



RADIO

1941

parts & equipment

HARRY REED RADIO SUPPLY

formerly
RADIO ENGINEERING SUPPLY

Springfield, Mo.

1124 Boonville
Opposite Junior High School

Phone: 2696

Foreword

In presenting our *List Price Catalog*, we aim to fill a long-felt need for a new selling medium which may be exhibited to the consumer without the risk of disclosing confidential trade prices.

Contents

In the pages of this book you will find listed a complete line of nationally advertised Radio merchandise, representing the "best" in the field of RADIO. Every part is manufactured in accordance with R.M.A. and N.E.M.A. Standards, rated at safety factors in excess of those required for normal operation.

Why a List Price Catalog?

You are entitled to make a fair and reasonable profit on the merchandise you sell. Our co-operation is signified by the issuance of a *List Price Catalog*. The distribution of this catalog is confined to those actively and commercially engaged in "RADIO"; it is intended to promote our mutual interests. Solicit your consumer business through this book and you are assured of increasing your sales and profits.

Important Notice — Trade Discounts!

You will find imprinted at the bottom-center of each page a small figure representing the confidential *trade discount* applying to all items listed on that page. Several pages, as well as some individual items, are quoted at net prices, in which case the word "Net" appears at the bottom-center of the page or next to the price itself.

Create Sales With This Catalog

Take full advantage of the wealth of information and technical data contained in this catalog. Use it as your "Silent Salesman" and as a Radio Reference Book and Encyclopedia.

Guarantee

Our liberal guarantee policy is made possible because of the fact that every item of merchandise has been thoroughly tested and approved before being accepted for listing in our Catalog.

Special Service

We have endeavored to include all of the standard parts and accessories normally required. Do not hesitate to take advantage of our "Special Service" if you need some article which is not listed. We will obtain it for you if it is at all possible.

HARRY REED RADIO SUPPLY

We are eager to serve you

Below is a picture of a portion of our store, stocked full of radio merchandise, awaiting your desires and needs. The picture also shows some members of our organization, who are anxious to serve you to the fullest extent at all times. All orders receive prompt attention; since, as a rule, they are filled and delivered to the post office or express company on the same morning they are received.



HARRY REED RADIO SUPPLY STORE

SEVEN YEARS IN THE WHOLESALE SUPPLY BUSINESS
THE LARGEST STOCK OF RADIO SUPPLIES IN SOUTHWEST MISSOURI

WE ARE A COMPLETE RADIO STORE

We stock practically everything to be desired by a radio serviceman, amateur, or radio dealer; and we will guarantee that our prices and quality of merchandise will meet all competition. All our merchandise carries the standard manufacturers' guarantee.

WE WILL STRIVE TO PLEASE YOU AT ALL TIMES

Yours truly,

HARRY REED RADIO SUPPLY

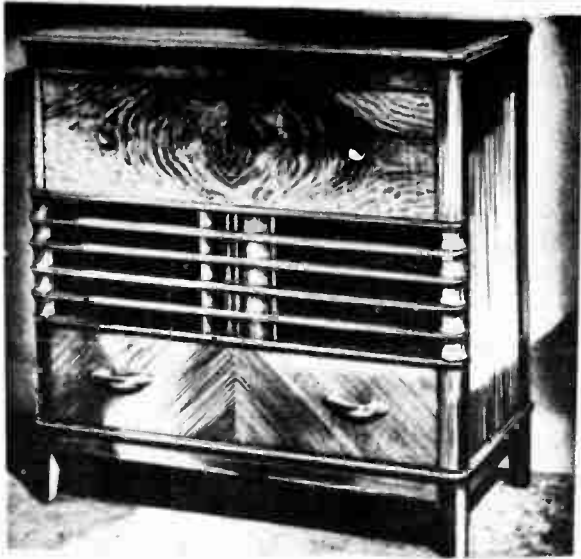
Harry Reed

Harry Reed, Manager

Service with a smile

HARRY REED RADIO SUPPLY

WILCOX-GAY RECORDIO

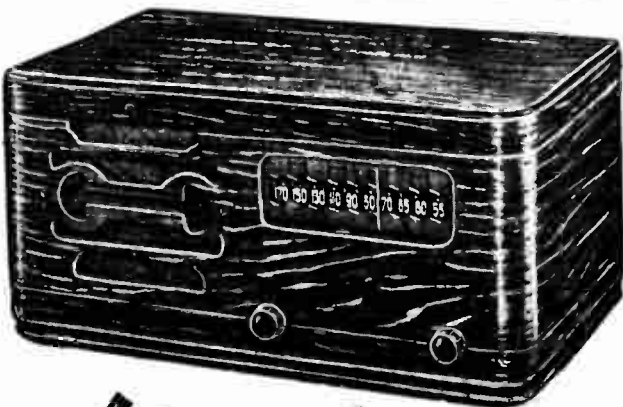


MODEL A-91 • Dual speed recording • automatically equalized for dual speed recording • push-pull output • 12" heavy duty speaker • 10 tubes including level indicator • wave-trap for interference-free reception • three gang condenser • simultaneous radio-microphone recording • automatic tone control circuit for full-tone recording • The **STREAMLINER**, a beautiful modern console • Size: 32½" x 34⅛" x 15½".

List \$129.95 Net \$79.95



MODEL A-87 • Portable model • complete with radio, phonograph and recorder • 7 tubes • wave-trap for reduced interference • built-in antenna connection • automatic tone control for recording • recording and play-back arms automatically secured for portability • low resonance speaker. **MODEL A-88** • deluxe model with genuine leather cover • Size: 22" x 13½" x 12". List \$84.95 Net \$52.95



Admiral Model 40-A4
4-TUBE 1½ VOLT SUPERHET.

Here is the most economically operated receiver for farms and summer homes.

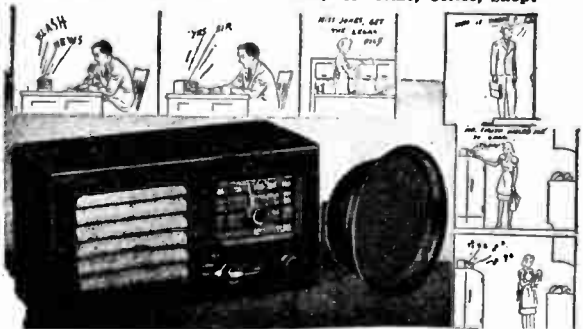
List \$19.95

Net \$13.95

A-2

New Setchell-Carlson RADIO DORAPHONE

Combines Radio with Inter-Com., for Home, Office, Shop!



FEATURES - MODEL 411RD

Instantly converted from RADIO to DORAPHONE. Simple finger tip control for "Talk-Listen" positions. Switch for optional transmission of radio programs to external speaker.

Engineered for home and industrial installations.

EXTERNAL SPEAKER — Permanent magnet design — weather-proof plastic bronze, bell type baffle. Furnished with 50-foot rubber covered cable.

\$16.00 less 2% \$15.68

HARRY REED RADIO SUPPLY

Famous **ARVIN** Radios for 1941! QUALITY **BEAUTY-PERFORMANCE!**

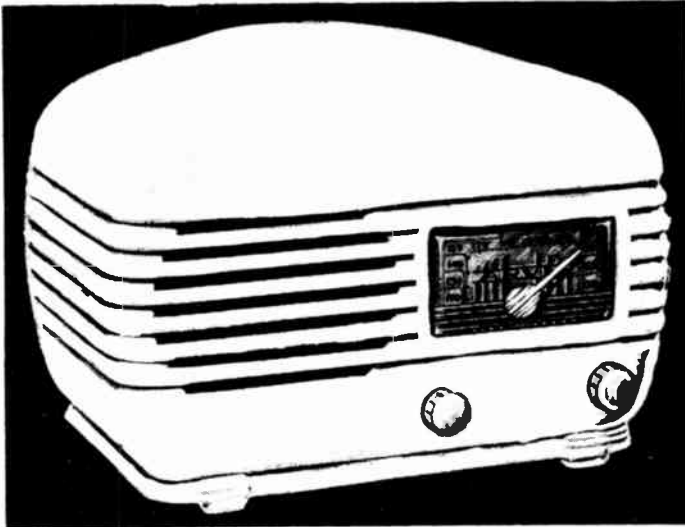
"Big Beauty" 5 TUBE AC-DC SUPERHET De Luxe

- ★ Built-In Antenna
- ★ Large Airplane Dial
- ★ Quad. Tuned I.F. Amplifier for Selectivity
- ★ 2 Watts Output
- ★ Tunes 540 to 1600 KC

Don't let the low price mislead you—for here is a big handsome set that is packed with the kind of features usually found on sets selling for up to twice as much! Powerful Superheterodyne circuit uses 12SA7, 12SQ7, 12SK7, 50L6GT, and 3Z5GT tubes. Two dual purpose tubes result in performance equal to most 7 tube sets. Quadruple tuned I.F. Amplifier gives high power output and Easily separates "close-together" Stations. Power Output of 2 watts with unusual sensitivity and selectivity, brings in distant Stations with Surprising regularity. "Phantom-Scope" Built-in aerial is highly efficient and selective. No other aerial or ground required for perfect reception. Long distance connection provided on back of loop antenna for connecting outside antenna for extra coverage if desired.

Three Smart, Modern Cabinet Designs

Beautiful Plastic cabinets available in Ivory or Walnut. Size 11 1/2" wide, 9 1/4" high, 6 1/4" deep. Wood cabinet is of hand polished Walnut and measures 12 1/2" wide, 3 1/4" high, 6 1/4" deep. All three models have large Airplane dials, Large Electromagnetic Speakers, built-in antenna, and Full Broadcast Band Tuning.



Model 622A—Ivory
Glossy Ivory finish. Smart, modern styling. Complete with tubes.

LIST \$14.95.
Your Cost Each, \$10.76, Less 2%, Net **\$10.44**

Model 622—Walnut
Beautiful whirled Walnut plastic. Unusually attractive. Complete with tubes.

LIST \$13.95.
Your Cost Each, \$9.97, Less 2%, Net.. **\$9.77**

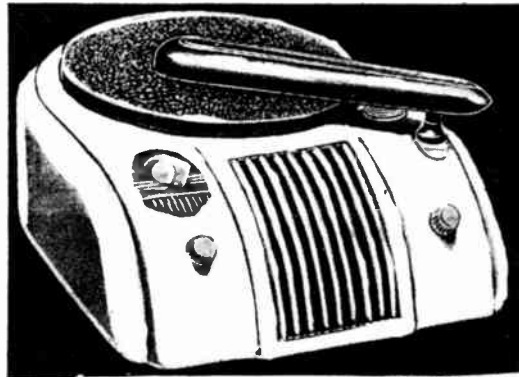
Model 632—Wood
Genuine Walnut Wood veneers, highly polished. Wonderful Tone. With Tubes.

LIST \$17.95.
Your Cost Each, \$12.92, Less 2%, Net **\$12.66**



Operate
On 110 V.
AC or DC

Smart Radio-Phono Combination

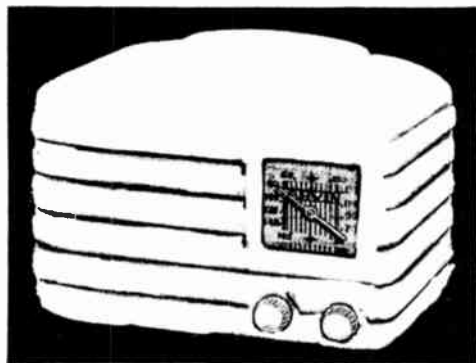


Smartest low-priced combination on the market. Four-tube radio in beautiful, streamlined, unbreakable cabinet... 78 r.p.m. self-starting phonograph motor... plays 10" and 12" records or brings in radio broadcasts with surprising tone quality and volume.

OPERATES
ON 110 V.
AC ONLY.

Model 302A—Ivory
With Chrome Trim
List \$16.95.
Your Cost Ea., \$12.10, Less 2%, Net..... **\$11.86**

Model 302—Brown
With Ivory Trim
List \$14.95.
Your Cost Ea., \$11.96, Less 2%, Net..... **\$11.72**



**5
Tube
Super
Compact**

**7-Tube
Performance**

**Unbreakable
Cabinet
Size Only
7 1/2" Wide
5 1/4" High
4 1/4" Deep**

- ★ Built-In Antenna
- ★ Airplane Dial
- ★ Tunes 540 to 1600 KC
- ★ Dynamic Speaker

Here is a fine little personal radio that is ideal for traveling or any occasion because THE CABINET IS UNBREAKABLE! It is made from pressed thin steel, with high gloss finishes in either Ivory or Walnut. A Built-in Antenna of unusual pick-up and Sensitivity Eliminates Aerial or ground although a connection is provided for connecting outside antenna when greater distance coverage is desired. A Special Superheterodyne circuit uses a 12SA7, 12SK7, 12SQ7, 50L6GT, and 3Z5GT. Dual purpose tubes result in 7 tube performance. Quadruple tuned I.F. Amplifier gives Knife-Edge Selectivity.

Model 522-A—Ivory
List \$10.95.
Your Cost Ea., \$8.26, Less 2%, Net..... **\$8.10**

Model 522—Walnut
List \$9.95.
Your Cost Each, \$7.99, Less 2%, Net..... **\$7.83**

SPECIAL 465 K.C.-IF TRANSFORMER



Net
39¢

SPECIAL 8 MFD - 450 Volt TOBE CONDENSERS

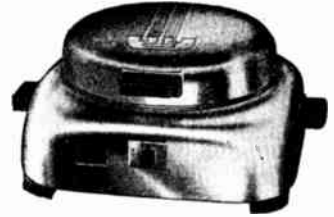


Net
25¢

HARRY REED RADIO SUPPLY

"Toastswell" Automatic Pop-Up Toaster

No watching—just put in the bread and — Presto! — TWO SLICES OF GOLDEN BROWN TOAST POP UP within easy reach. **SELECTIVE AUTOMATIC TOAST LIFT.** Makes toast of any desired brownness—toasts EVERY slice exactly alike if desired. **NEW LOW HEAT FEATURE MAKES FINE MELBA TOAST!** TOASTSWELL elements are on "low" heat when plugged in—raise to "high" heat when bread is inserted and until toast is "done"—then return to "low" heat to keep toast warm if desired. 660 watt Nichrome elements, Bakelite handles and mar-proof feet; gleaming Chromium finish. Size 6 1/2" wide, 9 1/2" high, wt. 5 lbs. For 110 volt AC only. Lbt., \$9.95.—Net Each \$6.95 less 2%



The new TOASTSWELL Automatic Waffle Baker is fully automatic and produces done-to-the-minute golden brown waffles. Entirely new design, with new features.

This fully Automatic Waffle Baker is thermostatically controlled and enables you to bake waffles perfectly . . . light or dark as you wish. Pilot light signals when to pour in batter and when waffle is done. Makes large size round waffles.

No. 830 Automatic Waffle Baker..... **List \$9.95**
Net \$6.95

less 2%

FLUORESCENT DESK LAMP



**Low Cost
No Glare
Daylight**

New, nifty, streamlined design with handy pencil grooves in base. Super-efficient, **PARABOLA REFLECTOR** has white enamel surface—delivers an abundance of **NON-GLARE**, far reaching **DAYLIGHT**—easy on the eyes! Saves current—15

watts of Fluorescent provides a **FLOOD OF LIGHT** over the entire desk. **QUALITY CONSTRUCTION THROUGHOUT**—approved ballast, newest magnetic on and off push switch in streamlined base; stem and shade of heavy gauge metal, finished in Tobacco Brown crackle enamel. Shade is 18" long and stands 14 1/2" above level of desk. 8-foot approved cord and plug. Wt. 12 lbs. List \$5.95; less T-8 bulb.

-For 110 volt AC.

YOUR COST, Each \$3.87

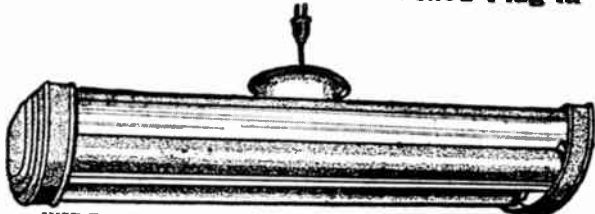


This new Bun, Roll and Food Warmer is truly a modern convenience that has many uses and will be used every day. You can serve many foods "Piping Hot" right at the table and keep them "Hot" throughout an entire meal. Convenient and easy to use. Furnished with-out cord and plug.

No. 625 Food Warmer..... **List \$2.98**
Net \$1.95

NO INSTALLATION COST—COMPLETELY WIRED READY TO USE

50-Watt Satin-Silver Finished Plug-In Office Unit



BEAUTIFUL MODERN FLUORESCENT LIGHTING

from old style ceiling type or chain hanger glass shade type incandescent light fixtures.

EITHER 4" or 6" diameter hangers converted instantly WITHOUT INSTALLATION COST.

