4 Watt Amplifier (Cat. No. D1652), Set of Tubes and Cat. No. D1906 Equipment above listed **\$44.50**

#### 7½ WATT MODEL

D1908, Consists of 7½ Watt Amplifier (Cat. No. D1653), Set of Tubes and Cat. No. D1906 Equipment above listed **\$49.50**

	<b>R C A</b>		<b>Westinghouse</b>		<b>Victor</b>
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## GENUINE R-32, R-52, RE-45, RE-75 REPLACEMENT PARTS

Stock Up Now—These Items Will Soon Be Entirely Off the Market—With Today's Trend of Rapidly Rising Prices, These Quotations Are Far Out of Line . . . BUY NOW . . . Before You Have to PAY MORE

**Victor Audio Transformer With Phono-Pick-up Tap**

For Replacement in All Victor Sets and, of Course, Can Be Used in Any Other Set. Can be used as a conventional A. F. transformer, while also serving as a Phono. Input Transformer. (Phono. Tap does not have to be used, if not desired.)

Terminals are numbered 1, Phono Pick-up; 2, B Plus; 3, Ground; 4, Plate; 5, Grid.

D3174  
**75c**

**Victor 600 Volt 10¾ Mfd. Condenser Block**

Ideal for Any Make Pentode or 245 Set!

Arrangement of terminals: 5 mfd.; 3 mfd.; 2.5 mfd.; Common; 5 mfd. Total 10¾ mfd. Size: 5¾ in. long, 5 in. high, and 4 in. wide.

D3175  
**65c**

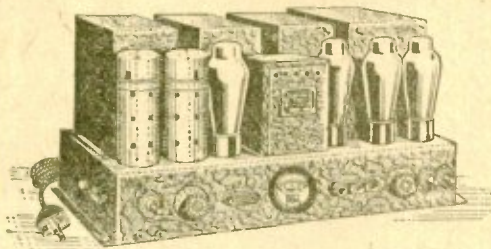
**Victor Input, Output Push-Pull Audio Transformer Assembly**

Electrostatically Shielded Amplification On All Frequencies. Impregnated against lamination vibrations. Output matches voice coil of standard dynamic speakers. Can be used with every type of power output tubes! Both Input and Output transformers mounted in one case! 5¼ in. long, 3¼ in. wide, 3-7/16 in. high.

D3176  
**\$1.45**

## Four Stage Class "B" 26 Watt Output Microphone-Phono-Radio Sound Truck or Auditorium PUBLIC ADDRESS AMPLIFIER

Can Furnish Dynamic Speaker Field Current Excitation to From One to Eight Speakers! Equipped With a Self-Contained PRE-AMPLIFIER STAGE! Produces Sufficient Volume to Cover Huge Outdoor or Indoor Areas!



### The Exclusive and Valuable Advantages Offered by Class "B" Amplification

The Class "B" Amplifier circuit was the answer to a vital demand for an amplifier system that should produce enormous outputs and at the same time only require a MINIMUM POWER CONSUMPTION—should employ very low cost tubes—should operate at low plate voltages—and should have very little bulk and be light in weight... and above all, NO SACRIFICE IN QUALITY OF TONAL REPRODUCTION is to occur. The Engineering Staff of the COAST-TO-COAST RADIO CORP. has undoubtedly perfected Class "B" Amplification, as the following will conclusively prove. This Class "B" Amplifier produces 26 watts of continuous undistorted audio output power and yet consumes only approximately 89 to 86 watts on an average basis. Compare this to a Class "A" 4-250 and 4-281 tube equipped amplifier, also producing 26 watts, BUT REQUIRING AT ALL TIMES 250 WATTS with corresponding enormous heat dissipation! (The low wattage consumption of our Class "B" Amplifier system permits its prudent use in an automobile or sound truck wherein a suitable 110 Volt A.C. Power Supply device, with a suggested minimum output of 100 watts, is installed.) Your wholesale cost on a set of tubes for this Class "B" Amplifier is \$5.85, whereas the wholesale cost of tubes for a Class "A" Amplifier producing 26 watts is \$19.76—a saving then of \$13.91 in tubes alone! Our Amplifier only requires 159 volts plate voltage as compared to 250 VOLTS commonly employed on 250 type Class "A" Amplifiers... the valuable advantage gained in using only 150 volts permits the employment of SELF-HEALING DRY ELECTROLYTIC CONDENSERS, and consequently avoids condenser breakdown and resulting uninterrupted service and performance! Our 26 Watt Class "B" Amplifier weighs only 42 lbs., whereas a 26 Watt Class "A" Amplifier would weigh approximately 100 to 120 lbs.; naturally, bulk is automatically correspondingly reduced. The realistic manner with which this amplifier reproduces all audio outputs is not excelled by the finest and most costly amplifiers available! Last, but not least, YOU WILL SAVE BIG MONEY ON YOUR PURCHASE PRICE OF THIS AMPLIFIER EQUIPMENT on your INITIAL INVESTMENT, as well as maintenance cost, for new tubes, current consumption, etc.

### Two of These Amplifiers Constitute a Modern Single or Dual Channel "50 Watt" Output P. A. System

Previous design 50 watt amplifiers (employing 845 tubes in push-pull) consume approximately 500 watts, whereas two of these Class "B" Amplifiers only consume approximately 180 watts! The wholesale tube cost on an 845 model 50 watt amplifier is approximately \$7.00, whereas two complete sets of tubes for two of these 26 Watt Class "B" Amplifiers cost \$11.70 wholesale. There is also a saving of approximately 700 pounds in weight alone, and a corresponding saving in bulk. The feature of having available one single output channel of 52 watts, and, at the same time, the optional use of two channels of 26 watts EACH, is of great importance and value—it permits many and varied applications!

- D3013. Fully Assembled, but Unwired, Less Tubes and Output Meter (Blue Prints and Diagrams Incl.)... **\$45.00**
- D3014. Same as D3013, but Factory Wired and Laboratory Tested, Ready for Immediate Use... \$59.50
- D3015. Set of 6 Tubes: 2-56, 3-59, 1-83; ..... 5.85
- D3016. Westinghouse or Weston Audio Output Meter, Installed as Illustrated ..... 7.50
- D3017. (Fully Descriptive Blue Prints and Diagrams, Separately Available) ..... 2.00

No finer testimonial could have been paid to this really remarkable Amplifier System than the fact that the Editorial Board of that internationally renowned Radio publication, "RADIO NEWS," was so unanimously impressed with the matchless performance of this amplifier, that they accordingly strongly featured it editorially in four recent issues of "RADIO NEWS"! In fact, the front cover of the February, 1933, issue was entirely devoted to our Class "B" Amplifier and associated COMPLETE RACK and PANEL SYSTEM—a very flattering tribute indeed!

### Single and Dual Channel Rack and Panel Complete P. A. Amplifier Systems



45 in. Tall—Permits Installation Within Any Sound Truck!

Made of a heavy gauge angle iron, this super-structure frame is firmly strengthened by means of cross pieces of angle iron at the top and bottom, the whole affair being annually solidly assembled by the generous use of over-size bolts, nuts and lock-washers. For floor mounting purposes, there are provided two 1/2 in. thick angle stock brackets—if desired; however, the rack and panel does not have to be necessarily bolted to the floor, as the mounting platform extends 20 in. on the floor from front to back, 18 in. wide and 10 in. deep (behind the instrument panels). Shelves are obtainable as listed below. The rack and panel frame is separately obtainable, and if desired, we can furnish installations as listed below or, a complete installation comprising the ALL PURPOSE INPUT CONTROL PANEL, the Super-Heterodyne Tuner Panel (described on next page) and your choice of any Public Address Amplifier as listed in this catalog. If you only intend to employ one amplifier channel, we can provide a special shelf that permits mounting of an electric phonograph motor mechanism and pick-up within the vacant space.

- D3022. Rack and Panel Framework... **\$17.50**
- D3024. Blank Control Board or Tuner Panels (Each 19 x 10 in.)... \$1.00
- D3025. Shelves... 1.50
- D3026. Phono-Motor Board and Mounting Brackets... 3.75

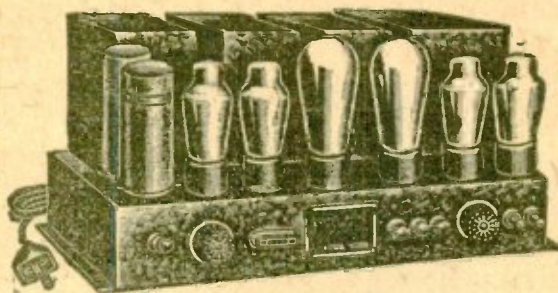
D3027. COMPLETE INSTALLATION, Includes a 26 Watt Class "B" Amplifier (D3014), Input Control System Panel (D3029), and Rack and Panel Framework (D3022)... **\$100.00**

### SPECIFICATIONS:

TUBES EMPLOYED: 2-56, 3-59, 1-83; UNDISTORTED MAXIMUM CONTINUOUS OUTPUT: 26 WATTS; NUMBER OF STAGES: Four; CIRCUIT: The first 56 Tube is resistance coupled into the second 56 Tube, which in turn is also resistance coupled into a 59 "Driver" Tube, which feeds through a "PUSH-PUSH" Transformer, into 2-59 Tubes; 6.4M AT 1,000 CYCLES; 91 D.B.; FREQUENCY CHARACTERISTIC VARIATION BETWEEN 50 and 5,000 CYCLES: 2.75 D.B.; INPUT: To 500,000 OHMS POTENTIOMETER, connected to the grid of the first tube; OUTPUT: 10,000 ohms (To Plates of Both 59 Tubes), 500 ohms tapped at 200 ohms, as well as 15 ohms, tapped at 8, 4, and 2 ohms; POWER SUPPLY: 110 Volts A.C. 60 Cycles; POWER CONSUMPTION AT NO LOAD: 45 Watts; FULL LOAD POWER CONSUMPTION: 96 Watts; DIMENSIONS: 17 1/2 in. long, 9 in. wide, 45 in. tall; WEIGHT: 44 lbs.

Constructed upon a sturdy and handsome black crystalline finished steel chassis. Component parts, such as Power Transformer, Filter Chokes, Filter Condensers, and Inter-stage Audio Transformers, are bolted to the metal chassis proper, and four separately removable steel plastic cover them. A Multiple Choke Filtering System is Employed—this assures HUM-FREE operation and reproduction. A pleasingly effective Tone Control and smoothly graduated Universal Volume Control are incorporated. Two INPUT JACKS are provided—one is connected to the grid of the first tube, which in reality functions as a MICROPHONE or PHONO. PRE-AMPLIFIER. This permits any input control apparatus (such as the "COAST-TO-COAST" All Purpose Public Address Input Control Boxes) or phono pick-up matching transformer or microphone transformer to be directly connected to this input jack. A switch is provided to feed any input signal brought to this jack directly to the grid of the second tube, if desired. Another INPUT JACK (for Radio Tuners) provides permanent connection to the GRID of the second stage 56 tube. A triple post provides connections to the plates of both 59 output tubes and their "B" supply, permitting the use of an external output transformer other than the one furnished as regular equipment. On the rear panel, there are provided facilities for female outlets for the various line and voice coil outputs, made possible by the self-contained OUTPUT TRANSFORMER. This model amplifier can be made to furnish D.C. Field Excitation to from 1 to 4-2,000 Ohm D.C. Speakers, or from 1 to \$2,500 Ohm D.C. Speakers, at an additional cost of \$3.75 for each speaker; field current provision desired. (With 8 dynamic speakers operating at one time, each one will reproduce slightly over 3 audio watts.)

## Four Stage Class "AAA" 40 Watt Dual Push-Pull Public Address Amplifier



Heretofore, a 40 or 50 watt amplifier installation represented the expenditure of huge sums, ranging from \$400.00 to \$950.00. We are, therefore, very proud of our accomplishment in perfecting this amazing power amplifier and being able to sell it to our trade at a wholesale price which heretofore would have been spent for the tubes alone as still required in previous design 40-50 watt amplifiers. And here is another very vital improvement... former design 40-50 watt amplifiers consumed approximately 500 to 550 watts per hour, whereas this system actually consumes only 125 to 150 average watts per hour! Now let us consider bulk... previous design 40-50 watt amplifiers weigh approximately 110 lbs., whereas this complete system weighs the astonishing diminutive total of only 42 lbs. As the average power consumption of this amplifier is so unusually low, in comparison with its large output, the use of relatively low powered 12 or 32 volt motor generators (gasoline engines or wind driven generators) is practical and feasible where commercial 110 volt A.C. power lines are not available. A relatively low rectifier voltage of 560 volts is impressed upon 1,000 volt peak electrolytic self healing condensers, this wide safety factor margin avoiding entirely the danger of any possible condenser breakdown.

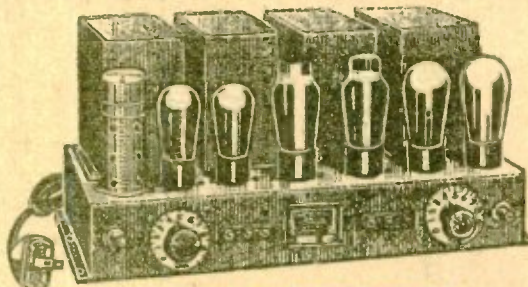
### SPECIFICATIONS:

**TUBES EMPLOYED:** 2-56, 2-59, 2-250, 2-82; **NUMBER OF STAGES:** Four; **CIRCUIT:** First 56 tube is resistance coupled into second 56 tube, which in turn is transformer coupled into two 59 tubes in push-pull. A special interstage transformer couples these tubes into two 250 "push-pull, push-pull" output tubes; **RECTIFIERS:** 1-82 Rectifier supplies plate voltage to both 250 tubes—the other 82 Rectifier supplies remaining tubes with necessary voltages, as well as the "C" bias for the 2-250 tubes; **MAXIMUM CONTINUOUS UNDISTORTED OUTPUT:** 40 Watts; **INPUT SIGNAL VOLTAGE TO OBTAIN MAXIMUM OUTPUT:** 81 Volts; **GAIN AT 1,000 CYCLES:** 96 D.B.; **FREQUENCY CHARACTERISTIC VARIATION** between 50 and 5,000 Cycles: 2.75 D.B.; **POWER CONSUMPTION AT NO LOAD:** 90 Watts; **POWER CONSUMPTION AT FULL LOAD:** 150 Watts; **INPUT:** To 500,000 ohm Potentiometer, connected to the grid of the first 56 Tube; **POWER SUPPLY:** 115 volt 50-60 cycles A.C.; **OUTPUT:** 4,000-4,000 ohm (to plates of both 250 Tubes), 500 ohms, and 15 ohms tapped at 2, 4, and 8 ohms; **DIMENSIONS:** 18 x 9 x 9 in. tall; **WEIGHT:** 42 lbs.

### Exclusive and Valuable Features:

Self-Contained Pre-Amplifier assures enormous amplification of any weak input signal. Component parts, such as Power Transformer, Filter Chokes, Filter Condensers, and Interstage Audio Transformers, are bolted to the metal chassis proper, and four separately removable steel shields cover them. The Power Transformer is air-cooled. A Multiple Choke Bypassing System is employed. HUM-FLICK operation and reproduction assured! A plainly effective Tone Control and a smoothly graduated Universal Volume Control serve a much needed purpose. Terminals are provided for A.C. DYNAMIC, Permanent Magnet Dynamic and Magnetic speakers, Phono-Pickup or Microphone, and for Radio Tuner Input. Three Switches are also provided, one for PHONO-RADIO (or Microphone) selection; one for Power Line and one for the Mercury Tube Rectifiers. **D1986. FULLY ASSEMBLED—But Unwired. Blue Prints, Diagrams, Etc., \$45.00** Included. **D1987. FACTORY WIRED—Ready for Immediate Operation, Less Tubes..... \$69.50** **D1988. Set of 2-56, 2-59, 2-250, 2-82 Matched Tubes..... \$10.25** **D1989. Set of Blue Prints and Diagrams, Separately Available..... \$2.50**

## 2A3 Three Stage Class "A" 20 Watt Dual Push-Pull Public Address Amplifier



For the discriminating music lover, and to answer all the requirements of high quality reproduction, the 2A3 tubes were perfected, offering the extremely valuable feature of rivaling 250 tubes in tonal quality, and in addition thereto actually surpassing the 250 tubes by virtue of its greater undistorted audio output, despite the fact that the 2A3 tubes require considerably less current! There is a marked saving in operating costs for the attainment of 20 watts produced by 250's would consume approximately 275 watts whereas this 2A3 Dual Push-Pull Amplifier consumes less than 145 watts! This system lends itself admirably for installation in sound trucks, wherein it may be operated from 150 watt output motor generators producing 110 volts A.C.

### Can Furnish D.C. Field Current to Dynamic Speaker Fields

The standard model is designed for use with speakers having an independent field excitation source—however, this amplifier can be ordered to furnish field current to from one to eight 1,000 or 2,500 ohm D.C. Dynamic Speakers, at a cost of \$1.50 per each Speaker field excitation provision desired.

### SPECIFICATIONS:

**TUBES EMPLOYED:** 2-56, 2-2A3, 2-82; **NUMBER OF STAGES:** Three; **CIRCUIT:** First 56 is push-pull transformer coupled into the second stage, consisting of two HIGH-GAIN 56 tubes, which in turn are fed through an INTER-STAGE PUSH-PULL TRANSFORMER into 2-2A3 tubes; **RECTIFIER AND BIAS PROVISION:** One of the 82 tubes, in conjunction with a special winding on the power transformer, supplies an absolutely stable "C" bias voltage for the two 2A3 output tubes. The other 82 rectifier supplies all other plate and "C" voltages; **MAXIMUM CONTINUOUS UNDISTORTED OUTPUT:** 20 Watts; **INPUT SIGNAL VOLTAGE TO OBTAIN MAXIMUM OUTPUT:** 83; **GAIN AT 1,000 CYCLES:** 89 D.B.; **FREQUENCY CHARACTERISTIC VARIATION** between 50 and 5,000 cycles: 2.25 D.B.; **INPUT:** To 500,000 ohm Potentiometer, connected to grid of first 56 Tube; **OUTPUT:** 3,000-3,000 ohms (to both plates of the 2-2A3 Tubes), 500 ohms, tapped at 200 ohms, 15, 4, and 2 ohms; **POWER SUPPLY:** 115 volts, 50-60 cycles A.C.; **DIMENSIONS:** 18 x 9 x 9 in. tall; **WEIGHT:** 29 lbs.

For Microphone, Photo Cell and Phono Pickup Amplification Applications, a self-contained PRE-AMPLIFIER STAGE is incorporated, greatly enhancing its value! The weakest of input signals are enormously amplified to any desired intensity. Tone Compensation Control, a Universal Volume Control are included. Connections are provided, from both plates of the 2-2A3 tubes, for external output transformer applications. On the rear panel, facilities are provided for multi-voice coil impedance and line outputs. Two INPUT JACKS are also provided—one for Phono-Pickup or Microphone, and the other for Radio Tuner Input. Three Toggle Switches are also provided: two for the power line and one for Phono-Radio. **D1990. FULLY ASSEMBLED—But Unwired. Including Blue Prints, Diagrams, Etc., But Less Tubes..... \$39.50** **D1991. FACTORY WIRED. Ready for Immediate Operation, Less Tubes..... \$47.50** **D1992. Set of 2-56, 2-2A3, 2-82 Matched Tubes..... \$8.24** **D1993. Set of BLUE PRINTS, DIAGRAMS—Separately Obtainable..... \$2.00**

**BRAND NEW!**

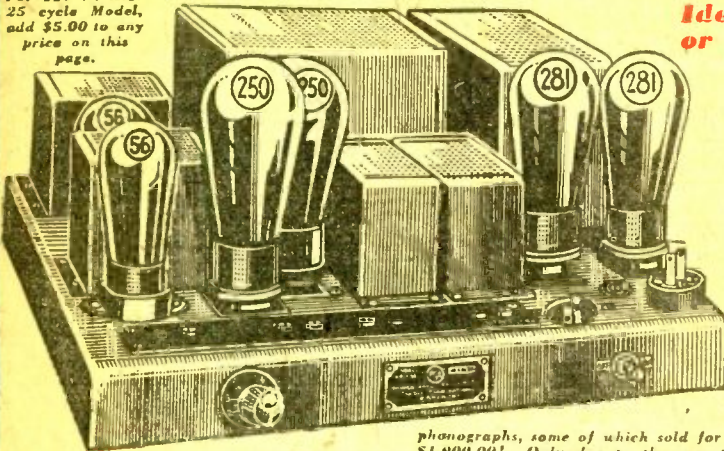
**RADIO CORPORATION - Westinghouse - Victor**



**FULLY GUARANTEED**

**Six Tube High-Gain 13 Watt Output Three Stage 250 Push-Pull Public Address Amplifier**

For 110 V. A.C. 25 cycle Model, add \$5.00 to any price on this page.



**Ideal for Sound Trucks and Small or Large Auditorium Installations!**

**Employs This Powerful Array of R.C.A. Tubes: 2-56, 2-250, 2-281**

**\$19.50**  
LESS TUBES  
CAT. NO. D1665

**COMPLETE WITH 6 GENUINE RCA TUBES \$26.50**  
CAT. NO. D-1665

**SPECIFICATIONS:**

**CIRCUIT THEORY:** 1st Stage is of advanced HIGH GAIN design—it is resistance and capacitively coupled into a 56 "Driver". 2nd Stage, which in turn is transformer coupled into the 3rd Stage, which is a super-powerful PUSH-PULL reservoir employing 2-250's. Two 281 Tubes in a FULL WAVE circuit supply more than ample fully rectified operating current. **MAXIMUM UNDISTORTED OUTPUT:** 13 Watts (Conservative rating). **INPUT:** High Impedance (to potentiometer and grid of 1st 56 tube). Coupling transformer should be used for low impedance phono, pickups or microphones. **INPUT SIGNAL REQUIRED FOR MAXIMUM OUTPUT:** .06 volts. **GAIN:** 90 D.B. at 1,000 cycles. **FREQUENCY CHARACTERISTICS:** 2 D.B. variation between 40 and 15,000 cycles. **HUM LEVEL:** Practically inaudible (3 per cent, or 60 D.B. below maximum undistorted output). **OUTPUT IMPEDANCE:** (Less Output Transformer) 4,000-4,000 ohms; with Output Transformer: 500, 15, 8, 4, and 2 ohms. **FIELD CURRENT SUPPLY:** 110 mills for ONE to FOUR Dynamic Speaker Fields. **SPEAKERS:** Operates up to 25 Dynamic Speakers or 100 Magnetic Speakers. **POWER CONSUMPTION:** 140 Watts. **DIMENSIONS:** 17 1/4" x 12 1/2" x 7 1/2" tall.

**Acknowledged to be the Most Amazing Amplifier Value Ever Offered**

This modern amplifier is a latest development of the RCA Ap-736 model, which was designed for installation in their ELECTROLA series of

phonographs, some of which sold for as high as \$1,000.00! Only due to the recent economic upheaval are we able to offer to the trade this remarkable amplifier system at a net price heretofore only thought of in "day dreams." In its present form, it possesses the exclusive features only found in amplifiers now being offered for many times its cost—in performance, it knows no superior, therefore your purchase of this equipment will always be considered by you AS AN INVESTMENT . . . and not as an expenditure!

**Valuable Advantages Offered by High Gain Circuit, Embodied Within the Self-Contained Pre-Amplifier Stage!**

Any amplifier is only as effective as its GAIN . . . the undistorted output rating is not the main consideration, for any amplifier can only "amplify" whatever signal is impressed upon the grid of its INPUT TUBE. The weakest of such signals generally come from a microphone, followed in sequence of advancing intensity by that of a photo-electric cell, phono, pick-up, and finally by that of a Radio Tuner output. Obviously then, this amplifier is especially desirable for use with microphones and all other low voltage input devices. On phono, pick-ups, the sensitivity of even the poorest pick-ups is enormously improved. The input terminals may be connected to the secondary winding of any input transformer (generally contained in control boards) or to a radio tuner output plate circuit, high impedance phono, pick-up, etc. If you do not possess an input control box, and desire to employ either or both a low impedance phono, pick-up or microphone, include in your order one of the UNIVERSAL COMBINATION INPUT TRANSFORMERS below listed.

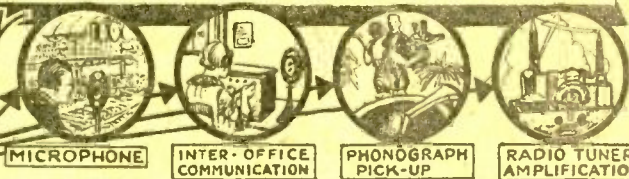
**Furnishes D.C. Field Current to From One to Four 2,500 Ohm Dynamic Speakers**

Furnishes D.C. Field Current Excitation to from One to Four Dynamic Speakers. Connection diagrams are furnished showing how to connect the field coils of 1-2500 ohm, 1 or 2-1000 ohm, or 4-2500 ohm (110 Volt D.C. Type) Dynamic Speakers. (If you desire to employ speakers which are provided with their own excitation provision, it will be necessary for us to "bypass" the field circuit, by installing a special shunt at an additional cost of \$3.00. Naturally, this is not necessary if you purchase the D.C. Dynamic Speakers herewith listed.) Note that if only one Speaker will be used, then no output transformer is required, as our Speakers are equipped with a suitable matching transformer. (The Speakers we furnish are 11 in. diameter.)

**Built to Last a Lifetime!**

Constructed upon an iron chassis of great strength, handsomely duced sprayed. The power transformer is of heavy-duty design, and will function practically indefinitely, even over continuous operating periods. The filter condenser system is also practically foolproof, due to some of its units being rated as high as 1,500 volts! Its A.F. Audio system is indeed unique in its design, embracing universal utility of application, permitting the use of a high impedance phono, pick-up or coupling to any Radio Tuner. Perfect impregnation of vital components makes same impervious to the ravages of both extremes of climatic changes . . . even ideal for use in the tropics! A switch permits selection of 90 to 105 Volt or, 105 to 120 Volt A.C. operation. Receptacles are provided for an A.C. Line Cord Male Plug and for a convenient speaker field current outlet.

*Excellent adapted for*



MICROPHONE

INTER-OFFICE COMMUNICATION

PHONOGRAPH PICK-UP

RADIO TUNER AMPLIFICATION

**For Sound Truck Use**

This amplifier system may be completely operated in any automobile, boat, etc., by obtaining its required 110 Volt A.C. from a specially designed 12 Volt D.C. Input GENERATOR, available for only \$29.50.

D1667. AMPLIFIER, less tubes, but including your choice of one Wright De Coster or Jensen Dynamic Speaker. . . . . **\$26.50**

D1668. AMPLIFIER, less tubes, but including your choice of TWO Wright De Coster or Jensen Dynamic Speakers. . . . . **\$31.50**

D1669. AMPLIFIER, with six Genuine RCA tubes, and including your choice of one Wright De Coster or Jensen Dynamic Speaker **\$33.50**

D1670. AMPLIFIER, with six Genuine RCA tubes, and including your choice of TWO Wright De Coster or Jensen Dynamic Sp'k'rs. **\$38.50**

D1671. SPECIAL OUTPUT TRANSFORMER. (Required if more than one Speaker is used.) Matches voice coils of from 2 to 16 Dynamic Speakers. Rating: 500 ohms, 15 ohms, tapped at 8, 4, and 2 ohms **\$3.95**

D1327. UNIVERSAL COMBINATION INPUT TRANSFORMER. For 200, 500 or 3,000 ohm Phono, Pick-Ups, and 200 ohm Single or Double Button Microphone **\$1.50**



**BRAND NEW!**

**RADIO CORPORATION OF AMERICA - Westinghouse - Victor**



**FULLY GUARANTEED**

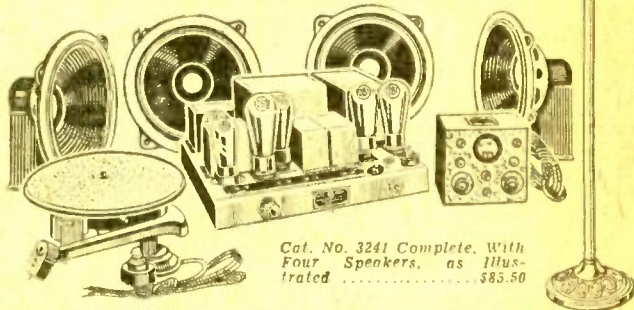
**Six-Tube High-Gain 13-Watt Output 3-Stage 250 Push-Pull Complete Public Address Systems**

**Ideal for Large or Small Auditorium, Sound-Truck or Inter-Office Communication Call Installations**

*Considered the Greatest Amplifier Value Ever Offered!*

At the price quoted of \$69.50, two dynamic speakers are included, field coil current for which is provided by this amplifier. If more than two Speakers are required, they are available for \$6.00 each. The Field Coils in such additional dynamic speakers can also be energized by this amplifier, at an additional charge of \$2.00 for each speaker field provision desired. For instance, if you desire TWO additional Speakers (four in all, as illustrated) include in your remittance the additional sums of \$12.00 plus \$4.00.

**SUPER VALUE**  
\$ **69**.50  
**WITH TWO SPEAKERS**



Cat. No. 3241 Complete, With Four Speakers, as Illustrated ..... \$83.50

**The Amplifier Furnished in This System Described in Detail on the Opposite Page**

Careful selection of accessory equipment to comprise a perfectly matched P. A. System was the dominant thought of our P. A. Engineering Dept. You may purchase this complete system with every assurance of obtaining maximum sound coverage and perfection of reproduction. Each speaker field is energized from the amplifier and a Suitable Output Voice Coil Matching Transformer is furnished as well—see description of

D-1671 at the bottom of opposite page—Note that the "All Purpose Phono-Mike-Radio" Input "Mixer" Control Box (D3035, described elsewhere in this catalog) permits perfect blending, fading, and superimposition of voice across a phonograph record, etc., etc. It also permits the separate placement of the amplifier proper from this very efficient input control box. If only one Dynamic Speaker is desired, deduct \$6.00 from the cost price shown herewith.