JUST TAKE DOWN THE OLD GLASS SHADE—REMOVE THE LIGHT BULB—PLUG-IN THE CORD OF THIS BEAUTIFUL UNIT—TIGHTEN THE SHADE HOLDER SCREWS AROUND THE FLANGE OF THE FLUORESCENT UNIT—AND PRESTO! — MODERN FLUORESCENT DAY-LIGHT REPLACES OLD STYLE INCANDESCENT "YELLOW" LIGHT.

The two 25-watt type T-12 fluorescent lamps of this fine unit give a volume of light equal to 100 to 150 watts of incandescent light ON ONLY 50-WATTS OF CURRENT—more and better light at a saving in current cost! Gleaming white high-bake enamel reflector with exterior finish of SATIN SILVER color. Decorative ends have polished metal trim bands; and are SPRING-HINGED to fixture body, allowing replacement of lamps without taking fixture apart, losing screws, etc. Latest Underwriters' Approved ballasts and replaceable starters of the plug-in type; 12" connecting cord, and fitter flanges for EITHER 4" or 6" shade holders. For 110 volt, 60 cycle AC only. **LESS LAMPS.**

Lamps & Type { Lamps, Ea. } Dimensions { Wt. } NET. **\$6.50** { Less }
2-20 Watt—T-12 { 84c } 24 1/2"x7 1/4"x4 1/4" 8 lbs. EA. { Lamps }

"Sterling" Battery Testers



#42A "Graphic" 4 separate scales for testing ALL "portable" "A" and "B" batteries—at correct load resistance. "Low" — "OK" on red and green scale zones for 1 1/2 / 4 1/2 / 6 / 7 1/2 volt "A" batteries; 45 and 90 volt "B" batteries. Separate 0/100 volt scale tests "odd" sizes of "B" batteries.

"Sterling" 42A Net, Each **\$3.53**



WORLD'S LARGEST EXCLUSIVE RADIO TUBE MANUFACTURERS

DEPENDABLE

Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price
00A	\$2.25	4A6G	\$1.85	6K7	\$1.00	7C6	\$1.20	32	\$1.20
01A	.80	5T4	1.85	6K7G	1.00	7C7	1.20	32L7GT	1.85
0A4G	1.85	5U4G	.90	6K7GT	.90	7E6	1.20	33	1.20
0Z4	1.50	5V4G	1.50	6K8	1.20	7E7	1.50	34	1.20
0Z4G	1.50	5W4	1.00	6K8G	1.20	7F7	1.50	35/51	.90
1A4P	1.50	{5W4G /	.80	6K8GT	1.20	7H7	1.85	35A5	1.20
1A4T	1.50	{5W4GT}		6L5G	1.00	7J7	1.85	35L6GT	.90
{1A5G /		5X4G	1.00	6L6	1.85	7L7	1.85	35Z3	1.20
{1A5GT}	1.00	5Y3G	.60	6L6G	1.85	7N7	1.85	35Z4GT	.70
1A6	1.20	5Y4G	.65	6L7	1.50	7Q7	1.20	{35Z5G /	
1A7G	1.50	5Z3	1.00	6L7G	1.50	7Y4	1.20	{35Z5GT}	
1A7GT	1.20	5Z4	1.20	6N6G	2.25	10	2.75	35Z6G	1.20
1B4 / 951	1.20	5Z4MG	1.20	6N6MG	2.25	WD-11	2.25	36	.90
1B5 / 25S	1.20	6A3	1.85	6N7	1.50	WX-12	2.25	37	.75
1B7G	1.20	6A4 / LA	1.50	6N7G	1.50	12A	.90	38	1.00
1C5G	1.50	6A5G	2.75	6P5G	.75	12A5	2.25	39 / 44	.90
1C5GT	1.20	6A6	1.50	6P5GT	.70	12A7	1.85	40	1.50
1C6	1.20	6A7	.90	6P7G	2.25	12A8GT	.90	41	.75
1C7G	1.20	6A8	1.20	6Q7	1.20	12B7	1.85	42	.75
1D5GP	1.20	6A8G	.90	6Q7G	.80	12B8GT	1.50	43	1.00
1D5GT	1.20	6A8GT	.90	6Q7GT	.80	12C8	1.85	45	.70
1D7G	1.50	6AB5 / 6N5	1.50	6R7	1.50	12F5GT	.90	45Z5GT	1.00
1D8GT	1.85	6AC5G	1.20	6R7G	1.00	12J5GT	.90	46	1.00
1E4G	1.20	6AC5GT	1.00	6R7GT	.80	12J7GT	1.00	47	1.00
1E5GP	1.50	6AD6G	1.50	6S7	1.50	12K7GT	.90	48	2.75
1E7G	2.25	{6AE5G /		6S7G	1.50	12K8GT	1.20	49	1.20
1F4	1.20	{6AE5GT}	1.20	6SA7	.90	12O7GT	.80	50	2.25
1F5G	1.20	6AE6G	1.20	6SA7GT	1.00	12SA7	.90	50C6G	1.85
1F6	1.50	6AE7GT	1.20	6SC7	1.20	12SA7GT	1.20	50L6GT	1.00
1F7GH	1.50	6AF5G	1.20	6SD7GT	1.20	12SC7	1.20	{50Y6G /	
{1G4G /		6AF6G	1.50	6SF5	.90	12SF5	1.00	{50Y6GT}	1.00
{1G4GT}	1.20	6B4G	1.85	6SF5GT	.90	12SF5GT	1.00	52	2.75
1G5G	1.20	6B5	1.85	6SJ7	1.00	12SJ7	1.00	53	1.50
{1G6G /		6B6G	1.00	6SJ7GT	1.00	12SJ7GT	1.00	55	1.00
{1G6GT}	1.50	6B7	1.20	6SK7	.90	12SK7	.90	56	.70
1H4G	.90	6B8	1.85	6SK7GT	1.00	12SK7GT	1.00	57	.80
1H5G	1.20	6B8G	1.20	6S07	.90	12S07	.90	58	.80
1H5GT	1.00	6C5	1.00	6S07GT	1.00	12S07GT	1.00	59	1.50
1H6G	1.20	6C5G	.90	6SR7	1.00	12SR7	1.20	70L7GT	1.85
1J5G	1.85	6C5GT	.90	6T7G / 6Q6G	1.20	12Z3	.90	71A	.80
1J6G	1.20	6C6	.90	6U5 / 6G5	1.20	15	1.85	75	.75
1LA4	2.25	6C8G	1.50	6U6GT	1.20	19	1.20	76	.80
1LA6	2.25	6D6	.90	6U7G	.90	20	2.75	77	.80
1LB4	2.25	6D8G	1.50	6V6	1.85	22	2.25	78	.80
1LH4	2.25	6E5	1.00	{6V6G /		24A	.80	79	1.50
1LN5	2.25	6E6	1.85	{6V6GT}		25A6	1.85	80	.60
1NSG	1.50	6F5	1.00	6V7G	1.20	{25A6G /		81	1.85
1NSGT	1.20	6F5G	1.00	6W5G	1.85	{25A6GT}	1.00	82	1.20
1N6G	1.20	6F5GT	.90	6W7G	1.50	{25A7G /		83	1.20
1P5GT	1.50	6F6	1.00	6X5	1.50	{25A7GT}	1.50	83V	1.85
{1Q5G /		6F6G	.80	{6X5G / 600}	.90	25AC5G	1.50	84 / 6Z4	1.00
{1Q5GT}	1.50	6F7	1.50	6Y6G	1.50	25B6G	1.85	85	.80
1R5	1.50	6F8G	1.20	6Y7G	1.50	25B8GT	1.85	89	.90
1S4	1.50	6G6G	1.20	6Z7G	1.85	25C6G	1.85	V-99	2.75
1S5	1.50	6H4GT	1.85	6ZY5G	1.20	25L6	1.50	X-99	2.75
1T4	1.50	6H6	1.00	7A4	1.20	25L6G	1.20	117L7GT	2.25
1T5GT	1.50	6H6G	1.00	7A5	1.20	25L6GT	1.00	117M7GT	2.25
1V	.90	6H6GT	1.00	7A6	1.20	25Y5	2.25	117N7GT	2.25
2A3	1.85	6J5	.80	7A7	1.20	25Z5	.90	{117Z6G /	
2A4G	2.75	{6J5G /	.80	7A8	1.20	25Z6	1.20	{117Z6GT}	1.50
2A5	.90	{6J5GT}		7B4	1.20	{25Z6G /	.90	950	1.85
2A6	.90	6J7	1.20	7B5	1.20	{25Z6GT}		1232	1.85
2A7	1.00	6J7G	1.00	7B6	1.20	26	.65		
2B7	1.20	6J7GT	1.00	7B7	1.20	27	.60		
2E5	1.20	6J8G	1.50	7B8	1.20	30	.90		
3A8GT	2.25	6K5G	1.00	7C5	1.20	31	.90		
3Q5GT	1.50	{6K6G /	.90						
		{6K6GT}							

Prices Subject To Change Without Notice

DEPENDABLE **RAYTHEON** QUALITY

SPECIAL TYPE TUBES

MAJESTIC TYPES

Type No.	List Price	Type No.	List Price
2A7S	\$2.25	24S	\$2.25
2B7S	2.25	27S	2.25
2S/4S	2.25	35S/51S	2.25
2Z2/G84	2.25	55S	2.25
6A7S	2.25	56AS	2.25
6B7S	2.25	56S	2.25
6C7	2.25	57AS	2.25
6D7	2.25	57S	2.25
6E7	2.25	58AS	2.25
6F7S	2.25	58S	2.25
6Y5	2.25	75S	2.25
6Z5	2.25	85AS	2.25

Type No.	SPARTON TYPES	List Price
182B/482B		\$1.85
183/483		1.85
485		1.85

SPECIAL RECTIFIERS

BA	\$6.50
BH	3.65
BR	2.65

TELEVISION TYPES

2X2/879	\$2.25
6AB7/1853	1.85
6AC7/1852	2.25
6AG7	2.25
6AL6G	6.75

VOLTAGE REGULATOR TYPES

VR-90	\$2.25
VR-105	2.25
VR-150	2.25

RESISTOR TUBES

Type No.	List Price	Type No.	List Price
1A1	\$1.20	L49D	\$.80
1B1	1.20	K55B	.80
42A	.80	K55C	.80
K42B	.80	K55D	.80
BK42B	.80	L55B	.80
L42B	.80	L55C	.80
L42C	.80	L55D	.80
49A	.80	M73B	.80
K49B	.80	165R	.80
K49C	.80	165R4	.80
K49CB	.80	185R	.80
BK49C	.80	185R4	.80
K49D	.80	185R8	.80
L49B	.80	NB2	.80
L49C	.80	NB8	.80

SOUND SPECIAL TYPES

Type No.	List Price
SS-5U4G	\$1.20
SS-5V4G	1.85
SS-5Y3G	.90
SS-6C5G	1.20
SS-6C8G	1.85
SS-6F6G	1.00
SS-6F8G	1.50
SS-6J7G	1.20
SS-6K6G	1.20
SS-6L6G	2.25
SS-6L7G	1.85
SS-6N6G	2.75
SS-6N7G	1.85
SS-6V6G	1.50
SS-6X5G	1.20
SS-83	1.50
SS-1620	4.70

RAYTHEON DEPENDABLE MINIATURE LAMPS

Lamp No.	Volts	Amps.	Type of Base	Approx. Candle Power	Bead Color	List Price
						Per Unit Pkg. of 10

REGULAR PANEL TYPES

R40	6-8	0.15	Miniature Screw	0.5	Brown	\$0.90
R40A	6-8	0.15	" Bayonet	0.5	Brown	0.90
R41	2.5	0.50	" Screw	0.5	White	0.90
R42	3.2	0.50	" Screw	0.75	Green	1.20
R43	2.5	0.50	" Bayonet	0.5	White	0.90
R44	6-8	0.25	" Bayonet	0.8	Blue	0.90
R45	3.2	0.50	" Bayonet	0.75	Green	1.20
R46	6-8	0.25	" Screw	0.8	Blue	0.90
R48	2.0	0.06	" Screw	0.03	Pink	1.50
R49	2.0	0.06	" Bayonet	0.03	Pink	1.50
R49A	2.1	0.12	" Bayonet	0.07	White	1.80
R50	6-8	0.20	" Screw	1.0	White	1.00
R292	2.9	0.17	" Screw	0.3	White	1.20
R292A	2.9	0.17	" Bayonet	0.3	White	1.20

AUTOMOTIVE TYPES

R51	6-8	0.20	Miniature Bayonet	1.0	White	\$0.70
R55	6-8	0.10	" Bayonet	1.5	White	0.70

Raytheon Dependable Panel Lamps are of the highest quality and are designed especially to meet the requirements of the replacement market.

The color of the bead inside the lamp bulb may be used to identify the more common Raytheon types. This information is shown in the column headed "Bead Color."

Raytheon Miniature Lamps are packed in unit boxes of ten (10) of a type.

All orders for these lamps must be for unit quantities, or multiples, of each type.

Ask your Raytheon Jobber for the new Dealer and Service Helps folder picturing all current Raytheon display material and other selling aids.

Prices Subject To Change Without Notice

RECORD CHANGERS AND RECORDERS



The W-1205 is a complete system in one case, containing recorder with crystal head that cuts the grooves as it records, two-ounce pressure crystal pick-up for play-back, recording amplifier with tubes, crystal microphone, loud speaker and all necessary controls including volume level meter. Will record up to 12" blanks at 78 RPM.

Recording rate is 98 lines per inch or 5 1/4 minutes at 78 RPM. Special design clutch allows immediate setting of cutting needle at starting edge or at any point on the record blank. Drive mechanism is of the worm reduction type with clutch, geared direct to cutting arm.

Auxiliary input available for re-recording from original or commercial recordings using external phono reproducer. Twelve inch records may be reproduced on the play-back. Equipped with 8 foot power cord and jack for plugging in external speaker, adapting equipment to use as a 10 watt P.A. system.

W-1205 PORTABLE RECORDER.....List Price \$149.50
Complete as described above, with tubes. Size of case 10 1/2" high, 16" wide by 20" long. Net weight 40 lbs. Shipping weight 50 lbs. Code: RETRO

The W-1206 is similar to the W-1205 except geared to operate at 33 1/3 RPM. Equipped with 12" cast aluminum turntable which permits cutting 12" blanks. Recording rate 98 lines per inch or over 12 minutes recording time.

W-1206 PORTABLE RECORDER.....List Price \$159.50
Similar to W-1205 except 33 1/3 RPM. Size of case 10 1/2" high, 16" wide by 20" long. Net weight 40 lbs. Shipping weight 50 lbs. Code: RIGOR

AUTOMATIC RECORD CHANGERS



W-1260

Webster-Chicago record changers embody many advanced and exclusive principles combined with simplicity in construction and a minimum of working parts. Pick-up arm is counter-balanced to give a two ounce pressure, minimizing record wear.

Records can be played manually and any record rejected during automatic operation by a simple pressing of button at any point during operation.

STANDARD TYPE

W-1270 AUTOMATIC RECORD CHANGER CHASSIS.....List Price \$39.50
Mounting Plate dimensions 14"x14". Mechanism extends 5 1/2" above mounting plate and 5" below. Shipping weight 25 lbs. Code: PALIS

W-1260 PORTABLE AUTOMATIC CHANGER. List Price \$67.00
Contains the W-1270 chassis mounted in portable carrying case, complete with volume control, A.C. switch, 6" power cord and 6" pick-up shielded connecting cable. Code: PACKE

DELUXE TYPE

W-1290 DELUXE RECORD CHANGER CHASSIS.....List Price \$60.00
Mounting Plate dimensions 13 1/2"x17 1/2". Mechanism extends 5 3/4" above plate and 4 3/4" below. Shipping weight 30 lbs. Code: PERRY

W-1280 PORTABLE AUTOMATIC RECORD CHANGER.....List Price \$87.50
Contains the W-1290 chassis mounted in portable carrying case, complete with 6 foot power cord and shielded pick-up connecting cord. Code: PLAIT



\$149⁵⁰ PORTABLE RECORDER

COMPLETE WITH TUBES

True life-like reproduction of the original at extremely low cost

RECORD-CHANGERS WITH RECORDER



W-1275



W-1295

In addition to automatic play-back of commercial records these units afford manual operation for recording up to 10" blanks at 78 RPM. Also manual play-back of such recordings plus any standard commercial records.