**Complete Installation Consists of:**

- 1 Three-Stage RCA Amplifier { Described on opposite page ..... \$26.50
- 1 Set of Six Genuine RCA Tubes
- 1 2500 ohm D.C. Jensen or Wright de Coster Dynamic Speakers, at \$7.35 ..... 14.70
- 1 SPECIAL OUTPUT TRANSFORMER (D1671) ..... 3.95
- 1 Heavy Duty P.A. Double Button Microphone (D3127) ..... 9.75
- 1 15 to 72-in. Adjustable "Mike" Stand and Ring ..... 7.95
- 1 "All Purpose Input 'Mixer' Control Box" (D3035) ..... 16.50
- 1 110-Volt A.C. Phono. Motor ..... 5.00
- 1 UPCO Highly Sensitive P.A. Phono. Pick-up ..... 6.75

Cat. No. D3142, Total ..... \$91.10

**Special Inducement \$69.50**



**RCA**

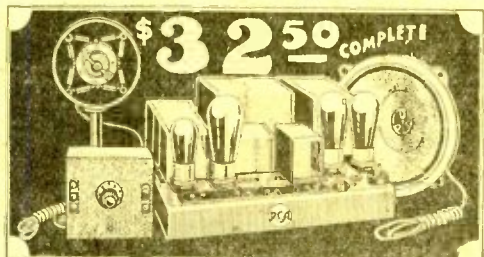


**Westinghouse**



**VICTOR**

**Instantaneous Service Two-Stage 250 Inter-Office Complete Call System and All-Purpose P. A. Amplifier**



Employment of "Instantaneous Heater" Tubes (1-226, 1-250, 2-281) Permits Operation the Very Instant the Switch is Turned On—No Time Lag Experienced Waiting for Tubes to Heat Up. Due to the "quick heater" action of all its tubes, this amplifier is especially valuable for use in INTER-OFFICE COMMUNICATION SYSTEMS, or wherever it is necessary to operate an amplifier "the moment" it is turned on! This system is also very ideal for use in multi-channel installations, as each such amplifier is entirely self A. C. operated.

Furnishes D. C. Field Current Excitation to the Dynamic Speaker included. This same amplifier can furnish D.C. Field Current to three additional similar Dynamic Speakers. These additional Speakers may be placed at strategic positions for diversified sound distribution. Also Excellent for Microphone, Phono, Pick-up, and Radio Tuner Amplification! You will be immensely thrilled by the almost uncanny reproducing qualities of this amazingly powerful amplifier—either using it as a microphone, phonograph or Radio Tuner amplifier! Its A.F. Audio system embraces universal utility of application, permitting the use of a high impedance phone, pick-up or coupling to any Radio Tuner.

**Complete Installation Consists of:**

- 1 TWO-STAGE RCA AMPLIFIER (D1700) ..... \$12.75
- 1 Set of 4 Genuine RCA Tubes
- 1 Jensen or Wright de Coster 2500 ohm 11-in. DYNAMIC SPEAKER ..... 7.35
- 1 Super-Sensitive Double Button Microphone (D3127) ..... 9.75
- 1 Desk Stand and Ring ..... 3.75
- 1 Microphone Input Control Box (D1457) ..... 4.95
- 1 25-ft. Roll, 3-Wire Shielded Mike Cable ..... .81
- 1 25-ft. Roll 5-Wire Speaker Cable ..... 1.50

Total ..... \$40.92

Cat. No. **Extra Special Inducement \$32.50**  
D3148

**Radio Dealers and Servicemen:**

Here is the ideal, low priced complete amplifier system that will appeal to every merchant in your vicinity—there are many ways in which these systems can be adapted as Inter-office Call Systems, in any mercantile establishment, restaurant, factories, schools, beer-gardens, etc., etc. This system also lends itself admirably

for "paging" purposes in Hotels, and for telephone switchboard operators' use calling to the phone, any individuals who might not be at their desks, but located somewhere in the premises. (Organizations occupying more than one floor in a building will require at least one additional speaker for each additional floor.



# THE SOUND TRUCK AUDITORIUM UNIVERSALLY POWERED P.A. AMPLIFIERS

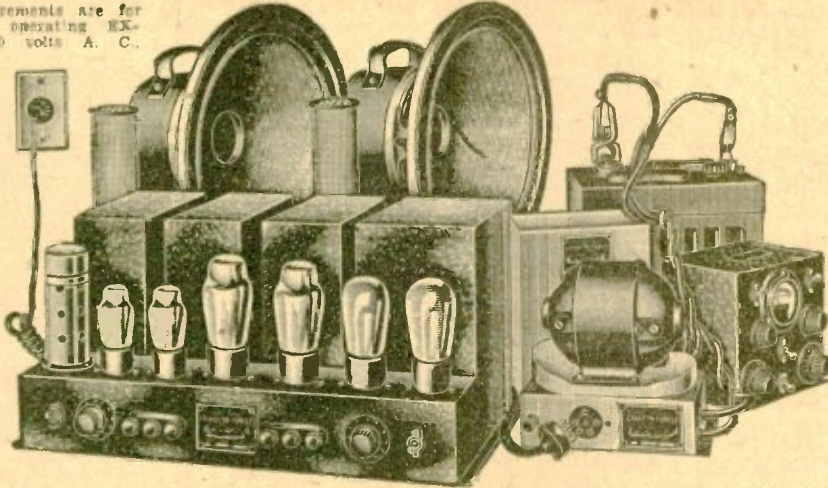
CAN BE OPERATED FROM a 6 or 12 VOLT STORAGE BATTERY and 110 VOLT A.C.

Combination 6 Volt Storage Battery and 110 Volt A.C. Operated

## 2A3 20 WATT CLASS "A PRIME" 3 STAGE DUAL PUSH-PULL AMPLIFIER

Same Amplifier May Be Operated From Your Choice of 6 Volt Storage Battery Operated Motor Generator, 110 Volt A. C. Power Pack, or Entirely From Batteries.

If your present requirements are for an amplifier system operating EXCLUSIVELY from 110 volts A. C. you should purchase this model for it not only serves as efficiently as an amplifier heretofore solely designed for 110 volt A.C. only, but it actually COSTS YOU NO MORE to utilize THIS SELF-SAME AMPLIFIER (without making any changes whatsoever) for operation from a six volt storage battery, should such occasion ever arise. On the other hand, should your present requirements call for exclusive use with a six volt storage battery you should logically buy this amplifier as you PAY NO MORE for this system which also permits optional operation from 110 volt A.C. POWER LINES:



The Jensen 1933 Auditorium Dynamic Speakers illustrated above are listed elsewhere in this catalog.

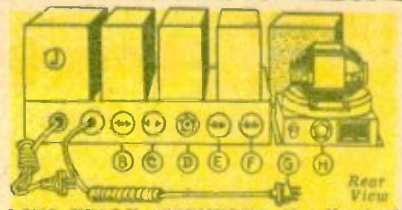
In the amplifier illustrated to the left, the 110 Volt A. C. POWER SUPPLY (J) is self-contained on the amplifier chassis—within the extreme right hand case (its two 82 Rectifiers are directly in front of it). The output of this POWER SUPPLY is fed to the amplifier proper through socket (D) by means of a cable and plug (G) arrangement. In the event you wish to purchase this amplifier for six volt operation only, the motor generator will be mounted directly on the amplifier chassis in place of the A. C. Power Pack, within the steel case labeled (I). Later on, should you desire to employ this amplifier from 110 volt A. C. Power Lines, you can purchase the A. C. POWER PACK separately.

**FEATURED**  
ON PAGES  
**88-89-115** of  
**Radio Craft**  
AUGUST 1933 ISSUE

**SPECIFICATIONS**  
TUBES EMPLOYED: 5-37, 2-2A3. NUMBER OF STAGES: Three; CIRCUIT: First 37 is transformer coupled into the second stage, consisting of two PUSH-PULL HIGH-GAIN 37 tubes, which in turn are fed through an INTERSTAGE PUSH-PULL TRANSFORMER into 2-2A3 tubes. MAXIMUM CONTINUOUS UNDISTORTED OUTPUT: 20 WATTS; INPUT SIGNAL VOLTAGE TO OBTAIN MAXIMUM OUTPUT: 40; GAINS AT 1000 CYCLES: 54 D. B.; FREQUENCY CHARACTERISTIC VARIATION between 50 and 5,000 cycles: 2.25 D.B.; INPUT: To 500,000 ohm Potentiometer, connected to grid of first 37 Tube; OUTPUT: 2,000, 10, 5, 4, and 2 ohms; POWER SUPPLY REQUIREMENTS: 250 Volts, D.C. 100 milli and 6.3 volts (A.C. or D.C.) at 1.0 amp.; DIMENSIONS: 15x12x10 in. tall; WEIGHT: 39 lbs.; A.C. POWER PACK: Requires 2-82 Tubes. Operates from 110 Volts A. C. Provides RECTIFIER and BIAS PROVISION: One of the 82 tubes, in conjunction with a special winding on the power transformer, supplies an absolutely stable "C"-bias voltage for the two 2A3 output tubes. The other 82 rectifier supplies all other plate and "G" voltages. Also furnishes 6.5 Volts A. C. at 5.0 Amps, and 220 Volt D. C. at 100 milli.

**CLASS "A"**  
**3 AMPLIFICATION STAGES**  
**RIVALS 250 TUBES IN HIGHEST QUALITY TONAL REPRODUCTION**

For rental purposes, this superb Amplifier is exceptionally ideal for use in any location, where 110 Volt A.C. is available. OR IS NOT available, such as in Autos, Sound Trucks, Boats, Horse-drawn Vehicles, Trains, Outlying Rural Districts, outdoor street Sales and Demonstrations, Etc., Etc. Under such operating conditions, all you require is a conventional six volt storage battery and the SPECIAL MOTOR GENERATOR listed below. Assuming that you have purchased this amplifier WITH a 110 Volt A.C. POWER PACK, you merely remove the plug "G" from socket "D" (into which it is normally inserted for 110 Volt A.C. operation) and merely insert this plug into the socket "H" contained on the MOTOR GENERATOR UNIT. NO TUBES TO CHANGE. NO ADJUSTMENTS OF ANY KIND ARE MADE TO THE AMPLIFIER! NO TOOLS OF ANY KIND OR KNOWLEDGE REQUIRED.



For the discriminating music lover, and to answer all the requirements for highest quality reproduction, the 2A3 tubes were perfected, affording the extremely valuable feature of rivaling 250 tubes in tonal quality, and in addition thereto, actually surpassing the 250 tubes by virtue of its greater undistorted audio output, despite the fact that the 2A3 tubes require considerably less current! There is a marked saving in operating costs, for the attainment of 20 watts output by the 2A3's would consume approximately 275 watts, whereas this 2A3 Dual Push-Pull Amplifier consumes less than 95 watts from 110 Volts A.C.!

**Dual Field Speakers**  
Dynamic Speakers, as listed herewith, are obtainable with your choice of field coils, designed for either exclusive 6 volt D.C. use, or equipped with DUAL FIELD COILS, the additional field making possible operation of the same speakers from 110 Volt A.C. as well, such additional field being energized by an appropriate 110 Volt A.C. EXCITER. If only 110 Volt A.C. operation is contemplated, variable 110 volt A.C. Speakers, as listed elsewhere in this catalog, are obtainable at a lower cost.

**6 Volt D. C. and 110 Volt A. C. Phono Motor Available**  
To meet universal 6 volt D.C. and 110 Volt A.C. PHONO-MOTOR operation, we have developed and perfected a superior design two-speed (13.5 and 78 R.P.M.) phono-motor and turn-table, requiring only 2.5 amperes from a 6 volt storage battery! This identical motor can also be operated from 110 volt A.C. by the aid of an accompanying POWER SUPPLY UNIT. It can, therefore, be clearly seen that this entire P. A. System (amplifier, speakers, phono-motor, etc.) may be operated from both a 6 volt storage battery or from 110 Volt A.C. OR FROM BOTH CURRENT SOURCES! Regardless of the power source employed, the results obtained are identically alike!

- REAR VIEW**
- D316. FULLY ASSEMBLED, But Unwired, Blue Prints and Diagrams Included. Less 110 Volt A. C. Power Pack, Speakers, 6 Volt MOTOR GENERATOR, \$34.50
  - Tubes and Control Box..... \$44.50
  - D317. Same as above, but FACTORY WIRED—Ready for immediate Operation..... \$44.50
  - D3172. 6 Volt Storage Battery Operated MOTOR GENERATOR..... \$20.50
  - D3173. Set of MATCHED TUBES: 3-37, 2-2A3..... \$7.15
  - D3161. 6 Volt 12 In. P. A. WRIGHT DE COSTER AUDITORIUM DYNAMIC SPEAKER..... \$14.75
  - D3161. Same as above, D3161, but Equipped with DUAL FIELDS, and including a 110 Volt A. C. Exciter (and 82 Rectifier furnished)..... \$24.75
  - D3245. 110 VOLT A.C. PACK FOR OPERATING POWER AMPLIFIER FROM A.C. SOCKETS. FACTORY WIRED. INCLUDING 2-82 RECTIFIERS..... \$19.75
  - D3635. "MIKE-PHONO-RADIO" ALL PURPOSE INPUT "MIXER" CONTROL BOX..... \$16.50

**Outstanding Valuable Features**  
For Microphone, Photo Cell and Phono Pickup Amplification Applications, a self-contained PRE-AMPLIFIER STAGE (the first 37 tube), is incorporated, greatly enhancing its value! The weakest of input signals are automatically amplified to any desired intensity. A Tone Compensation Control, and a Universal Volume Control are included. Connections are provided on the front panel from both plates of the 2-2A3 tubes for external output transformer applications. On the rear panel, female receptacles (B, C, E, F) are provided, for multi-tube coil impedances, 15, 8, 4 and 2 ohms or line outputs. Three INPUT Posts are also provided—Two for Phono-Pickup or Microphone, and the other for Radio Tuner Input. Two Toggle Switches are also provided; one for "ON-OFF" duty, and one for Phono or Microphone Radio Selection. It is highly recommended that individual EXTERNAL PHONO—"MIKE" and RADIO TUNER INPUT MATCHING TRANSFORMERS or an INPUT "MIXER" CONTROL BOX be employed for highest efficiency. However, suitable transformers may also be mounted within the amplifier proper, provided due care is taken in their placement. The use of an Input "Mixer" Control Box (illustrated at the extreme right and described in detail under Cat. No. D 3025 elsewhere in this catalog) permits individual volume and tonal modulation control of phono, "mike" or radio tuner inputs, and, at the same time, enables the super-imposition of any one input upon and across the other! With this device you can also remotely place the amplifier at any distance from this box—in fact, even out of sight—often times a necessary method of installation!

Combination 6 Volt Storage Battery and 110 Volt A.C. Operated

# DUAL OUTPUT . . . . . DUAL CHANNEL P. A. AMPLIFIERS

Two Models

16 and 32 Watt Output 79 Class "B" Amplifier  
26 and 52 Watt Output 53 Class "B" Amplifier

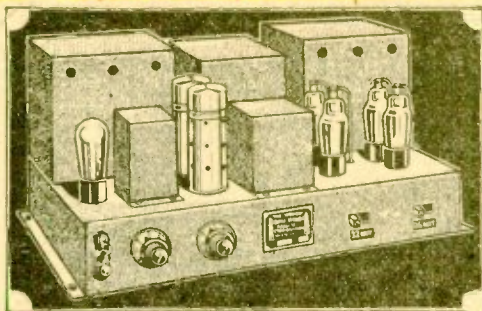
### Unique Dual Switch Arrangement Provides Dual Power Outputs

Under certain operating conditions the sound coverage requirements may only necessitate a medium audio power output. Heretofore, if only 8 to 10 watts were required, and an amplifier producing from 20 to 25 watts was employed, it obviously followed that considerable power and tube consumption were wasted. In these models, you can affect great savings by merely throwing a switch, which cuts out ONE-HALF of the AUDIO POWER OUTPUT, and at the same time, REDUCES THE POWER CONSUMPTION BY ONE-HALF, besides lengthening the life of the tubes.

### Choice of One or Two Audio Output Channels

The same switches also provide for optional selection of either one of the two

channels, or BOTH OF THEM AT THE SAME TIME! Each of these separate channels are ordinarily connected to an individual speaker (or to several of them)—on the other hand, both channels may also be coupled into one special output transformer, connected to the eight plates of the four output tubes—the transformer is available for \$7.95, additional, with secondaries tapped at 500, 200, 15, 8, 4 and 2 ohms, permitting the use of ONE CHANNEL through which the entire audio output flows, and enabling the use then of either ONE SPEAKER, or up to 52 of them, by virtue of the tapped output transformer. Two audio output channels offer the valuable advantage of simple sound distribution through multi-speakers, and one complete channel (of the two) may be disconnected without having to change the output impedance of the channel left in operation.



### Embody Every Modern Vital Electrical-Mechanical Improvement

Mounted upon a sturdy, cadmium plated chassis, wherein all components are rigidly bolted to withstand unusual rough handling encountered in Sound Truck and Automobile Use. Equipped with a Volume Control, Tone Control, Dual Output-Dual Channel Selector Switches, Choice

of SELF-CONTAINED Motor Generator System or 110 Volt A.C. Power Pack, Convenient Output Impedance Posts for Both Channels, Individual Channel "A-B" Power Input Sockets, Universal Input Terminals, Heavily Shielded and By Passed, Etc., Etc.

## SPECIFICATIONS

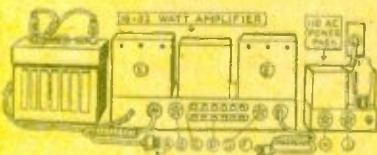
### 16 and 32 WATT MODEL

**TUBES EMPLOYED:** 1-37, 2-89, 4-79; **STAGES:** Three; **INPUT:** To 500,000 Ohm Volume Control Potentiometer, connected to Grid of the first 37 tube; **CIRCUIT:** 1st tube, a 37, is push-pull transformer coupled into 2-89 HIGH GAIN PENTODE Class "A" DRIVER TUBES, and the output of each of these 89 driver tubes is fed through an individual Class "B" INPUT push-push Transformer into 2-79 Tubes arranged in PARALLEL PUSH-PUSH (2-89's feeding into 4-79's); **OUTPUT:** Two separate channels of 300, 200, 15, 8, 4 and 2 ohms; **GAIN:** 90 D. B.; **AVERAGE MOTOR GENERATOR POWER CONSUMPTION:** As 16 Watt Amplifier, 6.2 amperes; as 32 Watt Amplifier, 12 amperes; **Average Power Consumption With 110 Volt A.C. Power Unit (listed below):** As a 16 Watt Amplifier, 55 watts—as a 32 Watt Amplifier, 95 watts; **DIMENSIONS:** 18x10x9 1/2 in. tall; **WEIGHT:** 55 lbs.

### 26 and 52 WATT MODEL

**TUBES EMPLOYED:** 1-37, 2-89, 4-53; **STAGES:** Three; **INPUT:** To 500,000 Ohm Volume Control Potentiometer, connected to Grid of the first 37 tube; **CIRCUIT:** 1st tube, a 37, is push-pull transformer coupled into 2-89 HIGH GAIN PENTODE Class "A" DRIVER TUBES, and the output of EACH of these 89 driver tubes is fed through an individual Class "B" INPUT push-push Transformer into 2-53 Push-Push Tubes arranged in the PARALLEL PUSH-PUSH (The 2-89's feed into 4-53's); **OUTPUT:** Two separate channels of 500, 200, 15, 8, 4 and 2 ohms; **GAIN:** 94 D. B.; **AVERAGE MOTOR GENERATOR POWER CONSUMPTION:** As 26 Watt Amplifier, 9.75 amperes; as 52 Watt Amplifier, 18 Amperes; **AVERAGE POWER CONSUMPTION WITH 110-VOLT A.C. POWER UNIT (listed across):** As a 26 Watt Amplifier, 95 Watts—as a 52 Watt Amplifier, 175 Watts; **DIMENSIONS:** 18x10x9 1/2 in. tall; **WEIGHT:** 50 lbs.

### Simple Plug and Cable 6 Volt D. C. —110 Volt A. C. Changeover System!



In the rear view of the 16-32 Watt Amplifier (illustrated above (identical with the 26 and 52 Watt Model) the motor generator system is mounted directly upon the chassis within the steel containers labeled "E". The high voltage D.C. output of this Generator System is connected to the amplifier proper through sockets "B" and "G" and plugs "A" and "F". (The sockets are separately connected to the output of the motor generator system while the plugs "A" and "F" are separately connected to the filament and plate leads of the two amplifier channels). For normal six volt operation plug "A" is inserted into socket "B" while plug "F" is placed into socket "G". Should you desire to operate the same amplifier from 110 volt A. C. also, then a special 110 volt A.C. Power Pack, listed herewith, is required. In the event you wish to purchase this amplifier for 110 volt A.C. operation only, the power pack will be mounted directly upon the chassis, in place of the Motor Generator System. The filament and plate voltages produced by this A. C. Power Pack, are connected to sockets "H" and "P" on the A.C. Pack, into which plugs "A" and "F" are inserted. If only one channel is to operate (for 16 Watt output) then only one plug "A" is inserted into one socket "B". No other changes are necessary! Just 30 seconds' time involved! NO TUBES TO CHANGE! Two rows of binding post terminals "C" and "D" connect to the various secondaries of EACH output transformer, to provide versatile application of the two-channel output system.

### 16 and 32 WATT MODELS

- D3179. FULLY ASSEMBLED, But Unwired, Blue Prints and Diagrams Included, Less 110 Volt A. C. Power Pack, Speakers, 6 Volt MOTOR-GENERATOR SYSTEM, Tubes and Control **\$29.50**
- D3180. Same as D3179 but FACTORY WIRED—Ready for Immediate Operation . . . . . \$39.50
- D3181. 6 Volt Storage Battery Operated MOTOR-GENERATOR SYSTEM . . . \$34.50
- D3182. Set of MATCHED TUBES: 1-37, 2-89, 4-79 . . . . . \$8.94
- D3183. 110 Volt A. C. POWER PACK, FACTORY ASSEMBLED AND WIRED, Including 1-83 Tube . . . . . \$24.50

### 26 and 52 WATT MODELS

- D3184. FULLY ASSEMBLED But Unwired, Blue Prints and Diagrams Included, Less 110 Volt A. C. Power Pack, Speakers, 6 Volt MOTOR GENERATOR SYSTEM, Tubes and Control **\$39.50**
- D3185. Same as D3184 but FACTORY WIRED—Ready for Immediate Operation . . . . . \$49.50
- D3186. 6 Volt Storage Battery Operated MOTOR-GENERATOR SYSTEM . . . \$39.75
- D3187. Set of MATCHED TUBES: 1-37, 2-89, 4-53 . . . . . \$7.96
- D3188. 110 Volt A. C. POWER PACK, FACTORY ASSEMBLED AND WIRED, Including 1-83 Tube . . . . . \$29.50

### Additional Equipment for Both Models

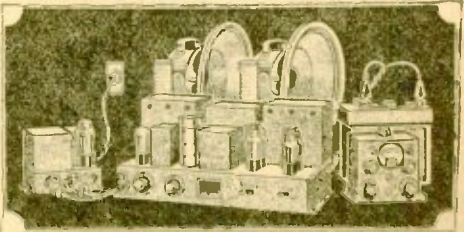
- D3161. 6 Volt 12 In. P. A. WRIGHT DE COSTER Auditorium Dynamic Speaker . . . . . \$14.75
  - D3164. Same as above, D3161, but equipped with DEAL FIELDS, and including a 110 Volt A. C. Exciter (an 82 Rectifier furnished) . . . . . \$28.75
- NOTE: It is suggested that at least ONE of either of the above two listed speakers be employed in each channel of the 16-32 watt amplifier, and at least two in each channel of the 26-52 watt model.*
- D3166. SIX VOLT TWO SPEED PHONO, MOTOR AND TURNABLE . . . . . \$15.50
  - D3167. 110 Volt A. C. POWER UNIT, for use with the above PHONO, MOTOR \$10.00
  - D3165. "MIKE-PHONO-RADIO" ALL-PURPOSE INPUT "MIXER" CONTROL BOX . . . . . \$16.50

The Jensen 1933 Auditorium Dynamic speakers illustrated are listed elsewhere in this catalog.

### This Entire P. A. System Is Completely Universally-Powered!

If your present intention is to use this equipment solely from either a 6 volt storage battery, or from a 110 Volt A.C. Power-Line Socket, this Sound System represents the finest amplifier that is available. You actually PAY-NO-MORE for the really valuable feature of being able to operate this amplifier from either, OR, BOTH input power sources, WITH EXACTLY IDENTICAL RESULTS! Not only is the amplifier designed for 6 volt D.C. and 110 Volt A.C. operation, but in addition thereto, the

8 volt phono-motor may also be operated from 110 Volt A.C. by virtue of a special A.C. POWER RECTIFIER. In like manner, DUAL-FIELD Dynamic Speakers are available to operate from both 6 Volt D.C. and from 110 Volt A.C. Lines, by means of a specially designed A.C. Exciter. Obviously, for 6 volt use only, you should purchase the 6 volt Speakers listed—and for 110 Volt A.C. operation, only, you should purchase suitable 110 Volt A.C. Speakers, listed elsewhere in this catalog.

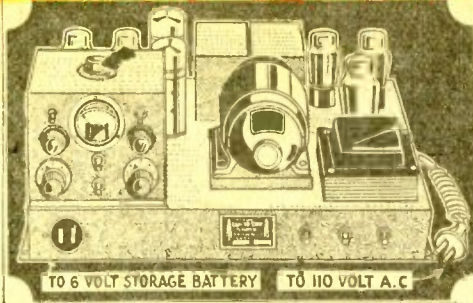


**UNIVERSALLY POWERED SOUND TRUCK or AUDITORIUM MODEL—Operates From SELF-CONTAINED 6 Volt Storage Battery Operated MOTOF. GENERATOR, or 110 Volt A. C. POWER PLANT . . . . OR FROM BOTH!**

**Portable INTERLOCKING 4 Stage 13-26 Watt P.A. System**

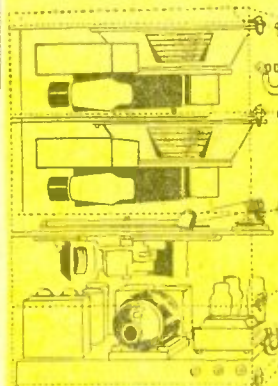
**SPECIFICATIONS:**

Tubes Employed: 2-37, 2-89, 2-53; Number of Stages: Four. Circuit: Output of INPUT CONTROL Box is connected direct to the grid of the first 37 (Pre-Amplifier) Tube which is resistance coupled into the second 37 audio tube, the output of which is in turn resistance coupled into 2-89 Driver Tubes, each one of which is PUSH-PUSH TRANSFORMER Coupled into their respective 53 Twin Class "B" Output Tubes, providing thereby TWO independent OUTPUT CHANNELS: Gain at 1,000 Cycles: 96 D. B.; Maximum Undistorted Output: 26 Watts; Frequency Characteristic Variation between 50 and 5,000 cycles: 2 D.B.; Power Supply Requirements: Filament 6 to 6.3 Volts A.C. or D.C. at 2.4 amp; PLATE 320 Volts, 125 mA; Output: Two Channels feeding into two individual OUTPUT TRANSFORMERS, each one of which is equipped with multiple tapped secondaries of 500, 200, 15, 8, 4, and 2 ohms. Dimensions: 18.5x8.5x10.5 tall; Weight: 44 lbs. (as illustrated); 6 Volt Generator: AVERAGE POWER CONSUMPTION, 9 amp. at 6 volts. Produce 220 volts at 125 mA.; 110 Volt 60 Cycle A.C. Power Plant: Requires 1-83 Rectifier Tube. AVERAGE POWER CONSUMPTION, 95 Watts. Furnishes 6.3 Volts A.C., 4.0 amp., and 320 volts D.C. at 125 mA. INPUT "MIXER" CONTROL BOX: Primary for Microphone, 200, 200 (for 100-100, Ohm) for Phone, Pick-up, 200, 200 ohms—Also For Coupling to Radio Tuner or external pre-amplifiers.



Above illustration Shows Cases Removed from Both The 6 Volt Storage Battery Operated Motor Generator, and the 110 Volt AC Power Pack.

**Portable Inter-Locking Carrying Case Features**



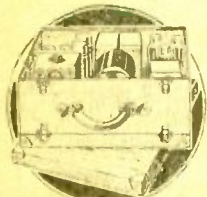
This unique method of housing individual units that comprise a complete P. A. System has met with instantaneous approval by all professional P. A. Engineers. Inasmuch as each portable case and associated covers are EXACTLY IDENTICAL in size and as the snap-on draw bolts and catches are all fastened to each case in IDENTICAL POSITIONS it is possible to "nest" or "inter-lock" any one, two, three, etc., cases TOGETHER, thereby simplifying the carrying of complete systems. Obviously, two men are required to conveniently carry three, or more, amplifier units. Separately removable handles are another feature. The phantom illustration herewith clearly shows how a complete amplifier system, composed of the following universally powered units (as listed on this page): Amplifier, Phono Turn Table, and Two Speakers, are inter-locked into one unified, easily transported compact unit. If necessary, you can begin with one or two portable cases and add to this number from time to time, merely interlocking one into another. The covers themselves retain this valuable interlocking feature and may, in themselves, be employed in pairs, forming a versatile purpose carrying case, the inside dimensions of which measure 19 1/2 in. long, 14 1/2 in. wide, 3 in. tall!

**Employs a "Dual-Channel Dual-Output" Class "B" Amplifier**

By unifying onto ONE CHASSIS the amplifier proper the Input "Mixer" Control Box (Removable), the 6 volt Motor Generator and the 110 Volt A.C. Power Plant, we now offer an ultra compact COMPLETELY SELF-CONTAINED UNIVERSALLY POWERED AMPLIFIER which lends itself admirably as a truly PORTABLE PUBLIC ADDRESS AMPLIFIER that can be operated as a permanent installation illustrated to the left.

Should it be desired to house this completely self-contained chassis within the PORTABLE CARRYING CASES illustrated below, this does not add to the cost of, or involve any changes to, the amplifier itself! The INPUT "MIXER" CONTROL BOX (including a Tone Control—see description elsewhere of D3035) can be operated when fastened to the amplifier, as illustrated, or removed therefrom in a moment enabling the remote placement and complete control of the amplifier! Four stages of amplification plus a HIGH PRE-AMPLIFIER stage assure MAXIMUM AMPLIFICATION of even the weakest input signals. Two output channels provide for the use of two separate banks of speakers independent of each other; however, if desired, both channels can be combined into one, for operation of only ONE SPEAKER or several in ONE channel, such as the Jensen 1933 30 Watt Peak Auditorium Series. By throwing a switch, one of the output channels is disconnected thereby enabling the use of this amplifier for economical medium power sound coverage (15 watts). To change from 6 volt D.C. operation to 110 volt A.C. operation, (or vice-versa) it is only necessary to remove a plug from one socket and insert it into another, both conveniently located. NO TUBES TO CHANGE . . . TAKES BUT A MOMENT!

**Portable Carrying Cases**



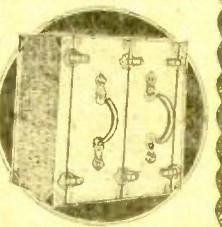
Although expressly designed for the above described 26 watt amplifier, it may be used to house ANY amplifier listed in this catalog. THE INSIDE DIMENSIONS of the frame (with covers) are 19 1/2 in. long, 14 1/2 in. wide, 7 1/2 in. high. The both covers are removable and add an additional 1 1/2 inches each to the height, that is, 3 in. for the front cover. This case is completely sturdy built, and will stand rough usage. A long wearing grained black Fabricoid leather makes these cases very attractive. Protective metal corners are provided as well as eight snap-on draw bolts and catches. In operation, the frame may be removed, if desired. The amplifier is bolted to the bottom cover. Removable, comfortable, soap-on handles are included.

D3220. Portable Carrying Case Only . . . . . **\$6.75**

**6-7 Tube 'Super-Het' Tuner**

Models Available For 6 Volts D.C. or 110 Volt A.C. or From BOTH Current Sources!

Housed within portable Case D3220. Tubes employed 4: 2-37, 2-89, 2-53 (If 110 Volt A.C. operation is required, a 2-50 is employed in the self-contained Power Plant). For 6 volt D.C. operation, a self-contained MOTOF. GENERATOR and accompanying FILTER SYSTEM provides 250 volts at 40 mA for the necessary plate current. Four gang condensers employed. Ranges 200 to 500 meters. 10 Kilocycle selectivity absolutely assured. Amazingly sensitive—6 foot wire provides adequate antenna system, with which 1500-2000 mile reception is not unusual! Offers Band Pass Pre-Selection, Automatic Volume Control, Instantaneous Noise Suppression, Manual Volume and Sensitivity Control.

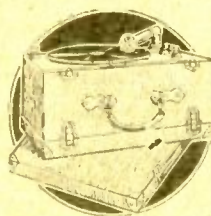


Factory Wired Laboratory Tested  
D3227. For 6 Volt Operation only, with Self-Contained Motor Generator. **\$48.75**  
D3228. For 110 Volt A.C. Operation only, including a 280 Rectifier Tube. \$44.25  
D3229. For COMBINATION 6 volt D.C. and 110 Volt A.C. operation, including a 280 Rectifier Tube and Self-Contained A.C. Power Plant and Motor Generator. \$46.75

- D3215. ASSEMBLED KIT, Ready For Wiring, Less AC Pack, Generator, Control Box, and Tubes. **\$32.50**
- D3216. Same as D3215, BUT FACTORY WIRED and LABORATORY TESTED, Ready For Immediate Use. \$39.50
- D3217. MATCHED TUBES: 2-37, 2-89, 2-53 . . . . . \$5.64
- D3218. 6 Volt DC MOTOR GENERATOR (\$3.00 Additional, With SELF-CONTAINED FILTER) . . . . . \$10.50
- D3219. 110 Volt AC POWER PACK, FACTORY WIRED, Ready For Immediate Use, including an 83 Rectifier. \$22.50
- D3035. INPUT "MIXER" CONTROL BOX (Late "Mike" and "Phono" Impedances). Ready For Immediate Use. \$16.50

**Portable Two-Speed Electric Phono. Motor and Pick-Up**

Operates From Choice of 6 Volts DC or 110 Volts AC or BOTH!



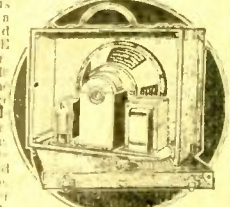
Housed within portable case D3221. Furnished with 8 M.M. motor and dual speed pick-up of extreme sensitivity. A 12 in. velveteen covered turntable is also furnished as well as an automatic governing control dual speed selection switch. Self-contained roll-up control on/off switch, standard male plug for hand current connection, output posts and a powerful gripping lamp, for holding the pick-up arm while this device is being transported.

D3221. For 6 Volt STORAGE BATTERY ONLY. Consumes 2.8 amperes. Complete with Motor, Turntable, Pick-Up **\$39.50**  
D3222. 110 Volt A.C. POWER PLANT. For use with above D3221. Permits Optional Use of 6 Volt D.C. or 110 Volt A.C. \$12.50  
D3223. Same as D3221, but for 110 Volt A.C. Use ONLY. . . . . \$34.50

**12-in. Wright De Coster 25 Watt Peak Dynamic Speakers**

Operates From Choice of 6 Volts DC or 110 Volts AC or BOTH!

The front of this speaker is a Celestey Baffle of WRIGHT DE COSTER Speaker. There is ample room within the case itself to stand a "Mike", a standard cable speaker cable, etc. The quality of reproduction provided by this massive heavy duty speaker is admirably real.



Uses Voice Coil Impedance of 8 ohms. If an output transformer is desired, include \$2.00 additional and state power output tubes employed.  
D3224. For 6 Volt D.C. **\$21.50**  
Use Only  
D3225. For 110 Volt A.C. 60 Cycle Use Only, including a 280 or 82 Rectifier Tube. \$31.50  
D3226. DUAL FIELD MODEL. For combination 6 volt D.C. and 110 Volt A.C. Operation, includes a 280 or 82 Rectifier Tube. \$35.50

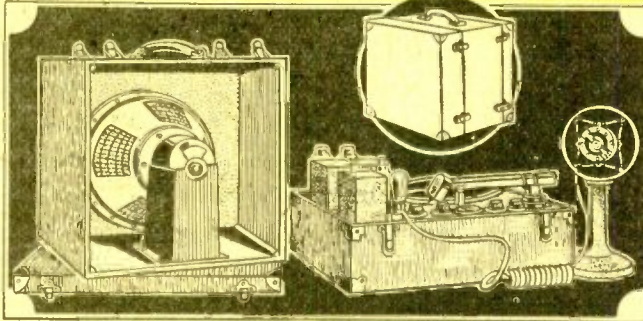
Universally Powered—From 6 Volt Storage Battery Operated Self-Contained Motor Generator, OR, From 110 Volt A.C. . . .OR FROM BOTH!

## 13 and 26 Watt "Dual-Output Dual-Channel" Completely Self-Contained Portable P. A. System

Equipped with a self-contained 6 volt D.C. or 110 volt A.C. DUAL SPEED Phono Motor, Turntable, DUAL SPEED PICK-UP, and "MIKE"—PHONO-RADIO" INPUT MIXER CONTROL PANEL! Furnished with a SELF-CONTAINED Universally Powered 12-in. WRIGHT DE COSTER P. A. AUDITORIUM DYNAMIC SPEAKER!

### Specifications:

**Tubes Employed:** 1-37, 2-89, 2-53;  
**Number of Stages:** Three; Circuit: Output of Self-Contained INPUT CONTROL Panel is connected direct to the grid of the first 37 (Pre-Amplifier) Tube which is push-pull transformer coupled into 2-89 Driver Tubes, each one of which is PUSH-PUSH TRANSFORMER coupled into their respective 53 Twin Class "B" Output Tubes, providing thereby TWO independent OUTPUT CHANNELS; Gain at 1,000 Cycles: 91 D.B.; Maximum Undistorted Output: 26 Watts; FREQUENCY CHARACTERISTIC VARIATION BETWEEN 50 and 5,000 CYCLES: 2.1 D.B.; Power Supply Requirements: Filament 6 to 6.3 Volts, A.C. or D.C., at 3.1 amps.; Plate 320 Volts, at 125 mls.; Output: Two Channels feeding into two individual OUTPUT TRANSFORMERS each one of which is equipped with multiple tapped secondaries of 500, 200, 15, 8, 4, and 2 ohms. Dimensions: 20 1/2" x 16 1/4" x 8"; Weight: 55 lbs.; Average Power Consumption of 6 Volt Generator: 9 amps. at 6 volts. Produces 320 Volts D.C. at 125 mls.; 110 Volt 60 cycle A.C. Power Plant Requires 1-83 Rectifier Tube. Average Power Consumption, 95 Watts. Furnishes 6.3 Volts A.C., 4.0 amps., and 320 volts D.C. at 125 mls.; Input "Mixer" Control Panel Connections: For Microphone (200-200 ohms). For Phono. Pickups (200 ohms)—Also For Coupling Radio Tuner (or external pre-amplifiers, if ever desired.)



View Showing This 6 Volt Storage Battery Operated Outfit, Ready For Use—Note The Dynamic Speaker And Its Baffle Chamber May Be Remotely Placed. A Microphone Can Be Stored Within The Speaker Case While Being Transported. THE SELF CONTAINED MOTOR GENERATOR is Fastened Inside The Case.

### Answers Demand for a Completely Unified Portable P. A. System

Radio Dealers and Servicemen:

Here Is The Ideal arrangement that immediately appeals to ALL P. A. Amplifier Prospects! Any novice can very easily and successfully operate this system, due to its utterly simplified controls. This one system fills every requirement arising in the P. A. Field, whether such applications require operation from a 6 volt storage battery in an automobile, sound truck (or wherever 110 Volt A.C. is NOT available), or from any public utility 110 volt A.C. light socket! Takes but a few moments to remove the readily accessible plug on the amplifier panel to provide optional operation from either 110 Volt A.C. or 6 volt D.C. Storage Battery. No tubes to change! The amazing compactness of its construction has NOT in any degree impaired its over-all efficiency or results obtainable. In fact, this remarkable amplifier produces tremendous volume with the highest possible quality reproduction retained throughout the entire audio range. The huge output is so realistic in its absolute fidelity as to thrill its audience with its life-like semblance to the original broadcast. As conclusive tribute to the superb quality reproduction afforded by this system, many professional performers prefer to carry this outfit with them from town to town, rather than risk impairing their performance by using an inferior P.A. System employed in theaters they contact.

- D3230. Fully Assembled but Unwired 26 Watt Amplifier and INPUT CONTROL PANEL KITS. Includes 3 piece COMPLETE Fabricoid Leather Covered PORTABLE CASE, less Tubes, Motor Generator, 110 Volt A.C. Packs, \$54.50
- D3231. Same as D3230, but Completely FACTORY WIRED—AND LABORATORY TESTED. Ready for Immediate Use. \$69.50
- D3232. MATCHED SET OF FIVE TUBES: 1-37, 2-89, 2-53. \$4.94
- D3161. 12 in. WRIGHT DE COSTER "P. A. AUDITORIUM" 6 Volt DYNAMIC SPEAKER CHASSIS. \$14.75
- D.233. Speaker Case for SECOND and additional Speakers, With Two Covers. \$6.75
- D.234. 110 Volt A.C. Exciter (With 280 or 82 Tube Rectifier) For Above D3161 Speaker. Permits 6 Volt D.C. or 110 Volt A.C. Operation. \$9.75
- D3165. Same as D3161, but For 110 Volt A.C. Operation Only. Includes 280 or 82 Rectifier Tube. \$24.75
- D.235. 6 Volt Storage Battery Operated MOTOR GENERATOR. \$22.50
- D.236. 110 Volt A.C. PACK FOR OPERATING POWER AMPLIFIER, Factory Wired. Includes 1-83 Rectifier Tube. \$22.50
- D-128. 6 Volt Storage Battery Operated DUAL SPEED PHONO. MOTOR (Consumes 2.8 Amps.) \$17.50
- D-128-A. 110 Volt A.C. Exciter For D3128 Phono. Motor (Permits Optional Operation from 6 Volt D.C. and 110 Volt A.C.) \$10.00
- D-891. 110 Volt A.C. Operated Dual Speed Phono. Motor. \$37.75
- D1892. DUAL SPEED PHONO PICK-UP. \$5.95
- D3127-A. Super-Sensitive 200 Ohm Double Button Microphone and Stand, As Illustrated. \$12.50
- D3237 110 Volt A. C. Combination Power Pack for Dual Speaker Excitation and 6 Volt Phono Motor Supply. Furnishes 6 Volts D.C. 4 Amps., for 1 or 2 Wright De Coster Speaker Fields and 6 Volts D.C. 4 amps., for 6 Volt Phono. Motor. \$19.50

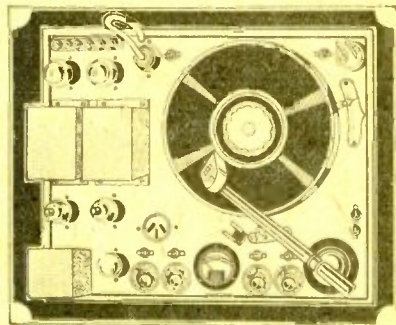
#### HOW TO ORDER

For a 6 Volt Storage Battery Operation ONLY, order the following:

- 1—D3230 (or D3231) Amplifier
  - 1—D3232—Set of Tubes
  - 1—D3161 (or more) Dynamic Speaker
  - 1—D3235 Motor Generator
  - 1—D3128—Phono Motor
  - 1—D1892—Phono, Pickup
  - 1—D3127—A "Mike" and Stand
- (If two Speakers are to be employed, then order 1—D3233 Portable Case.)

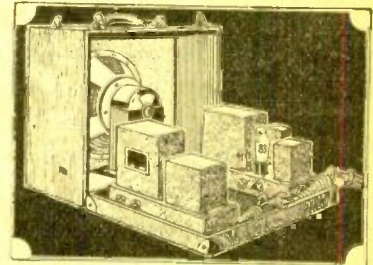
Should you then, at any future time, desire to operate this SELF-SAME entire system from 110 Volts A.C. as well as from 6 Volts D.C., you should purchase the following additional equipment:

- 1—D3236—Amplifier Power Pack
  - 1—D3237 Combination Phono, Motor and Speaker Exciter Supply
  - 1—D3233 Portable Case to house this additional equipment and the second speaker, if desired.
- On the other hand, if you intend to permanently employ this Entire System SOLELY FROM 110 Volt A.C. order the following:
- 1—D3230 (or D3231) Amplifier
  - 1—D3232. Set of Tubes
  - 1—D3161 (or more) Dynamic Speakers
  - 1—D3236 Amplifier Power Pack
  - 1—D1891 Phono. Motor
  - 1—D1892 Phono, Pickup
  - 1—D3127—A "Mike" and Stand



### Extreme Simplicity of Operation

In the foreground are pictured the few vital controls that provide for complete tonal variations to meet acoustical requirements and effect. Individual "VOLUME CONTROL" of Phono, Microphone, or Radio Tuner Inputs is provided, as well as the introduction of a "TONE CONTROL" effect, which emphasizes any desired frequencies of the entire audio scale. Provision is also made for "mixing," fading, blending, microphone announcements (or singing) with Phono. Record reproduction or Radio Programs in such a unique manner as to actually SUPER-IMPOSE one upon the other . . . for instance, a speech may be made with a musical background! . . . This is indeed a valuable feature! Connections are available for Mike-Phono-Radio "Inputs," Two Separate Output Channels (13 Watts EACH) Protruding Male Plugs for 6 volt D.C. Connections (or 110 Volt A.C.). Additional Features include 33 1-3 and 78 R.P.M. Phono. Motor Selector Switch and Governor control, "Mike" Current Reading Meter, Amplifier Motor-Generator On-Off Switches, Pickup Arm Clamp Bracket, Etc.



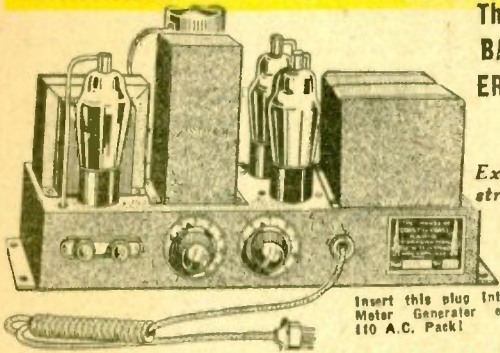
### Additional Portable Speakers and Power Packs For 110 A.C. Operation of Entire P.A. System.

In the above illustration, there is shown a "second channel" Dynamic Speaker, with two separate 110 Volt A.C. Power Packs bolted to its readily removable cover—one of these A.C. Packs furnishes the current requirements of the amplifier proper and the other A.C. Pack furnishes DYNAMIC SPEAKER FIELD CURRENT TO TWO Speaker Fields and also furnishes 6 Volts D.C. at 3 amps. to the PHONO. MOTOR only when this system is to be used from 110 Volt A.C. Light Sockets. (Obviously, these two A.C. Packs are NOT required when this entire system is to be operated from a 6 volt Storage Battery. It will be noted that these two units comfortably fit into the speaker case, while not in use, or while being transported. If only ONE speaker is to be employed, operating from one channel (13 watts), or from BOTH channels (26 watts!), and, 110 Volt A.C. Operation of the entire system is EXCLUSIVELY desired, we will mount the 110 Volt A.C. PACK in the space now occupied by the 6 volt MOTOR GENERATOR. These speakers are perfectly CELOTEX "baffled." They may be placed remotely from the amplifier, and therefore are ideal for obtaining maximum sound distribution!

Combination 6 Volt Storage Battery and 110 Volt AC Operated

Two Models

16 WATT and 26 WATT CLASS "B" "Mike-Phono-Radio" Amplifiers



The Same Amplifier Is Available for Optional Operation from BATTERIES—OR From a Storage Battery Operated MOTOR GENERATOR—OR—From a 110 Volt A. C. POWER PACK.

16 WATT MODEL REQUIRES: 1-36, 1-89, 2-79 Tubes

26 WATT MODEL REQUIRES: 1-36, 1-89, 2-53 Tubes

Extreme Compactness (13x5x6 1/2 in.) and Light Weight (9 lbs.) Construction Offers Many Valuable Advantages—Ideal for Portable Installations! Both Models Are Equipped With Two Separate Speaker Channels (For MAXIMUM Sound Distribution) Each One Being Fed by an Individual Output Tube. One, or Several Speakers, May Be Employed—or—Both Channels Can Be Fed into ONE Speaker. Available in Assembled Kit or FACTORY WIRED Models.

ANY EXCLUSIVE "COAST-TO-COAST" DEVELOPMENT!

If at present you only intend to operate an amplifier exclusively from either 110 volts AC or from a storage battery, this amplifier should be YOUR LOGICAL CHOICE, for, it costs you no more to purchase this universally powered amplifier with the knowledge that you can utilize it from your choice of ANY POWER SOURCE at any future time, you make ONE INVESTMENT instead of THREE! This really vitally valuable feature was the dominant thought in its design and we are duly flattered by the universal acceptance afforded this radical innovation in modern amplifier design. As pictured, this amplifier requires

an external "A-B" voltage supply which may be furnished by your choice of battery, or, a 6-volt motor generator, or, from a specially designed 110 Volt AC Power Pack, without changing any tubes whatsoever! When this amplifier is being operated from either all batteries or in conjunction with a 6 volt motor generator listed below, (the latter entirely replacing "B" Batteries) the tube filaments are lit by the 6 volt storage battery. When the amplifier is operated from the AC Power Pack listed below, the tube filaments are then lit by an appropriate A.C. filament winding as the heater type tubes employed permit universal

A.C. or D.C. use! These three forms of optional power supply are adaptable to this amplifier in a few moments by merely changing the POWER SUPPLY PLUG from one power source to another. It obviously follows that this versatile method of operation is of extreme value inasmuch as this remarkable amplifier may be operated at maximum output without making any changes whatsoever. This remarkable amplifier is ideal for use wherever Power Line Sockets ARE... OR... ARE NOT... available, such as for use in Automobiles, Boats, Airplanes, Buses, Trains, Horse-Drawn Vehicles, Outlying Rural Districts, Street Salesmen etc., Etc.

GENERAL FEATURES OF BOTH THE 16 AND 26 WATT MODELS

Employ a three stage HIGH GAIN circuit that provides MAXIMUM AMPLIFICATION of all INPUT signals coming from Microphones Phono-Pickups, Radio Tuners, Photo-Electric Cells, etc. Equipped with a Volume Control, Tone Control, On-Off Switch, Speaker Outlet Sockets. Inasmuch as EACH 79 (or 83) Tube is a complete CLASS "B" PUSH-PUSH Amplifier unit, one of the two output tubes may be used independently of the other—in fact, one of them may be altogether removed from its socket without disturbing the normal operation of this amplifier, except that only EIGHT WATTS OUTPUT with 1-79 (or 13 watts with 1-53

tube) would then be available. This feature provides economical operation, for small sound coverage requirements. (If it is desired to feed the entire output into ONE DYNAMIC SPEAKER instead of into two speakers operating from separate channels, a special OUTPUT TRANSFORMER is available for this purpose for \$4.75 additional—it has a secondary winding of 15 ohms, tapped at 8, 4, and 2 ohms.) For those who intend to operate this amplifier from BOTH a 6 volt storage battery and 110 volt AC, specially designed DUAL FIELD Dynamic Speakers are also available, a toggle switch thereon placing into opera-

tion either a 6 volt field or, a 2500 ohm field, which is actuated by a 110 volt A.C. Exciter. There is also available a 6 volt phonograph motor, which can also be operated from 110 volts A.C., utilizing therewith a special design Power Unit. A Universal "MIKE-Phono-Radio" INPUT "MIXER" Control Box is highly recommended inasmuch as it Permits Any Volume of Microphone Speech to Be Super-Imposed Over Phono Record, or Radio Reproduction! Ideal for Speeches with Musical Background, furnished by either Phono-Records or Radio Tuners! The use of this device permits the remote placement of the Amplifier proper.

16 WATT MODEL SPECIFICATIONS

Tubes Employed: 1-36, 1-89, 2-79. Number of Stages: Three. Gain at 1000 Cycles: 82 D. B. Input: To 8000,000 ohm Potentiometer, connected to grid of first 36 tube. Output: Consists of TWO CHANNELS of 14,000 ohms each. (If ONE Speaker is employed at 16 Watts output, the total output plate impedance (of the FOUR PLATES!) is then 7000 ohms. Power Supply Requirements: Maximum Plate Current, 250 volts 115 mds. Filament Current: 6 volts 2 amp. Average Power Consumption: 35 watts, when used with 110 volt A. C. Power Supply listed below.

26 WATT MODEL SPECIFICATIONS

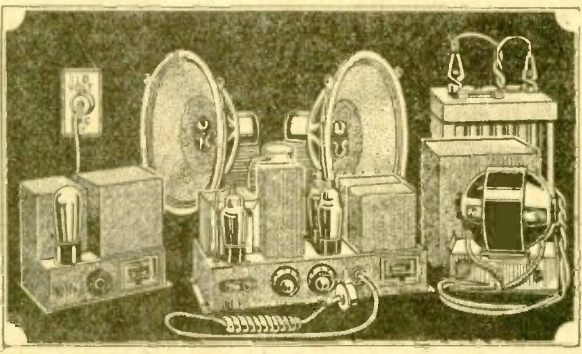
Tubes Employed: 1-36, 1-89, 2-53. Number of Stages: Three. Gain at 1,900 Cycles: 82 D. B. Input: To 500,000 ohm Potentiometer, connected to grid of first 36 tube. Output: Consists of TWO CHANNELS of 10,000 ohms each. (If ONE Speaker is employed at 26 Watts output, the total output plate impedance (of the FOUR PLATES!) is then 5,000 ohms. Power Supply Requirements: 320 volts, 115 mds. Maximum Plate Current, Filament Current: 6 volts 4.7 amp. Average Power Consumption: 95 watts, when used with 110 volt AC Power Supply listed below.

- D1938. Complete 16 Watt Amplifier Kit. Ready to be wired. Fully Assembled. Full Set of Blue Prints Included. Less Tubes, Generator Speakers ..... \$17.50
- D3140. FACTORY WIRED. LABORATORY TESTED.... \$24.50

- D3240. Complete 26 Watt Fully Assembled Amplifier Kit. Ready to be wired. Full Set of Blue Prints Included. Less Tubes, Generator, Speakers ..... \$24.50
- D3250. FACTORY WIRED. LABORATORY TESTED... \$31.50

Additional Equipment for Both Models

- | 16 WATT MODEL  | 26 WATT MODEL  |
|--|--|
| D3151. Set of MATCHED TUBES. 1-36, 1-89, 2-79... \$5.18  | D3154. Set of MATCHED TUBES. 1-36, 1-89, 2-53... \$4.24  |
| D3152. Six Volt Storage Battery Operated MOTOR GENERATOR. 6 1/4 x 4 1/2 x 5 3/4 in. \$17.50 (Filter Equipped \$3.50 additional)  | D3155. Six Volt Storage Battery Operated MOTOR GENERATOR. 6 1/4 x 4 1/2 x 5 3/4 in.... \$22.50 (Filter Equipped \$3.50 additional) |
| D3153. 110 Volt A. C. POWER PACK. 6 1/4 x 4 1/2 x 5 3/4 in. Furnished with an 83 Rectifier. FACTORY WIRED..... \$18.75   | D3156. 110 Volt A. C. POWER PACK. 6 1/4 x 4 1/2 x 5 3/4 in. Furnished with an 83 Rectifier. FACTORY WIRED..... \$22.75             |
| D3157. SIX VOLT JENSEN or WRIGHT DE COSTER 11 in. DYNAMIC SPEAKER (Including Output Transformer)... \$7.35   |  |
| D3158. COMBINATION SIX VOLT D. C. and 110 Volt A. C. MODEL including an 82 Rectifier and Output Trans.... \$10.50  |  |
| D3159. SIX VOLT 33-1-3 and 78 R.P.M. PHONOGRAPH MOTOR..... \$17.50   |  |
| D3160. 110 Volt A. C. POWER SUPPLY. For above Six Volt Motor ..(Permits operation from 6 volt battery as well.).... \$9.75   |  |
| D3177. SPECIAL OUTPUT TRANSFORMER. Equipped with tapped secondaries: 500, 200, 15, 8, 4 and 2 ohms. Ideal for coupling 1 to 16 Dynamic Speakers to either the 16 or 26 Watt Amplifiers..... \$4.95 |  |



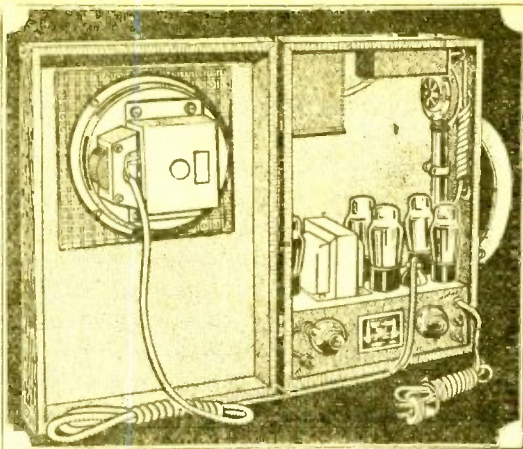
The 110 Volt A.C. Power Pack is visible on the left, whereas the Six Volt Motor Generator appears on the right. Note ingenious Power Supply plug arrangement, which permits instantaneous selection of power source!

## Portable 5 Watt Universally Powered A. C.-D. C. P. A. Amplifier

Employs NO POWER TRANSFORMER! UTILIZES TWO VOLTAGE DOUBLER RECTIFIERS!  
Can be Operated from 110-220 Volts A. C. or D. C. and from 6 Volt Storage Battery

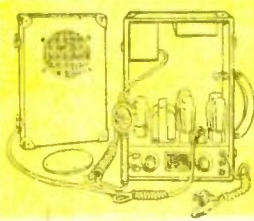
**Clever Design Permits Remote Placement of the Dynamic Speaker and Microphone.**

This ultra compact, public address amplifier has been made possible by employing two 25Z5 "Voltage Doubler Tubes." As the voltage doubling feature makes 220 volts D. C. available without a power transformer, the use of two 43 Class "A" Pentode Push-Pull output tubes, delivering full 5 Watts of undistorted output, is now possible. Since the 43 tubes only require 150 volts maximum on their plates, the balance of 70 volts is uniquely and most effectively employed to fully excite a specially designed and wound dynamic speaker field! (For 6-volt operation, a special additional field coil may be built in as an integral part of the present speaker field, and made available by merely throwing a toggle switch!)