STANDARD TYPE

W-1275 AUTOMATIC RECORD CHANGER CHASSIS AND RECORDER.....List Price \$60.00
Chassis only, less power cord, controls and connecting cable. Shipping Wt. 30 lbs. Code: RELAX

W-1265 PORTABLE AUTOMATIC CHANGER AND RECORDER.....List Price \$115.00
Same as W-1275 except mounted in neutral grey portable carrying case. Complete with VI meter, matching transformer and connecting cables. Size 11" high x 16 1/2" x 16 1/2". Shipping Wt. 40 lbs. Code: REPEL

DELUXE TYPE

W-1295 DELUXE RECORD CHANGER AND RECORDER.....List Price \$80.00
Chassis only less power cord, controls and connecting cable. Shipping Wt. 35 lbs. Code: REFIT

W-1285 PORTABLE DELUXE CHANGER AND RECORDER.....List Price \$135.00
Same as W-1295 except mounted in neutral grey portable carrying case. Complete with VI meter, matching transformer and connecting cable. Size 12" high x 14 1/2" x 17 1/2". Shipping Wt. 45 lbs. Code: REPAY

"The Sound of Tomorrow" . . . WEBSTER-CHICAGO



NEW MICROPHONES AND ACCESSORIES

"UNI-VEL" UNIDIRECTIONAL MICROPHONES

The W-1248 is an entirely new development in microphones, the result of intensive research by Webster-Chicago microphone engineers. Incorporates true cardioid unidirectional characteristics and is the first cardioid type high level, super-fidelity, wide-angle pick-up microphone offered at a price that is practical for general P.A. installations. Full frequency response of 40 to 9,000 cycles; exceptional sensitivity; cardioid pattern allows placement of microphones 30% closer to speakers, and overcomes sound pick-up problems encountered in practically every type of indoor location. Modern streamlined case, attractively finished in black and polished chrome. Tilts 30 degrees. Complete with "built-in" locking type connector and 25 feet of shielded rubber covered cable. Case dimensions 2 1/2" x 7".

W-1248 "UNI-VEL" HIGH IMPEDANCE MICROPHONE List Price \$49.50
Output level 59 d.b. Net wt. 5 lbs.
Shipping weight 8 lbs. Code: MITER

W-1248-L "UNI-VEL" LOW IMPEDANCE MICROPHONE List Price \$49.50
For 200/250 ohm inputs. Output level -63 d.b. Ship. wt. 8 lbs. Code: MISTY

"DUO-VEL" VELOCITY MICROPHONES

The W-1247 is a new velocity (ribbon) microphone developed in Webster-Chicago's laboratories for those special applications where bi-directional characteristics and high quality performance is required. Free from cavity resonance, rugged in construction, and with high output level; highly recommended for stage pick-ups and installations where a microphone is operated close to reproducers. Uses corrugated dural ribbon and special Alnico magnet structure. Frequency response 40-9,000 cycles. Housed in same attractive case as the W-1248. Complete with 25 feet of shielded rubber covered cable.

W-1247 "DUO-VEL" HIGH IMPEDANCE MICROPHONE List Price \$39.50
Output level -56 d.b. Net wt. 4 lbs.
Shipping wt. 7 lbs. Code: MIRTH

W-1247-L "DUO-VEL" LOW IMPEDANCE MICROPHONE List Price \$39.50
For 200/250 ohm inputs. Output level -62 d.b. Shipping wt. 7 lbs. Code: MIGHT



UNI-VEL — Microphone
DUO-VEL — Microphone

"SUPER-DYNE" DYNAMIC MICROPHONES

W-1246 is a new dynamic microphone designed to give a high level output with high fidelity response of 40-10,000 cycles. Utilizes a new design of Alnico magnet to give highest flux density per unit gap, dural diaphragm, and edge wound flat wire voice coil. The W-1246 is recommended as the ideal outdoor microphone wherever the highest quality of reproduction combined with rugged construction is required. In addition to its excellent frequency response, this microphone has wide range pick-up and freedom from atmospheric or climatic effects, making it most suitable for general all-around public address work. Assembly is in a compact and neat streamlined case, finished in gun-metal with polished chrome bars. Head adjustable through a 90° angle. Detachable cord assembly with locking type plug and 25 feet shielded rubber covered cable.



W-1246 "SUPER-DYNE" HIGH IMPEDANCE DYNAMIC MICROPHONE List Price \$29.50
Output level -55 d.b. Case dimension 2" x 3 1/2".
Shipping wt. 3 lbs. Code: MONTE

W-1246-L "SUPER-DYNE" LOW IMPEDANCE DYNAMIC MICROPHONE List Price \$29.50
For 200 250 ohm inputs. Output level 60 d.b.
Shipping wt. 3 lbs. Code: MULET

CRYSTAL MICROPHONES

The popular W-1236 crystal microphone includes such modern features as internal screen-protected cartridge, moisture-sealed crystal, curvilinear diaphragm for high efficiency, high level output, high capacity torsion drive crystal, combination semi-directional and non-directional mounting, wide range reproduction, 50-9,000 cycles, and shock-proof cartridge suspension. Case finished in polished chrome, complete with 25 feet of single conductor shielded cable, detachable with locking type connector.



W-1236 CRYSTAL MICROPHONE List price \$23.50
Complete as described above.
Shipping weight 3 lbs. Code: MACAD

W-1236-H CRYSTAL MICROPHONE List Price \$24.50
Same as W-1236 except complete with handle.
Code: MOROC

W-1236-HS CRYSTAL MICROPHONE List Price \$27.00
Same as W-1236 except complete with handle and "on-off" switch.
Code: MOTLE

FLOOR STANDS

Two models of full length floor stands are available. Both types have full size heavy bases and patented new type clutch. They are finished in a durable polished chrome that will withstand hard usage over a long period of time.



W-1121-A FLOOR STAND List Price \$14.00
A 4 section stand for portable use. Adjustable from 48" to 60" Also can be used as a banquet stand by eliminating 2 sections and is then adjustable from 17" to 30"
Shipping Wt. 17 lbs. Code: STRIP

W-1122 FLOOR STAND List Price \$14.00
A 2 piece floor stand, adjustable from 35" to 60".
Shipping Wt. 19 lbs. Code: STOUP

DYNAMIC MICROPHONES

The W-1245, with its dural diaphragm incorporating a new edge wound flat wire voice coil assembly and improved Alnico magnet assembly, is now available at a surprisingly low list price. Ideal for portable and mobile systems and wherever hard usage demands a rugged microphone. Frequency response 50-8,000 cycles. Assembled in polished chrome case with detachable cord and locking type plug, complete with 25 feet of shielded R.C. cable.

W-1245 HIGH IMPEDANCE DYNAMIC List Price \$22.50
Output level 60 d.b. Shipping wt. 6 lbs.
Code: MALAR

W-1245-L LOW IMPEDANCE DYNAMIC List Price \$22.50
For 200/250 ohm inputs. Output level 65 d.b.
Code: MARMO

W-1245-H DYNAMIC MICROPHONE List Price \$23.50
Same as W-1245 except with handle.
Code: MUSIC

W-1245-HS DYNAMIC MICROPHONE List Price \$26.00
Same as W-1245 except with handle and "on-off" switch.
Code: MATAD

MICROPHONE TRANSFORMER

Impedance matching transformers for installations requiring one or more microphones operating at greater distance from amplifier than 50 feet. Eliminates hum and stray r.f. pick-up. Quickly adapts high impedance inputs to low impedance microphones. Five-foot cord and lock type plug suitable for any Webster-Chicago amplifier and microphone. W-201 recommended for high fidelity response.



W-200 MICROPHONE TRANSFORMER List Price \$15.00
Shipping weight 3 lbs. Code: THORI

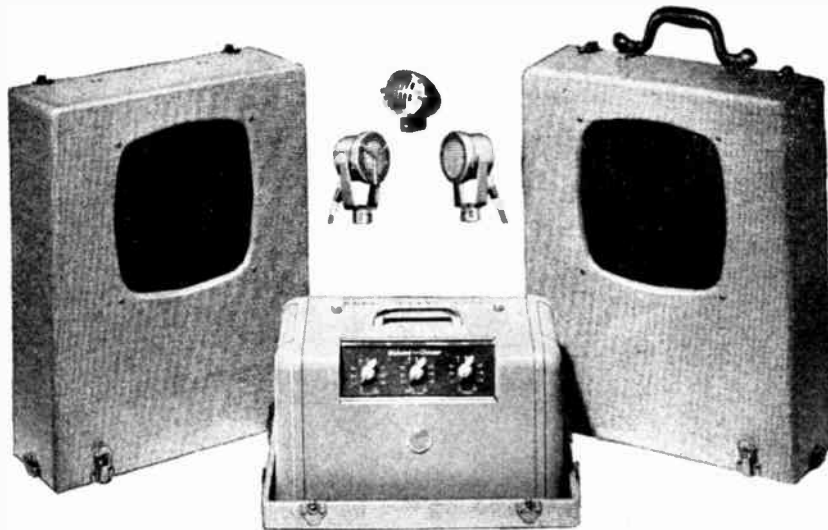
W-201 MICROPHONE TRANSFORMER List Price \$10.00
Shipping weight 2 lbs. Code: TIME

WEBSTER - CHICAGO . . . "The Sound of Tomorrow"

ECONOMY PORTABLE SYSTEMS



ALL EQUIPPED WITH TWO 12" SPEAKERS



ECONOMY—PERFORMANCE—PORTABILITY

This new economy portable line of sound equipment is Webster-Chicago's answer to the need for a quality portable sound system priced within the budget of the smaller band, traveling show, carnival, lecturer, etc. Available in 3 power sizes to fit your particular need, 10 watt, 14 watt, and 30 watt. Each system completely contained in one carrying case easily carried by one person. For the first time Webster-Chicago equipment is available to the smaller bands, shows, etc., on an economy basis. For complete satisfaction insist upon Webster-Chicago when you purchase your next sound system. The complete portability of this new line makes these systems ideal for traveling entertainers. Entire system consisting of amplifier, two speakers, microphone and necessary connecting cable is housed in single carrying case.

DESCRIPTION OF EQUIPMENT

Each system is complete with two 12" P.M. dynamic speakers equipped with 25 feet of cable and plug; crystal or dynamic microphone (as selected) complete with 25 feet shielded cable and plug. 10 watt, 14 watt, or 30 watt amplifier (as selected) all housed in single portable case finished in Black and Grey airplane cloth. 30 watt system equipped with two heavy duty 12" P.M. dynamic speakers.

The amplifiers furnished with these "Economy" systems are the standard equipment as listed and described in Webster-Chicago catalog No. 140. This catalog contains a more complete range of sound systems, starting at 10 watts and up to 60 watts of power. Also a complete listing of accessories, including reproducers, portable recorders, record changers, microphones, microphone stands and cable.

LIST PRICES

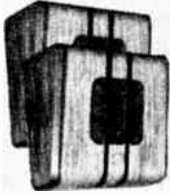
PL-811 PORTABLE SYSTEM	\$93.00
1 — W810 amplifier (less tubes)	
2 — PM12GS 12" speakers	
2 — 25' speaker cables and plugs	
1 — W30 crystal microphone with 25' cable	
1 — W5011 three-piece carrying case	
PX-811 PORTABLE SYSTEM	\$104.00
Same as PL-811 except with W-1236 crystal microphone in place of W-30 crystal microphone	
PD-811 PORTABLE SYSTEM	\$103.00
Same as PL-811 except with W-1245 dynamic microphone in place of W-30 crystal microphones	
W-810 AMPLIFIER ONLY (less tubes)	\$39.50
KIT OF MATCHED TUBES	\$6.50
PL-815 PORTABLE SYSTEM	\$108.00
1 — W-814 amplifier (less tubes)	
2 — PM12GS 12" speakers	
2 — 25' speaker cables and plugs	
1 — W-30 crystal microphone with 25' cable	
1 — W-5011 three-piece carrying case	
PX-815 PORTABLE SYSTEM	\$119.50
Same as PL-815 except with W-1236 crystal microphone in place of W-30 crystal microphone	
PD-815 PORTABLE SYSTEM	\$118.50
Same as PL-815 except with W-1245 dynamic microphone in place of W-30 crystal microphone	
W-814 AMPLIFIER ONLY (less tubes)	\$54.00
KIT OF MATCHED TUBES	\$11.25
PL-831 PORTABLE SYSTEM	\$142.00
1 — W-830 amplifier (less tubes)	
2 — W-3912 PM 12" H.D. speakers	
2 — 25' speaker cables and plugs	
1 — W-30 crystal microphone with 25' cable	
1 — W-5011 three-piece carrying case	
PX-831 PORTABLE SYSTEM	\$153.00
Same as PL-831 except with W-1236 crystal microphone in place of W-30 crystal microphone	
PD-831 PORTABLE SYSTEM	\$152.00
Same as PL-831 except with W-1245 dynamic microphone in place of W-30 crystal microphone	
W-830 AMPLIFIER ONLY (less tubes)	\$79.50
KIT OF MATCHED TUBES	\$12.75

"The Sound of Tomorrow"

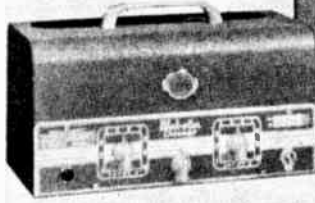
WEBSTER-CHICAGO



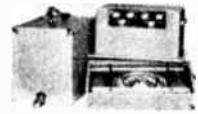
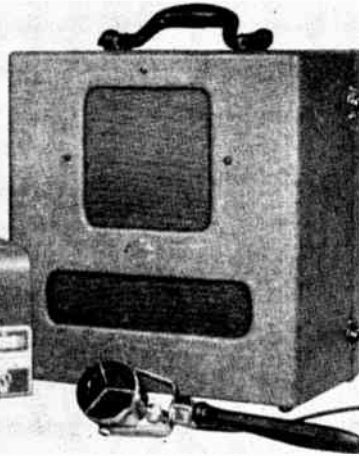
10 AND 20 WATT SYSTEMS



W-2908



PX-810 Portable System



FX-920

LIST PRICES

W-810 AMPLIFIER only (less tubes) . . . \$ 39.50

Shipping Wt. 18 lbs. Code: AUTHE

PX-810 PORTABLE SYSTEM 90.50

- 1 W-810 Amplifier (less tubes)
- 1 W-3908 PM 8" Speaker
- 1 25-ft. Speaker Cable and Plug
- 1 W-1236-H Crystal Microphone
- 1 25-ft. Shielded Microphone Cable and Plug
- 1 W-5008 Two piece Carrying Case

FX-810 FIXED SYSTEM 108.50

- 1 W-810 Amplifier (less tubes)
- 2 W-3908 PM 8" Speakers
- 2 W-2908 Baffles
- 1 W-1236 Crystal Microphone
- 1 25-ft. Shielded Microphone Cable and Plug
- 1 W-1122 Extension Floor Stand

KIT OF MATCHED TUBES for W-810. 6.50

W-920 AMPLIFIER only \$ 84.50
(less tubes)

Shipping Weight 35 lbs. Code: AMATE

PX-920 PORTABLE SYSTEM 218.00

- Shipping Weight 90 lbs. Code: ALTRU
- 1 W-920 Amplifier (less tubes)
- 2 W-3913 PM 12" Speakers
- 2 Speaker Cables & Plugs
- 1 W-1236 Crystal Microphone
- 1 25-ft. Shielded Microphone Cable & Plug
- 1 W-1121-A Portable Floor Stand
- 1 W-5030 Duplex Speaker Carrying Case
- 1 W-5031 Amplifier Carrying Case

FX-920 FIXED SYSTEM 198.00

- Shipping Weight 85 lbs. Code: ARTIS
- 1 W-920 Amplifier (less tubes)
- 2 W-3913 PM 12" Speakers
- 2 W-2923 Speaker Baffles
- 1 W-1236 Crystal Microphone
- 1 25-ft. Shielded Microphone Cable & Plug
- W-1122 Extension Floor Stand

KIT OF MATCHED TUBES for W-920. 13.25

— This powerful small portable or fixed system, with its bass reflex speaker case is suitable for store window demonstrations, small churches, lodge halls, clubs, carnivals and general ballyhoo. The W-810 Amplifier is also recommended for hard of hearing systems in theatres, and churches, either with its own microphone or as a separate earphone amplifier for attaching to existing system. It is also ideal for small paging systems, or as individual booster amplifiers to a general call or communication system.

— The PX-810 portable system consists of a combination carrying case containing the 10 watt amplifier, hand microphone, speaker, and cable. The amplifier is removable and the back cover replaced on the case to form a complete bass reflex type baffle. The heavy duty 8" permanent magnet speaker is furnished complete with a 25 foot durable speaker cable and polarized plug. Microphone equipment consists of a W-1236-H crystal microphone with 25 foot rubber covered shielded cable and plug.

The FX-810 fixed system includes the 10 watt amplifier and two 8" speakers mounted in sloping front walnut baffles. Crystal microphone is of the professional type chrome plated with 25 feet of shielded microphone cable and snap-lock plug. Microphone is furnished with chrome plated adjustable floor stand having patented friction type clutch.