WEIGHT: 13 lbs.; SIZE: 15" long, 6" wide, 10" deep.

Note that the dynamic speaker is furnished on to a removable hinged "baffle" cover, making it possible to either operate the speaker immediately adjacent to the



amplifier, or it can be placed in any remote location as desired—by merely employing standard 5-wire extension cables and appropriate plugs and sockets.

**Ideal For Microphone, Phono, and Radio Tuner Amplification!**

A self-controlled Universal "Mike-Phono-Radio" input transformer is furnished together with convenient connection facilities—VOLUME and TONE CONTROLS. Line Switch and external input source connections are furnished as well as a self-contained microphone battery. The operation of this entire system is so ridiculously simple that any child can successfully operate it! The entire amplifier system is housed within an attractive and durably constructed leather covered carrying case, equipped with a comfortably designed carrying handle and the usual complement of hardware fittings. There is ample space within its interior for storing a microphone and speaker cable when not in use. Power consumption 53 watts!



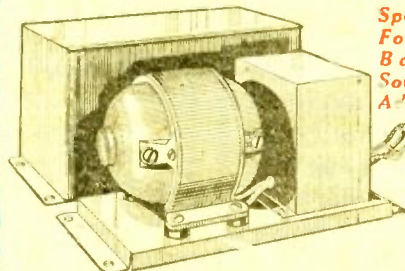
- D3032, Set of 5 MATCHED TUBES: 1-37, 2-14, 2-25Z5 ..... \$6.02
- D3083, Single Button HAND MICROPHONE ..... \$2.95
- D3139, Double Button Universal Hand Microphone ..... \$8.82

- D3111, Completely Assembled But Un-wired Amplifier Kit, including Carrying Case, 6-In. Dynamic Speaker, "Mike" Battery and Universal Input Transformer ..... **\$19.50**
- D3031, Same as D3111, but FACTORY WIRED and LABORATORY TESTED ..... \$21.50

- D3034, 6 Volt Adaptation Equipment, Includes 6 Volt Field Coil (Dual Field!) on Dynamic Speaker... \$6.75
- D3110, 6 Volt "B" Eliminator: 180 Volt, 45 Mils ..... \$9.75

**NOTE: For SIX VOLT Operation. Remove 2-43 Tubes and replace with 2-41's. Requires 180 Volts (45 Mils) which can be furnished from 4-45 Volt "B" batteries or suitable 6 volt auto "B" Eliminator.**

## Remington 'Sound Truck' 6 Volt D. C. Motor Generators



**Specially Designed For Auto Storage Battery Operated Sound Truck Public Address Amplifier Systems.**

Excellent Voltage Regulation Characteristic. Also Permit Use With Class "B" Amplifiers!

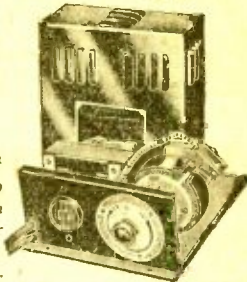
It is easily installed anywhere in any car or Sound Truck and will operate any Auto Radio Set or P. A. Amplifier System better than batteries. Small mounting space, 4 1/2 in. x 6 in.—weight, 13 lbs. Uses ball-bearings with a sealed-in lubricant! No oiling is necessary! Employs the New Fool-Proof "Removulator Commutator". Precision built, and will last for years without attention! Uses the latest type filter which is self-contained—this valuable feature prevents noisy Radio reception. (Note that a self-contained filter is NOT necessary if a Radio Tuner is not employed in your P. A. System.)

Cat. No.	"A" Batt. Output		D.C.	M.A.	
	In Amps.	Volts			
D3046	5 1/2	180	115		<b>\$19.50</b>
D3044	6	250	115		
D3047	9	320	100		
D3142	13	400	100	\$27.50	

**NOTE: If any of the above motor generators are required WITH SELF-CONTAINED FILTERS, include \$2.00 additional.**

## 6 and 12 Volt Storage Battery Operated Remington Auto A.C. Supply

- 6 Volt Model Produces 110 Volts A.C. 65 Watts
- 12 Volt Model Produces 110 Volts A.C. 150 Watts



Both employ the New Fool-Proof Removulator-Commutator" which is not to be confused with obsolete, troublesome and far inferior Vibrators used in low priced models still on the market.

Extreme Compactness Permits Convenient Mounting! Requires No Adjustment—Entirely Dust Proof and Moisture Proof! Unquestionably Guaranteed!

Furnishes ample A. C. Current and Proper Voltage to Operate Any 110 Volt A.C. Power Amplifier, Midget A.C. Receiver or Electric Appliances. This device places within the willing purse of all a means whereby 110 volts 60 cycle A.C. can be produced wherever public utility A.C. lines are not available, as in certain farm localities, on board ship, in a motor boat, in an automobile, or in the woods. In automobiles, motor boats, Sound Trucks, etc., you can employ the very storage battery that is installed therein, now being used in the ignition circuit. Overall Dimensions: 7 1/2 x 5 1/2 in. tall.  
D3051, SIX VOLT MODEL ..... **\$21.75**

## 12 Volt D. C. Input Model Output 110 Volts A. C. 150 Watts

This model is ideal for use with 25 Watt Output Class "B" Amplifiers, 20 Watt Class "A" Amplifiers, and any smaller System not requiring more than 150 Watts! 19 in. Long 7 1/2 in. Wide 6 in. Tall  
D3052, 12 VOLT MODEL ..... **\$32.50**

**Jensen "Five-Inch" Midget Electro Dynamic Speaker**



Equipped with Tym-Flex Cone. A small speaker of exceptional efficiency on both high and low notes. Extremely sensitive and popularly used in the new AC-DC-Battery Universal Receivers, and portable amplifiers. Standard model furnished with 2500 ohm field. Available with any special output transformer.

specify type of output tubes speaker is to be used with. Overall dimensions: Diameter 5 in., depth 2 1/4 in.

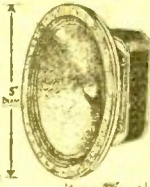
D1719..... **\$2.35**

Any other value field coil resistance available for 75c additional.

**Best "Universal" Five-Inch Magnetic Speaker**

**Handles Up to TWO WATTS**

A truly Universal Speaker, for AC-DC-Battery Receivers, capable of a remarkable sensitivity and fidelity of reproduction heretofore unattainable from any speaker in its design or price class. No field excitation required. Designed to match output impedances of any power tubes. Specify output tubes used. Overall dimensions 5 in. diameter, 2 1/4 in. deep.



D1720..... **\$2.25**

**Majestic 175 K.C. Replacement I. F. Coil Assembly**



Can be easily replaced. Its efficient characteristics permit the usage of this dual inductance in any conventional intermediate frequency I. F. stage. Equipped with four identified leads.

D1363..... **35c**

Per Dozen, \$3.50

**Sprague Professional PHONO. PICK-UP**

Long tone arm—plays all 10, 12 and 16 in. diam. records (33 1/3 and 78 R.P.M.). Extremely sensitive—one of the finest pick-ups ever manufactured! Choice of high or low impedance.

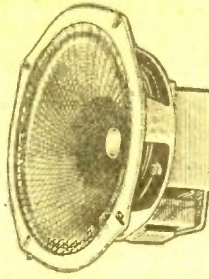


D3083..... **\$5.95**

D3084 Matched Phono. Input Transformer..... **\$2.90**

**Sonochorde "Public-Address" Dynamic Speakers**

Reproduces speech and music with remarkable fidelity and is capable of handling extreme power without distortion. The "spider" diaphragm is made of ribbed, non-warping, weather-proof material. Has a 1-inch diameter Voice Coil. A new method of cone suspension allows for a small air gap resulting in a highly concentrated magnetic field. A hum bucking ring which balances out the induced A. C. current in the voice coil is built into every unit.



Available with a Voice Coil Impedance Matching Output Transformer, for either single or Push-Pull Tubes... state type of tubes to be employed. Also available with four types of field coil resistances: 6 volt, 1000 ohms, 2500 ohms and 1800 ohms (tapped at 300 ohms)... state field coil resistance desired! For special resistance field coil value, add 70c.

D6289. 6 1/2 in. Overall Diameter..... **\$3.75**

D6290. 9 in. Overall Diameter..... **\$4.95**

**A. C. Operated Model**

D7180. 110 Volt A. C. Model, employing a 280 Tube Rectifier. Same chassis as D6290. Complete with 280 Tube..... **\$8.50**

**Nathaniel Baldwin Unit**

Contains an unusually large horseshoe magnet, and heavily ribbed aluminum balanced armature diaphragm. 3 1/2 in. diameter, 2 in. high. Will not rattle or distort.



D1228..... **49c**

Per Dozen, \$5.50

**Kellogg Adjustable Magnetic Speaker Unit**

Equipped with a standard threaded brass nipple. Adjustment made on rear metal cover plate. Overall diameter 2 1/2 in., 2 in. deep.

D1246..... **59c**

**Nathaniel Baldwin Phones**

Balanced armature principle. The most sensitive and efficient on the market. Used extensively by the United States Signal Corps and the Navy. Preferred by the professional operator.



D1518..... **\$3.75**

**UTAH-JENSEN:ROLA D.C. Dynamic Speaker Field Coils DIMENSIONS**



Mfg.	Ohms	Diam. all Over-			Your Cost	
		Hole Ins.	Diag. Ins.	Depth Ins.		
D1471 Utah	1000	1 3/8	2 3/8	1 1/2	\$1.25	
D1472 Jensen						
D-9, 1540, } 261-A Series }	1000	1 3/8	2 3/8	1 3/4	1.45	
D1473	1250	1 3/8	2 3/8	1 5/8	1.75	
D1474	1800	1 3/8	2 3/8	1 5/8	1.75	
D1475	2500	1 3/8	2 3/8	1 5/8	1.45	
D1476	" (6 Volt)	8	1 3/8	2 3/8	1 3/8	1.65
D1750 D-A-7	{1000 } {2500 }	1 1/2	3 1/8	3 3/8	3.95	
D1477 Rola-K	(8 in.)	1000	1	2 1/4	2	1.49
D1478	"	2500	1	2 1/4	2	1.49
D1479 Rola-F	(6 in.)	1000	1	2 1/4	1 1/2	1.49
D1480	"	1800	1	2 1/4	1 1/2	1.49
	(Tapped at 300)					
D1481	"	2500	1	2 1/4	1 1/4	1.49
D1751 Victor R-32	1000	1 3/8	3 1/2	3 3/8	2.95	

Other Types and Makes Available—Write for Quotations

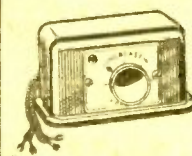
**Brandes 2000 Ohm Phones**

Known the world over and rightly so. Worth the extra few cents for the extreme satisfaction you will derive from these amazingly sensitive headphones!



D1517..... **\$1.35**

**General Electric-RCA Universal Phono. Pickup Tapped Impedance Matching Transformer**



Can Also Be Used as a Variable Impedance Audio Choke of 30 Henries Inductance Tapped at 15, 6 and 3.

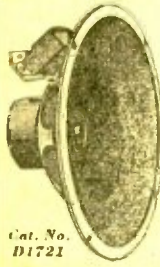
Enclosed in an attractive bronze finished steel case, measuring 5 in. long, 2 1/4 in. wide, 2 3/4 in. tall. Any phono pick-up, either high or low impedance type, is connected to the primary side cable. By rotating the switch, you match the impedance of this coupling unit to the pick-up being used. Employing, as it does, a step-up transformer, this unit virtually serves as a Booster Amplifier. There are four impedance values available.

D1447..... **\$1.95**

**Wright-De Coster D. C. and A. C. Series Dynamic Speakers**

**General Utility Model**

11 Inch Diameter



Cat. No. D1721

The mechanical design itself suggests the inert ability of this remarkable reproducer to withstand terrific volumes in a pleasing manner. The rugged metal frame work is handsonely lacquered and measures 11 inches overall diameter, by 4 3/4 inches deep. A bulky size IMPEDANCE MATCHING OUTPUT TRANSFORMER is attached to the metal frame with 14 leads extending over to a 5-terminal Bakelite insulated terminal strip, located conveniently for ready access. The periphery of the cone is firmly glued to a flexible ribbed disc, and the voice coil (8 ohm impedance) will never go out of adjustment. Handles peak loads of up to 12 Watts—Ideal for medium output P.A. Amplifiers.

**General Utility Model**

11 Inch Diameter

D1721. DC Model with choice of 1000 or 2500 ohm field..... **\$5.40**

D1725. DC Model for 6, 12 or 32 volt operation..... **\$10.40**

D1726. AC Model for 110 volt, 60 cycle lines. Requires a type 280 Rectifier..... **\$10.40**

**Heavy Duty Model**

12 Inch Diameter

D1728. DC Model, with choice of 1000 or 2500 ohm field coils..... **\$9.70**

D1729. DC Model for 6, 12 or 32 volt operation..... **\$14.70**

D1730. AC Model for 110 Volt 60 cycle AC. Requires a type 82 Rectifier..... **\$14.70**

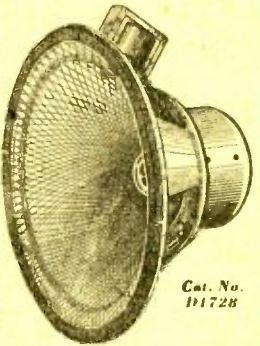
Any of the above speakers are furnished with your choice of a single or push-pull output transformer. State power tubes used in your receiver or amplifier.

NOTE: All DC Models available with any other special field coil resistance values at 75c additional, for the 11 inch diameter models, and \$1.25 for 12 inch diameter models.

**Heavy Duty Model**

12 Inch Diameter. Handles Peak Loads Up to 20 Watts!

Due to their generous design, over-size field coil and diaphragm, these speakers will produce huge volume free of blasting and rattling, with an unusually excellent degree of realism that is amazingly thrilling! Measures 12 1/2 inches overall diameter, by 7 1/2 inches deep. The voice coil is perfectly centered and so supported that it will never go out of adjustment! The actual net weight of this remarkable speaker is fully 15 pounds—certainly proof positive of its "non-skimping" design and construction! Voice coil impedance 7 1/2 ohms.



Cat. No. D1728



**Jensen**  
ELECTRO-DYNAMIC SPEAKERS

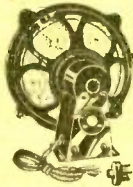
**Electro-Dynamic Speakers**

Equipped with TYM-FLEX Diaphragms

**Jensen**  
ELECTRO-DYNAMIC SPEAKERS

**Jensen Concert D-9 D. C. Dynamic Speakers**

1 1/2 in. diameter — Burtex Cone. 8 ohms voice coil impedance. Furnished with any single or push-pull output transformer — state power tubes employed. Note convenient mounting stand. Conservative continuous wattage capacity rating — 8 watts! The highest price receivers utilize this series Dynamic Speakers. Ideal for P. A. Multi-Speaker Installations.



**\$7.35**

NOTE: Any resistance value field coil other than above listed available for 75c additional.

**Special Dynamic Speaker Field Coils Wound to Order**

We have complete manufacturing facilities to economically wind to order any resistance value field coils. Simply send us either the defective speaker, field coil, or physical dimensions and resistance of your present defective coil so that we may quote you our lowest prices.

**Victor D. C. Dynamic Speaker**

For Victor R-32, RE-45, RE-52, RE-75 Sets



D1266. .... **\$4.75**

**R. C. A. and Victor Dynamic Speaker Field Coils**

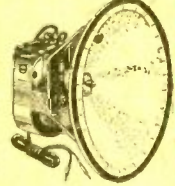
D1070. For Radiola 80 (1500 ohms)..... **75c**  
D1071. RCA Photophone Series (1000 ohms)..... **\$1.95**  
D1072. RCA Photophone 6 Volt Coil. (Can be easily inserted into any Photophone Speaker by removing present 1000 ohm coil. Draws 1.375 amps at 6 volts)..... **\$3.95**

D1073. Radiola 104 and 105 Speakers..... **\$1.95**  
D3075. For Victor RE-32, RE-45, RE-52, RE-75 Series(3000 ohms) **\$1.95**

**Fulton-Simpson Magnetic Speaker Chassis**

Actuated by a Stromberg-Carlson Heavy Duty—Giant Size Unit

The reproductive qualities will amaze you with its sheer reality. A few dynamic speakers can boast of as equally perfect rendition. Will not blast, chatter or rattle. An ideal chassis to employ as a General Replacement Chassis due to its unusual compactness! 8 1/2 in. diameter, 4 1/2 in. deep. The entire operating mechanism is completely housed within a bakelite, dust-proof case, assuring permanent and efficient performance.



In lots of six, \$10.50

Ideal for use in conjunction with multi-speaker public address installation systems.

D1178 ..... **\$1.95**

**1933 DESIGN JENSEN 30 WATT PEAK SUPER AUDITORIUM Dynamic Speakers**

In sound output these new Jensen Auditorium Speakers are at least 400% more efficient than the conventional type of electro-dynamic speakers.



Adding this speaker to any amplifier is an economic means of greatly increasing the power output of the system WITHOUT ALTERING THE AMPLIFIER ITSELF!

Voice Coil Diameter—2 3/4 in.! Speaker Weight—52 lbs.! Excellent for Use with All Class "A" and Class "B" Sound Truck and Huge Auditorium Public Address Amplifier Installations. Highest efficiency, rugged construction, capacity to handle extreme power inputs and amazing fidelity of reproduction, place these new speakers at the head of all previous achievements in electro-dynamic cone speaker designs. A new combination model permits universal operation either from BOTH 110 volts A. C. power lines and 6 volt storage battery. OR from 110 volts A. C. and 110 volts D. C. Overall dimensions: 13 23-32 in. tall, 13 5-7 1/2 in. wide, 8 53-64 in. deep—requires a 12 in. baffle

**D. C. Models**  
D6958. Choice of 6-110-220-330 (3000 ohms) Volt D. C. Fields... **\$26.45**  
(Any special field coil resistance value obtainable for \$1.75 additional.)

**110 Volt A. C. Models**  
Require 82 Mercury Vapor Rectifier  
D6969. 110 or 220 Volts, 50-60 Cycles A. C. .... **\$39.69**  
D6960. 110 Volts, 25-40 Cycles A. C. .... **\$43.50**

**Combination Models**  
D3132. For 110 A. C. and 6 Volt D. C. Storage Battery Operation **\$52.50**  
D3133. For 110 Volts A. C. 110 Volts D. C. and 6 Volt Storage Battery Operation..... **\$62.50**

**UNIVERSAL COMBINATION DUAL FIELD**

110 Volt A. C.—D. C. and 6 Volt Dynamic Speakers

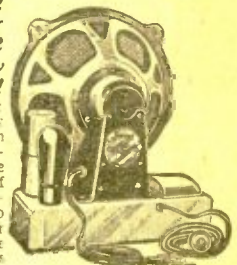


The universal operating feature of these speakers make them perfect adjuncts for use with any Auto, Sound Truck, Motor Boat, Aeroplane, Universal Powered Public Address Amplifier System.

The incorporation of TWO FIELDS provides an adequate and economical solution for universally operated Dynamic Speakers. The 1000, 2500 or 3000 ohm field may be connected directly from an amplifier by substituting the field for one of the filter chokes, or, from a suitable exciter or 110 volt D. C. lines. An exciter is available built into the speaker and accordingly permits operation from 110 volt A. C. power sockets. A switch mounted directly upon the speaker case selects the desired field for any particular mode of operation. 11 in. diameter. Furnished with choice of any output transformer. State output tubes employed.  
D3134. For 6 Volt Storage Battery Operation and Choice of 1000, 2500 or 3000 Ohm Field..... **\$12.50**  
D3135. For 6 Volt Storage Battery and 110 Volt A. C. Operation, Incl. 4-280 Rectifier..... **\$18.75**

**Jensen "Concert" 11 1/2 Inch 110 Volt A. C. Dynamic Speakers**

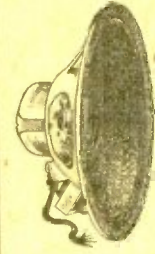
Employing Either a 280 or Full Wave 82 Type Mercury Rectifier Tube!



Cone diameter: 11 1/2 in. Burtex cloth Diaphragm noted for its absolute non-resonance and moisture-proof features — guaranteed never to lose its shape or buckle. The voice coil assembly is equipped with a rugged centering device which permits unusually large cone excursions without rasping. Equipped with your optional choice of any output tube matching transformer—state what type output tubes you employ. Capable of handling huge volume, free of blasting or distortion. Excellent for P. A. Multi-Speaker installations—each speaker can easily dissipate 8 watts continuous audio energy. Plugs into any 110 volt 50-60 cycle A. C. socket.

D1217. For 280 Tube..... **\$10.75**  
D1617. For 82 Tube. (Wattage Consumption Saving—6 Watts!) **\$12.75**  
25 Cycle Models, \$2.00 Additional

**1800 Ohm (Tapped at 300 Ohms) D. C. Dynamic Speaker Chassis**

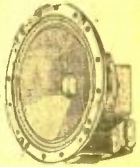


Tapped Field supplies correct "C" bias for power Tube. Preferred by many midget set manufacturers! Quality Built Down to a Price! Equipped with a voice coil impedance matching transformer for 1-247 tube.

D1205 **\$1.95**  
Lots of Three, \$5.25

**Midget Dynamic Speaker**

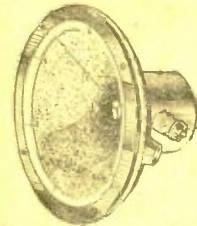
Available with out-pull transformer to match any single or push-pull tubes. Furnished with: 1000, 1300, 2500 ohms and 6 volt battery fields. State transformer and field coil type required.



D1681..... **\$1.95**

**RCA-PHOTOPHONE**

Replacement Cone



Furnished Complete with Voice Coil

A guaranteed replacement for ALL PHOTOPHONE Speakers (both A. C. and D. C. models)

D1676 ... **\$1.95**

**Victor Speaker Cone**

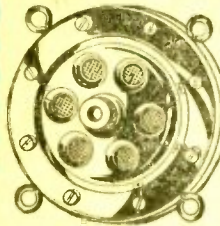
Complete with Voice Coil



Guaranteed replacement for Victor Speakers, used in Set Model; R-52, R-52, RE-45 and RE-75. 15 ohm voice coil.

D1358 ..... **85c**

**Nationally Advertised  
Two-Button 200 Ohm  
Carbon Microphone**



Favored by Professionals For Sound Truck and All-purpose Public Address Amplifier Use!

A tribute to American engineers—a high quality two-button microphone available for the first time at this seemingly impossible low price! Resistance: 200 ohms per button. Frequency range: 100 to 4000 cycles. Scientifically

damped. Has a very low hiss level. Duralumin non-breakable diaphragm. Huskily constructed—measuring 2 1/2 in. diameter by 1 in. thick. Pure GOLD CONTACTS!

- D3121. Matched INPUT Transformer ..... \$1.25
- D3122. Microphone Suspension Ring With Eight Springs ..... 1.75
- D3123. Desk Microphone Stand, With Ring and Springs ..... 2.75
- D3124. Adjustable Floor Stand, (45 in. to 72 in.) With Ring and Springs ..... 6.50

**SUPER-VALUE**  
**\$3.95**

**Heavy Duty P. A. Double Button  
MICROPHONE**

Generously Proportioned and Constructed—Excellent for Broadcast Station Use!

Constructed of accurately turned steel, machined to a hair-line precision. 3 1/4 in. in diameter by 2 1/4 in. thickness. Net weight over 2 1/2 pounds. The buttons are 200 ohms each. Frequency response: 30 to 8600 cycles. Gives depth, shading and brilliancy of music and the clear, clean-cut personality of speech.

- D3125. **BIG VALUES** .. \$19.75
- D3126. MATCHED "MIKE" INPUT TRANS. .... 2.95



**OUR LEADER VALUE!  
Super-Sensitive  
200 Ohm D. B.  
MICROPHONE**



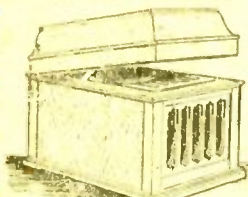
An extra large two button microphone extremely rugged in construction. Only the best materials are used. The diaphragm is of special duralumin .002 thickness. This model is 1 in. in diameter, by 2 in. thick, the frequency range being from 30 to 6000 cycles. Very beautiful in appearance, being of bright, nickel finish, highly polished. Compares favorably with many considerably higher priced microphones on the market.

- D3127. **AMAZING VALUE!** \$9.75
- D3238. MATCHED "MIKE" INPUT TRANS. .... 1.85

**Extraordinary Close-Out!  
EDISON PHONOGRAPH**

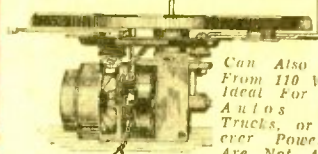
Complete With PHONO MOTOR and PHONO REPRODUCER  
Cat. No. D3339

**\$3.95**



Mounted in a durable constructed mirror oak table cabinet, measuring 15 in. long, 11 1/2 in. tall, 12 in. deep. The hinged top is equipped with a patent lock hinge. There is ample room within the cabinet to comfortably house not only the present mechanical motor mechanism, but you can also mount within a power amplifier and a dynamic speaker! Equipped with a diamond type needle and mechanical reproducer—diamond needle alone worth \$10.00!

**We Are The First To Offer A  
6 Volt D. C. DUAL SPEED  
PHONOGRAPH MOTOR**



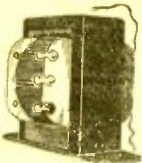
Can Also Operate From 110 Volt A.C. Ideal For Use In Autos Sound Trucks, or Wherever Power Lines Are Not Available.

Consumes only 2.8 amps. Selection switch provides optional 33 1/3 or 78 R.P.M. Governor controlled. Furnished with a 12 in. velvetten turn-table. Guaranteed to re-voice at stated speeds.

- D3128. 6 Volt D.C. Model \$17.50
- D3129. Combination 6 Volt D.C. and 110 Volt A.C. Model ... 27.50

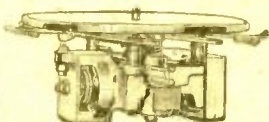
**Universal Combination  
Phono-Microphone and Radio  
Tuner Input Matching  
Transformer**

Equipped with two separate primaries: the impedance of one being 3000 ohms, tapped at 500 and 200 ohms (for high and low impedance pick-ups); the other having an impedance of 400 ohms center-tapped (for single or double button 200 ohm microphones). The double tapped primary permits the input of two or more audio signals which can be individually controlled and impressed through its matched secondary upon any standard input grid circuit.



- D1461 ..... \$1.50
- D1465. Same as above, but may also be used as a conventional first audio transformer ..... \$2.65

**Dual Speed 33 1/3 and 78 R.P.M.  
Electric Phonograph Motors**

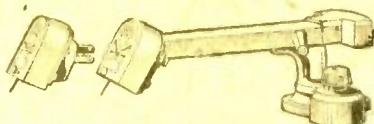


Incorporates every improvement and valuable feature, such as: Instantaneous Selection Cam Switch for 33 1/2 or 78 R. P. M.

operation; automatic stop; hum free and sturdy induction motor; 12 in. Velvetten covered turn-table; completely enclosed oil sprayed spiral cut laminated bakelite gears; self-lubricating oversize bearings; constancy of speed of turntable R.P.M. despite voltage variations or "record drag," etc. Furnished complete with all fittings.

- D1891. 110 Volt A. C. model complete ..... \$9.75
- D3130. 110 Volt D. C. Model .. \$12.75
- D3131. Combination 110 Volt A. C. and 110 Volt D. C. Model ... \$18.60

**Dual Speed 33 1/3 and 78 R.P.M.  
Ultra-Sensitive Phono. Pick-up**



Provides for compensation of rising and falling turn-tables, warped records, etc. Its remarkable sensitivity and high-frequency response stamps this pick-up as highly desirable—covers the entire musical register, from 22 cycles clear up! The self-enclosed volume control serves to considerable advantage and usefulness! Available in any impedance from 200 to 5000 ohms. Standard is choice of 200 or 3000 ohms.

- D1892 ..... \$5.95

**Allen Hough  
Phono Motor**



Rotor Synchronous Type. Maintains a constant speed of 78 revolutions per minute, regardless of line voltage fluctuations. Actual motor is only 1 1/4 in. thick. Furnished complete with 10 in. felt-covered turntable.

- For 110 Volts A. C. 60 Cycles ..... \$2.45
- D1893. .... \$2.45
- 3 for \$5.95

**A REAL BUY!**  
**\$2.45**  
**3 for \$5.95**

**Universal Model "X"  
Microphone**



Resistance 260 ohms per button. Frequency range 40 to 3,500 cycles. Pure gold contacts. Duralumin diaphragm. Excellent for all P. A. Installations.

- D3068. .... \$5.88
- D3069. Matched "Mike" Input Transformer ..... \$1.75

**Three Conductor Shielded  
Microphone Cable**

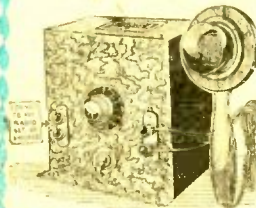
The finest cable obtainable. Consists of three individually insulated cables color-coded. Each individual cable has rubber insulating and cotton covering. Woven, flexible tinned copper shield self cotton covered. Cable is furnished with spade tips on both ends.



- D1463. Per ft. (cut to any length) ..... \$ 1/2 C
- Per 100 ft. Roll, \$2.95

**"Universal All-Purpose"  
Microphone  
Input Control**

Permits the Use of Any Microphone With Any Type or Make Radio Receiver or Power Amplifier



Contains all the necessary auxiliary equipment which perfectly matches the impedance of ANY Microphone to any input grid circuit characteristics. It also houses the necessary microphone dry-cell voltage supply battery, which will last for several months, and which can be easily replaced. This device is excellent for use in call systems, inter-office communication and all Public Address applications. Can be set up for use within five minutes by any novice—note the few, convenient terminals. Its attractive appearance warrants its placement on any desk, counter, church pulpit, etc. 6 in. long, 5 1/2 in. tall, 3 1/4 in. wide.

**AMAZING VALUE**  
**\$4.95**

- D1457. Adapter as described, less Microphone. Models available for any make Single or Double Button Microphone. (State if a 100 ohm or 200 ohm per button type is to be used!) \$4.95
- D1458. Complete as illustrated. Includes a High Sensitivity Kellogg Hand Microphone ..... \$6.95

Ready for Immediate Operation

**RACON 30 WATT DYNAMIC  
ORN UNITS AND TRUMPETS**

Units Can Be Furnished With Choice of 6 volt D.C. Fields, OR, With 1000, 2500 or 3000 Ohm Fields—Any number of the 1000-2500-3000 ohm models may procure field excitation current from COAST-TO-COAST P. A. Amplifiers. These units are of the very latest design, known as Type "B"—will handle CONSTANT outputs of watts each, and peak loads up to 60 watts. Voice coils are 15 ohms—fields connect 1.1 ampere.

191. JUNIOR Type "B" UNIT ..... **\$19.11**

189. SUPER-GIANT Type "B" UNIT \$35.28

190. MASTER Type "B" UNIT.... \$23.52

handles 10 to 15 watts continuously—peak loads of 30 watts.)

**NEW DESIGN RACON TRUMPETS  
STORM-PROOF MODELS—FOR  
OUTDOOR USE**

193. 3 1/2 FOOT ..... \$23.42

194. 6 FOOT ..... \$38.22

**REMINGTON  
Automobile Fan-Belt Driven  
110 Volt A.C. GENERATOR**

Designed for Use With P. A. Amplifier Systems in Autos and Sound Trucks

Can Be Attached To the Frame of Any Car Engine—Requires No Connection To Storage Battery! Ideal For Autos, Trucks, Buses, Boats, Etc.

Can be installed in any car in surprisingly little time—the pulley on this generator is coupled to your fan belt, or water pump, etc., by means of a simple leather belt! Produces 110 volts A.C. in wattages as shown below. Ruggedly constructed—fool-proof performance assured. Can operate any electrical device requiring 110 volts A.C. Furnished complete with armored cables, mounting brackets, and dual outlet box. Actually converts lost mechanical energy of a running car motor into 110 Volts A.C. . . . NO UPKEEP COST INVOLVED . . . no storage battery connections or consequent re-charging required!

This Device Is Ideal for Use With Any Amplifier System Listed in This Catalog!

- D3195. 50 WATT OUTPUT, 110 Volt A.C. \$33.00
- D3246. 100 WATT OUTPUT, 110 Volt A.C. \$39.85
- D3197. 150 WATT OUTPUT, 110 Volt A.C. \$48.50
- D3198. 250 WATT OUTPUT, 110 Volt A.C. \$60.70
- D3199. 350 WATT OUTPUT, 110 Volt A.C. \$74.00
- D3200. 500 WATT OUTPUT, 110 Volt A.C. \$105.00

**Janette Rotary Converters**

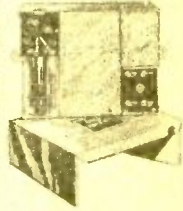


Transforms 12 or 32 volts D.C. to 110 volts A.C. 60 Cycles. 12 Volt Models Can Be Connected To Two Six Volt Storage Batteries and 32 Volt Model To Six 6 Volt Storage Batteries. A Filter is NOT required if a Radio Tuner is NOT EMPLOYED in the P.A. System. These converters are ideal for furnishing A.C. to any COAST-TO-COAST AMPLIFIER SYSTEM listed in this catalog.

Cat. No.	12 Volt D.C. Model		32 Volt D.C. Model	
	AC Output In Watts	Input Amps.	WITH FILTER	LIST PRICE
3201	80	15.0	\$38.22	\$43.00
3202	120	19.5	43.57	48.25
3203	160	22.0	55.86	61.51
3204	300	15.0	\$49.85	\$49.85
3205	400	18.0	66.16	55.75
3206	600	29.0	105.81	91.00

**Nationally Advertised AUTO "B" ELIMINATOR**

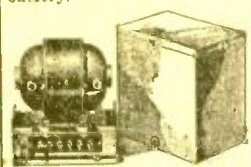
Possesses extremely high efficiency. The Power Efficiency factor is greater than 50%! Easily mounted in any car! Size: 10 1/2 in. x 7 in. x 3 1/2 in. Our price is unusually low—cost but little more than a new set of "B" batteries! Fully guaranteed—you are assured long satisfactory service! Entirely automatic operation and fool-proof performance. Equipped with an RCA 34 HEATER TYPE Rectifier Tube!



- D3053. Input 6 Volts, Output 180 Volts, 49 Mills. **\$8.95**
- D3051. Input 6 Volts, Output 135 Volts, 50 Mills. **Either Model**

**REMINGTON Motor Generator  
Auto Radio Set "B" Supply**

A HIGH EFFICIENCY POWER PLANT for replacing "B" batteries used with Auto Radio Sets and all kinds of battery Receivers. Pays for itself in avoiding replenishing "B" batteries. Operates from an automobile 6-volt storage battery.



Your Cost **\$9.70**

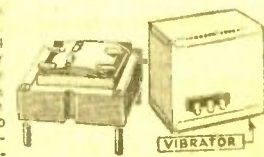
Cat. No.	Output Voltage	M.A. Output		Either Model	
		30 to 50	60 to 100	Tap	Drain
3207	180 to 200	30 to 50	60 to 100	90	1.90
3208	135 to 150	20 to 40	67 1/2	1.1	

Make Your Own

**FULL-WAVE AUTO "B" ELIMINATOR**

With This Transformer Kit

Fool-proof Vibrator unit is fully guaranteed. Requires an 84 type rectifier tube. Produces 180 to 200 volts D.C. 50 mills. Can be connected to any 6 volt storage battery. Instruction sheet furnished shows what few additional filter parts (listed below) are required.

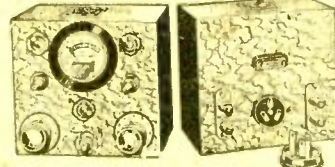


- D3209. Essential Kit, As Illustrated. Consists of a FULL WAVE TRANSFORMER, CUSHION-ENCLOSED VIBRATOR UNIT AND WIRING DIAGRAM. .... **\$3.45**
- D3210. Additional FILTER PARTS, necessary to complete this Auto "B" Eliminator ..... **\$2.45**

**All-Purpose Public Address Amplifier "Mike-Phono-Radio" Control Unit**

Permits Any Volume of Microphone Speech to Be Superimposed Over Phono Record, or Radio Reproduction! Control the Volume of Each One Independently! Ideal for speeches with Musical Background, furnished by either Phono-Records or Radio Tuners!

This instrument has been primarily designed to accurately match the impedance of microphones, phono pick-ups and Radio Tuner Inputs, controlling them individually or simultaneously! For this purpose a 0-25 millimeter air rheostat are inserted into each microphone button circuit. This permits a perfect and equal current and sensitivity adjustment for each side of the microphone. The controls are of the Dual Potentiometer type, and as such, the various circuits do not affect each other. A special phonograph pick-up impedance matched input transformer is self-contained.



FRONT VIEW Note Convenient Grouping of All Controls.

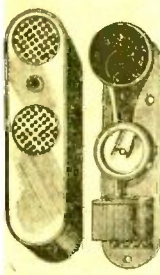
REAR VIEW Note Terminal Provisions for a Pick-up, Microphone, Radio and Output.

All connections are made on the rear of this device—note the 3 way polarized microphone plug and acceptacle arrangement. 6 in. long, 5 1/2 in. wide, 6 in. tall. Handsome black crystalline finish. Takes only a few minutes to install—only two wires need be connected to any amplifier input circuit.

- D3035. .... **\$16.50** (Listed as \$19.50)

Equipped with Input Tone Control. (Specify the impedances of the phone, pickup and of the microphone to be employed.)

**TWO WAY LOUDSPEAKER COMMUNICATION SYSTEM,**



Operation is extremely simple, it being only necessary to press a button and talk into the microphone for the voice to be instantly reproduced in a remotely situated similar unit, clearly and distinctively. Any number of these units may be connected together. Consists of a sensitive microphone and a radio type loud speaker mounted on one panel. The entire unit is housed in a handsome sprayed metal case (illustrated to the left of this device) with protective microphone and speaker grills. Overall dimensions 15 inches high, 4 inches wide, 4 inches deep.

- D1869. Complete Two-Way Installation ..... **\$9.75**

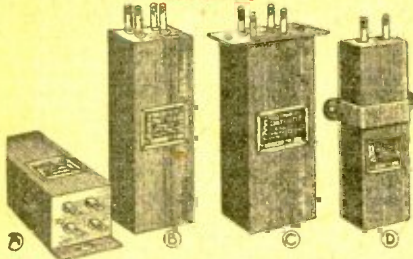
**RCA - Victor "Super-Hat" and R. F. Coil Assortment**

Embracing highly efficient antenna r.f. and oscillator coils designed for all latest types of R.F. Tubes. Many are equipped with high impedance loading coil primaries mounted within the coil forms. All Forms Are Genuine Bakelite and vary in lengths from 2 1/2 in. to 3 1/2 in. Conceded to be the most perfectly designed coils ever manufactured!

D1660  
Per Assortment of 10 Coils **\$1.00**

# 'NATIONALLY' ADVERTISED Dry Electrolytic Condensers

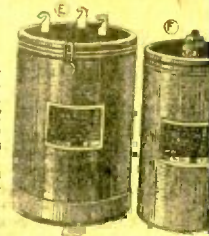
## 500 Volt Peak Single and Multiple Sections



Will actually function under sudden surges of 600 volts . . . should any harm result from such excessive voltage, the nature of the contents is such that a Self-Healing Action follows! Can be mounted in any position. Can be used in any temperature or in any climate—they are not subject to any ill effects due to varying extremes of natural heat and humidity conditions. Unlike most metal cased electrolytic condensers, the outside casing is not electrically a part of the condenser itself—the valuable advantages this offers will be immediately apparent—makes them ideal for mounting on metal chassis! Can be mounted in any angle. All the condensers listed below average 4 1/4 in. length.

## Round Can Multiple Anode Electrolytic Condensers

Excellent for upright mount applications. Absolutely surge-proof and warranted to give continuous satisfaction. Mounting collars are obtainable for 10 cents each and must be specified in your order.



### Round Multiple Anode Sections

Cat. No.	Cap'y Mfd. At Anodes	Can Diam., Ins.	Your Cost
D1785	8-8	2 1/2	\$1.15
D1786	9-9	2 3/4	1.25
D1787	5-15	2 1/2	1.30
D1788	8-18	3	1.65
D1789	18-18	3	2.25
D1790	4-4-4	2 1/2	1.35
D1791	8-8-8	3	1.60
D1792	9-9-18	3	2.30
D1793	8-8-8-8	3 1/4	2.10
D1794	8-8-18-18	3 1/4	3.25
D1795	9-9-18-18	3 1/4	3.25

## Universal Mount Metal and Cardboard Cased Electrolytic Sections

Type "A" features a paraffined cardboard container with protruding mounting strip, which permits a convenient means of fastening this type electrolytic condenser in any position either horizontally or vertically. Type "B" is also

enclosed in cardboard cases and is readily adaptable to any form of fastening, such as the employment of metal, tape, string, wire, etc., form of straps. Type "C" is enclosed within attractive metal cases, equipped with sub-panel mounting flanges, permitting upright mounting.

(The electrolytic condenser content is in no manner connected to the metal casing itself.) Type "D" is unique in that a metal strap permits the fastening of these cardboard-encased units in any position.

### Types "A" and "B" Specify Type When Ordering

Cat. No.	Capacity Mfd.	Size Ins.	Your Cost Each	Size For
D1770	8	1 1/2 x 1 1/2	\$0.49	\$2.80
D1771	4-4	1 1/2 x 1 1/2	.70	4.90
D1772	4-6	1 1/2 x 1 1/2	.80	4.55
D1773	4-8	1 1/2 x 1 1/2	.90	5.10
D1774	6-8	1 1/2 x 1 1/2	.90	5.10
D1775	6-8	1 1/2 x 1 1/2	1.00	5.70
D1776	8-8	1 1/2 x 1 1/2	1.05	6.90
D1777	4-4-4	2 1/2 x 1 1/2	1.00	5.70
D1778	6-6-6	2 1/2 x 1 1/2	1.15	6.55
D1779	8-8-8	2 1/2 x 1 1/2	1.40	8.00

### Type "C" Metal Cased

Cat. No.	Capacity Mfd.	Size Ins.	Your Cost Each	Size For
D1780	4-4-4	2 1/2 x 1 1/2	\$1.08	\$6.15
D1781	6-6-6	2 1/2 x 1 1/2	1.30	7.40
D1782	8-8-8	2 1/2 x 1 1/2	1.60	9.00

### Type "D" Equipped With Metal Straps

Cat. No.	Capacity Mfd.	Size Ins.	Your Cost Each	Size For
D1783	4	1 1/2 x 3/4	\$0.36	\$2.05
D1784	8	1 1/2 x 3/4	.43	2.45

## Round and Rectangular Cartridge Electrolytic Condensers



At the prices herewith indicated, you are offered your choice of either Pig-Tail Leaded units (Type "M") or metal strap mount paraffined cartridge condensers (Type "L"). The pig-tails are 2 in. long and heavy tinned for ready soldering on Type "L" unit solder tab terminals are provided. Enclosed within hermetically sealed containers.

### Specify Type When Ordering

Cat. No.	Cap'y Mfd.	Work Volts	Your Cost Each
D1796	5	25	\$0.20
D1797	10	25	.23
D1798	25	25	.25
D1799	50	25	.30
D1801	5	50	.25
D1802	10	50	.30
D1803	25	50	.38
D1804	10	110	.30
D1805	12	175	.46
D1806	1	220	.55
D1807	2	220	.50
D1808	4	220	.65
D1809	1	500	.29
D1810	2	500	.33

### Dual Section Series

D1811	4-4	175	\$0.54
D1812	8-4	175	.59

## Invert Mount 8 Mfd. Electrolytic Condenser

Rated at 500 Volts D.C.



Housed within round aluminum cans fitted with over-size mounting bolts, with appropriate solder lug terminals. Mounts within 3/4 in. diameter holes in chassis. Available with either soldering or polarity indicated insulated leads.

### Specify Type "B" or "I" When Ordering

Cat. No.	Cap'y Mfd.	Size Inches	Your Cost Each	Size For
D1813	8	4 1/2 x 1 1/2	\$0.49	\$2.75

## General Utility Metal Shell By-Pass Condensers



Enclosed within hermetically sealed containers. Conservatively rated. Universal mounting facility.

Cat. No.	Cap'y Mfd.	Working Voltage	Your Cost Each	Size For
D1814	.1	200	\$0.15	\$2.00
D1815	.25	200	.21	2.20
D1816	.5	200	.26	2.86
D1817	1.0	200	.30	3.30
D1818	2.0	200	.54	6.00
D1819	.1	300	.18	1.95
D1820	.25	300	.22	2.40
D1821	.5	300	.29	3.10
D1822	1.0	300	.43	4.78
D1823	.1	400	.20	2.15
D1824	.25	400	.25	2.70
D1825	.5	400	.33	3.60
D1826	1.0	400	.43	4.70

## Tubular Paper Di-Electric Pig-Tail Condensers



Cat. No.	Cap'y	200 Volt	400 Volt	600 Volt
D1231	.01 mfd.	10c	11c	12c
D1232	.02 mfd.	10c	11c	12c
D1233	.05 mfd.	11c	12c	13c
D1234	.1 mfd.	10c	12c	13c
D1235	.25 mfd.	12c	14c	16c
D1236	.5 mfd.	14c	16c	18c
D1237	1.0 mfd.	16c	20c	25c

In Assorted Kits of 50, Deduct 10%

## Polymer 1 Mfd., 300 Volt Filter Condenser



D1580. Each . . . . . 29c  
\$3.00 Per Dozen

Be Sure You Register Your Name On Our PREFERRED MAILING LIST

## "ELIM-STAT" Noise and Interference Eliminator

Adjustable Revolving Action Increases Selectivity of Any Radio Receiver Enormously!

An Extremely Versatile Instrument . . . Serves a Host of Other Valuable Applications! For use as an ANTENNA noise Eliminator or Selectivity Booster, connect this device between the aerial lead-in and the antenna post on any Radio Receiver—convenient spring clips make this installation a matter of a few seconds! Makes possible reception of long distant stations "right through locals." Its construction is such that its use ACTUALLY INCREASES the efficiency of ANY ANTENNA SYSTEM and thereby enormously amplifies the SENSITIVITY of any receiver! Can also be employed as a REMOTE CONTROL VOLUME CONTROL. In that it can be instantly adjusted so as to diminish the radio set volume, if it is desired to "quieten" any part of a program not to your liking! Nothing to get out of order . . . entirely fool-proof! No radio set owner should be without this really valuable device! Length 6 in.

**D3002. Complete with Directions. \$1.00**

## Crosley 5 Mfd. By-Pass Condenser

Thousands more are sold for general use in all receivers! The ready fitted terminal lugs are riveted to a bakelite terminal strip. Buy them by the dozen—you can always use them. They will make money for you!

D1578 .5 Mfd. 200 Volt (Illustrated) . . . . . 17c
In Lots of 12, \$1.80
D1579 .5 Mfd. 400 Volt . . . . . 25c
In Lots of 12, \$2.75

## T. R. F. Lattice-Wound Chokes

Wound on a moisture-proof treated cylinder. Overall dimensions: 1 in. diameter, 3/4 in. high.

D6093, 1. Millihenries. For Short Wave Set Application . . . . . 19c

D6094, 4.25 Millihenries. For General Purpose R. F. Choke . . . . . 19c

D6095, 8.8 Millihenries. For Detector Plate and all Screen Grid Tube Circuits . . . . . 19c

D6096, 22.0 Millihenries. For High Frequency Filter Circuits . . . . . 28c

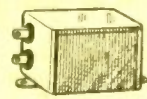
**Victor 800 and 1200 Volt 1-2-3 and 4 Mfd. CONDENSER SECTIONS**



Highest quality obtainable—VICTOR Would Use Nothing But the Very Best! Hermetically sealed within a time resisting moisture proof compound that assures LONG-LIFE SERVICE! Conservatively rated—your satisfaction is warranted. Ideal for every possible application!

	800 Volt	1200 Volt
D1601	1 Mfd. 40c	\$ .75
D1602	2 Mfd. 45c	1.10
D1603	3 Mfd. 50c	1.30
D1604	4 Mfd. 65c	1.75

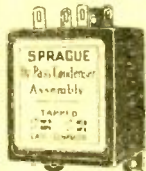
**Crosley Dual-One Mfd. (2 Mfd.) 400 Volt Metal Cased Condenser**



Conventional size—ideal for all-purpose installation! Contains two 1 mfd. sections, making a total of 2 mfd. Case is common.

D1581. **39c**  
Per Dozen, \$4.25

**Sprague Four-Section R. F. By-Pass Condenser Block**



Contains following sections: .5 mfd., .5 mfd., .1 mfd., 1 mfd. (Case is Common) 1 1/2 x 2 1/2 x 1 1/2 in. Ideal for general replacement.

D1582. **39c**  
Six for \$2.00

**Multiple Cartridge By-Pass Condensers**



A compact tubular condenser containing four non-inductively wound 400 Volt sections. Thoroughly impregnated and sealed in round fibre tubes. Equipped with two convenient insulated mounting terminals, 1 1/4 in. x 2 1/4 in.

D1758. 1, 1, 1, 1 Mfd.	<b>35c</b>
D1759. .25, 1, 1, 1 Mfd.	<b>40c</b>
D1760. .25, .25, 1, 1 Mfd.	<b>45c</b>

**Triple Section R. F. By-Pass Unit**



Contains three .1 sections, making this a very useful item to have around the workshop! 1 1/2 in. x 1 1/2 in. x 7/8 in.

D1581. **25c**  
Per Dozen, \$2.75

**You Need This By-Pass Kit! Assorted By-Pass Condensers**



These kits contain one or several each of various sizes, and shapes of the most vitally needed by-pass condensers, ranging from .1 to 2 mfd., with D.C. working voltages ranging from 200 to 600

voltage. The manufacturers are any of the following: Polymet, Aerovox, Inrad, East, Tappan and Foster, Brown & Caine, Dublin.  
D1585. Kit of 12 Assorted. **\$2.75**  
D1586. Kit of 24 Assorted. **\$4.75**

**Steel Core Copper Multi-Stranded Drum Dial Cable**

D1627. 100 ft. ....	<b>\$1.00</b>
D1628. 500 ft. ....	<b>\$2.75</b>

**Majestic (and R.C.A.) Drum Dial Cables**

D1050. Per Dozen. ....	<b>45c</b>
Per 100, \$2.95	

**Elkon 2 1/2 Amp. Rectifier**

21 plates, 22 discs. Overall length 4 1/4 in. Ideal for ALL "A" Eliminators, Trickle Chargers, Dynamic Speaker Rectifiers, etc.  
D1658. **\$1.95**

**Polymet Moulded Bakelite Mica By-Pass Condenser Assortment**



Contains 36 condensers, in the following assortment:  
3—.001 mfd. 10—.00025 mfd. 6—.0005 mfd. 10—.001 mfd. 5—.0025 mfd. 2—.006 mfd.

D2438. **\$2.85**  
Price

D2439. Assorted Kit of 10 Condensers. **95c**

**Electrolytic "A" Condensers**

Ideal for replacement in all "A" eliminators and with A.C. dynamic speakers. Maximum voltage 12 D.C. 4 1/2 in. long, 1 1/4 in. thick, 1 1/2 in. high.  
D351. 2000 Mfd. **\$1.45**  
3 for \$3.95



**Elkon 3000 Mfd. Dry Electrolytic Condenser**

Ideal for All "A" Eliminators and A. C. Dynamic Speakers—As Hum Eliminators!

4 1/2 in. thick, 2 in. wide, 2 in. deep.  
D5193. Type "E". **\$1.25**

**Triple Utility By-Pass Condenser**

5—5—5 Mfd. Rated at 300 Volts. Equipped with a single common terminal, insulated from drawn-shell case. 1 in. x 1 1/4 in. x 1 1/4 in.

D1757. **68c**  
Six for \$3.65

**General Electric 3 Microfarad Condenser**

Furnished with heavy gauge stranded wire, with fabric and rubber covered insulation. 5 in. long, 2 1/4 in. wide, 7/8 in. thick. Note convenient mounting feet.

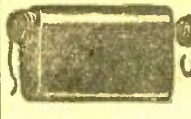
D3469. **45c**  
Per Dozen, \$4.95

**Sparton Tubular By-Pass Condensers**

Rated at 400 Volts. Available in the following capacities:  
D1756. .25 Mfd. each. **32c**  
1. Mfd.

**Featherweight Head-Phones**

2000 Ohms. Excellent for Short Wave Fans.  
D1238. **99c**



**RCA 400 and 600 Volt Filter Condenser Sections**

Thoroughly impregnated. Equipped with long flexible leads.

D1189—2 Mfd. ....	400 Volt	600 Volt
D1190—3 Mfd. ....	25c	28c
D1191—4 Mfd. ....	30c	33c
	35c	38c

**Victor .1 Mfd. By-Pass Condenser**

Equipped with long flexible leads, and crimping lugs. Only 2 1/2 in. long, 1 1/4 in. wide, 1 1/2 in. high.

D1765. **15c**  
In Lots of 12, \$1.60

**Victor Triple By-Pass Condenser**

Contains: 1—.1—1—.125 Mfd. For RE 32, 45, 62, 75 Receivers. Compact enough to warrant installation in any R.F. Circuit. 2 1/4 in. x 1 1/2 in. x 1 1/2 in.  
D3457. **45c**  
In Lots of 12, \$4.80

**Aerovox Triple .1 Mfd. By-Pass Condenser—300 Volt**

Popular for general replacement applications.  
D1583. **25c**  
Per Dozen, \$2.75

**Quadruple By-Pass RCA Condenser Unit**

Contains 3 one-tenth microfarad condensers and one one-half microfarad condenser. Sealed in wax in a metal container, absolutely moisture and damp proof.

D9378. **18c**  
Per Dozen, \$1.80

**Speaker Filter By-Pass Condenser Block for Atwater Kent**

Models 37, 38, 40, 42, 44, 46  
D5138. **60c**  
D1769. Three Section Block. **70c**

**Arcturus-Globe, Sparton, Etc., Radio Tubes**

Globe 227 Tubes Manufactured by Cecol  
D1187. Per Dozen **\$1.20**  
D1188. Per 50 Tubes **\$4.50**

Genuine Kardon (Sparton) 484 Tubes  
D1662. Each **49c**  
\$5.00 Per Dozen

Arcturus 28, 48, Sonora RA-1 15 Volt A.C. Tubes  
For all Freshmen, Sonora, Polydyne, etc., Sets.  
D1792. **49c**  
Per Dozen, \$5.00

Globe 250 or 281 Tubes Manufactured by Cecol  
D1199. Your Choice **\$1.25**  
In Lots of Six, \$6.25

**Bakelite 4-5-6-7 Prong Cable Plugs**



Fit any tube socket. Equipped with detachable plug feature. Overall length 3 1/4 in., and diameter 1 1/8 in.

- D1210. 4 Prong... **25c**
- D1211. 5 Prong... **26c**
- D1212. 6 Prong... **29c**
- D1213. 7 Prong... **49c**

**Plug Base**

One Piece Speaker Plugs. Same plug as contained on above complete illustrated plug.



- D1197. 4 Prong
  - D1198. 5 Prong
  - D1499. 6 Prong
  - D1501. 7 Prong
- 8c** Each

90c Per Dozen

**4-5-6-7 Prong Bakelite Speaker, Etc., Plugs**

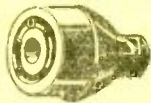


Fit Any Standard Tube Sockets  
D1194  
State Number of Prongs Desired

\$1.50 Per Dozen **14c**

**Extension Connector Female Plug**

Fits D1194 Male Plugs Listed Above



Removable threaded bakelite cap and bakelite socket, with protruding contact lugs, to which are soldered conductor cable leads.

- D3758. 4 Prong... **24c**
- D5757. 5 Prong... **29c**
- D1690. 6 Prong... **29c**
- D1691. 7 Prong... **29c**

**Hart & Hegeman "On-Off" Toggle Switch**



Popular the world over. Anchored (8 inches long)

flexible and tinned leads. Heavy duty—rated at 3 Amps, 250 Volt, 9 Amps. at 110 Volt! 1 inch long, 3/8 inch length threaded shank.

- D1813. **15c**

Per Dozen, \$1.50

**4 and 5 Prong Bakelite Tube Base Forms**

Overall diameter: 1 1/8 in.; length of bakelite form, 1 1/4 in. Brand new—never used



- C1491. 4 Prong
  - C1495. 5 Prong
- Each... **10c**

Per Dozen, \$1.00

**Eby Twin Jacks**



D1175. "Phono"  
D1176. "Speaker"

**4c** Each

Per 100, \$2.95

**Combination Triple Utility Binding Post and Jack and Special Connectors**



May be used wherever binding posts or jacks are now employed. Ideal for use with all test and measuring instruments, or distributing systems where rapid changes of test leads or lines, equipped with different color scheme plugs, are required. Ingenious constructional features permit the connecting of any one or all of the following type terminal plugs to the master binding post: Double Spring Plugs (A), Phone Tip Plugs (B), Spade Tip Plugs (C), and Solderless Plugs. A non-removable and non-breakable insulated head prevents accidental contact with high voltages. 1 1/2 in. high, 1/2 in. diameter

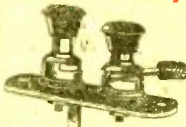
All the connectors listed below are available in any one of the following colors: Red, Black, Blue, Violet, Green, White, and Yellow.

- D1682. Binding Post, Each... **30c**
- D1681. Type "A" Double Spring Plug, Each... **15c**
- D1685. Type "B" Phone Tip Plug, Each... **15c**
- D1686. Type "C" Spade Tip Plug, Each... **15c**

In Lots of 12, Deduct 20% Discount.

**Push-Button Assembly**

Just press the button and insert wire. A firm, perfect contact is established! No threading. Completely equipped with soldering lugs—one grounded to chassis, the other ready for wiring.



- D3282. **19c**

In Lots of 12, \$2.00

**Push-Button Binding Post**



- D3283. **9c**

In Lots of 12, 95c

**Assorted EBY Bored Posts**



Non-removable heads. No selection of sizes allowed.

- D1609. Per Dozen... **50c**

50 Assorted for \$1.50

**"Press-Down" Posts**



Electrically and mechanically perfect! Universal application! Ideal for test equipment—permits rapid connections. Easily insulated, from metal chassis, if desired, 3/8 inch height above base surface.

- D1610. Each... **5c**

50c Per Dozen, 90c Per 25

**Eby Twin-Posts**

Two Eby non-removable binding posts, bakelite molded in brown composition and mounted on a bakelite strip. The antenna post is insulated from metal panels.