W-920 AMPLIFIER

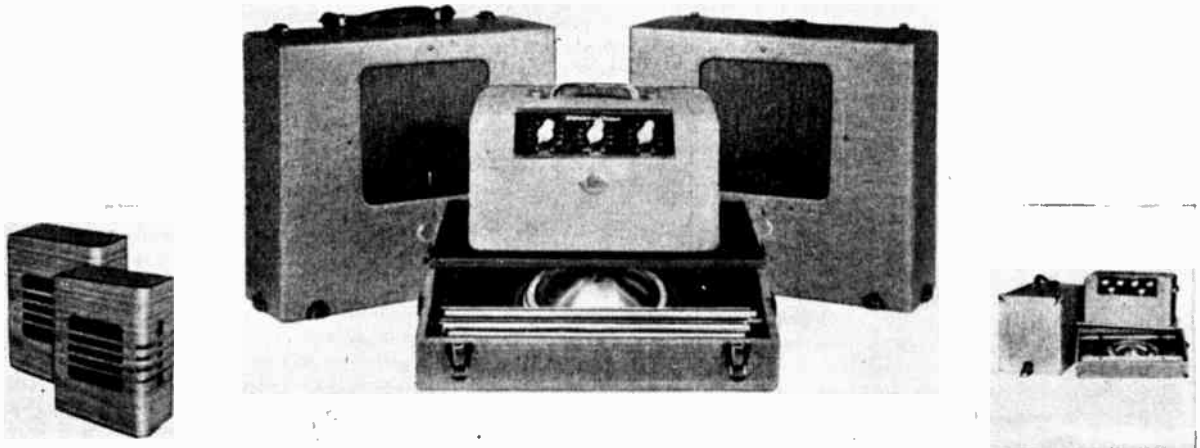
— The W-920 amplifier is offered in a variety of portable and permanent systems. Illuminated "No-Glare" glass panel allows convenient operation regardless of lighting conditions. Electronic mixing of the two high-gain microphones and two low-gain auxiliary circuits. Dual tone compensation allows complete control of bass and treble independently for perfect operation under the most adverse acoustical conditions. Snap-lock input plugs prevent cables from being accidentally disconnected at a critical moment.

Two position remote mixer control makes it possible to independently control two microphones simultaneously from a point anywhere within the audible range of the loud speakers.

Both portable and fixed systems are furnished complete with bass reflex type speaker baffles. The heavy duty speaker baffles and speakers furnished with these systems are capable of handling the full output of the amplifier. In the portable system the rugged and attractive carrying case for the amplifier also houses the microphone and cable, full length floor stand and remote mixer. The speaker carrying case of matched design includes space for the two speaker cables, one 30-ft. and one 50-ft.

WEBSTER - CHICAGO . . . "The Sound of Tomorrow"

14, 30 AND 60 WATT SYSTEMS



W-2923

PX-814 Portable System

PX-830

W-814 AMPLIFIER

The W814 portable systems are complete public address units built basically around a skillfully designed 14 watt amplifier. The complete system is housed in one rugged attractive 3 piece carrying case including two 10" speakers, microphone, full length floor stand, and two speaker cables, one 30 ft. and one 50 ft. long.

Amplifier is conveniently mounted on a removable base which acts as a cover for the microphone stand compartment. Weight is distributed evenly for convenience in carrying. Case finished in attractive airplane cloth which blends with the most modern room finishes.

Fixed systems, complete in every detail, consists of 14 watt amplifier, microphone and floor stand, two 10" permanent magnet speakers with modernistic walnut baffles. Bass reflex type baffles insure higher output at a lower feedback point.

All components used in these systems are matched to insure the highest degree of quality tone reproduction.

W-830 AMPLIFIER

The W-830 amplifier is used as a base for several systems designed for both portable and permanent installation. Indirectly illuminated "No-Glare" glass control panel assures perfect control of equipment without dependence on outside lighting conditions. Electronic mixing circuit allows the use of two high impedance microphones, combining their output within the amplifier to insure perfect blending and full quality.

Such safety features as self-contained fuse, snap-lock input plugs, heavy duty speaker cables and plugs, give these systems the ability to withstand an unusual amount of usage and rough handling. Heavy duty permanent magnet speakers are contained in bass reflex type baffles, resulting in a full rich tone quality.

W-860 AMPLIFIER

The W-860 is a high powered amplifier designed to operate in areas subjected to high prevailing noise levels. The unit, housed in a modern wrinkle finish case, incorporates such features as multi-stage inverse feed-back, voice coil and line impedance outputs, no glare illuminated glass panel, and locking type input plugs.

Electronic mixing circuit allows the use of two high impedance microphones combining their output within the amplifier to insure perfect blending and full quality.

LIST PRICES

W-814 AMPLIFIER only (less tubes) . . . \$ 54.00

Shipping Weight 20 lbs. Code: ATEN

PX-814 PORTABLE SYSTEM 135.00

Shipping Weight 60 lbs. Code: ATTEX

- 1 W-814 Amplifier (less tubes)
- 2 W-3910 PM 10" Speakers
- 2 Speaker Cables and Plugs
- 1 W-1236 Crystal Microphone
- 1 25-ft. Shielded Microphone Cable & Plug
- 1 W-1121-A Portable Floor Stand
- 1 W-5014 Three piece Carrying Case

FX-814 FIXED SYSTEM 149.50

Shipping Weight 51 lbs. Code: AURIS

- 1 W-814 Amplifier (less tubes)
- 2 W-3910 PM 10" Speakers
- 2 W-2923 Baffles
- 1 W-1236 Crystal Microphone
- 1 25-ft. Shielded Microphone Cable & Plug
- 1 W-1122 Extension Floor Stand

W-830 AMPLIFIER only (less tubes) . . . \$ 79.50

Shipping Weight 35 lbs. Code: ACOUS

PX-830 PORTABLE SYSTEM 213.00

Shipping Weight 93 lbs. Code: ADIEU

- 1 W-830 Amplifier (less tubes)
- 2 W-3913 PM 12" Speakers
- 2 Speaker Cables & Plugs
- 1 W-1236 Crystal Microphone
- 1 25-ft. Shielded Microphone Cable & Plug
- 1 W-1121-A Portable Floor Stand
- 1 W-5030 Duplex Speaker Carrying Case
- 1 W-5031 Amplifier Carrying Case

FX-830 FIXED SYSTEM 193.00

Shipping Weight 87 lbs. Code: AGRIN

- 1 W-830 Amplifier (less tubes)
- 2 W-3913 PM 12" Speakers
- 2 W-2923 Baffles
- 1 W-1236 Crystal Microphone
- 1 25-ft. Shielded Microphone Cable & Plug
- 1 W-1122 Extension Floor Stand

W-860 AMPLIFIER only (less tubes) . . \$109.50

Shipping Weight 45 lbs. Code: ABACK

FX-860 FIXED SYSTEM 225.00

Shipping Weight 110 lbs. Code: ABBOT

- 1 W-860 (less tubes)
- 4 W-3913 PM 12" Speakers (less baffles)
- 1 W-1236 Shielded Microphone Cable & Plug
- 1 W-1122 Extension Floor Stand

"The Sound of Tomorrow" . . . WEBSTER - CHICAGO

PAGE SEVEN



MOBILE SYSTEMS

- 6 Volt DC or 117 Volt AC
- "No-Glare" Illuminated Glass Panel
- Noiseless Gear Drive Phono Motor
- Economical Power Requirements
- Tone Compensation



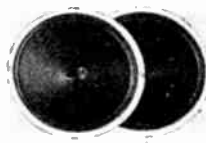
W-820 Phono-Amplifier and Accessories



W-929 (open)



PX-618 System



W-929 PHONO-AMPLIFIER COMBINATION

EQUIPMENT — W-929 mobile system is built around a phono-amplifier combination carefully designed for extra hard usage. Housed in an attractive steel cabinet finished in grey crystalline. A new Webster feature is the streamlined removable hinged cover, protecting the phono mechanism. The "No-Glare" illuminated control panel is indispensable where little or no light is available. New gear drive phonograph motor combines noiseless correct speed operation in all temperatures with the constant speed synchronous type advantages of previous models. Dual tone controls are another new feature. A new innovation in mobile units is the provision for a two position remote mixer operating anywhere within hearing distance of the speakers, or for control at remote microphone locations.

Two high power W-3913 dynamic speaker chassis only, or completely assembled in W-2618 directional baffles, complete with 15 foot cords, are part of the system. Where speakers are to be operated over 50 feet from the amplifier, two W-3913-A speakers (with line transformer) should be used, which will allow the use of long speaker lines of several hundred feet. The systems are complete with 5 foot battery cable with clips and 7 foot AC power cord.

W-820 PHONO-AMPLIFIER COMBINATION

EQUIPMENT — The W-820 is a 20 watt phono-amplifier combination very compact in size and particularly adapted for mobile application. It includes the new noiseless gear drive phonograph motor that will maintain correct speed under all conditions of operation or weather. The "No-Glare" illuminated control panel, contains microphone, phono, and tone controls.

The two W-3912 speakers supplied with the system are heavy duty 12 watt speakers specially designed to be used under the difficult operation required with a 20 watt mobile type of system. Complete with 15 foot cords, they are available with or without the W-2618 metal baffles. Two W-3912-A speakers (with line transformer) are recommended where speaker lines are apt to run over 50 feet each.

A hand type crystal or dynamic microphone with 25 foot shielded cable, complete with "On-Off" switch, is furnished. 5 foot battery cable with clips and 7 foot AC power cord, equipped with polarized plugs included.

18 WATT 6V. DC. — 117 V. A. C. MODEL Less Phono-Assembly

The W-618 is a combination 6V DC and 117V AC amplifier less phono-assembly. Available for car installations and for picnics, rural dances, lectures, etc., where AC supply is either not available or too difficult to obtain. Similar in facilities to the W-820 except for the phonograph, it is supplied both in a portable and fixed system. Tubes used: 1-6J7, 2-6N7, 2-6L6G, 1-6W5G. Current consumption (DC) 13 amps, (AC) 100 watts.

LIST PRICES

W-929 PHONO-AMPLIFIER COMBINATION (less tubes)	\$179.50
Shipping Weight 65 lbs. Code: MALAC	
MX-929 MOBILE SYSTEM	252.00
Shipping Weight 85 lbs. Code: MALIG	
1 W-929 Phono-Amplifier combination (less tubes)	
2 W-3913 PM 12' Speakers (less baffles)	
2 15-ft. Speaker Cables & Plugs	
1 W-1236-HR Crystal Microphone	
1 25-ft. 2 Conductor Shielded Microphone Cable and Plug	
MD-929 MOBILE SYSTEM	251.00
Shipping Weight 87 lbs. Code: MALNU	
Same as MX-929 except with W-1245-HR Dynamic Microphone and 3 Conductor Shielded Cable in place of W-1236-HR Crystal Microphone	
KIT OF MATCHED TUBES for W-929	14.25
W-820 PHONO-AMPLIFIER COMBINATION only (less tubes) \$115.00	
Shipping Weight 35 lbs. Code: MANIF	
MX-820 MOBILE SYSTEM	174.50
Shipping Weight 55 lbs. Code: MANTE	
1 W-820 Phono-Amplifier (less tubes)	
2 W-3912 PM 12' Speakers (less baffles)	
2 15-ft. Speaker Cables & Plugs	
1 W-1236-HS Crystal Microphone	
1 25-ft. Shielded Microphone Cable & Plug	
MD-820 MOBILE SYSTEM	173.50
Shipping Weight 57 lbs. Code: MARQU	
Same as MX-820 except with W-1245-HS Dynamic Microphone in place of W-1236-HS Crystal Microphone	
KIT OF MATCHED TUBES for W-820	10.85
W-618 AMPLIFIER (less tubes)	\$ 75.00
Shipping Weight 20 lbs. Code: AUTUM	
PX-618 PORTABLE SYSTEM	157.50
Shipping Weight 60 lbs. Code: AUTOT	
1 W-618 Amplifier (less tubes)	
2 W-3910 PM 10' Speakers	
2 Speaker Cables & Plugs	
1 W-1236 Crystal Microphone	
1 25-ft. Shielded Microphone Cable & Plug	
1 W-1121-A Portable Floor Stand	
1 W-5014 Three piece Carrying Case	
KIT OF MATCHED TUBES for W-618	10.85
Shipping Weight 2 lbs. Code: THETA	

WEBSTER - CHICAGO . . . "The Sound of Tomorrow"

"MASTER" SYSTEMS

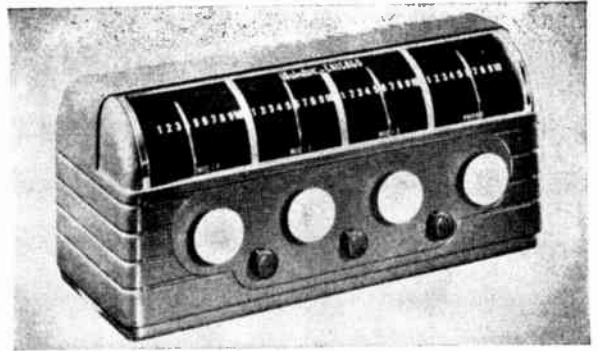
Featuring Separate Mixer and Power Units

EQUIPMENT and APPLICATION

This "Master" series represents a new departure in sound equipment design. The objective of Webster-Chicago engineers was to obtain the ultimate in low hum level, maximum power output, complete control of tone quality, practical visual and manual controls, flexibility of application, plus all-around maximum efficiency and stability. As a result of this engineering effort Webster-Chicago presents a "Master" series of amplifiers that is far ahead of anything heretofore available to the trade. The unique and pleasing appearance of these units forcefully tells the story of the quality and advanced design incorporated in the housings.

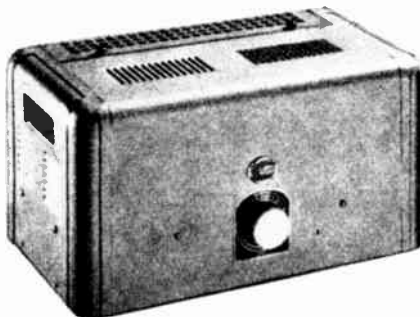
Its flexibility is virtually unlimited. One or more 25, 45 or 75 watt power stages can be operated adjacent to or remotely from one or more mixers. Thus one mixer and three power stages of 75 watts each would afford a total power output of 225 watts. This arrangement can be varied as to number of mixers and power stages to obtain practically any required capacity of power or number of microphones. For example, two W-1004 mixers and two W-1075 power stages will mix 6 microphones and two phonos supplying 150 watts of power to the speaker load.

Ideal for handling varied sound jobs from the largest needs such as Fairs, Expositions, Auditoriums and Athletic Fields down to the smaller installations for orchestras, restaurants, churches and clubs. Its outstanding virtue of low hum level makes it particularly adaptable for all installations demanding absolutely quiet operation.



MIXER SPECIFICATIONS

W-1004		W-1002	
GAIN High imped. microphone -76 DB, Low imped. 200-250 ohms -70 DB Phono -65 DB.		GAIN High imped. microphone -76 DB, Low imped. 200-250 ohms -70 DB Phono -65 DB.	
FREQUENCY RESPONSE ± 1 1/2 DB 50-10,000 Cycles		FREQUENCY RESPONSE ± 1 1/2 DB 50-10,000 Cycles	
TUBES (9) 4-6SF5, 2-6SC7, 1-6I5, 1-6L7, 1-6H6		TUBES (5) 2-6SF5, 2-6SC7, 1-6I5	
CONTROLS (7) 3 — Microphones 1 — Phono Microphone 1 — Bass with power switch 1 — Treble 1 — Expansion		CONTROLS (5) 2 — Microphone-phonc 1 — Bass 1 — Treble 1 — "on-off" Power Switch	
INPUTS (4) 3 — Microphones, 2 megohms or 250 ohms 1 — Phono-Microphone, 20,000 ohms & 1/2 megohm		INPUTS (2) 2 — Microphones, 2 megohms & 250 ohms or 2 — Phono 20,000 ohms	
OUTPUT IMPEDANCE 500 ohms		OUTPUT IMPEDANCE 500 ohms	



POWER AMPLIFIER SPECIFICATIONS

	W-1025	W-1045	W-1075
POWER OUTPUT	25 Watts	45 Watts	75 Watts
COVER-AGE Indoors Outdoors	5,000 to 10,000 people 38,000 sq. ft.	10,000 to 25,000 people 60,000 sq. ft.	25,000 to 40,000 people 125,000 sq. ft.
GAIN	-52 DB	-54 DB	-57 DB
FREQUENCY RESPONSE	± 1 1/2 DB 40-10,000 cyc.	± 1 1/2 DB 40-10,000 cyc	± 1 1/2 DB 40-10,000 cyc.
TUBES	1-6N7, 2-6L6G 1-5V4G	2-6N7, 2-6L6G 2-5V4G, 1-6X5	2-6N7, 4-6L6G 2-5V4G, 1-6X5
CONTROLS	1 Master	1 Master	1 Master
INPUTS	1 Mixer .15 Meg. 1 Aux. additional power stage	1 Mixer .15 Meg. 1 Aux. additional power stage	1 Mixer .15 Meg. 1 Aux. additional power stage
OUTPUT IMPEDANCE	4, 8, 250, & 500	4, 8, 250, & 500	2, 4, 8, 250, & 500
POWER CONSUMPTION	125 Watts 117 V. 50-60 Cycles	200 Watts 117 V. 50-60 Cycles	250 Watts 117 V. 50-60 Cycles

LIST PRICES

W-1002 MASTER MIXER-PREAMPLIFIER (less tubes) Similar to W-1004 "Master" mixer except having 2 position instead of 4 position mixer; the extreme left and right scales controlling the bass and treble response. Does not include expansion. Two position mixer for 2 Hi-lo impedance microphone inputs; can operate phono into either input. Shipping Weight 23 lbs. Code: AROSE	\$65.00
KIT OF MATCHED TUBES for W-1002	6.50
W-1004 MASTER MIXER-PREAMPLIFIER (less tubes) For use with one or more Master power amplifiers as listed below. Shipping Wt. 25 lbs. Code: ANISE	85.00
KIT OF MATCHED TUBES for W-1004	11.75
W-1025 MASTER POWER AMPLIFIER only (less tubes) A 25 Watt power amplifier and supply for use with W-1004 mixer. Shipping Wt. 35 lbs. Code: ANZAC	60.00
KIT OF MATCHED TUBES for W-1025	8.50
W-1045 MASTER POWER AMPLIFIER only (less tubes) Same as W-1025 except delivers 45 watts. Shipping Weight 38 lbs. Code: APACE	80.00
KIT OF MATCHED TUBES for W-1045	14.25
W-1075 MASTER POWER AMPLIFIER (less tubes) Same as W-1025 except delivers 75 watts. Shipping Weight 48 lbs. Code: APEAK	90.00
KIT OF MATCHED TUBES for W-1075	18.50
W-1000 MASTER POWER SUPPLY (less tubes)	27.50
For supplying current to W-1004 mixer only Shipping Wt. 17 lbs. Code: ANILE	
W-1001 MASTER "PLUG-IN" MICROPHONE TRANSFORMER Converts any one of the microphone inputs of the Master mixer to low impedance 200-250 ohms. Shipping Weight 2 lbs. Code: THECA	11.50

"The Sound of Tomorrow"... WEBSTER-CHICAGO



COMMUNICATION DELUXE



2 STATION SYSTEM

The W-102 system comprises a W-101 master and a W-100-S remote station. When the master calls the remote station, the latter can answer without operating any control. Master station "Talk-Listen" switch has

Amplicall

three positions; horizontal position for listening, push down to talk (switch automatically returns to listen position), and raised to a third locking position called the "Silent" position, which eliminates reproduction of any sound from the remote station.