- D1596. Marked Field... **9c**
- D1597. Marked "Ant.-Gnd."... **9c**

Per Dozen, 95c

**Polarized—Positive Contact**



- D1692. Four Prong... **15c**
- D1693. Five Prong... **16c**
- D1694. Six Prong... **18c**
- D1695. Seven Prong... **20c**
- D1696. Eight Prong... **20c**

**Shaft Couplings**

Available in Bakelite or brass tubes, 3/8 inch long, equipped with two sets of screws, for coupling two or more condensers, rheostats, etc., or for insulating and extending shafts therefrom. Specify Bakelite or Brass when ordering.



- D1687. 1/4" coupler
  - D1688. 3/8" coupler
  - D1689. 1/2" to 3/4" coupler
- 15c** Each

Per Dozen, \$1.50

**1 lb. Ass'd Screws, Lugs, Nuts, Metal and Insulated Washers**



Every conceivable size, length, thread and shape, of bakelite, brass, metal and nickel plated part is included. 2 1/2 in. x 2 1/2 in. x 2 in.

- D1255. **29c**

5 Cartons for \$1.35

**Fibre Tubing**



- D1214. 1/8 inch O. D. 3/8 inch inside diameter. 24 inches long... **35c**

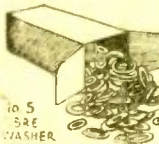
**Solid Bakelite Rod**

- D1245. 3/8 inch diameter, 12 inches long... **35c**

In Lots of 12 Lengths, \$3.75

**Insulated Washers**

Contains most every conceivable type, size, and shape of washer. Some have shoulders, for use in holes in metal panels. Very well assorted—ideal for the experimenter and serviceman.



- D1705. Per 100 Assorted Pieces... **25c**

**Multiple Extension Plugs**

Neat looking cap allows for easy, simple assembling. Female plugs have "floating" contacts. These bakelite plugs will solve your microphone, speaker extension and power supply hook up problems. Parts unit measures 1 in. high, 1 1/2 in. O. D.

- D1697. Four Prong... **18c**
- D1698. Five Prong... **18c**
- D1699. Six Prong... **18c**
- D1703. Seven Prong... **20c**
- D1704. Eight Prong... **24c**

**S. P. D. T. and D. P. D. T. Hart & Hegeman Switches**



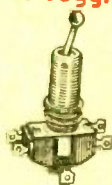
Ideal for Set Tester Equipment, Public Address Control Boards, and a Host of Other Valuable Purposes!

Overall length, only 1 1/2 in.; extends one in. behind a panel! Remarkably compact!

- D1116. Single Pole Double Throw... **21c**
- D1117. Double Pole Double Throw... **45c**

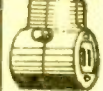
**Long Shank S. P. D. T. and D. P. D. T. Toggle Switches**

1 1/2 in. long threaded shank. Ideal as Phono-Radio, "Hi-Lo," Set Tester switch, etc.



- D6801. Single Pole Single Throw... **29c**
- D1682. Double Pole Double Throw... **59c**

**C-H Feed-Thru Switch With Two Female Receptacles**



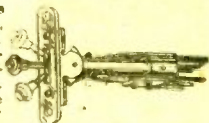
Makes and breaks circuit between two dual conductor cables. Colored identification button.

- D1502. **19c**

Per Dozen, \$1.75

**Combination Single Pole Double Throw and Single Pole, Single Throw Roller Cam Jack Switch**

Positive cam action, controlled by appropriate double springs. Note the mounting plate and three distinctive setting of control knob. Extends 3 1/4 in. behind panel. Complete with bronze finished knob and mounting plate.



- D1516. **39c**

Six for \$1.95

**H & H "On-Off" Snap Switch**



Lever protrudes 1 1/2 in. above plate. "On" and "Off" are attractively engraved into the beautiful beauty-plate, which measures 2 1/4 in. by 1 1/2 in. Rated: 3 amps., 250 volts; 5 amps., 125 volts

- D1612. **12c**

In Lots of 12, \$1.20

### All-Purpose Neutralizing Tool



Complete with socket wrenches, screw driver and vest pocket tip.

D1101..... **39c**

Per Dozen, \$4.50

### Heavy Duty—Laboratory Model Test Leads




Not to be confused with commonly offered test leads. Extreme satisfaction warranted. Choice of Removable Phone, Needle Chuck Prod or Regular Prod.

D1130. Per pair, with SPADE TERMINALS... **49c**

D1131. Per pair, with TIP TERMINALS.....

Per Dozen, \$5.00

### 2A5 and 2A3 Adapters



Permits use of HIGH GAIN HUM-FREE HEATER PENTODE 2A5 Tube in any socket now using either a 2A5 or 2A7 Tube.

D3076. From 2A5 to 2A5... 75c

D3077. From 2A7 to 2A5... 85c

D3078. From 2A7 to 2A3... 70c

### Adjustable Metal, Bakelite or Wood Circle Cutter



Ideal for Cutting Out Socket and Meter Holes, Etc.

Cuts holes from 1/4 in. to 4 in. in diameter. Can be used in any hand brace, breast drill or power machine. Drills its own pilot hole.

D1156..... **\$1.10**

### Non-Adjustable Circular Saw Cutters



Choice of Squared or Round Shank

D5771. 1 1/2 in. Diam. For Wafer Sockets... **\$3.95**

D7167. For 2 1/2 in. Diam. For Weston or Readrite Panel Meters... **\$4.95**

### I.C.A. De luxe Carbon Microphone




A genuine, amazingly efficient single button microphone, equipped with an ON-OFF button switch. Solidly constructed, white cast metal, neatly gilt finished. An adapter and a 12 ft. cord furnished permit ready installation to ANY Receiver or Power Amplifier. This is a really fine and decidedly efficient piece of apparatus—do not attempt to judge its superior quality by its seemingly ridiculously low price!

D1285

**65**

Matched "Mike" Input Transf..... **55c**

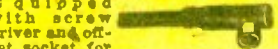
### Improved Model Neutralizing Tool



5-In-1 Design. Endorsed by professionals and all laboratories. Complete with additional Regulation Size screwdriver chuck and protective sheath feature.

D1648..... **69c**

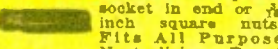
### Majestic Attachment



Equipped with screw driver and offset socket for 1/4 inch hexagon nuts. Fits No. D-1101 and extends tool handle 1 1/2 inches. Overall length 2 1/2 inches.

D-1704..... **32c**


### Crosley Attachment



Provided with special socket in end or 1/4 inch square nuts. Fits All Purpose Neutralizing Tool (No. D-1101) and extends tool 1 1/2 inches.

D-1707..... **11c**


### Insulated "Vest-Pocket" Screw Driver



Insulated cap protects pocket. Ribbed insulated body, 4 1/2 in. long. Case hardened bit is removable from special chuck housing. Swivel finger cap. Furnished with vest pocket clip.

D3079..... **50c**

### Duplex 6/32 and 8/32 Nut Wrench



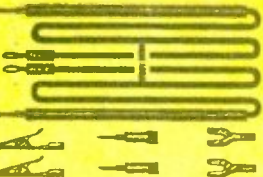
Ideal for Use as a Neutralizing Tool

Made of a durable non-conducting fine quality material designed to stand rough usage. Equipped with two hexagonal sockets for 6/32 and 8/32 nuts. Conveniently carried in vest pocket.

D1708..... **19c**

Per Dozen, \$1.96

### 4-In-1 Prod Equipped UNIVERSAL TEST LEAD



Ideal for Use with Our D1683 Multi-Purpose Binding Post

Spring prongs at the end of prods allows changing from spade lugs to phone tips or to spring clips. Tight and sturdy connection at all times. Needle point phone tips are used for piercing through insulated wire for good contact; body of tips act as standard tip for use in phone tip jacks. Equipped with 5 ft. black and red flexible wire. Comes complete with two Alligator Clips, two needle point Phone Tips, and two spade lugs.

D1718..... **79c**

### Heavy Duty Two Tip Electric Solder Irons



Supplied with 6 feet of black cord, 2-piece attachment plug, black enameled handle, highly-nickelated tube, and large copper tips. Length 13 inches. Weight 11 ounces.

D1183. Rating: **69c**

50 Watts.....

D1648. Rating: **\$1.15**

75 Watts.....

D1649. Rating: **\$1.95**

100 Watts.....

### Rosin Core Solder



D1169. Per Generous Portion Can **15c**

Per Dozen Cans, as Illustrated, **\$1.18**

D1170. One Pound Spool..... **37c**

### "Ready-Change" Universal Purpose TEST KIT



Equipped With INTERCHANGEABLE Highly Insulated Plugs and Jacks! Ideal for D1683 Prods!

Excellent for making quick and fool-proof connections in conjunction with all TEST Instruments. The banana spring chucks fit snugly into corresponding female jacks, making possible any combination of alligator clip, needle point and spade end terminal connections, fitted to the two long (4 in.), the two medium (3 1/2 in.) and the two short (1 1/2 in.) TEST PRODS. All cables are connected to all of these units in a SOLID-LESS MANNER, by virtue of a clever screw arrangement. All units are furnished in pairs and are colored RED and BLACK!

Complete Kit includes: 6 Test Prods., 2 Alligator Clips, 2 Spade Terminals, Two NEEDLE POINT Test Prods., and Two Jacks.

D13080. Complete Kit..... **\$1.50**

### Electrically and Mechanically Perfect SPECIAL ALLOY UNDRILLED CHASSES



Highly Cadmium Plated

Fabricated of a metal superior to both steel and aluminum, as commonly employed. Unlike aluminum, it will not corrode, and can be soldered to like brass, copper or steel. Can be drilled with no trouble. No. 16 gauge thickness. Dull Silver Finish.

D1713. 10 in. x 12 in. x 3 in. \$1.65

D1714. 10 in. x 18 in. x 3 in. \$1.95

D1715. 12 in. x 18 in. x 3 in. \$2.75

D1716. 10 in. x 24 in. x 3 in. \$2.45

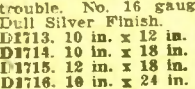
### Heavily Insulated Heavy Duty 5 ft. Dual Conductor Cable and Rubberized Taper Grip Male Plug



D1503 **25c**

Per Dozen, \$2.40

### Undrilled Cadmium Plated Chassis



Made of 1/8 in. thick steel, affording high rigidity. Ideal for universal construction applications. Can be neatly drilled and soldered.

D1193. 10 in. wide, 12 in. long, 3 1/2 in. tall..... **79c**

D1114. 10 in. wide, 18 in. long, 3 1/2 in. tall..... **89c**

D1717. 12 in. wide, 18 in. long, 3 1/2 in. tall..... **\$1.95**

### Transformer Compound and Condenser Wax



Can be melted very easily in an ordinary kitchen pot or can over a gas stove. A Serviceman's necessity.

TRANSFORMER COMPOUND

D1642. 5 lb. Container..... **60c**


D1643. 10 lb. Container..... **95c**

CONDENSER WAX

D1644. 5 lb. Container..... **85c**

D1645. 10 lb. Container..... **\$1.25**

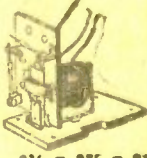
### 4 Relay Remote Control Unit



Two of the relays operate a double pole double throw set of contact arms. The other two relays control a set of double pole—single throw contact arms. Equipped with wire, 45 in. cable and terminal block. Size of bakelite mounting plate: 3 1/4 in. x 7 1/4 in.

D1631..... **\$2.95**

### Triple Relay



A 2-Volt circuit actuates a single pole double throw and a single pole single throw set of contact arms. Provided also with single pole double throw line relay. 3 1/4 x 2 1/4 x 2 1/4 inches.

D1650..... **95c**

### Handy Radio Nut Wrench Set



High grade steel with case hardened, removable "chuck type" sockets. Hollow handle holds screw driver socket and 5 wrench sockets, size 1/4 in., 5/16 in., 3/8 in., 1/2 in., and general use set. Handle and shank are 7 1/2 in. long providing a good gripping surface and is finished in white nickel.

D1177..... **49c**

Keep These Assortments On Hand to Meet Every Emergency!

"ONE-HUNDRED" 4-5-6-7 PRONG  
WAFFER SOCKET ASSORTMENT



**95c** Per Assortment of 100 Sockets

Included in this well appointed assortment are sockets manufactured by such houses as RCA, Cinch, Eby, Alden, etc. Your satisfaction is warranted. May be used with latest tubes such as 59, 89, 87, 25Z5, etc.

500 Assorted for \$4.25  
1000 Assorted for \$7.50

"ALL-PURPOSE" VARIABLE TAPPED  
VOLTAGE DIVIDER ASSORTMENTS



Per Ass't. of 12 Resistors... **\$1.00**

Included in this assortment you may find various types, sizes and styles of single and multi-tapped 10 to 100 watt voltage dividers for some of the following receivers: RCA-Kolster, Stromberg-Carlson, Victor, Zenith, Peerless, Majestic, Philco, Silver - Marshall, Edison, Freed, Freshman, etc., etc. All guaranteed perfect. — sizes range from 10 to 250,000 ohms.

"Na-Ald—Alden Bakelite General Purpose Sockets



Provided with knurled nut binding posts for convenient connections. Excellent for regular as well as experimental work. Made of molded Bakelite through-out with phosphor bronze contact springs. Knurled nickel binding post terminals and lugs.

Made of molded Bakelite through-out with phosphor bronze contact springs. Knurled nickel binding post terminals and lugs.

Color of Spot

- D1504. 4 prong—Red... **16c**
- D1505. 5 prong—Green... **22c**
- D1506. 6 prong—Blue... **22c**
- D1507. 7 prong—Orange...

Universal Panel Mount Sockets

Genuine molded Bakelite with phosphor bronze spring contacts. For mounting either above or below sub-panel. Equipped with insulated mounting flanges and holes. Convenient solder lug terminals. Mounting holes 1 1/2 in. centers, panel hole 1 3/4 in. diameter.



- D1508. 4 prong... **22c**
- D1509. 5 prong... **22c**
- D1510. 6 prong... **29c**
- D1511. 7 prong... **29c**

Bakelite Button Socket

Used for sub-panel connections and for making special adapters. Fits into tube bases 1 1/4 in. diameter, 5/8 in. high. Holes for mounting socket can all be drilled with hand drill. Hole in center for No. 6 screw. Socket itself mounts flush against the top surface of a meter panel or chassis.

- D1512. 4 prong—Red... **16c**
- D1513. 5 prong—Green... **22c**
- D1514. 6 prong—Blue... **22c**
- D1515. 7 prong—Orange...

Handy Knob Assortment



Consists of All-Bakelite, Wooden Celluloid Top, Metal Placed, Enbossed, and odd shaped knobs, in all sizes. All are equipped with standard 1/4 inch diameter shaft holes, and set screws.

- D1618. 12 Ass't'd Knobs... **59c**
- D1619. 24 Ass't'd Knobs... **\$1.05**

Universal 4 - 5 - 6 Prong Socket, 3 Sockets in One!



Its placement of 9 holes permits all types of tubes to be tested or used in this one socket. The filament holes are common to all types; the cathode, plate, grid and suppressor holes are individual for each type. Can be mounted in a 1 1/4 in. diameter cut-out socket hole above or below panel! Solid bakelite moulded — vari-colored identification feature incorporated. Ideal for modernizing old tube testers to eliminate the use of additional adapters.

- D1493. Price... **35c**

RCA-Victor 4,325 Ohm Tapped Voltage Divider



For Victor RE 32-45-75 Sets 1975, 1350, 200, 300 ohms, 75 watts 6 1/2 in., 3/4 in. diameter. **35c**  
12 for \$3.60

Nationally Advertised R.M.A. Color-Coded "Pig-Tail" Resistors



Available in values ranging from 100 ohms to 10 megohms. If definite value resistors are desired, please mention them. (Note: Our kits contain a well appointed assortment... excellent for GENERAL REPLACEMENT work.)

1-2 and 3 Watt Types Available in the Following Resistance Values:

Ohms.	Ohms.	Ohms.	Megohms
100	2,500	30,000	1 meg.
150	3,000	40,000	1 1/2 meg.
250	4,000	50,000	2 meg.
400	5,000	60,000	3 meg.
500	6,000	75,000	10 meg.
500	8,000	100,000	
800	10,000	125,000	
1,000	15,000	250,000	
1,500	20,000	500,000	
2,000	25,000	750,000	

ONE WATT **8c**  
Ass't'd Kit of 24, \$1.75

TWO WATT **15c**  
Ass't'd Kit of 24, \$3.15

THREE WATT **19c**  
Ass't'd Kit of 24, \$3.95

**FREE OFFER!**  
With each Kit order, we will include FREE a R.M.A. Color Code Chart!

"Surplus - Low - Priced" Carbon Pigtail Resistor Kits

These kits are well appointed from huge barrels into which have been placed resistors ranging in value from 100 ohms clear up to 10 megohms, containing every possible resistance value between.

- D1625. Ass't'd Kit of 50 Resistors... **\$2.45**
- D1626. Ass't'd Kit of 100 Resistors... **\$4.45**

Variable Voltage Divider



Designed for use as replacement in standard receivers as voltage dividers where it is essential to determine the EXACT voltage necessary for the most efficient operation of the tubes, deriving their individual plate voltage from a particular ray. You just vary the movable slider, and tighten the clamp contact when the desired voltage is obtained. **75 WATT RATING.**

Triple Tapped Model  
D2207. Total Resistance 5,000 ohms... **65c**  
D2208. Total Resistance 10,000 ohms... **70c**

Equipped With 4 Variable Tap  
D2208-A. Total Resistance 13,000 ohms... **80c**  
D2209. Total Resistance 15,000 ohms... **85c**  
D2210. Total Resistance 20,000 ohms... **90c**  
D2211. Total Resistance 25,000 ohms... **95c**  
D2212. Total Resistance 31,000 ohms... **\$1.00**

Equipped With 6 Variable Tap  
D2213. Total Resistance 36,000 ohms... **\$1.10**  
D2214. Total Resistance 41,000 ohms... **\$1.20**  
D2215. Total Resistance 45,000 ohms... **\$1.30**  
D2217. Total Resistance 50,000 ohms... **\$1.40**

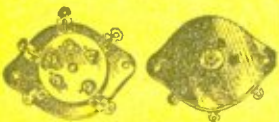
Ward-Leonard 100 Watt - 17.5 Ohm Vitreous Enamelled Resistor



Ideal for Reducing "110 Volt" Line Voltage to Proper Amount

Every set owner is a prospect, due to its value as a Line Voltage Regulator! Can serve many other vital uses! A Giant Resistor measuring 8 1/2 in. long, by 1 1/2 in. diameter. Can carry 2.4 amps. Three of these resistors make an excellent 110 Volt D.C. Storage Battery Charger, or Electric Heater. May be used for automatic control of heat for soldering irons, electric flatirons, curling irons, etc., as per directions furnished. Prolongs the life of solder iron heating elements. **25c**  
D1641... **25c**  
Per Dozen, \$2.50

"Cinch" 4-5-6-7 Prong Wafer Radio Sockets



Top View Bottom View

Phosphor Bronze Contacts—Bakelite Insulation!

Available for ALL FOUR to SEVEN PRONG TYPE TUBES, including the new 59 SEVEN PRONG SERIES, 25Z5, 48, 43, 79, etc. Made of laminated bakelite with one-piece contact terminals, cadmium plated to prevent oxidation.

Choice of 1 1/2 in., 1 5/8 in. and 1 3/4 in. MOUNTING CENTER TYPES

ALL ONE PRICE

- D1192 Each... **5c**
- Per Ass't Lot of 100, \$4.25



**Each or IRC Metalized "Pig-Tail" Resistors**



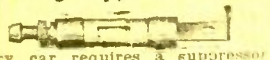
**First Time Offered at These Reduced Prices!**

**Available in Following Values:**

HMS	OHMS	OIHMS
500	10,000	125,000
750	12,000	150,000
1,000	15,000	200,000
2,000	25,000	250,000
3,000	30,000	300,000
4,000	40,000	500,000
5,000	50,000	750,000
6,000	60,000	Choice of
7,000	75,000	1,000,000
8,000	90,000	to
9,000	100,000	10,000,000

437. 1/2 WATT SIZE **12c**  
 Any Ohmage.....  
 350. 1 WATT SIZE **12c**  
 Any Ohmage.....  
 551. 2 WATT SIZE **18c**  
 Any Ohmage.....

**Each Metalized Spark Plug Suppressors**



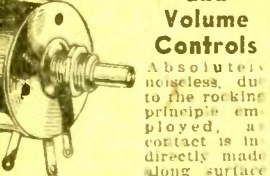
Every car requires a suppressor for each spark-plug, one distributor head suppressor and one generator silencer condenser.

06. Conventional Spark-Plug Model..... **20c**  
 07. Spark-Plug Model—cable type, for etc. etc..... **20c**  
 08. Distributor Head Silencer..... **44c**  
 09. Generator Converter Silencer..... **44c**

**Complete Suppressor Kits**

18. Kit for 4 Cylinder Cars..... **\$1.45**  
 19. Kit for 6 Cylinder Cars..... **\$1.37**  
 20. Kit for 8 Cylinder Cars..... **\$2.30**

**R. L. Potentiometers and Volume Controls**



Absolutely noiseless, due to the rocking principle employed, a contact is in direct contact with the surface of resistance.

CAT. NO.	Resist. Value
82	5,000 Ohms
84	10,000 Ohms
85	25,000 Ohms
86	75,000 Ohms
87	250,000 Ohms

Per choice, each..... **35c**  
 Dozen, \$3.75

**"Radio News" Books**

Radio News Port Wave Manual..... **45c**  
 "Who Trouble der" Amateur Radio News 1001 Questions Answers"..... **45c**  
 4 for \$1.50

**Lynch "Handipak" Resistor Assortments**

Packed ten resistors to a packet.

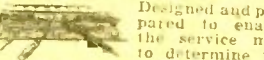
D6438. Handipak No. 1 contains one each ONE WATT Resistors: 500, 1,000, 2,000, 10,000, 20,000, 50,000, 100,000. **\$1.18**

D6439. Handipak No. 2 contains one each ONE WATT Resistors: 250, 400, 5,000, 15,000, 25,000, 40,000, 60,000, 70,000, 200,000 1 Meg. **\$1.18**

D6440. Handipak No. 3 contains one each TWO WATT Resistors: 500, 1,000, 2,000, 2,500, 3,000, 5,000, 10,000, 20,000, 25,000, 60,000 (Ohms). **\$1.77**

Man's Resistor Manual" with Each Obtainable for \$1.00.)

**New Lynch Resistor Value Indicator**



Designed and prepared to enable the service man to determine the exact resistance value of a defective resistor, WITHOUT THE USE OF METERS. Calibrated to cover a range of from 0 to 100,000 ohms. Mounted on a bakelite panel. Equipped with clips for connection to any radio receiver circuit and test prod to regulate resistance.

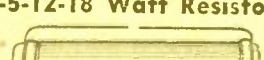
D3085 **\$2.35**

**Victor Tone Control**

Rating: One million ohms. Can be operated by a knob 3/4 in. diam. shaft, 3/8 in. long) or by means of a slot in the shaft head. 1 1/2 in. diameter. 5/8 in. thick. **39c**

D6321 **39c**  
 Per Dozen, \$3.95

**Power Wire-Wound 3-5-12-18 Watt Resistors**



Wound on a porcelain tube with a special high grade resistance wire of low temperature coefficient. Completely coated with a newly developed refractory compound. Resists wear. Provided with parallel terminal leads 2 in. long.

OHMS	OHMS	OHMS	OHMS
1	200	3,000	20,000
5	200	5,000	25,000
10	500	7,500	30,000
25	1,000	10,000	40,000
50	2,000	12,500	50,000
100	2,500	15,000	

**3 Watt Power Resistor**  
 7/8 in. long by 3/8 in. diameter. Range up to 5,000 ohms (see list). **29c**

D1761 **29c**

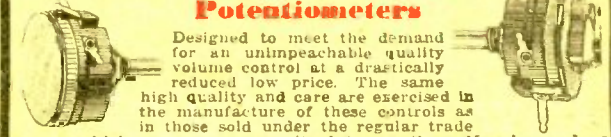
**5 Watt Power Resistor**  
 1 3/4 in. long by 3/8 in. diameter. Range up to 15,000 ohms (see list). **29c**

D1762 **29c**

**12 Watt Power Resistor**  
 2 in. long by 3/8 in. diameter. Range up to 30,000 ohms (see list). **38c**

D1763 **38c**

**NATIONALLY ADVERTISED Volume Controls Potentiometers**



Designed to meet the demand for an unimpeachable quality volume control at a drastically reduced low price. The same high quality and care are exercised in the manufacture of these controls as in those sold under the regular trade name, which we are not permitted to mention. May be used as a general replacement volume control on any A.C. set. Features one hole mount and extra-long insulated shaft. Equipped with three terminals. Housed in dust-proof genuine bakelite cases. Available in the following sizes:

OHMS	OHMS	OHMS	OHMS	OHMS	OHMS
1,000	2,000	3,000	4,000	5,000	10,000
15,000	20,000	25,000	30,000	40,000	50,000
60,000	75,000	100,000	200,000	250,000	500,000

D1107. Your choice, each..... **35c**  
 Per Dozen, \$3.85

NOTE: Any control above listed furnished with SELF-CONTAINED 115 Volt A. C. SWITCH for 13c each additional.

**C. R. L. Dual Range Potentiometers**

Offers many interesting and valuable applications. Very smooth running and noiseless.

D1595, 10,000 and 250,000 Ohms. **35c**

D1765. Dual 200,000 Ohms. **\$1.10**  
 D1766. Dual 250,000 Ohms. **1.35**  
 D1767. Dual 500,000 Ohms. **1.85**

**Multiple-Condenser Tone Control**



Contains within a 1 3/4 in. diameter bakelite chamber. Only 5/8 in. thick. Employs 7 graduated condensers—the contact arm noiselessly glides over them. Capacity ranges from .05 to .006. **45c**

D1280 **45c**  
 Per Dozen, \$4.75

D1593. Equipped with 110 Volt A.C. Snap Switch. **69c**  
 Per Dozen, \$7.20

**Hammarlund Triple Condenser Compensator Unit**

Bakelite strip, 6 3/4 in. long, 3/4 in. wide. Extremely useful. (May be sawed apart). **35c**

D1607 **35c**  
 Per Dozen, \$3.65

**Aluminum Tube Shields**



New Types 56-57-58, etc., Three Piece Ventilated **10c**

D1200 **10c**  
 Per Dozen, \$1.00

**Nationally Advertised VARIABLE CONDENSERS**



Equipped with individual compensators, slit end plates, sturdy shields, 3/8 in. diameter shafts revolving in perfect bearings.

D1768. Two Gang .0014 Mfd. Short Wave Condensers..... **\$1.25**

T. R. F. Models .00036 Mfd.  
 D1605. Two Gang..... **\$1.10**  
 D1110. Three Gang..... **\$1.30**  
 D1111. Four Gang..... **\$1.65**

**Super-Heterodyne Models .00036 Mfd. Equipped with Oscillator Tracker Sections**

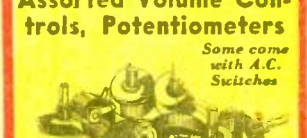
D1112. Three Gang..... **\$1.95**  
 D1113. Four Gang..... **\$2.25**

**Precise Miniature Condensers**

A Laboratory Product: The favorite of all short wave and super-heterodyne set builders, and experimenters. Made entirely of brass.

CAT. NO.	CAPAC. IN P.P.M.	NO. PLATES	PRICE
D3415	10 mmf.	3	\$ .95
D3416	30 mmf.	5	1.04
D3417	55 mmf.	11	1.04
D3418	100 mmf.	19	1.29
D3419	150 mmf.	28	1.55

**Centralab-Carter-Frost Wire Wound and Graphite Assorted Volume Controls, Potentiometers**



Some come with A.C. Switches.

Range: 200 to 500,000 Ohms! In a kit of these controls you will find one to suit the particular circuit requirements of the moment.

D1598. Asst'd Kit of 6..... **\$1.95**  
 D1599. Asst'd Kit of 12..... **\$3.60**

# RCA AND CUNNINGHAM RADIO TUBES

**SPECIFY WHETHER RCA OR CUNNINGHAM TUBES ARE DESIRED**

Dealer's Type Cost	Dealer's Type Cost	Dealer's Type Cost	Dealer's Type Cost	Dealer's Type Cost	Dealer's Type Cost	Dealer's Type Cost	Dealer's Type Cost	Dealer's Type Cost
RCA-1 . . \$ .88	RCA-6D6 \$1.06	RCA-18 . . . .88	RCA-31 \$ .77	RCA-43 \$1.47	RCA-57 . \$ .97	RCA-83 . \$ .91	RCA-21A \$3.36	
RCA-1-V .73	RCA-6Z3 .88	RCA-19 . . . .88	RCA-32 1.12	RCA-44 .88	RCA-58 . .97	RCA-84 . 1.02	RCA-240 1.18	
RCA-2A3 2.35	RCA-6Z4 *	RCA-120 1.77	RCA-33 1.24	RCA-45 .44	RCA-59 . 1.18	RCA-85 . .94	RCA-841 7.65	
RCA-2A5 .94	RCA-10 . . 2.94	RCA-22 . . 1.18	RCA-34 1.27	RCA-46 .91	RCA-71A .44	RCA-89 . 1.06	RCA-842 7.65	
RCA-2A6 .94	WD-11 . . 1.77	RCA-24-A .72	RCA-35 .77	RCA-47 .76	RCA-75 . .94	RCA-90 * .	RCA-864 1.44	
RCA-2A7 1.29	WX-12 . . 1.77	RCA-25Z3 .88	RCA-36 .88	RCA-48 1.76	RCA-77 . 1.06	RCA-92 * .	RCA-866 5.63	
RCA-2B7 1.18	UX-112A .76	RCA-25Z5 1.18	RCA-37 .70	RCA-49 1.00	RCA-78 . 1.06	RCA-120 1.77	RCA-868 5.51	
RCA-5Z3 .88	RCA-12Z3 .88	RCA-26 . . .39	RCA-38 .85	RCA-50 2.35	RCA-79 . 1.53	UV-199 . 1.32	RCA-874 2.88	
RCA-6A4 .94	RCA-12Z5 1.18	RCA-227 .42	RCA-39 .88	RCA-53 1.06	RCA-80 . .42	UX-199 . .88	RCA-876 3.94	
RCA-6A7 1.29	RCA-15 . . 1.67	RCA-29 . . 2.15	RCA-41 .94	RCA-55 .94	RCA-81 2.06	UX-200A 2.35	RCA-886 3.97	
RCA-6B7 1.18	RCA-17 . . 1.18	RCA-30 . . .77	RCA-42 .94	RCA-56 .71	RCA-82 . .70			
RCA-6C6 1.06								

\* Available when released at 40% and 2% from List Price to be announced.