LIST PRICE

W-102 TWO-STATION SYSTEM..... List Price \$44.50

Made up of a W-101 master and W-100-S remote with tubes, less any connecting cable.
Shipping weight 19 lbs. Code: SEVER

MASTER and REMOTE STATIONS SYSTEMS



W-106O



W-400-S

The W-100 systems are among the most popular types of communicating equipment and fit the needs of the greatest number of installations. Starting with a 6-station model to handle the popular demand for six or less remote stations; there are also twelve and eighteen station models available to take care of the more expanded needs of larger installations.

LIST PRICES

W-106 MASTER STATION..... List Price \$45.00
6-position push-button switch, 6 ft. connector cable and tubes.
Shipping weight 10 lbs. Code: SYNOP

W-112 MASTER STATION..... List Price \$52.50
Similar to W-106 except with 12 selector buttons. Code: SYNTA

W-118 MASTER STATION..... List Price \$60.00
Similar to W-106 except with 18 selector buttons. Code: SYPEN
For carphone models add letter "Q" — additional cost \$6.50 list.

W-400-S REMOTE STATION..... List Price \$13.50
Complete with originating switch and volume control.
Shipping weight 7 lbs. Code: SYRUP

SYSTEMS CONSISTING OF ALL MASTER STATIONS

W-200 "SERIES" — 2 Models, for 12 and 24 Stations

THE new W-200 series systems offer many new and desirable features such as — silent humless stations when not in use; both incoming and outgoing volume controls; multiple private conversations; AC-DC application; individual locking finger-tip push button selectors; three-position talk-listen switch including new combined dictating and "Q" operation position; new balanced lines; new efficiency in tubes and modernistic streamlined walnut two-tone case.

Webster-Chicago also manufactures other communication systems including the W-300 series of higher powered paging systems (10 and 25 watts) with return speech and a deluxe W-400 series combining multiple master stations and remote stations on the same system. Write for complete catalog No. 240 giving full details including high powered industrial paging systems (200 watts and over) with both group and selective paging.

LIST PRICES

W-212 MASTER STATION..... List Price \$52.50
12-position push-button switch, 6' connector cable and tubes.
Shipping weight 10 lbs. Code: SENAR

W-224 MASTER STATION..... List Price \$65.00
24-position push-button switch, 6' connector cable and tubes.
Shipping weight 11 lbs. Code: SERAI
For "Q" models add \$5.00 list.

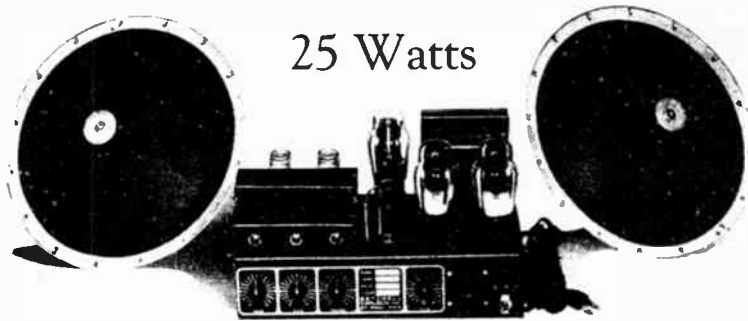
JB-109 JUNCTION BOX..... List Price \$ 2.75
For use with W-212 and W-106 master.
Shipping weight 1 lb. Code: JALAP

JB-110 JUNCTION BOX..... List Price \$ 4.25
For use with W-224 and W-112 master.
Shipping weight 2 lbs. Code: JODEL

WEBSTER - CHICAGO . . . "The Sound of Tomorrow"

HARRY REED RADIO SUPPLY

Setchell Carlson SOUND SYSTEMS



25 Watts

Model PA 1225

A 25-Watt Amplifier With Two
12" P. M. Dynamic Power Speakers

List Price

Complete with Tubes
Speakers and Microphone

List Price, **\$89.45**

HALLS—PAVILIONS—RACE AND DRILL TRACKS—STADIUMS—ROLLER RINKS—SCHOOLS—CARNIVALS—CHURCHES, ETC.

Perfectly matched assembly—25 watts undistorted beam power—3 separately controlled high gain input channels (2 microphone, 1 phono)—line input, 135 watts, 110 volt-60 cycle A. C. Tubes: 3—6F5, 1—6C5, 2—6L6G, 1—5Z3.

Two Wright-DeCoster, 12-inch, Nokoil, 15 Watt Power Speakers with 1½-inch bakelite voice coils, designed to handle the full output of the amplifier.



Model 65B—65 Watts. List Price complete with tubes . . . \$99.00

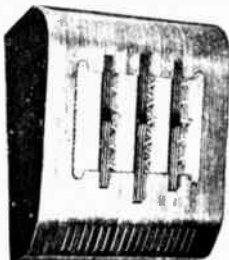
SPECIFICATIONS

Undistorted Power Output	Gain	Number of Channels	Input Impedance
65 Watts	140 DB	3 Mike 1 Phono	15 Meg. Ohm-Phono, 1½ Megs
Output Impedance	Output Stage	Number of Tubes	Tone Control
250 Ohms	A	11	Full Range
Number of Speakers Recommended—4 to 8—12S or 12H 5 to 12—10D			105-125 V. 60 C. Line Input. at Max. Pr. Output 300 Watts
			Tubes Used: 4—6F5 1—6C5 4—6L6 2—5Z3

Note:—A combination of 10S and 12S speakers can be used. Total impedance should equal.....250 ohms

Size, 12½x16¼x8½.

Shipping weight, 40 lbs.



A Bass reflex deluxe wall mounting speaker. Especially desirable where appearance is of importance. Hand rubbed walnut finish with overlaid ebony grille bars.

MODEL 10D

7½ watt 10" P. M. Dynamic Speaker, impedance 1,000, 1,500, 2,000 ohms. Size, 13½x18x7¾. Shipping weight, 15 lbs. List Price—Complete... **\$24.50**

MODEL 12D

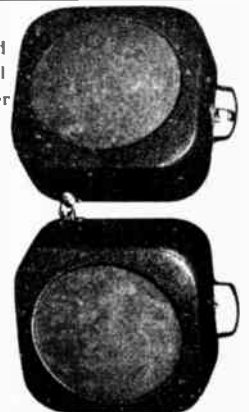
15 watt 12" P. M. Dynamic Speaker, impedance 500, 1,000, 1,500 ohms. Size, 17½x21¼x10½. Shipping Weight, 25 lbs..... **\$39.60**

Model 9S
Two 10" P. M. Dynamic Speakers, designed especially for the 7B amplifier. Twin metal case with baked brown crackle finish. Power handling ability, each speaker, 3½ watts. Transformer impedance, 1,000, 1,500 and 2,000 ohms.

Size, 11x11¼x5½, each half.

Shipping weight 18 lbs.

List Price **\$24.50**
with 2—35' cords and plugs



MODEL S-C CRYSTAL MICROPHONE

A low cost crystal microphone for amateurs, sound truck and concession stand operators. Fits any standard stand and is lightweight for hand use. Range, 40 to 7,000 cycles. Output level, 52 DB. Shipping weight, 2 lbs.

List Price with 15 ft. removable cable and plug..... **\$14.95**

HARRY REED RADIO SUPPLY

SETCHELL CARLSON SOUND SYSTEMS

Model 7B—7 Watts. LIST PRICE— Complete with tubes \$29.00



SPECIFICATIONS

Undistorted Power Output	Gain	Number of Channels	Input Impedance
7 Watts	130 DB	1	15 Meg Ohms
Output Impedance	Output Stage	Number of Tubes	Tone Control
300 Ohms	Class A	5	Full Range
Number of Speakers Recommended—1—Set 9S—(Two Spkrs.) 1—Set 10S—(Two Spkrs.) 1—12S or 12H 2—10D			Tubes Used: 1—6F5 1—6Y7G 2—6V6G 1—80
Size, 9 1/4 x 6 3/4 x 7 3/4. Shipping Weight, 14 lbs.			

Model 25B—25 Watts. List Price complete with tubes \$59.00

SPECIFICATIONS

Undistorted Power Output	Gain	Number of Channels	Input Impedance
25 Watts	135 DB	2 Mike 1 Phono	15 Meg. Ohms Phono, 1 1/2 Megs
Output Impedance	Output Stage	Number of Tubes	Tone Control
250 Ohms	Class A	7	Full Range
Number of Speakers Recommended—2 to 3 Sets 10S (4 to 6 Spkrs.) Size, 13 1/4 x 9 1/4 x 8 1/4. Shipping Weight, 21 lbs.			Tubes Used: 3—6F5 1—6C5 2—6L6G 1—5Z3
105-125 V. 60 C. Line Input, at Max. Pr. Output 135 Watts			



Model 613B—13 Watts, 6 Volt D. C., 110 Volt, 25 to 60 Cycle A. C. List Price, complete. \$55.00

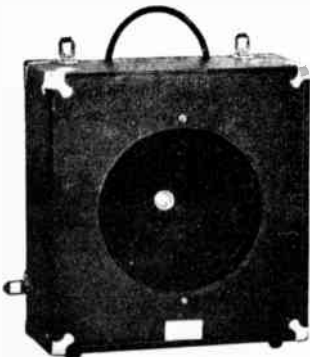
SPECIFICATIONS

Undistorted Power Output	Gain	Number of Channels	Input Impedance
13 Watts	130 DB	1 Mike 1 Phono	15 Meg Ohms Phono, 1 1/2 Meg-
Output Impedance	Output Stage	Number of Tubes	Tone Control
300 Ohms	Class A	5	Full Range
Number of Speakers Recommended—2 Sets, 9S (Four Spkrs.) 1 Set, 10S (Two Spkrs.) Size, 13 1/4 x 9 1/4 x 8 1/4. Shipping Weight, 23 lbs.			Tubes Used: 1—6F5 1—6Y7G 2—6V6G 1—6X5G
105-125 V. 25-60 C. Input, at Max. Power Output 115 Volts, 70 Watts 6 Volts, 8 Amps.			

Model 13B—13 Watts. LIST PRICE— Complete with tubes \$39.00

SPECIFICATIONS

Undistorted Power Output	Gain	Number of Channels	Input Impedance
13 Watts	130 DB	1 Mike 1 Phono	15 Meg Ohms Phono, 1 1/2 Meg-
Output Impedance	Output Stage	Number of Tubes	Tone Control
500 Ohms	Class A	5	Full Range
Number of Speakers Recommended—2 Sets, 9S (Four Spkrs.) 1 Set, 10S (Two Spkrs.) Size, 11 1/4 x 8 x 7 3/4. Shipping Weight, 16 lbs.			80 Watts Tubes Used: 1—6F5 1—6Y7G 2—6V6G 1—80
105-125 V. 60 C. Max. Pr. Output			



Model 10S
Two 10" P. M. Dynamic Speakers in leatherette carrying case.
Power handling ability, each speaker, 7 1/2 watts.
Transformer impedance, 1,000, 1,500 and 2,000 ohms (ea. spkr.)
Size 14 1/4 x 15 1/4 x 5 1/4, each half.
Shipping weight. . . 23 lbs.
List Price,
with 2—35' cords and plugs . . . \$34.50





Original Circuits! Modern Designs! Easy to Construct!

20 Watt CW Beginner's Transmitter

Designed primarily for the beginner, the crystal-controlled 20 watt code transmitter operates on all bands from 160 to 10 meters. If higher power is desired at some later date, this unit may also be used as the crystal oscillator of a larger multi-stage transmitter. A low impedance link is provided to couple the transmitter to a doublet antenna or to an antenna matching network. A pilot lamp in the negative high voltage lead is used as an inexpensive yet effective tuning indicator. Simplicity of construction and ease of operation make this an ideal unit for the new amateur, enabling him to get on the air with small initial investment. Chassis dimensions, 8 1/2" x 6" x 2 1/4".

T-22K03 20 Watt CW Unit, Kit of Parts.....\$22.50 List

Includes all parts except coils, phone plug, crystal and tubes.



35 Watt Phone-CW Transmitter

Mounted in a modern, attractive cabinet, this compact transmitter is capable of 35 watts input on either CW or phone. The power supply and audio section are mounted on the same chassis with the r.f. section. The plug-in coil feature adds to the desirability of this transmitter for the amateur who wants low power on the five amateur bands. All controls are on the front panel for ease of operation. R.F. tubes used include 6V6-G harmonic oscillator and 6L6-G final amplifier. The carbon microphone which is required derives its exciting current from the power supply bleeder and is used to drive a 6A6 speech amplifier, which in turn excites a Class B modulator. A variable link is used to couple the transmitter to the antenna. Overall cabinet dimensions 9 1/2" x 7" x 2".

T-22K37 35 Watt Phone-CW, Kit of Parts.....\$72.50 List

Includes all parts except coils, meter, crystal and tubes.

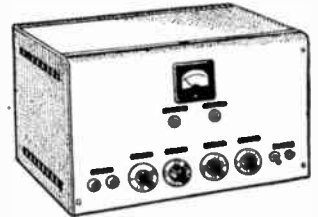
12 Watt Universal Transmitter

For Portable and Emergency Service

This 115 volt A.C. or 6 volt D.C. transmitter is one of the most popular of the entire group because of its extreme flexibility. Merely inserting the proper power plug changes the circuit from A.C. to D.C. Maximum power input is 12 watts on battery operation and slightly more when operated on an A.C. line. This transmitter can be operated on all amateur bands from 160 to 10 meters, and doubling may be accomplished in the crystal stage when using 160, 80 and 40 meter crystals. A 6V6-G oscillator tube is used in a regenerative type circuit having an r.f. choke in the cathode circuit. Final stage uses an 807 tube. The modulator tube is a 6V6-G operating Class A and the audio amplifier section consists of two 6J7 tubes, pentode connected, providing ample gain for operation with a crystal microphone. Overall cabinet dimensions 9 1/2" x 7 1/2" x 2".

T-22K13 Portable Emergency Transmitter, Kit of Parts.....\$71.50 List

Includes all parts except vibrator, meter, coils, crystal and tubes.



55 Watt Phone, 80 Watt CW Transmitter

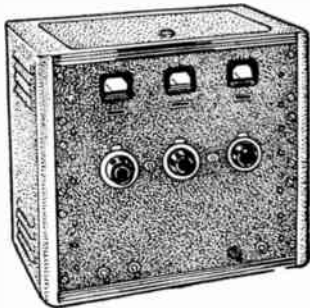
This Thordarson transmitter, expertly engineered and designed for either 55 watt phone or 80 watt CW operation on 160 to 10 meters, is built with independent audio and r.f. sections. Each section has its own power supply and may be used separately. The r.f. plate supply uses a 5Z3 and two 866JR tubes. The power supply on the modulator chassis uses a 5Z3. A gain of 122 db permits operation of the transmitter with any of the popular types of high impedance microphones. The 6L6-G modulator tubes, operating Class AB₁, fully modulate the 55 watt Class C input. Speech amplifier tubes: 6J7, 6J7, 6C5, 2-6L6-G's. R.F. tubes: 6F6-G oscillator, 6L6-G buffer or doubler, and 809 final amplifier stage. Individual kits for r.f. and modulator sections. R.F. chassis dimensions 17" x 12" x 4". Modulator chassis dimensions 17" x 10" x 2". Complete cabinet dimensions 19 1/4" x 21" x 13 1/4".