## ARCTURUS, SYLVANIA AND EVEREADY TUBES

When Ordering, Please Specify Make of Tube Required

Type	Your Cost	Type	Your Cost	Type	Your Cost	Type	Your Cost	Type	Your Cost	Type	Your Cost
1-V . . . . .	\$ .79	10 . . . . .	\$2.65	29 . . . . .	\$**	41 . . . . .	\$ .84	55 . . . . .	\$ .85	281 . . . . .	\$1.86
2A3 . . . . .	2.12	112-A . . . .	.69	30 . . . . .	.67	42 . . . . .	.84	56 . . . . .	.64	82 . . . . .	.64
2A5 . . . . .	.85	12Z3 . . . . .	.79	31 . . . . .	.67	43 . . . . .	1.32	57 . . . . .	.87	83 . . . . .	.82
2A7 . . . . .	1.17	12Z5 . . . . .	1.06	32 . . . . .	1.00	44 . . . . .	.79	58 . . . . .	.87	84 . . . . .	.92
2B7 . . . . .	1.07	15 . . . . .	1.51	33 . . . . .	1.12	45 . . . . .	.39	59 . . . . .	1.06	85 . . . . .	.85
5Z3 . . . . .	.80	18 . . . . .	**	34 . . . . .	1.14	46 . . . . .	.82	71-A . . . . .	.39	89 . . . . .	.95
6A4 . . . . .	.85	19 . . . . .	.79	35 . . . . .	.69	47 . . . . .	.69	75 . . . . .	.85	866 . . . . .	3.57
6A7 . . . . .	1.17	24A . . . . .	.65	36 . . . . .	.79	48 . . . . .	1.60	77 . . . . .	.96	11 . . . . .	1.59
6B7 . . . . .	1.07	25Z5 . . . . .	1.07	37 . . . . .	.63	49 . . . . .	.90	78 . . . . .	.96	12 . . . . .	1.59
6C6 . . . . .	.96	226 . . . . .	.35	38 . . . . .	.96	250 . . . . .	2.12	79 . . . . .	1.38	22 . . . . .	1.06
6D6 . . . . .	.96	227 . . . . .	.38	39 . . . . .	.79	53 . . . . .	.96	80 . . . . .	.38	120 . . . . .	1.50
6Z3 . . . . .	.79										
6Z4 . . . . .	**										

\*\* Available When Released, at 40%, 10% and 2% from List Price to be Announced.



D3178 PER COPY  
**25c**  
Twelve for \$2.00

Here is a Vital Necessity in Every Laboratory, Repair Shop and Store:  
**JUST RELEASED . . . COMPILED BY RECOGNIZED AUTHORITIES**

**All About 87 Types of Radio Tubes—Radio Tube Characteristics Chart**  
Including a Valuable Treatise Which Actually Tells You Authoritatively How To Select The Proper Tube For Specific Performance, Purpose and Applications! Socket Connections Layout Chart Included!

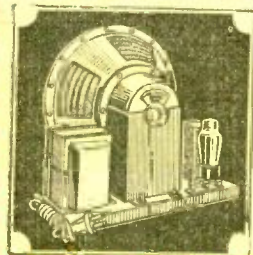
Retvised right up to the very last minute!

—In fact, several tubes are described in detail which have not been formally released as yet. Such late design tubes, 6C6, 6D6, 29, 69, 90, 92, 6A4, 53, 2A3, Etc., Etc., are fully described. All tubes are grouped according to their particular adaptation as either R. F. Amplifiers, Detectors, Bias Detectors, R. F. Converters, Power Amplifiers, Class "B" and Twin Class "B" Amplifiers, Rectifiers, Voltage Doubling Rectifiers, Etc., Etc. The information contained is written in easily understood language—any layman will get a clear picture of the present Radio Tube situation. Four pages, each measuring 8 1/2 x 11 in. Just brimful of VALUABLE INFORMATION!

## Wright De Coster 12 in. "P. A.-Auditorium" Dynamic Speakers

Handles PEAK LOADS of up to 25 WATTS! Equipped With a Dust-Proof Solid

Leather "Spider." Available in A.C. and D.C. Models



**110 Volt A.C. Models**  
Equipped with choice of a 280 or 82 Rectifier Tube. Guaranteed to be entirely free from hum. Maximum electro-magnetic field energization assured by use of a perfect design power transformer and associated components. COMBINATION MODEL is available for DUAL USE—operating from 110 volt A.C. AND FROM a 6 volt storage battery.

Especially designed to handle enormous volume outputs produced by modern advanced design amplifiers—it is safe to employ ONE of these speakers to reproduce the entire load of amplifiers delivering constant outputs of 12 to 18 Watts! Will absolutely NOT BLAST or RATTLE! To insure life-long, trouble-free performance, a solid leather spider perfectly centers the voice coil and at the same time prevents any dust or dirt from entering the gap between the voice coil proper and pole piece. MAXIMUM CONE EXCURSION IS ANOTHER VERY VALUABLE ASSET of this really remarkable speaker! Produces both

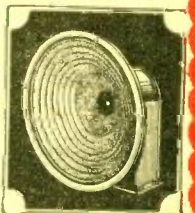
D3161. For 6 Volt D. C. Use  
D3162. Equipped With Choice of 1000, 1800 (tapped at 300) 2500 and 3000 ohm fields. **\$14.75**

D3163. DUAL FIELD MODEL. For 6 Volt D. C. Use, and Choice of Any Other Field Listed Under D3162 **\$18.75**

voice and music in an uncanny realistic and thrilling manner—equal accentuation of all frequencies is assured throughout the entire audio range! The cone itself is ribbed and accordingly provides maximum sound radiation—it is made of chemically treated "BURTEX-CLOTH" substance, and is designed for permanent service. The 8 ohm voice coil diameter is fully 1 1/8 in. and the field coil housing is 4 1/4 in. in diameter! Extends 8 1/4 in. deep—note the convenient mounting stand furnished. An idea as to its over-size proportions may be gained by noting that the D.C. models weigh fully 16 lbs.!

D3164. Same as D3163, But Furnished For 6 Volt D. C. Use and For 110 Volt A. C. Operation. (280 or 82 Rectifier Tube Included) **\$28.75**

D3165. For 110 Volt A. C. Operation Only. Furnished With Choice of a 280 or 82 Rectifier **\$24.75**



**D.C. Models**  
Available with any of the following standard field coil resistance values: 3000, 2500, 1800 (tapped at 300) 1000 ohms and for 6 volt operation. A DUAL FIELD MODEL is also available—ideal for use with a 6 volt storage battery in automobiles and from 110 volt A.C. Powered excitation source!

Above speakers equipped with your choice of output transformer—definitely state power output tubes you employ!

# ONE-DOLLAR-SERIES

## Highest Quality Audio Transformers

ORIGINALLY MANUFACTURED BY



**Servicemen and Set Builders:**  
Employ These High Grade Transformers Exclusively!

These transformers are all designed on a 3/4 in. square core of high Silicon steel. The core is securely held in a rigid steel channel strap. Designed in accordance with the latest technique; they can be depended upon



to give very satisfactory results! The 6 in. leads are made of heavily insulated wire. The coils are scientifically treated to be impervious to all atmospheres—a very valuable and necessary feature. The overall measurements of all the units listed are 3 3/4 in. long, 2 in. wide, 2 in. tall. There is no better quality transformer available!

### Audio and Input Push-Pull Transformers

- D1528. 5 to 1 Audio
- D1529. 3 to 1 Audio
- D1530. 2 to 1 Audio
- D1531. Input Push-Pull
- D1532. Input Push-Pull with Split Secondary
- D1533. Inter-Stage Push-Pull

### Output Transformers

- D1534. From 1-171, 245, 250, etc., to 8-13 ohms Voice Coil
- D1535. From 1-247, 59, 233, 238, etc., to 8-15 ohms Voice Coil
- D1536. From 2-171, 245, 250, etc., to 8-15 ohms Voice Coil
- D1537. From 2-245, 59, 233, 238, etc., to 8-15 ohms Voice Coil

### Phono-Pickup Inputs

- D1538. Low Impedance
- D1539. High Impedance

### Microphone Inputs

- D1540. Single Button—200 ohm
- D1541. Double Button—200 ohm

### Line Transformers

- D1542. 500 ohm line to Grid
- D1543. Plate to 500 ohm Line
- D1544. Control Box to 500 ohm Line

### Filter Choke

- D1555. 30 Henry, 200 ohms, 150 mll

### Philco Audio Transformers

Excellent as Standard replacement units—ideal for sub-panel mounting—note protruding soldering terminals. Fully shielded, 2 3/4 in. high, 2 in. long, 2 in. wide.

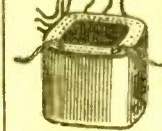
- D1389. Audio Transformer. For models 511-512-521-531 Sets. **\$1.00**

- D1390. Push-Pull Input Transformer. For models 30-76-77-86-87. Sets. **75c**

- D1391. P. P. Input Transformer. For Models 20-20A-70-70A-90-90A-230-230A. **\$1.10**

- D1392. P. P. Output Transformer. For Models 40-41-65-76-77-87-95-96-296. **\$1.15**

### Audio, Input Push-Pull, and Choke Replacement Coils



- D1095. Assorted Audio Coils. All Ratios. **\$2.50** Per Dozen
- D1096. Assorted Input Push-Pull Coils. **25c Each**

- D1097. Assorted Filter Choke Coils. **\$1.95** Per Dozen

### Majestic Audio Transformer Series Replacements

We Can Furnish a Transformer for Every A.C. Set Made by Majestic!

Enclosed in a fully shielded sub-panel style mounting metal case. Ideal for general replacement purposes. Equipped with long flexible leads, each one suitably color coded.

- D1360. Audio Transformer. **Your Choice**
- D1361. Input Push-Pull **85c**
- D1656. Output Push-Pull **85c**

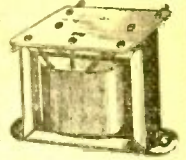


In Lots of Three, \$2.35

### Reversible Mounting Terminal Board Equipped—Audio Transformers

Connections May Be Made to its Terminal Lugs "Above" or "Below" Chassis

7 1/2 in. square core of high Silicon steel, held in a powerful gripping strap. The coils are scientifically treated to be impervious to all atmospheres—a very valuable and necessary feature. The overall measurements of all the units below are 3 3/4 in. long, 2 3/4 in. tall, 2 1/4 in. wide.



### Audio Transformers

- D1482. 3 to 1 All Stage A. F. Transformer. **98c**
- D1483. Input Push-Pull Transformer. **\$1.22**
- D1484. Interstage Push-Pull Transformer, from two plates into two grids. For use between push-pull stages—for all types of tubes. **\$1.45**
- D1485. Output Transformer, from 1-245 or 250, 2-A-3, to 8-15 ohm dynamic speaker voice coil. **\$1.45**
- D1486. Output Transformer from 1-247, 233, 59 (etc.), or 238 to 8-15 ohm dynamic speaker voice coil. **\$1.25**
- D1487. Output Push-Pull Transformer, from push-pull 245, 250, 2-A-3, to 8-15 ohm dynamic speaker voice coil. **\$1.95**
- D1488. Pentode Output Push-Pull Transformer, from push-pull 247, 233, 59 (etc.), or 238 tubes to 8-15 ohm dynamic speaker voice coil. **\$1.45**

### Phono-Pickup and Microphone Input Transformer

- D1489. Choice of 200, 100 or 500 Ohm Phono, Pick-up Input, for low impedance pick-ups. **\$1.75**
- D1490. 3000 Ohms Phono, Pick-up Input, for high impedance pick-ups. **\$1.75**
- D1491. Single Button Microphone Transformer. (State if for 100 or 200 ohm Buttons). **\$1.45**
- D1492. Double Button Microphone (State if for 100 or 200 ohm Buttons!) Transformer. **\$2.45**

### RCA Input and Output Push-Pull Transformers

Used in Radiolas 80, 82, 86. Also Victor R-35, 39, 34 and RE-57

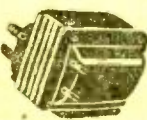
Consists of one input push-pull and one output push-pull transformer assembled in one can. Replacement No. 5554. Voice coil impedance matching secondaries from 8 to 15 ohms. Ideal for general replacement applications. 1 3/4 x 3 1/4 x 2 3/4 in. **\$1.50**



### Crosley Audio Transformers

Completely shielded—remarkably compact. Excellent for all general replacement applications.

- D1655. **35c** Per Dozen, \$3.75



### Crosley Combination 1st A.F. Audio and Push-Pull Input Audio Transf. Unit

For Models 41-A, 42, 704, 706

Similar to Part No. 5315. Note threaded mounting pillars. Can be universally employed. Highly efficient and serves a valued need. 2 1/2 x 1 3/4 x 1 3/4 inches. **\$1.95**

In Lots of Three, \$5.25



### Brunswick Output Push-Pull Transformer

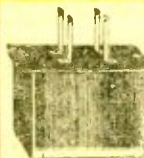
Equipped with Secondary which matches Impedance of Standard Dynamic Speaker Voice Coils. Enclosed in a 2 1/2 inch diameter round can, 3 inches tall.

- D1209. **49c** In Lots of Six, \$2.80



## RCA-Victor P. A. Amplifier Audio Components

The Preferred Choice of the Discriminating Radio Engineer



Designed and employed by RCA-Victor in their world renowned PUBLIC ADDRESS AMPLIFIERS. Enclosed in handsomely duco finished metal jackets of imposing appearance, compound filled—perfectly hermetically sealed. Completely magnetically shielded for additional precaution.

Employs highest grade Silicon steel laminations. Bakelite bottom terminal plate. These De-Luxe design transformers are ideal for sub-chassis mounting and wiring.

- D1571. 3 to 1 Audio Frequency Transformer. **\$1.75**
- D1572. Output Filter Choke, 10 ohms Resistance. **\$2.75**

The above two units are 4 in. long, 2 1/4 in. wide, 3 1/4 in. tall.

- D1573. Input Push-Pull Transformer. **\$2.65**
- D1574. Output Push-Pull Transformer, from 2-250 (or 2-245, etc.) to 10-15 ohm Voice Coils. **\$2.75**
- D1575. Output Transformer, from 1-250 (or 1-245, 1-171, etc.) to 10-15 ohm Voice Coils. **\$1.95**
- D1576. Filter Choke (heavy duty). 1100 ohms, 30 Henry, 60 Mils. **\$1.95**
- D1577. Filter Choke (heavy duty). 200 ohms, 30 Henry, 150 Mils. **\$2.75**

The last five units are 4 1/2 in. long, 2 1/4 in. wide, 3 in. tall.

**Remington Class "A," Class "A"  
Prime, and Class "B" P. A.  
Amplifier Filter Chokes**



**Regulation Characteristics  
Better Than 4 1/2%**  
The reactors listed below represent the highest quality filter chokes obtainable in any price range. All choke coils are thoroughly impregnated and furnished with color-coded flexible leads for ready identification.

**Class "A" Filter Chokes**

Cat. No.	Inductance in Henries	Current in M.A.	Resistance in Ohms	Your Cost
D1850	30	25	800	\$ .79
D1851	40	50	500	.95
D1852	30	150	200	1.25

**Class "A" Prime, "B" Filter Chokes**

D1863*	15	75	100	\$ .85
D1864†	15	200	100	1.65
D1865‡	30	100	500	.95
D1866§	30	150	500	1.25

\*Recommended for first and second "swinging or floating" filter chokes in 3 to 11 Watt Amplifiers.

†Recommended for first and second filter chokes in 20 to 26 Watt Amplifiers.

‡Recommended for second or third filter choke in 3 to 11 Watt Amplifiers.

§Recommended for second or third filter choke in 20 to 26 Watt Amplifiers.

**Remington 26 Watt Class "B"  
P. A. Amplifier Filter Choke**

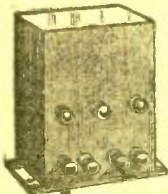
Comprises all the Necessary Class "B" Power Pack Chokes Within One Heavy Gauge Steel Case.



Contains First Brute Filter Choke—100 ohms, 15 Henry, 250 Mils.; Second Filter Choke—200 Ohms, 30 Henry, 130 Mils.; Third Filter Choke—200 Ohms, 30 Henry, 130 Mils. Impregnated in a moisture-proof compound-filled case, 2 1/4 x 5 1/2 x 5 1/2 inches, with mounting holes of 3/8 x 5 inches. Actual Weight: 15 lbs.!

**\$3.25**

**Remington Universal Class "A,"  
"B" and "AAA Prime" Output  
Transformer**



Any tube or tubes in single, "push-pull" or "push-push" (or four tubes in "parallel-push-pull" or "push-push") output stage amplification may be employed in conjunction with any one or several of the following secondary windings: 4,000, 2,000, 500, 350, 200, 100, 15, 8, 4 and 2 ohms. Full information is supplied with this Transformer to enable

anyone to use it in conjunction with 243, 245, 210, 220, 231, 233, 238, 41, 42, 43, 245, 46"A," 46"B," 247, 48, 49"A," 49"B," 250, 59"A," 59"B," 59"P," 171A, 79, 89"A," 89"B," 89"P," etc., Output Tubes. Enclosed in a sturdy metal case, moisture proof impregnated. 3 1/2 x 3 1/2 x 3 in. tall.

**\$9.75**

D3112.....

**Assorted Kenyon, Acme, Pacent,  
Etc., "Mike"-Line, Audio, Phono,  
P.P. Input, Output, Etc., COILS**

These assortments are very valuable inasmuch as these coils can not only serve in a host of experiments but also as an actual REPLACEMENT! They vary in size, with respect to core openings and over-all dimensions, many of them being of generous proportions! Readily adaptable to all forms and shape of laminations. Every coil is COMPLETELY IMPREGNATED against all climatic variations. BIG VALUE!



D3081, Per Dozen **\$2.75**  
Assorted.....

**THORDARSON**



**Giant Size 200 Mil.  
1400 Volt 250 Push-Pull Type Power Transformer**

A Massive Transformer: Shipping Weight 18 lbs. Stands 6 in. Tall!

For 8 (1.75 Amp.) or 14 (1.0 Amp.) 2 1/2 Volt Tubes, 2-250, 2-281 Tubes.

PRIMARY: 120 Volts A.C., 50-60 Cycles.

Tapped at 100 and 110 Volts.

WATTAGE RATING: 375 Watts.  
HIGH VOLTAGE: 700-700 Volts A.C. (no load), 200 Mils. (D.C.).  
650-650 Volts A.C. at full load.

Fil. No. 1: 7.5 Volts A.C., 2.5 Amps, C.T.

Fil. No. 2: 7.5 Volts A.C., 2.5 Amps, C.T.

Fil. No. 3: 2.5 Volts A.C., 14.0 Amps, C.T.

DIMENSIONS: 6 in. tall, 4 1/2 in. long, 4 1/2 in. wide.

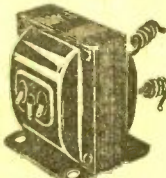
MOUNTING HOLES: 3/4 in. x 3 in.

D1500..... **\$4.75**

D1500A, 25 Cycle Model..... **\$6.75**

**Double 7 1/2 Volt Fil. Transformer**

For 2-250 and 2-281 Tubes.  
2 1/2 x 2 1/2 x 2 in. tall.



D3111..... **95c**

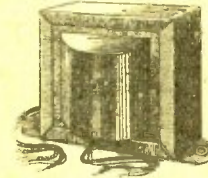
**Standard Fil. Transformers**

D1398. Choice of 2 1/2 Volts, 4.0 Amps., or 1 1/2 Volt, 8 Amps..... **85c**

D1399. Double 2 1/2 Volt A.C. Windings: 2 1/2 Volt, 11.0 Amps., and 2 1/2 Volt, 3.0 Amps..... **\$1.35**

D1400. 1 1/2 Volts, 9.0 Amps.; 2 1/2 Volts, 2.0 Amps.; 5.0 Volts, 2 Amps..... **\$1.65**

**Polymet Replacement Audio —  
Input and Output Push-Pull —  
Phono. Input Series A. F. Trans-  
formers and Chokes**



Designed in accordance with the latest technique; they can be depended upon to give very satisfactory results! The coils are scientifically treated to be impervious to all atmospherics—a very valuable and necessary feature.

D1372. 8 to 1 All-Stage Audio Transformer..... **75c**

D1373. Input Push-Pull..... **90c**

D1374. Inter-Stage Push-Pull..... **90c**

D1375. Output Push-Pull. (With Voice Coil winding 8-15 ohms impedance. State Power Tubes used!)..... **85c**

D1376. Same as Cat. No. D1375 above, but for use with Single Output Tubes..... **75c**

D1377. Phono. Input. (State if high or low impedance pick-up is employed)..... **\$1.00**

D1378. Choice of Single or Double Button Microphone Input Transformer, 200 ohms per button..... **\$1.25**

D1381. 30 Henry, 130 mils, 200 ohms Filter Choke..... **89c**

In Assorted Lots of Six, Deduct 10%

**Guaranteed Replacement  
Power Transformer Coils**



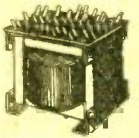
Exact replicas of original power transformer windings made available for dealers and servicemen who prefer to rebuild their defective transformers by removing both the laminations and brackets from the old defective units and assembling new power transformer coils.

Manufacturer	Models	Cat. No.	Year	Cost
APEX	29-31	D1835		\$2.25
EVEREADY	50 Series	D1840		1.95
KOLSTER	K-20-21-22	D1845		1.25
KOLSTER	K-24	D1846		2.50
KOLSTER	K-45-48	D1847		1.85
KOLSTER	B-15-16-10	D1847		1.65
MAJESTIC	61, 6k	D1848		2.50
MAJESTIC	25	D1844		1.98
PHILCO	511	D1841		1.10
PHILCO	20-87	D1842		1.40
PHILCO	65-95	D1843		1.60
RCA-VICTOR	R-5	D1849		1.30
RCA-VICTOR	R-7	D1850		1.35
RCA-VICTOR	R-32	D1851		1.10
RCA-VICTOR	D-42-48	D1852		1.60
SPARTON	59A	D1853		2.68
SPARTON	109	D1854		2.95
SPARTON	AC-7-62-63	D1854		1.85
SPARTON	93-79	D1855		1.95
SPARTON	93-0	D1856		1.40
SPARTON	301	D1857		2.95
SPARTON	931 Series	D1858		2.10
STEWART WARNER	900-950 Series	D1859		2.75

**Special Coils Wound to Order**  
Should you desire any additional or special transformer coils not listed above, send us prepaid either the defective power transformer itself, or the coil only. A sketch showing the outside and inside dimensions of the coil, together with its electrical constants, will also suffice. Special coils are shipped at lowest wholesale prices within 24 hours if your order is accompanied with a deposit of one dollar, balance C. O. D.

**Remington Universal All-Purpose  
Laboratory Power Transformer**

Can be mounted either in horizontal, vertical, or inverted positions. The primary is tapped at 100, 112, and 125 volts, 50-60 cycle A.C. The following high voltages are available: 300, 350, 750, 850, and 550 volts, all being center tapped. The total current carrying capacity of this high voltage winding is 125 mils. The perfect voltage regulation of 6% permits universal use of this transformer in all "Class A," "Class A Prime" and "Class B" audio amplifier power supply circuits. The following additional secondaries are also available: 5 volts, 3 amps., C.T.; 2 1/2 volts, 3 amps., C.T.; 2 1/2 volts, 12 amps., C.T.; 1.5 volts, 30 amps., C.T. Inasmuch as these center taps are made of the same size wire as the rest of the windings, it can carry the same current as the full winding, permitting the use of either the full or half of the voltage produced by the winding. The following additional filament secondaries are not center tapped: 1.5 volts, 6.0 amps.; 5 volts, 8.0 amps. The following additional voltages may also be obtained: 1.25, 2.2, 3.3, 6.3, 7.5, 10 and 13 volts. Can be used with 280, 5Z5, 581, 82, and 83 type rectifiers, etc.



D1867..... **\$12.50**

**Thordarson Heavy Duty 250  
Power Transformer 200 Watt  
150 Mil.**



Operates 5 to 8, 2 1/2 Volt Tubes, 2-250 (or 210) and 2-281.

**SPECIFICATIONS:**  
Primary: 130 volts, A.C., 60 cycles, tapped at 105, and 115 volts. Wattage Rating: 200 watts. Secondaries: High voltage, 650-650, at 150 mils., center tapped. Fil. No. 1: 7.5 volts, 2.5 amps., center tapped. Fil. No. 2: 7.5 volts, 2.5 amps., center tapped. Fil. No. 3: 2.5 volts, 2.5 amps., center tapped. Dimensions: 4 in. x 4 1/4 in. x 5 1/4 in. Shipping Weight: 7 1/2 lbs. Tested at 2500 Volts.

D1028..... **\$2.95**

## RCA 250 P. A. Power Pack Transformer-Condenser Team

### 250 Power Transformer

Furnished in an attractively duced finished, sturdy steel case measuring 6 3/4 x 4 1/2 x 5 in. tall. Note the sub-panel mounting feature and protruding solder lug terminals which are fastened to a durable bakelite terminal plate. This husky transformer weighs fully 1 1/2 lbs. and is also be universally mounted. The heavy winding high voltage secondary is center tapped. Two separate filament windings are provided for 2-281 and 2-250 tubes, as well as another filament winding for low voltage tubes. The primary is tapped at 110 and 125 volts, 50-60 cycles A.C.

**\$3.95**

### 250 Filter Condenser Block

Resembles the general mechanical appearance as the power transformer, illustrated and described on the left. Consists of five extra heavy duty, multi-paper dielectric wound, moisture proof impregnated condenser sections, having the following specifications:

Condenser Section No. 1	4 Mfd.	1500 Volt
Condenser Section No. 2	4 Mfd.	1500 Volt
Condenser Section No. 3	2 Mfd.	600 Volt
Condenser Section No. 4	4 Mfd.	600 Volt
Condenser Section No. 5	4 Mfd.	400 Volt

Weights fully 9 1/2 lbs. 6 3/4 x 4 1/2 x 5 1/2 in. tall.

D1359.....

**\$3.75**

**\$6.25**

If both the Transformer and Condenser Block above described are purchased at one time, the combination is obtainable for.....

### Variable 7 1/2 Volt Fil. Transformer

Furnishes Filament Current for 2-250 and 2-281

By connecting the two separate 7 1/2 volt windings and thereby obtain a heavy duty 15 volt center tapped winding, which is ideal for use in trickle chargers, A.C. Dynamic Speakers, etc. For 110-120 volt, 50-60 cycle A.C. 2 1/2 inches long, 2 1/2 inches high, 2 inches wide.

**85c**

### Universal Set Tester Filament Transformer

With the use of suitable switching arrangements, you can obtain the following voltages: 1 1/2, 2 1/2, 4, 5, 6 1/2, 7 1/2, and 10 volts A.C. The 2 1/2 volt winding is center tapped, and the 7 1/2 volt winding is tapped at 1 1/2 volts. For 110 volts, 50-60 cycles A.C. 4 1/2 in. tall, 2 1/2 in. wide, 3 in. deep.

D1066.....

**\$1.35**

### 2,500 Ohm Filter Choke

If you wish to use a dynamic speaker, tap this choke into circuit where the coil of the D.C. unit was connected, thereby equipping the power pack with the necessary two chokes! 30 Henry, mil. 3 3/4 in. long, 2 1/2 in. wide, 2 1/2 in. high.

**95c**

### S. Radio—Television Heavy Duty Power Transformer

720 Volts—100 Mill

#### SPECIFICATIONS:

Primary: 115 volts, 50-60 Cycles A.C. Equipped with ELECTROSTATIC SHIELD.  
High Voltage: 360-360 Volts A.C., 100 M.A. (D.C.).  
5 Volts A.C., 3.0 Amps.  
2.5 Volts A.C., 14.0 Amps. A.C.  
Wattage: 100 Watts.  
Mounting Holes: 3 1/2 in. x 4 in.

4 1/2 in. x 3 3/4 in. x 4 1/4 in. Net Weight: 8 Pounds. Aluminum Case—Bakelite Lug Terminal Board.

**\$2.95**

### Shielded Philco 10 Henry Choke

82, 86, 87 Philco Sets—Part No. 3472

**79c**

### Universal Audio Replacement Transformer

All-Stage Ratio!

D1369. Our

**45c**

Price.....  
**\$4.80 Per Dozen**

### Victor 245 Power Transformer

For 6-226, 1-227, 2-245 (or 2-247 Pentodes!)  
1-280 Tubes

Equipped with two 114 volt, and two 2 1/2 volt A.C. Secondaries and an 800 volt A.C. H. V. Secondary.