T-22K71 R.F. Section, Kit of Parts.....\$93.00 List

Includes all parts except coil forms, cabinet, meters, plug-in condenser, jack base, crystal and tubes.

T-22K73 Modulator Section, Kit of Parts.....\$58.50 List

Includes all parts except tubes and cabinet.

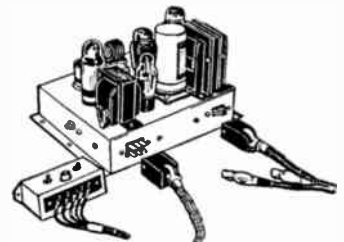


12 Watt Mobile Transmitter

Many extra hours of operating enjoyment on the 5 and 10 meter bands can be had with this new Portable Mobile transmitter. It is carefully designed to withstand the vibration to which a mobile unit is often subjected. It operates from a 6 volt storage battery and uses a vibrator power supply that can be remotely controlled quite a distance from the transmitter. All modern improvements are included for simplified operation under all conditions. R.F. tubes used include: 6V6-G tri-tet crystal oscillator and T-21 final amplifier. A single 6V6-G operates as a Class A amplifier to modulate the T-21 tube. Provision is made for remotely connecting a carbon microphone to the primary of the microphone transformer mounted on the under side of the chassis. Chassis dimension 11" x 8" x 3".

T-22K11 12 Watt Mobile Unit, Kit of Parts.....\$62.00 List

Includes all parts except vibrator, crystal and tubes.

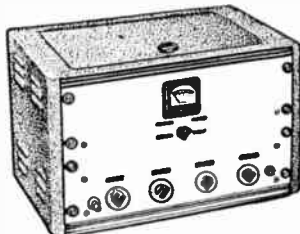


50 Watt 5 & 10 Meter Phone Transmitter

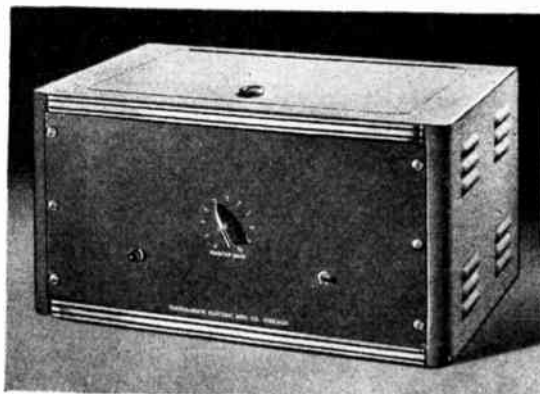
Unusually compact, this 5 and 10 meter phone transmitter contains in a single unit a 50 watt r.f. and 25 watt modulator section, together with their respective power supplies. R.F. tubes used include 6L6-G tri-tet oscillator, HK-24 doubler, and HK-24 final amplifier. The speech amplifier is designed to permit the use of either a high impedance dynamic or crystal microphone. The modulator consists of a pair of 6L6-G tubes operating in Class AB₁. Panel fits a standard 19" relay rack. When used with the modern streamlined grey cabinet, it presents a most attractive and efficient-looking job. A single meter in conjunction with a meter switch measures the oscillator plate, buffer plate, final grid, and final plate currents. Chassis dimensions 17" x 13" x 3". Cabinet dimensions 12 1/4" x 20 1/4" x 13 1/4".

T-22K51 50 Watt 5 & 10 Meter Unit, Kit of Parts.....\$126.00 List

Includes all parts except cabinet, meter, crystal and tubes.



\$344 Transmitter Guide—15c postpaid—full descriptions and instructions on building Amateur Radio equipment, including transmitters from a 20 watt CW to a kilowatt.



T-30W04 Pre-Amplifier \$125.00 List
With Selected Tubes, Without Cabinet

This fine pre-amplifier is the basic unit for low or high power sound installations. It is designed to operate into a 500 ohm line at 0 db or 6 milliwatts with less than 1% distortion. Has three low level inputs for high impedance microphone with provision for low impedance input transformers. In addition two medium level inputs are incorporated for high impedance crystal or magnetic phono pickup. Two frequency equalizers provide independent boost or attenuation for either bass or treble. Exceptional low hum level (70 db below +32 db normal output rating). Dimensions, 19" long, 8 3/4" high, 7 1/2" behind back of panel including tubes. Shipping weight 27 1/2 lbs.

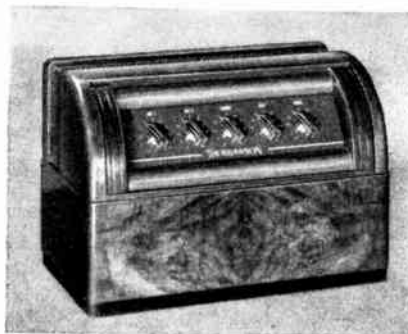
T-30W25 Booster Amplifier, 25 Watts \$ 85.00 List
T-30W50 Booster Amplifier, 50 Watts \$110.00 List
With Selected Tubes, Without Cabinet

These boosters may be used to meet any power requirement from 25 watts up and may be used singly or in multiple. A bridging input transformer is provided to couple to the output of the preamplifier. Used with T-30W04 as many as 18 booster units may be connected without upsetting line characteristics. An individual gain control provides proper distribution where the installation is both indoor and outdoor. Chassis is mounted with bottom parallel to front panel which may be removed for inspection without removal from cabinet or rack. Frequency response $\pm 1/2$ db. from 20 c.p.s. to 15000 c.p.s. and hum and noise level is 80 db. below output rating. Dimensions: 19" long, 8 3/4" high and 8 1/4" deep. Shipping weight T-30W25 — 32 1/2 lbs. T-30W50 — 40 1/2 lbs.



T-30W10 True-Fidelity Studio Amp. \$261.50 List
(For relay rack installation, with selected tubes, less cabinet)
T-30W10 With cabinet and selected tubes. . . \$282.50 List

Highest quality amplification of speech or music is the prime feature of this fine studio amplifier. Parts and circuits are carefully chosen to assure frequency response of ± 1 db. from 30 to 15000 c.p.s. Two frequency equalizers provide independent boost or attenuation of either bass or treble registers. Hum and noise level is 70 db. below the conservative 10 watt rating. Input circuits include one microphone input for low or high impedance microphones and two medium level inputs for low or high impedance phonograph pickup or line. Dimensions, 19" long, 13 3/4" deep, 10 1/2" high. Shipping weight, 62 lbs.



T-25W30 Amplifier, 30 Watts . . . \$117.50 List
With Selected Tubes

This 30 watt amplifier features a matched burl walnut cabinet and edge glow illuminated panel. Three high impedance input circuits provide for two microphones and one phono pickup. Amplifier is designed to supply power to one to four speaker fields or equivalent of 26 watts. Has special four stage circuit using inverse feedback principle. Dimensions 15 1/4" long, 8 1/4" deep, 10 3/4" high. Shipping weight, 34 lbs. T-20K27 Portable Amplifier Case for this 30 watt amplifier \$13.00 List. Space provided for mike and cables.

CARRYING CASES

T-20K23 Regular Twin Portable Speaker Case (less speakers) . . . \$21.00 List

Regular twin portable speaker case for two 12 electro-dynamic or permanent magnet speakers. Speakers mount in sides of case which opens diagonally for greatest efficiency. Dimensions (assembled): 16" wide, 20" high, 12" deep. Weight: net, 10 pounds, shipping, 17 1/2 pounds

T-20K24 Bass Reflex Twin Portable Speaker Case (less speakers) . . . \$27.00 List

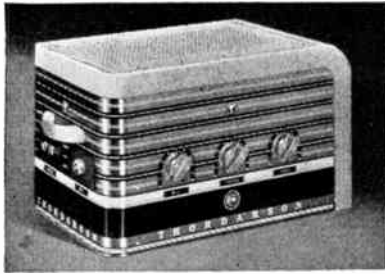
Bass reflex twin speaker portable case for two 12 electro-dynamic or permanent magnet speakers. The bass reflex principle insures good bass reproduction with a comparatively small speaker baffle. The low frequency ports near speaker openings may be used to store speaker cable when assembled. Dimensions (assembled): 18" wide, 22" high, 16" deep. Weight: net, 22 1/2 pounds; shipping, 30 pounds.

T-25K29 Combination Amplifier Speaker Case (less speakers) . . . \$17.00 List

Three section case designed to carry the 14 or 20 watt amplifier and two 10" speakers. Racks provided for cables. Finished in grey luggage covering. Dimensions 18" wide, 21" high, 12 1/2" deep. Weight: net, 14 pounds; shipping, 20 pounds.

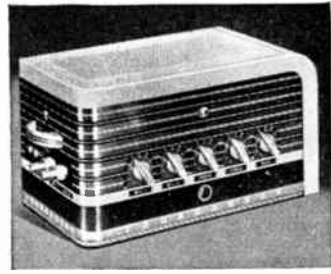
T-20K26 Portable Speaker & Amp. Case \$14.50 List

The portable combination amplifier and speaker case is finished in attractive grey luggage covering and is fitted with a removable sub-base for mounting a T-30W08 amplifier. The bass reflex principle is maintained by the port located below the speaker opening in the front of case. An 8" electro-dynamic or permanent magnet speaker is required. Hooks and a strap provide for mounting speaker cable and hand microphone. Dimensions: 12" wide, 16 1/2" high, 8" deep. Weight: net, 7 pounds; shipping, 13 1/2" pounds.



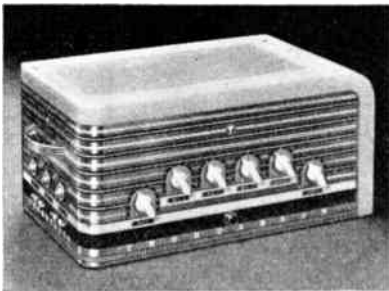
7-25W14 Amplifier, 14 Watts . . . \$62.50 List
With Selected Tubes

Although this 14 watt is the smallest of the "Jewel-in-Steel" amplifiers, the same high standard of Thordarson quality and workmanship is incorporated in its manufacture. The brushed steel panel contains controls for one high impedance microphone and one high impedance phono pick-up in addition to the tone control and switch. Frequencies below 100 c.p.s. are accentuated to compensate for loss of low tones in speakers and other accessories. Output switch adjusts for voice-coil or line impedances. Dimensions, 13 $\frac{1}{8}$ " long, 7 $\frac{1}{2}$ " deep, 7 $\frac{1}{4}$ " high. Shipping weight, 22 pounds.



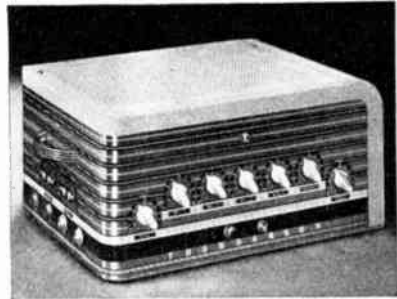
7-25W20 Amplifier, 20 Watts . . . \$82.50 List
With Selected Tubes

This "Jewel-in-Steel" amplifier has set a new pace in style and quality. Full 20 watts output is delivered with less than 5% distortion. Input circuits accommodate two high impedance microphones and one phono pick-up. A multi-stage inverse feedback circuit reduces distortion and hum to a minimum. Two tone controls permit attenuation of treble or bass frequencies. Frequency response is within ± 1 db from 30 to 15,000 c.p.s. with deliberate bass boost of 3 db below 100 c.p.s. A selector switch provides output impedances of 2, 4, 6, 8, 250 or 500 ohms. Dimensions, 14 $\frac{1}{8}$ " long, 7 $\frac{1}{2}$ " deep, 7 $\frac{1}{4}$ " high. Shipping weight, 25 pounds.



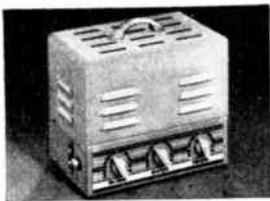
7-30W30 Amplifier, 30 Watts . . . \$122.50 List
With Selected Tubes

This 30 watt amplifier is ideal for installations requiring slightly more power and better than average quality. It is provided with three high impedance microphone circuits adaptable to low impedance at \$14.50 additional per circuit. Two phono pick-up circuits operate into the dual fader control. Bass or treble frequencies can be attenuated with the two tone controls. A selector switch provides impedances of 3, 4, 6, 8, 16, 125, 250 and 500 ohms for matching speakers and lines. Output connections are made by means of two connectors and screw terminals. Dimensions, 17" long, 9 $\frac{1}{2}$ " deep, 8 $\frac{1}{2}$ " high. Shipping weight, 36 pounds.



7-30W55 Amplifier, 55 Watts . . . \$175.00 List
With Selected Tubes

Unusual flexibility is provided in this 55 watt amplifier by a multiple mixer circuit accommodating four microphones and two phono pick-ups. Microphone circuits available with low impedance input transformers at slight additional cost (30-50, 200-250 or 500 ohms). New dual tone control makes possible increase or decrease of the bass and treble frequencies independently of one another. Four beam power tubes operate in push-pull-parallel to deliver 55 watts output. Long tube life has been made possible by operating the output tubes conservatively. Dimensions, 17" long, 12" deep, 8 $\frac{1}{2}$ " high. Shipping weight, 48 pounds.



7-30W08 Amplifier, 8 Watts \$43.50 List
Less Cover, With Selected Tubes

This 8 watt amplifier is the smallest Thordarson amplifier engineered and manufactured to Thordarson quality standards. Power output is 8 watts with less than 5% distortion. Two high impedance input channels, one for microphone and one for phono pickup. Speaker field supply is sufficient for one 5000 ohm field and a permanent magnet speaker may be substituted or used in addition. Output impedances are 4, 6, 8 and 500 ohms available at 7 contact speaker plug receptacle. Frequency response is within ± 1 db. from 45 to 15000 c.p.s. and hum and noise level is 62.5 db. below 8 watts. A conventional type chassis is furnished in grey wrinkle. Grey metal cover is available as an accessory at \$3.25 list. Dimensions: 10" long, 8" high (with tubes) 6" deep. Shipping weight 16 lbs.



Microphone Cable Transformers . \$14.50 List each

Two types are available — the 30 to 50 ohm unit is for voice coil connection of dynamic microphones and the 200 to 250 ohm unit for dynamic or velocity microphones which have self-contained line output transformers. Magnetic shielding is employed to reduce hum pick-up to a minimum. Dimensions, 1" diameter, 2 $\frac{1}{4}$ " long, shipping weight $\frac{3}{4}$ lb.

TECHNICAL DATA

	T-14A75	T-14A76
Primary Impedance	30-50 Ohms	200-250 Ohms
Secondary Impedance	50,000 Ohms	50,000 Ohms
Turns Ratio	1 to 31.6	1 to 14.14
Frequency Response	$\pm 1\frac{1}{2}$ db 30 to 15,000 c.p.s.	$\pm 1\frac{1}{2}$ db 30 to 15,000 c.p.s.



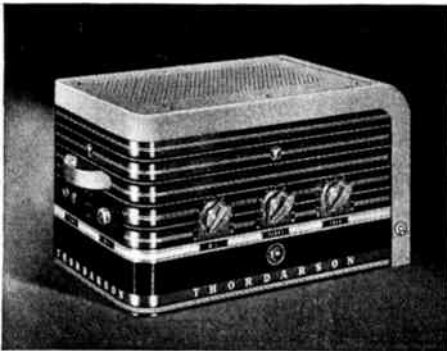
T-30W18 Mobile Amplifier, 18 Watts . \$125.00 List
With Selected Tubes

This universal amplifier is also recommended where efficient battery operation is imperative. All controls, connectors etc. are located on front of amplifier for convenience of operation and installation. Especially suited to be located in front seat of car or truck. Supplied with phono pick-up, turntable and cables for 6 volt battery or 115 volt 60 cycle operation at 18 watts output. Will accommodate one high impedance microphone that can be mixed with the phono pick-up. Selector switch will match 2, 4, 6, 8, 250 or 500 ohm speakers or line. Dimensions 14 3/4" long, 10 1/2" deep, 10 3/4" high. Shipping weight, 36 pounds.



T-25W28 Mobile Amplifier, 28 Watts \$185.00 List
With Selected Tubes

A fine 28 watt universal amplifier operating at full efficiency from both 115 volt 60 cycle current and a 6 volt storage battery. Supplied with phono pick-up and electric turn-table which operates at constant speed (78 R.P.M.) from either battery or line. Accommodates two high impedance microphones in addition to the self-contained phono pick-up. Panel contains tone control and individual microphone and phono controls for complete mixing. Equipped with standby switch to conserve power when operated from battery supply. Dimensions, 17 1/2" long, 14 1/2" deep, 11 1/4" high. Shipping weight, 54 pounds.



T-30W12 Mobile Amplifier, 12 Watts . \$75.00 List
With Selected Tubes

Designed specifically for 6 volt operation only, this amplifier is unusually efficient. Battery drain is held to a minimum to conserve power. A standby switch allows the tube heaters to operate during idle periods permitting instantaneous operation. Various speaker impedances (2, 4, 6, 8, 250, and 500 ohms) are readily matched with a rotary selector switch. One microphone and one phono volume control permit mixing of the high impedance input circuits. The tone control has 23 db. attenuation at 10,000 c.p.s. Dimensions, 13 1/4" long, 7 1/2" deep, 7 1/4" high. Shipping weight, 23 1/2 pounds.



T-31W18 Mobile Amplifier, 18 Watts . \$114.00 List
With Selected Tubes

The characteristics and technical data shown for T-30W18 are fully descriptive of T-31W18 except that T-31W18 is supplied without phono motor and pick-up. An input jack is provided for connecting an external pick-up.

THORDARSON AMPLIFIERS
(Factory Wired and Tested)

The finest amplifiers are built by Thordarson — pioneers in producing quality audio components. Absolute fidelity is assured by accurate laboratory design and rigid inspection during production. New models from 8 to 900 watts satisfy practically every sound requirement. Pre-amplifiers and boosters round out a truly complete line of equipment for sound technicians. Fully described in Catalog 600E including complete technical data and all characteristics and applications. Ask for your free copy today.

No. 346 — Amplifier Guide 15c
Postpaid

P. A. men and experimenters interested in building high quality amplifiers find the Thordarson Amplifier Guide No. 346 a worthwhile source of information. It contains laboratory designed and tested circuits of amplifiers from 8 to 120 watts output. Complete parts list, mechanical chassis drawings, and comprehensive illustrations enable the constructor to obtain superior results with matched transformer and choke components. Data are included for pre-amplifiers, dual tone controls, speaker impedance matching and testing.



Lensen

FULL RANGE SOUND EQUIPMENT

Known all over the world for predominating high quality

STANDARD SPEAKERS

FOUR, FIVE, SIX, EIGHT, TEN AND TWELVE INCH SPEAKERS

Field Coil and Permanent Magnet Designs



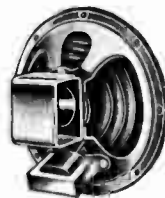
H4S and PM4FS



H5S and PM5FS



H6S and PM6ES



F8RS and PM8DS

Exceptionally good speakers for use in radio receivers, low power public address and the like. Not to be confused with many cheaply made inefficient speakers. All speakers are completely dust-proofed and all are supplied less transformer but with facilities permitting easy attachment of the transformers listed to right. Mounting

dimensions standard R.M.A. The permanent magnet models employ highly efficient permanent magnets which insure unlimited life. The sensitivity of these permanent magnet speakers is fully equivalent of the field coil type speakers. All field coil models have bucking coil.

FOUR AND FIVE INCH SPEAKERS SPEAKERS WITH FIELD COILS

Model	Stock No.	Impedance	Field Coil	List Price	Net Price
H4S	ST537	4 ohms	450	\$2.30	\$1.38
H4S	ST538	4 ohms	1000	2.30	1.38
H4S	ST539	4 ohms	3000	2.30	1.38
H5S	ST426	4500 ohms	3000	3.10	1.86
H5S	ST427	4 ohms	2750	2.40	1.44
H5S	ST558	4 ohms	1800*	2.40	1.44
H5S	ST449	4 ohms	1000	2.40	1.44
H5S	ST450	4 ohms	450	2.40	1.44
H5S	ST428	4 ohms	6 volt	2.40	1.44

PERMANENT MAGNET SPEAKERS

PM4FS	ST540	4 ohms		2.65	1.59
PM5FS	ST443	4 ohms		2.70	1.62
PM5DS	ST522	4 ohms		4.00	2.40

SIX INCH SPEAKERS SPEAKERS WITH FIELD COILS

H6S	ST429	4 ohms	2750	2.80	1.68
H6S	ST430	4 ohms	1800*	2.80	1.68
H6S	ST431	4 ohms	1000	2.80	1.68
H6S	ST432	4 ohms	6 volt	2.80	1.68
E6RS	ST565	4 ohms	2500	4.25	2.55
E6RS	ST566	4 ohms	1800*	4.25	2.55
E6RS	ST567	4 ohms	1000	4.25	2.55
E6RS	ST568	4 ohms	6 volt	4.25	2.55

PERMANENT MAGNET SPEAKERS

PM6ES	ST445	4 ohms		3.40	2.04
PM6DS	ST455	4 ohms		4.25	2.55

EIGHT INCH SPEAKERS SPEAKERS WITH FIELD COILS

F8RS	ST433	4 ohms	2500	4.00	2.40
F8RS	ST434	4 ohms	1800*	4.00	2.40
F8RS	ST435	4 ohms	1000	4.00	2.40
F8RS	ST436	4 ohms	6 volt	4.00	2.40
D8RS	ST437	4 ohms	2500	4.80	2.88
D8RS	ST438	4 ohms	1800*	4.80	2.88
D8RS	ST439	4 ohms	1000	4.80	2.88

PERMANENT MAGNET SPEAKERS

PM8FS	ST569	4 ohms		3.80	2.28
PM8DS	ST461	4 ohms		4.65	2.79
PM8GS	ST523	6 ohms		6.50	3.90

TEN AND TWELVE INCH SPEAKERS SPEAKERS WITH FIELD COILS

G10RS	ST440	6 ohms	2500	7.00	4.20
G10RS	ST441	6 ohms	1250	7.00	4.20
G12RS	ST469	6 ohms	2500	8.00	4.80
G12RS	ST470	6 ohms	1250	8.00	4.80

PERMANENT MAGNET SPEAKERS

PM10GS	ST466	6 ohms		7.50	4.50
PM12GS	ST475	6 ohms		8.75	5.25

*Tapped at 300 ohms.

SEPARATE TRANSFORMERS FOR STANDARD SPEAKERS For H4S, PM4FS, H5S, PM5FS, H6S, PM6ES, F8RS, PM8FS (4 ohm V.C.)

Stock Number	Primary Impedance	Size	List Price	Net Price
Z2359	500	1/2 x 1/2	\$0.70	\$0.42
Z2360	1500	1/2 x 1/2	.70	.42
Z2253	2500	1/2 x 1/2	.70	.42
Z2361	4500 c.t.	1/2 x 1/2	.70	.42
Z2255	7000	1/2 x 1/2	.70	.42
Z2362	10000 c.t.	1/2 x 1/2	.70	.42
Z2363	25000	1/2 x 1/2	.70	.42
ZP1020	Plate Adjustable	1/2 x 1/2	.90	.54
ZL2020	Line Adjustable	1/2 x 1/2	.90	.54

For E6RS, PM5DS, PM6DS, D8RS, PM8DS (4 ohm V.C.)

Z2364	500	5/8 x 3/4	.95	.57
Z2365	1500	5/8 x 3/4	.95	.57
Z2366	2500	5/8 x 3/4	.95	.57
Z2368	4500 c.t.	5/8 x 3/4	.95	.57
Z2369	7000	5/8 x 3/4	.95	.57
Z2371	10000 c.t.	5/8 x 3/4	.95	.57
Z2372	25000	5/8 x 3/4	.95	.57
ZP1021	Plate Adjustable	5/8 x 3/4	1.25	.75
ZL2007	Line Adjustable	5/8 x 3/4	1.50	.90

FOR MODELS PM8GS, PM10GS AND G10RS

Z2373	500	5/8 x 3/4	.95	.57
Z2375	2500	5/8 x 3/4	.95	.57
Z2377	4500 c.t.	5/8 x 3/4	.95	.57
Z2378	7000	5/8 x 3/4	.95	.57
Z2380	10000 c.t.	5/8 x 3/4	.95	.57
ZP1022	Plate Adjustable	5/8 x 3/4	1.25	.75
ZY2008	Line Adjustable	5/8 x 3/4	1.50	.90

FOR MODELS PM12GS AND G12RS

Z1520	500	3/4 x 3/4	1.25	.75
Z1643	4500 c.t.	3/4 x 3/4	1.25	.75
Z1642	7000	3/4 x 3/4	1.25	.75
Z1680	10000 c.t.	3/4 x 3/4	1.25	.75
Z1582	14000 c.t.	3/4 x 3/4	1.25	.75
ZX1004	Plate Adjustable	3/4 x 3/4	2.25	1.35
ZY2001	Line Adjustable	3/4 x 3/4	2.25	1.35

• Model "X" Transformers . . . Model "X" Adjustable Impedance Transformers are designed to match conventional "Plate" Impedance Values, and the following values have been selected: 4500 ohms, 7000 ohms, 10,000 ohms and 14,000 ohms. A center tap is provided at all these values for use with tubes connected in pushpull.

• Model "Y" Transformers . . . Input Transformers designed to match conventional "Line" Impedance Values, the values selected being 500 ohms, 1000 ohms, 1500 ohms and 2000 ohms, with no center tap.

Model ZP and ZL transformers are similar to types ZX and ZY respectively but are supplied with solder terminals only.

Jensen

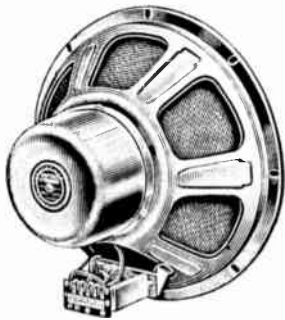
FULL RANGE SOUND EQUIPMENT

Known all over the world for predominating high quality

CONCERT SPEAKERS

SIX, EIGHT, TEN, TWELVE AND FIFTEEN INCH SPEAKERS

Field Coil and Permanent Magnet Designs



Models A-15 and A-15PM

These are heavy duty highly efficient speakers and are widely used for Public Address and high quality Radio and Phonograph applications. All speakers in the concert series, except Model PM6-C, are designed so that they may be used in the Jensen Type BR, BASS REFLEX Enclosures. All field coil models have bucking coils. Covers for the Magnetic structures are standard equipment on all models except PM6-C, PM8-C, PM12-B, and PM15-B. All PM Speakers, as well as Model A-12 and A-15 are dust-proofed.

Facilities are provided for easily attaching any of the transformers listed, but Speakers are supplied without transformers attached unless specifically ordered in which case increase list price by \$1.00, plus list price of transformer.

Twelve inch and all fifteen inch speakers are available with cones having a frequency response that extends to 7500 cps. Speakers having this type response are somewhat less sensitive and have slightly less power handling capacity as a result, and are only recommended where the input is known to be free from distortion particularly in the extended high frequency range.

SPEAKERS WITH FIELD COIL

Model	Stock No.	VOICE COIL Imp.	Watts	FIELD Resistance	List Price	Net Price	
C8-RS	ST-457	8	8	2500	\$8.65	\$5.19	
C8-RS	ST-459	8	8	1000	8.65	5.19	
C10-RS	ST-463	8	9	2500	9.40	5.64	
C10-RS	ST-464	8	9	1250	9.40	5.64	
C12-R	ST-172	8	10	2500	10.25	6.15	
C12-R	ST-176	8	10	1250	10.25	6.15	
	Std. Fidelity	*High Fidelity					
A-12	ST-331	ST-337	8	15	860	17.25	10.35
A-12	ST-333	ST-339	8	15	2500	17.25	10.35
A-12	ST-335	ST-341	8	15	5400	17.25	10.35
B15-X	ST-315	ST-314	8	15	2500	18.25	10.95
B15-X	ST-319	ST-318	8	15	1250	18.25	10.95
A-15	ST-311	ST-310	8	17	860	23.00	13.80
A-15	ST-307	ST-306	8	17	2500	23.00	13.80
A-15	ST-487	ST-488	8	17	5400	23.00	13.80

SPEAKERS WITH PERMANENT MAGNET

Model	Stock No.	VOICE COIL Imp.	Watts	†Gap Energy	List Price	Net Price
PM6-C	ST-238	6	6	1.10	88.00	\$4.80
PM8-C	ST-230	6	8	1.36	8.50	5.10
PM10-C	ST-246	6	9	1.36	10.50	6.30
PM10-H	ST-468	8	10	2.54	17.00	10.20
	Std. Fidelity	*High Fidelity				
PM12-C	ST-250	6	10	1.36	12.50	7.50
PM12-H	ST-476	8	12	2.54	19.50	11.70
PM12-B	ST-254	8	14	6.07	25.00	15.00
A12PM	ST-257	8	15	7.57	34.75	20.85
PM15-B	ST-304	8	15	6.07	30.00	18.00
A15-PM	ST-300	8	17	7.57	38.75	23.25

* High Frequency Response extended to 7500 cps. Not Recommended for General P. A. Applications.

† Gap Energy expressed here in millions of ergs; indicates relative efficiency of speakers.

Model "X" (Plate Type) Adjustable transformer gives these values: 4500, 7000, 10,000 and 14,000 ohms all with or without center tap.

Model "Y" (Line Type) Adjustable transformer gives these values: 500, 1,000, 1,500 and 2,000 ohms.

Fixed Impedance Transformers are available with any value of input impedance at 25% increase in price. Specify impedance desired.

SEPARATE TRANSFORMERS

FOR MODELS PM12H AND PM10H		Stock No.	Input Impedance	V. C. Imp.	Size	List Price	Net Price
Z1520	500	6	3/4 x 3/4	8	1.25	\$0.75	
Z1643	4500 c.t.	6	3/4 x 3/4	8	1.25	.75	
Z1642	7000	6	3/4 x 3/4	8	1.25	.75	
Z1680	10000 c.t.	6	3/4 x 3/4	8	1.25	.75	
Z1582	14000 c.t.	6	3/4 x 3/4	8	1.25	.75	
ZX1004	Plate Adjustable	6	3/4 x 3/4	8	2.25	1.35	
ZY2001	Line Adjustable	6	3/4 x 3/4	8	2.25	1.35	
FOR MODELS C8RS, C10RS AND C12R		Z2383	3000 c.t.	8	3/4 x 3/4	1.25	.75
Z1879	4500 c.t.	8	3/4 x 3/4	8	1.25	.75	
Z1880	7000	8	3/4 x 3/4	8	1.25	.75	
Z2384	10000 c.t.	8	3/4 x 3/4	8	1.25	.75	
Z1881	14000 c.t.	8	3/4 x 3/4	8	1.25	.75	
ZX1002	Plate Adjustable	8	3/4 x 3/4	8	2.25	1.35	
ZY2002	Line Adjustable	8	3/4 x 3/4	8	2.25	1.35	
FOR MODELS PM10H, A-12, B15X, A12PM, PM12B, PM12H and PM15B		Z1882	500	8	7/8 x 7/8	1.75	1.05
Z1971	3000 c.t.	8	7/8 x 7/8	8	1.75	1.05	
Z2385	5000 c.t.	8	7/8 x 7/8	8	1.75	1.05	
Z1884	6600 c.t.	8	7/8 x 7/8	8	1.75	1.05	
Z1885	7000	8	7/8 x 7/8	8	1.75	1.05	
Z1886	10000 c.t.	8	7/8 x 7/8	8	1.75	1.05	
Z1887	14000 c.t.	8	7/8 x 7/8	8	1.75	1.05	
ZX1005	Plate Type Adjustable	8	7/8 x 7/8	8	2.75	1.65	
ZY2003	Line Type Adjustable	8	7/8 x 7/8	8	2.75	1.65	
FOR MODELS A-15 AND A-15PM		Z1888	500	8	1 x 1	3.00	1.80
Z2386	3000 c.t.	8	1 x 1	8	3.00	1.80	
Z2387	5000 c.t.	8	1 x 1	8	3.00	1.80	
Z1890	6600 c.t.	8	1 x 1	8	3.00	1.80	
Z2388	7000	8	1 x 1	8	3.00	1.80	
Z1891	10000 c.t.	8	1 x 1	8	3.00	1.80	
Z2241	14000 c.t.	8	1 x 1	8	3.00	1.80	
ZX1007	Plate Type Adjustable	8	1 x 1	8	3.75	2.25	
ZY2005	Line Type Adjustable	8	1 x 1	8	3.75	2.25	

ATLAS SOUND CORPORATION



ATLAS "MORNING GLORY" Type Exponential Projectors Double Re-entrant Air Columns . . Permanent Magnet Compression Units



- ★100% Storm-proof . . . Non-resonant . . . Compact
- ★High Fidelity . . . Efficient . . . Directional

Transfer Efficiency . . . When figuring in terms of acoustical transfer efficiency, it is generally admitted that a compression type speaker unit with an air column trumpet possesses the highest ratio of electrical watts input to sound pressure output. The many years of experience that Atlas Sound technicians have had in designing and manufacturing this type of reproducer . . . has now resulted in speaker efficiency that has never, heretofore, been obtained.

Coverage . . . Adverse, or cross wind conditions . . . which normally disperse low intensity sound projection . . . have little effect on the sound beam emitted by these high-velocity output projectors. The sound beam, upon being directed to the area requiring coverage, will produce a "Splash Effect" and thereby cover large areas with uniform-intensity sound.

Microphone Feedback . . . The directional characteristics and total absence of rear sound generation minimizes feedback or acoustic "howl." The flat frequency response is also of great importance in eliminating feedback at certain peaked frequencies.