D1004....

**\$2.75**

3 for \$7.50

### Victor 600 Volt 10 3/4 Mfd. Condenser Block

Ideal for Any Make Pentode or 245 Set!

Arrangement of terminals: 6 mfd.; 3 mfd.; 2 1/2 mfd.; Common; 6 mfd. Total 10 3/4 mfd. Size: 5 1/2 in. long, 5 in. high, and 4 in. wide.

D1000. Our

**65c**

Per Dozen, \$6.95

## Majestic

### Condenser Blocks

D1040. For "Super B" Eliminators.  
D1041. For "Master B" Eliminators.  
D1042. For "Special Master B" Eliminators.

Your choice of any of the above.....

**95c**

Six for \$5.00

D1043. For 7 P6 (171 Type) Sets.

D1044. For 8 P6 (250 Type) Sets.

D1045. For 9 P6 (245 Type) Sets.

Your choice of any of the above.....

**\$1.80**

Six for \$10.00

## Westinghouse

### 250 Power Pack Filter Choke

Rating: 200 Ohms, 30 Henries, 150 Mils.

Excellent for Heavy Duty 250 Public Address Systems, due to low ohmage and ability to pass excessive currents. By connecting two in parallel an efficient 25 Watt Class "B" choke results.

D1357.....

**95c**

### RCA 245-247 All-Purpose Power Transformer

Produces 250 Volts—100 Mill

#### SPECIFICATIONS:

Primary: 120 Volts A.C., 50-60 Cycles. Tapped at 110 Volts.  
High Voltage: 425-435 V. A.C.  
100 Mils. (D.C.) 25-285 Volts A.C. (at full load)

#### Filaments:

5.0 Volts A.C., 3.0 Amps. (For 1-280 or 1-83.)  
2.5 Volts A.C., 3.5 Amps. (For 1 or 2-245 or 2-247.)  
2.5 Volts A.C., 10.5 Amps. (For 6-245 Volt Tubes.)  
Dimensions: 4 1/2 x 3 1/4 x 6 inches tall.

Terminals: 8 in. long R.M.A. Color-Coded Heavily Insulated Flexible Leads. Mounting: Crimping lugs can be inserted through slots in chassis or bent outwards at right angles.

Actual Weight: 10 lbs.

**\$2.45**

D1148.....

### Power Transformers for

D1752 Radiola Model 18..... \$1.95

D1753 Radiola Models 44-46..... 2.95

D1754 Radiola Models 60-62..... 2.95

D1755 Radiola Model 66..... 3.50

## ATWATER KENT REPLACEMENTS

### "A-B-C" Power-Pack Unit for AK Models 40-42-43-44-45-46-47-52-53 A. C. Sets

Contains both a Power Transformer and Filter Condenser and Choke Unit

For 4 or 5-226, 1 or 2-227, 1 or 2-171A or 112A, and 1-280

For Models 40-42-44-45-52

D1393.....

**\$5.95**

For Models 43, 46, 47 and 53. Contains Output Transformer to Match Voice Coil of a Dynamic Speaker.

D1394.....

**\$8.50**

### Three Section By-Pass Condenser Block for

A-K Models 37, 38, 40, 42, 44 and 46 A.C. Sets

Consists of C, .25, .25, and .25 mfd. sections.

D3196.....

**75c**

### Genuine Condenser-Choke Block for Models 37-38 Sets

This block contains three chokes and four condensers! 6 inches long, 3 1/2 inches wide, 4 1/4 inches high.

D1027.....

**\$1.95**

### A.C. Replacement Transformer for

A-K Models 36, 37, 38, 40, 42, 43, 44, 45, 46, 47, 52, 53 Sets

D1628.....

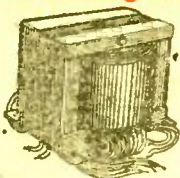
**\$1.65**

# Remington All Purpose and General Replacement Heavy Duty A.C. Power Transformers



**TYPE "A"**

Ideally suited for direct base mounting, providing complete air-cooling. Connections to the transformer are made below the surface on which it is mounted.



**TYPE "B"**

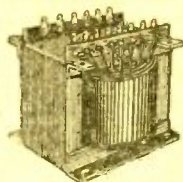
This vertical mount constructional style lends itself admirably to employing this series transformers as versatile replacement units.

Available with your choice of solder lug terminals or flexible insulated leads—specify type desired

All these transformers are designed for 110 volts, 60 cycle A.C. operation, but they are available for 25 cycle and other voltages and frequencies at 30% additional.

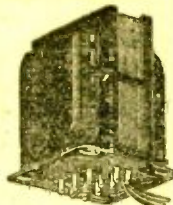
Electrically subjected to "overload" tests before shipment! All leads or terminal lugs are appropriately identified on a chart; no costly guesswork on your part is therefore required! DOUBLE VOLTAGE is applied, as one of the many tests imposed, to reveal any weak points in the insulation!

All these transformers are brand new, and all ratings below stated are very conservatively stated—your complete satisfaction is assured! The dimensions stated below are the distances between mounting centers.



**TYPE "C"**

Ideal for mounting in an upright position, permitting terminal connections to be made on top, and can be inversely mounted.



**TYPE "D"**

This shell type shield frame mounting protects the transformers against dust, moisture and damage.

## 245-247-59 AND 171 CLASS "A" SERIES

No. of Tubes and Sec. Voltages	Type "A"		Type "B"		Type "C"		Type "D"	
<b>For 4-5 Tubes**</b> 330-330 volts, 50 mils. 5 volts 2 amps.; 2.5 volts 5 amps., C.T.	D2000 2 1/2 x 1 1/2	<b>\$.80</b>	D2001 2 1/2 x 1 1/2	<b>\$.95</b>	D2002 2 1/2 x 1 1/2	<b>\$1.45</b>	D2003 2 1/2 x 1 1/2	<b>\$1.60</b>
<b>For 5 Tubes**</b> 330-330 volts, 50 mils. 5 volts 2 amps.; 2.5 volts 7 amps., C.T.	D2005 2 3/4 x 2 1/2	<b>\$.90</b>	D2006 2 3/4 x 1 1/2	<b>\$1.05</b>	D2007 2 3/4 x 1 1/2	<b>\$1.55</b>	D2008 2 1/2 x 1 1/2	<b>\$1.70</b>
<b>For 6-7 Tubes**</b> 350-350 volts, 75 mils. 5 volts 2 amps.; 2.5 volts 9 amps., C.T.	D2010 2 1/2 x 3 1/2	<b>\$1.35</b>	D2011 3 3/4 x 1 1/2	<b>\$1.50</b>	D2012 3 3/4 x 1 1/2	<b>\$1.99</b>	D2013 2 1/2 x 1 1/2	<b>\$2.05</b>
<b>For 8-9 Tubes</b> 375-375 volts 100 mils.; 5 volts 2 amps.; 2.5 volts 8 amps., C.T.; 2.5 volts 9 amps., C.T.	D2015 3 1/2 x 2 1/2	<b>\$1.95</b>	D2016 3 1/2 x 2 1/2	<b>\$2.05</b>	D2017 3 1/2 x 2 1/2	<b>\$2.59</b>	D2018 2 3/4 x 2 1/2	<b>\$2.65</b>
<b>For 10-12 Tubes</b> 375-375 volts 120 mils.; 5 volts 3 amps., C.T.; 2.5 volts 3 amps., C.T.; 2.5 volts 15 amps., C.T. 50 volts C.T., 120 mils. 5 volts 3 amps., C.T.; 2.5 volts 12.5 amps., C.T.; 2.5 volts 3 amps., C.T.; 2.5 volts 2 amps., C.T.	D2020 3 1/2 x 2 1/2	<b>\$2.45</b>	D2021 3 1/2 x 2 1/2	<b>\$2.60</b>	D2022 3 1/2 x 2 1/2	<b>\$3.10</b>	D2023 2 3/4 x 2 1/2	<b>\$3.15</b>
<b>For 5-226, 1 or 2-227, 1 or 2-171, 1-280</b> 300-300 volts, 70 mils.; 1.5 volts 5.5 amps., C.T.; 2.5 volts 2 amps., C.T.; 5 volts .5 amp., C.T.; 5 volts 2 amps., C.T.	D2004 2 1/2 x 2 1/2	<b>\$1.25</b>	D2009 2 1/2 x 1 1/2	<b>\$1.35</b>	D2014 2 1/2 x 1 1/2	<b>\$1.90</b>	D2019 2 1/2 x 1 1/2	<b>\$1.98</b>

(A fifth secondary winding of 1.5 volts 1.05 amps., may be had for 50c additional)

## PUSH-PULL 250 CLASS "A" SERIES

<b>For 14-2 1/2 Volt, 2-250, 2-281 Tubes; 1200 Volt Model</b> 630-630 volts 180 mils.; 7.5 volts 2.5 amps., C.T.; 7.5 volts 2.5 amps., C.T.; 2.5 volts 14 amps., C.T.	D2035 3 1/2 x 2 1/2	<b>\$3.30</b>	D2036 3 1/2 x 3	<b>\$3.45</b>	D2037 3 1/2 x 3	<b>\$3.95</b>	D2038 2 1/2 x 3	<b>\$4.10</b>
<b>For 12-2 1/2 Volt, 2-250, 2-281 Tubes; 1400 Volt Model</b> 700-700 volts 200 mils.; 7.5 volts 2.5 amps., C.T.; 7.5 volts 2.5 amps., C.T.; 2.5 volts 3 amps., C.T.; 2.5 volts 12 amps., C.T.	D2040 3 3/4 x 3 1/2	<b>\$4.65</b>	D2041 3 1/2 x 3	<b>\$4.80</b>	D2042 2 1/2 x 3	<b>\$5.30</b>	D2043 3 3/4 x 3	<b>\$5.45</b>

## PUSH-PULL 2A3 SERIES (Class "A")

<b>For Up to 10 Watt Output Amplifiers</b> 450-450 volts 120 mils.; 5 volts 3 amps., C.T.; 2 1/2 volts 5 amps., C.T.; 2.5 volts 12 amps., C.T.	D2055 3 1/2 x 2 1/2	<b>\$3.95</b>	D2056 3 1/2 x 2 1/2	<b>\$4.10</b>	D2057 3 1/2 x 2 1/2	<b>\$4.60</b>	D2058 2 3/4 x 2 1/2	<b>\$4.75</b>
<b>For Up to 20 Watt Output Amplifiers (Equipped with Two High Voltage Secs.)</b> 350-350 volts 120 mils.; 7.5-7.5 volts 20 mils.; 2 1/2 volts 3 amps., C.T.; 2 1/2 volts 2 amps., C.T.; 2 1/2 volts 8 amps., C.T.	D2060 3 1/2 x 2 1/2	<b>\$5.45</b>	D2061 3 1/2 x 2 1/2	<b>\$5.60</b>	D2062 3 1/2 x 2 1/2	<b>\$6.10</b>	D2063 2 3/4 x 2 1/2	<b>\$6.25</b>

## Class "B" Power Transformer Series

<b>For Push-Push "79," "89" or "37" Tubes (Up to 7 1/2 Watts)</b> 245-245 volts 115 mils.; 2.5 volts 3 amps., C.T.; 4.5 volts 5 amps., C.T.	D2065 2 1/2 x 2 1/2	<b>\$2.95</b>	D2066 3 1/2 x 2	<b>\$3.10</b>	D2067 2 1/2 x 2	<b>\$3.60</b>	D2068 2 1/2 x 2	<b>\$3.75</b>
<b>For Push-Push "46" or "59" Tubes (Up to 26 Watts)</b> 450-450 volts 125 mils.; 5 volts 3 amps., C.T.; 2.5 volts 10 amps., C.T.	D2070 3 1/2 x 2 1/2	<b>\$3.45</b>	D2071 3 1/2 x 2 1/2	<b>\$3.55</b>	D2072 3 1/2 x 2 1/2	<b>\$4.05</b>	D2073 2 3/4 x 2 1/2	<b>\$4.15</b>
<b>For Push-Push "46" or "59" Tubes (Up to 26 Watts)</b> 350-350 volts 120 mils.; 5 volts 3 amps., C.T.; 2.5 volts 3.5 amps., C.T.; 2.5 volts 14 amps., C.T.	D2075 3 1/2 x 2 1/2	<b>\$2.85</b>	D2076 3 1/2 x 2 1/2	<b>\$2.95</b>	D2077 3 1/2 x 2 1/2	<b>\$3.45</b>	D2078 3 1/2 x 2 1/2	<b>\$3.60</b>
<b>For Push-Push "46" or "59" Tubes (Up to 26 Watts)</b> 450-450 volts 200 mils.; 5 volts 3 amps., C.T.; 2.5 volts 3 amps., C.T.; 2.5 volts 10 amps., C.T.	D2080 3 3/4 x 3 1/2	<b>\$4.45</b>	D2081 3 1/2 x 3	<b>\$4.55</b>	D2082 3 1/2 x 3	<b>\$5.05</b>	D2083 3 1/2 x 3	<b>\$5.15</b>

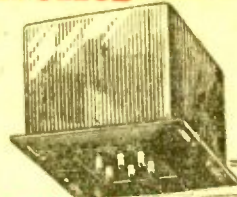
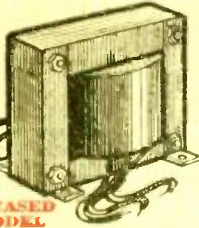
\* Center Tap can carry total current indicated, permits optional use of either a 280, 82, 83 or 523 Rectifier.  
\*\* Equipped with ELECTROSTATIC SHIELDS.



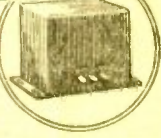
# "Remington" De-Luxe Laboratory Standard Audio Transformer Components

The flat line response curves of these high grade audio frequency instruments are a tribute to their excellent workmanship and design. Their absolute reliability is obtained by the exclusive use of the best grade of materials available, in conjunction with the incorporation of all current improvements in electrical and mechanical design and in construction, such as improved and increased insulation between windings and layers, the use of multiple coils, etc. All coils are thoroughly impregnated in a dust and moisture-proof compound. The enclosed models are

hermetically sealed within another heat-proof insulating compound to insure absolute constancy of operation under the most adverse climatic conditions. The elimination of wave form distortion is obtained by the use of low resistance coils used in conjunction with laminations of the highest grade silicon steel. The unencased models are heavily clamped by substantial brackets, and permit universal mounting facilities. The shield cases themselves present a decidedly attractive professional appearance and lend dignity to any chassis on which they are mounted.



METAL CASED MODEL Type "MC"



The Cased Models (Type "MC") are obtainable with your choice of FLEXIBLE INSULATED LEADS or TERMINAL LUGS protruding from the sides or bottom. PLEASE DEFINITELY STATE TYPE DESIRED. (If solder terminal lugs are desired on the Unencased Models, Type "FL" add 50¢ to any net price shown below.) The overall dimensions of the largest of these unencased transformers is 3 3/4 in. long, 3 in. wide, 3 1/4 in. tall.

## INPUT TRANSFORMERS

Feeding Into One Grid  
Audio Transformer

Type "FL"	Type "MC"
D2300 \$1.75	D2301 \$2.45

### MICROPHONE LINE and PICKUP TRANSFORMERS

#### Primary Windings

	Type "FL"	Type "MC"
200 ohms	D2306 \$1.75	D2307 \$2.45
500 ohms	D2308 1.75	D2309 2.45
500 ohms, tapped at 200 ohms	D2310 2.35	D2311 3.05
100 ohms, tapped at 50 ohms	D2312 1.95	D2313 2.65
500 ohms, tapped at 200, 100, and 50	D2314 2.95	D2315 3.55
200 ohms per button (Double Button)	D2316 1.95	D2317 2.65
100 ohms per button (Double Button)	D2318 1.75	D2319 2.35
30,000 ohms, tapped 15,000; 8,000	D2320 5.75	D2321 6.45
6,000 ohms, tapped 3,000; 1,000	D2322 4.55	D2323 5.25
3,000 ohms	D2324 1.75	D2325 2.45

### 3-in-1 Microphone—Phono-Pickup and Audio Transformers

100 or 200 ohms per button; 3,000 tapped 500, 300; with 1st Audio Trans.	D2326 \$3.75	D2327 \$4.65
Same, Less Audio Winding	D2328 2.75	D2329 3.45

## CLASS "A" AND "B" OUTPUT TRANSFORMERS

All of the output transformers listed below can be had with your choice of either one of Types A, B and C Secondaries at the prices quoted; or, a combination of any two secondaries, for 25% additional above prices quoted; OR, all three secondaries on one transformer for 50% additional above prices quoted.

Type A—500 ohms, tapped at 200 ohms  
Type B—15 ohms, tapped at 8, 4, 2 ohms  
Type C—1,000 ohms, tapped at 2,000 ohms

### Single Tube Output Transformers

	Type "FL"	Type "MC"
From 1 plate*	D2372 \$1.75	D2373 \$2.45
From 1 plate into 8-15 ohms sec.	D2382 1.35	D2383 1.95

### Push-Pull Outputs

From 2 plates* (Max. Output 7 1/2 watts)	D2374 \$1.95	D2375 \$2.65
From 2 plates* (Max. Output 20 watts)	D2376 2.25	D2377 2.90
From 2 plates* (Max. Output 50 watts)	D2378 4.95	D2379 5.60
From 4 plates* in parallel push-pull (30 watts)	D2380 4.75	D2381 5.50
From 2 plates* into 8-15 ohms sec.	D2384 1.55	D2385 2.25

## INPUT PUSH-PULL TRANSFORMERS CLASS "A"

From 1 plate\* ..... D2330 \$1.85 | D2331 \$2.55

### Interstage Push-Pull Transformer

From 2 plates\* ..... D2334 \$2.25 | D2335 \$2.95

From 1 plate into split secondaries | D2338 \$1.95 | D2339 \$2.65

### Heavy Duty Input Push-Pull Transformers

Feeding from such Tubes as 245, 2A3, 2A5, 46, 59, etc.

#### Input Push-Pull Transformer

From 1 plate\* ..... D2340 \$2.75 | D2341 \$3.45

#### Interstage Push-Pull Transformer

From 2 plates\* ..... D2344 \$2.90 | D2345 \$3.60

## CLASS "B" DRIVER INPUT "PUSH-PUSH" TRANSFORMERS

From 2 plates\* (11 watt output) ... D2348 \$1.65 | D2349 \$2.35

From 2 plates\* (16 watt output) ... D2350 1.95 | D2351 2.65

From 2 plates\* (24 watt output) ... D2352 2.45 | D2353 3.15

From 2 plates\* (50 watt output) ... D2354 4.95 | D2355 5.95

### Interstage Driver Push-Push Transformers

From 2 plates\* (26 watt output) ... D2356 \$3.95 | D2357 \$4.75

From 2 plates\* (50 watt output) ... D2358 6.95 | D2359 7.95

## CLASS "AAA" PRIME INPUT TRANSFORMERS

From 1 plate\* ..... D2360 \$2.85 | D2361 \$3.55

### Interstage Push-Pull Driver Transformers

From 2 plates\* (50 watt output) ... D2362 \$5.75 | D2363 \$7.25

## IMPEDANCE COUPLING A. F. CROKES

30 Henrys, 200 ohms, 130 mils. D.C. | D2364 \$1.65 | D2365 \$2.35

30 Henrys, 450 ohms, 50 mils. D.C. | D2366 1.25 | D2367 1.95

300 Henrys, 10,000 ohms, 5 mils. D.C. | D2368 1.95 | D2369 2.65

600 Henrys 20,000 ohms C.T.) | D2370 2.35 | D2371 3.05

## Class "A Prime" and "AAA" Output Transformers

From 2 plates\* (Max. Output 11 watts) ..... D2386 \$2.80 | D2387 \$3.50

From 2 plates\* (Max. Output 26 watts) ..... D2388 3.25 | D2389 3.90

From 2 plates\* (Max. Output 50 watts) ..... D2390 6.40 | D2391 8.25

## CLASS "B" OUTPUT TRANSFORMERS

From 2 plates\* (Max. Output 11 watts) ..... D2392 \$2.25 | D2393 \$2.95

From 2 plates\* (Max. Output 16 watts) ..... D2394 2.65 | D2395 3.25

From 2 plates\* (Max. Output 26 watts) ..... D2396 2.95 | D2397 3.55

From 2 plates\* (Max. Output 50 watts) ..... D2398 5.75 | D2399 7.25

## LINE AND "MIXER" TRANSFORMERS

PRIMARY 500, 200 ohms; SECONDARY 500, 200 ohms ..... D2400 \$2.25 | D2401 \$2.95

PRIMARY 200-200 ohms; SECONDARY, 500, 200 ohms ..... D2402 3.95 | D2403 4.75

Preamplifier output into 500 ohms ..... D2406 2.25 | D2407 2.95

Preamplifier into 500, 200 ohms ..... D2410 \$2.25 | D2411 \$2.95

High Impedance Control Box Output into Line Transformer from 150,000 ohms into 500 ohms. | D2408 3.05 | D2409 3.75

Line to Voice Coil and High Impedance Line Transformers

PRIMARY 500 ohms, tapped at 200; SEC. 15 ohms, tapped at 8, 4 and 2; | D2412 \$6.95 | D2413 \$7.80

PRIMARY 500 ohms, tapped at 200; SEC. 4,000 ohms, tapped at 2,000; | D2414 6.95 | D2415 7.80

PR. 15 ohms, tapped at 8, 4, and 2; SEC. 4,000 ohms, tapped at 2,000 | D2416 7.90 | D2417 8.75

PRIMARY 15 ohms; SECONDARY 1,000 ohms, tapped at 2,000 ohms | D2418 3.75 | D2419 4.45

The four last transformers above enumerated are for 26 watt operation, and can also be had for 50 watt operation at an additional cost of 50% above the prices quoted.

\*Please definitely advise type of tubes you intend to employ with the transformers marked with an \*.

## 5 Tube Superheterodyne --- Dynamic Speaker Equipped --- Universal A.C.-D.C. Receivers



COMPLETE WITH TUBES

**\$16.95**

Can Be Operated From a 6 Volt Storage Battery (In Automobiles!), 32 Volt Delco Light Plants, 110 or 220 Volt A.C.-D.C. Light Sockets!

### Employs Most Recently Designed Tubes

1-6A7 Pentagrid Converter, Combination R-F Tube, 1st Detector and Oscillator in One; 1-78 Triple Grid Super-Control I. F.; 1-77 Triple-Grid 2nd Detector and Amplifier Tube-in-One; 1-43 High Gain POWER PENTODE OUTPUT Tube; and 1-25Z5 "VOLTAGE DOUBLER" RECTIFIER --- NO POWER TRANSFORMER USED! This powerful array of tubes is conclusive testimony that this receiver is unparalleled in PERFORMANCE and therefore worthy of your EXCLUSIVE SALES PROMOTIONAL EFFORTS!

### Super-Heterodyne Circuit Produces Amazing Results!

Equipped with a self-contained antenna system, on which stations up to 1000 miles away may be received with more than ample volume. Employing a 30 to 50 ft. long conventional antenna, reception of stations up to 2,000 miles are easily received! The SENSITIVITY and SELECTIVITY

of this "handful of Radio" make the performance of this remarkable little receiver on a par with considerably larger and much more expensive receivers, equipped with sometimes 2 or 3 more tubes!

### Dynamic Speaker Provides Thrilling Realism of Tonal Reproduction

To successfully handle the huge volume outputs produced by this excellent receiver a full-sized dynamic speaker has been incorporated --- the chamber in which it is housed has been scientifically designed to afford acoustic perfection. The cabinet furnished is made of the choicest Walnut Woods, and is beautifully polished and tastefully designed---it measures 11 in. long, 5 in. deep, 7 1/4 in. tall. Its attractive appearance permits its placement on any desk, mantel, chiffonier, bed lamp table, dining room table, etc. D3056. COMPLETE... Ready for Immediate Operation. Furnished With Dynamic Speaker and SET OF GENUINE MATCHED TUBES **\$16.95**

D1057. Additional Charge for SIX VOLT BATTERY OPERATION CONVERSION ..... \$1.85

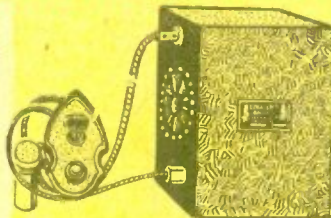
D3137. Special 6 Volt Operated "B" Power Supply. Takes the Place of 3-45 Volt "B" Batteries. Permits Complete Operation of Receiver From a Storage Battery ..... \$8.95

## COMPLETELY ELECTRIFIED SIX TUBE SUPERHETERODYNE AUTO RECEIVER



Requires NO External Power Unit... Merely Clip Two Leads on to your Storage Battery! Dynamic Speaker Self-Contained!

Employs a powerful array of modern tubes, arranged in this following ultra-sensitive circuit: A 78 Triple-Grid Super-Control ANTENNA STAGE assures absolute 10 K. C. SELECTIVITY---this feeds into a combined electron coupled oscillator and 1st Detector Tube, a 6A7, which also serves as a High Gain R. F. and I. F. Amplifier at the same time---this tube feeds through a 175 K. C. I. F. Transformer into a Duplex-Diode AUTOMATIC VOLUME CONTROL Triode Amplifier Detector (2nd), an 85; the output of this tube is resistance coupled into a 37 1st stage audio which is in turn transformer coupled into a High-Gain Pentode Power Output Tube delivering the huge output of 1.3 Watts. A FULL WAVE Heater Type 84 Rectifier Tube furnishes full voltage to all the tubes employed as well as 100% FIELD EXCITATION to the Dynamic Speaker



Built to withstand the severest vibrations. May be mounted anywhere within the car. Arrangement is provided for the employment of an additional speaker which may be placed at any distance from the automobile.

### Some of its Highly Valuable Features

Only three controls are provided, namely a Tuning Dial, a Volume Control and a Tone Control, as well as an ON-OFF Lock Switch. This receiver employs DELAYED AUTOMATIC VOLUME CONTROL ACTION, which assures noiseless station-to-station tuning, and keeps the speaker output at a constant level. The dynamic speaker furnished is capable of handling the enormous output in a very pleasing manner. The steel case is handsomely finished and is provided with universal mounting brackets---the illustration herewith is only typical of one such placement. Remarkably compact---only 6 1/4"x9 1/4" in.---and yet COMPLETELY SELF-CONTAINED! Consumes the insignificant sum of only 5 amperes!

D3136. Complete Factory Wired Receiver. Ready for Immediate Use. Includes Remote Control, 6 Ft. Dual Flexible Drive, Six Matched Tubes (1-6A7, 1-78, 1-85, 1-37, 1-41, and 1-84), Black Crystalline Finished Steel Case, Self-Contained Dynamic Speaker and Self-Contained POWER PACK **\$27.50**

## 6 Tube 110 Volt A.C.-D.C. Superheterodyne With Voltage Doubling 8 Tube 110 Volt A.C.-D.C. Push-Pull 43 Superheterodyne With Two 25Z5 Rectifiers and Voltage Doubling

### Six Tube Voltage Doubling Superheterodyne

Cat. No. D3006

TUBES FURNISHED

2-78, 1-6A7, 1-43, 1-43, 1-25Z5

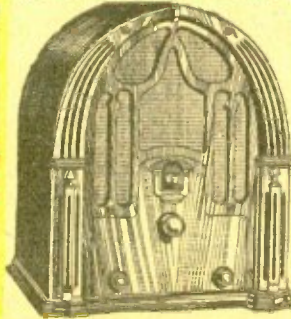
Audio Output on 110 Volt D. C.: 1 Watt

Audio Output on 110 Volt A.C.: 2 Watts

By merely snapping a toggle switch, the full advantages of bona fide VOLTAGE DOUBLING, offered by the 25Z5 Rectifier, is obtained from 110 Volt A. C. Sockets. Not only is the 43 plate voltage doubled but the voltage fed to the R. F. and Detector Tubes is also increased, thereby considerably aiding their performance! The SELECTIVITY, SENSITIVITY and QUALITY possessed by the receiver is unquestionably all that can be desired---you will be undeniably impressed with the exceptionally efficient Radio Set.



**\$16.50**  
With Tubes



**\$32.50**  
With Tubes

### Eight Tube Push-Pull 43 Superheterodyne With Voltage Doubling!

Cat. No. D3007

TUBES FURNISHED

2-78, 1-6A7, 1-85, 2-43, 2-25Z5

Audio Output on 110 Volt D. C.: 2 1/4 Watts

Audio Output on 110 Volt A.C.: 4 1-2 Watts

Two 25Z5 Rectifiers Required to Furnish Increased Current Requirements of This 8 Tube Push-Pull Model!

### BOTH Models Possess These Highly Valuable Features:

Equipped with a 8 in. Diameter DYNAMIC SPEAKERS. Three Gang Variable Condensers. Self-Contained ANTENNA Systems. Automatic Volume Controls, Tone Controls, Manual Volume Controls, Voltage Doubling Feature on A. C., Phono Jacks, Elimination of Power Transformers, Il-

luminating FUM Vision Vernier Dials, 175 K. C. I. F. Line Switch on Volume Controls, etc. The Walnut Mantel Cabinet furnished is solidly constructed, and is of generous proportions, thereby producing a FULL CONSOLE TONE!

Double Volume... with the snap of a switch! 4 1/2 WATTS output without the employment of a Power Transformer. PERFORMANCE EXTRAORDINARY... rivaled only by the most costly 10 to 12 tube SUPERHETERODYNE RECEIVERS! No Radio Receiver is more modern... if you seek the VERY BEST... here is your logical choice!