Universal Application . . . These projectors have a universal application . . . indoors . . . outdoors . . . and sound truck. The reflexed construction results in a considerable reduction in overall length.

Bell Openings: Model DR-72, 29"—Model DR-42, 21".

At left . . . Model DR-72 shown with malleable iron mounting bracket supplied at no extra cost, and PC-1 protective cover.

At right . . . Model DR-42 with bracket supplied.

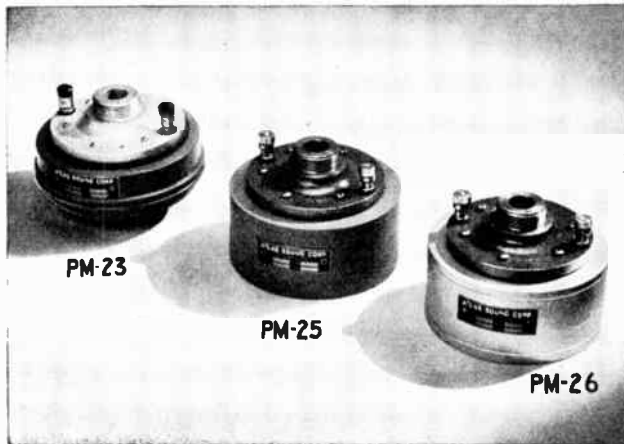


Heavy Duty Construction . . . All integral projector sections are held together with solid malleable iron castings. The flared projector parts are of heavy-gauge aluminum finished in a battleship gray enamel. All cast parts are finished in a dark gunmetal shrivel. The method of fastening the brackets to the trumpets is such that continuous vibration cannot cause damage.

Model		Overall Length	Air Column Length	Frequency Cut-Off	Projection Angle	List Price
DR-42	Projector and Bracket	17½"	3½ Feet	140 Cycles	80°	\$20.00
DR-72	Projector and Bracket	25"	6 Feet	90 Cycles	100°	\$47.50

Model PC-1 Unit Cover . . . protects binding posts . . . double-seal protection. . . . LIST \$2.50

"DYNA-FLUX" P. M. COMPRESSION UNITS



"ALNICO" Magnets . . . The magnetic material used is a nickel, aluminum, cobalt alloy (ALNICO). It is the best grade available, and possesses the greatest magnetic retentivity of all magnet alloys. All other parts comprising the magnetic structure are 99% pure "ARMCO" high permeability iron.

Non-Corrosive Diaphragms . . . The one-piece, all-aluminum diaphragm has concealed in its design many modern advances in construction. The aluminum is treated electro-chemically, making the metal impervious to corrosion. A later heat treatment produces in the metal a "toughness" that is highly fatigue resistant, preventing crystallization or shattering of the diaphragm. The Atlas precision-built diaphragm is the only P. M. compression type made that is "top-loading" and which can be easily replaced without special tools or fixtures.

Weatherproof Protection . . . All machined surfaces at the gap are cadmium plated to prevent the formation of rust or corrosion. An iron oxide bakelite sealer is used to prevent the penetration of any moisture in the magnetic structure. All units are finished in heavy enamels.

Model PM-23 Compression Unit . . . This low-priced unit has incorporated in its design many new constructional features. These exclusive features result in lower manufacturing costs, which are reflected in the low list price. No compromise, however, is made on quality.

Model PM-25 Compression Unit . . . Standard Atlas model with ring type magnet. Excellent for general p. a. application.

Model PM-26 "Hi-Fi" Model . . . Incorporates a special high fidelity sound compression chamber. The higher frequency response of this unit makes it desirable when maximum high frequencies are required.

Model		Normal Power*	V. C. Impedance	List Price
PM-23	Compression Unit	18 watts	15 ohms	\$30.00
PM-25	Compression Unit	20 watts	15 ohms	\$45.00
PM-26	"Hi-Fi" Model	20 watts	15 ohms	\$50.00

*Extreme power ratings are in most cases misleading. High power ratings do not necessarily indicate a superior function of a reproducer. The transfer efficiency of electrical watts input to sound pressure output is a function of prime importance. Little engineering skill is required to make a diaphragm of heavy construction that will dissipate large amounts of audio input — BUT TRANSFER ONLY A SMALL PERCENTAGE INTO SOUND PRESSURE OUTPUT.

ATLAS SOUND HORN ADAPTORS

Model U-2H . . . One unit, two horns with standard 13/16"-18 threads. List \$10.00

Model U-3H . . . One unit, three horns, standard threads List \$13.50

Model H-2U . . . One horn, two units, standard threads. . . . List \$10.00

Model WEB . . . Western Electric unit to standard thread horn. . . . List \$3.50

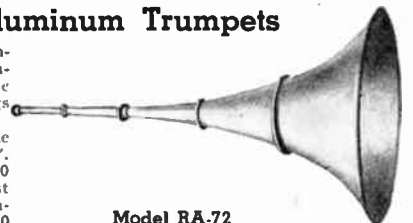


6 Ft. and 3½ Ft. Straight Aluminum Trumpets

True Exponential Design . . . Guaranteed Storm-proof . . . Non-Resonant Heavy Gauge Metal Spinings . . . Solid Cast Aluminum Tone Arms . . . Tone arms supplied with convenient loose brass couplings for attaching units with standard 13/16"-18 threads.

Model RA-42 . . . 3½ Foot Model . . . has a single cast tone arm which is 17" long. Bell opening 23". Shipping Weight 11 lbs. . . . List \$27.50

Model RA-72 . . . 6 Foot Model . . . has two cast throat sections which total 43" in length. Bell opening 32". Shipping Weight 21 lbs. . . . List \$55.00



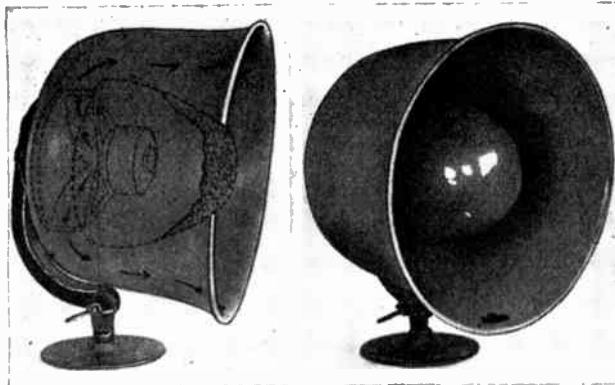
Model RA-72



ATLAS SOUND CORPORATION

"MARINE HORNS" WITH P. M. SPEAKERS

- ★ 100% Protection Against Weather, Mechanical Damage
- ★ Ideal For Sound Truck, Indoor, Outdoor Application



Phantom view shows internal construction of WX-8 Horn and WX-B Fixture and Base. Cone speaker is protected against weather and mechanical damage by bullet-shaped, acoustic felt-lined housing.

"WX" Marine Horns will withstand a direct driving rain without damage to the cone speaker . . . Physical damage is also impossible because the cone speaker is mounted in an inverted position, facing inside the horn. The bullet-shaped housing is acoustically treated with heavy felt to absorb back pressure and to prevent resonance conditions. All spinnings are heavy gauge aluminum, non-resonant, and finished in a weatherproof battleship gray enamel. All speakers and mounting hardware supplied is cadmium-plated to resist corrosion.

Two Sizes . . . For 8" and 12" Speakers . . . The Model WX-8 for 8" speakers has a bell opening of 18" and a depth of 12". The Model WX-12 for 12" speakers has a bell opening of 24" and a depth of 16".

Mounting Fixture and Base . . . Easy, convenient mounting for sound truck, indoor walls, outdoor locations, and portable use. The heavy cast plate, goose-neck, and base are finished in durable black crackle.

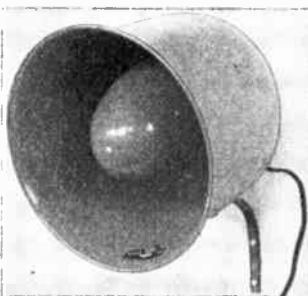
Speaker Units . . . The speaker units supplied are especially designed to perform with the highest efficiency in connection with the Marine Horns. Voice coil imp. 6 ohms on all speakers.

Model	Speaker Size	Shipping Weight	List Price
WX-8	Horn Only	8" 9 lbs.	15.50
WX-8HL	Horn and Speaker	8" (16 watt) 15 lbs.	27.00
WX-8LL	Horn and Speaker	8" (8 watt) 14 lbs.	20.25
WX-12	Horn Only	12" 18 lbs.	30.00
WX-12SL	Horn and Speaker	12" (14 watt) 24 lbs.	39.50
WX-B	Fixture and Base (for WX-8 Horn)	12 lbs.	6.00
WX-C	Fixture and Base (for WX-12 Horn)	17 lbs.	7.00

Universal Line Matching Transformers can be supplied upon order. Primary tapped at 500, 1000, 1500, 2000 ohms. Add \$2.00 to the list price of WX-12SL and WX-8HL (heavy duty 7/8" core). Add \$1.25 to list of WX-8LL (5/8" core).

Original Stormproof 'MARINE MIDGET' P. M. SPEAKER

The inverted reflex design of the WX-5SP offers an air column length of 15" . . . This feature aids the normally efficient cone unit to perform with a maximum ratio of power input to sound pressure output. The frequency response of the speaker is wide in range, permitting fine reproduction of music and speech. The WX-5SP is ideal for use as a microphone in "talk-back" systems.



Complete weather and mechanical protection . . . Dependable operation can be expected with a driving rain beating directly into the bell opening. The speaker is also protected from mechanical damage.

Construction . . . The entire horn is constructed of heavy gauge aluminum finished in a durable battleship gray enamel. An adjustable steel mounting bracket is supplied at no extra cost.

P. M. Speaker Unit . . . A Permanent Magnet type speaker unit with a conservative power rating of 5 watts is included with the horn. Voice coil 3.5 ohms. Overall size of horn: Bell 10", Overall Depth 8". Shipping Weight 5 lbs.

Model WX-5SP Horn, Speaker, and Bracket . . . List Price \$10.50

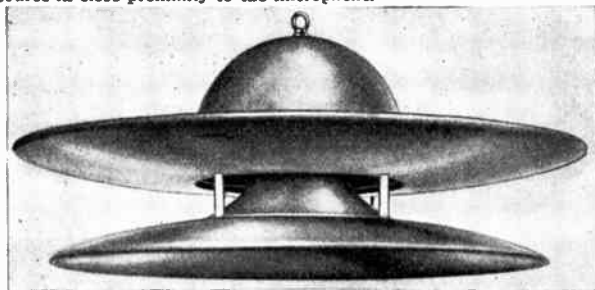
ATLAS 360°

"CHANDELIER" Speaker Baffles

- ★ New Acoustic Design Eliminates Feedback
- ★ Distinctive Styling
- ★ Easy Installation

Uniform 360° Sound Coverage . . . Minimum Feedback . . . The radial sound dispersion is smooth and uniform over a complete 360° circular area. The microphone can be placed directly under the baffle, keeping the acoustic feedback to a minimum.

Pleasing Sound Effect . . . The effect created by the "Chandelier" speaker baffle is most desirable inasmuch as the sound originates from a source in close proximity to the microphone.



Construction . . . Dimensions . . . The Atlas "Chandelier" baffle is built to accommodate a 12" cone speaker. The spinnings are of heavy gauge steel, finished in a distinctive pearl gray enamel. Large size mounting loop supplied on top of baffle makes installation simple, allowing suspension from a single ceiling point in the same manner as a lighting fixture. Size: Overall Diameter 31", Height 14". Shipping Weight 21 lbs.

12" Speaker Unit . . . The Permanent Magnet Speaker supplied is especially designed to perform with the highest efficiency in connection with the L-360. Voice coil imp. 6 ohms. (Shipping Weight with speaker 27 lbs.)

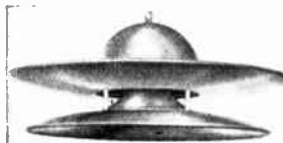
Model L-360 "Chandelier" Baffle . . . List Price \$25.00

Model L-360SL (Baffle with Speaker) . . . List Price \$34.50

Universal Line Matching Transformer (primary 500, 1000, 1500, 2000 ohms) can be supplied by adding \$2.00 to list price of L-360SL.

360° "CHANDELIER, JR." P. M. SPEAKER

Ideal Speaker For Inter-Communication Systems . . . The Junior is particularly suitable for paging and call systems, and will also reproduce music with good fidelity. Made of heavy gauge aluminum finished in pearl gray enamel. Overall Diameter 17", Height 7". Shipping Weight 6 lbs.



Speaker Unit . . . The S-360SP comes complete with 5" Permanent Magnet type cone unit. Conservative rating 5 watts. Voice coil 3.5 ohms.

Model S-360SP Baffle with Speaker . . . List Price \$12.50

"Super-Power" Cone Projector For 8" Heavy Duty Speakers

Suitable For High-Powered Installations . . .

The characteristics of this projector make it particularly suitable for large stadiums, chime systems, industrial yards, airports, race tracks, armories, sound trucks . . . where power and sound direction are the principal requirements.

Construction . . . Dimensions . . . The air column is spun from heavy gauge aluminum. The speaker housing is a heavy steel pressed pot. Finished in battleship gray weatherproof lacquer. Bell Diameter 24", Total Length 36". Shipping Weight 9 lbs. (With unit 17 lbs.)

Horn with Speaker Unit . . . The Permanent Magnet speaker supplied will perform with the highest efficiency in connection with the G-8. Audio power rating 14 watts, voice coil 8 ohms.

Model G-8 Air Column Horn . . . List Price \$22.00

Model G-8HL Horn and Unit . . . List Price \$3.50

Mounting Fixture . . . and Base . . . Saddle section and 1/2" pipe extension can be used with standard pipe fittings. Base supplied. Finish is a durable black crackle. Shipping Weight 8 lbs.



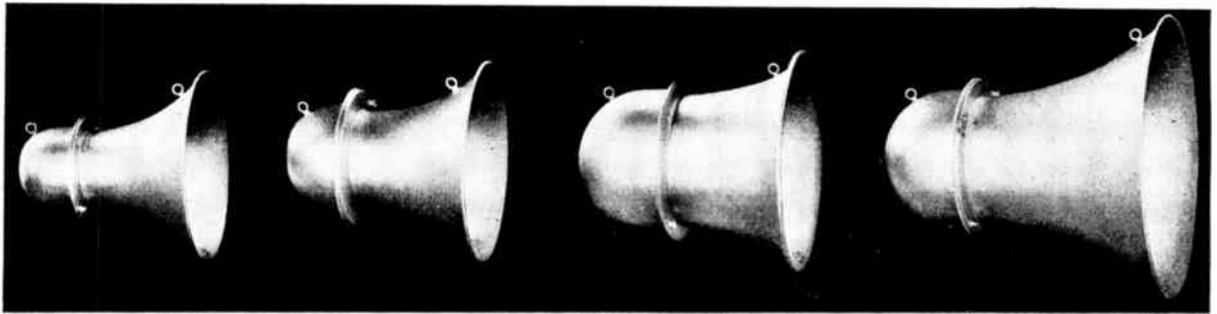
Model ST-9 Fixture and Base . . . List Price \$4.00

ATLAS SOUND CORPORATION



ATLAS PARABOLIC DEFLECTOR Baffles

★ For 6" — 8" — 10" — 12" Cone Speakers



AM-6

B-810

AM-10

P-16

Most Complete Line of Parabolic Deflectors . . . Atlas Sound manufactures a complete line of parabolic baffles for all size speakers . . . for every p. a. application. All models are constructed of steel and aluminum heavy-gauge smooth spinnings.

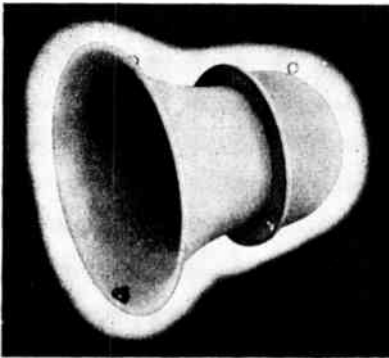
Inter-locking Flange Construction . . . The inter-locking flange is an exclusive Atlas design that increases the strength and eliminates rain

leakage at the seam where the two sections of the baffle are joined.

No Drilling Necessary . . . The cone speaker is securely held in position with the same bolts that hold bell and housing sections together. No additional mounting holes are required. Cadmium-plated hardware, and two mounting loops are supplied for hanging.

Model	Speaker Size	Bell Opening	Bell Length	Total Length	Construction	Finish	Shipping Weight	List Price
AM-6	6"	15"	10"	15"	All-Aluminum	Aluminum	4 lbs.	7.50
B-810	8 or 10"	15"	10"	16"	All-Aluminum	Aluminum	4 lbs.	7.75
AM-10	12"	17"	10½"	20"	Steel Housing	Aluminum	6 lbs.	8.00
P-16	12"	22"	16"	26"	Steel Housing	Aluminum	8 lbs.	13.00

Armor-Plate De Luxe Baffles



INDESTRUCTIBLE . . . Atlas all-steel, non-resonant "Armor-Plate" Baffles will resist the severest type of field service. Exclusive inter-locking flange construction is used to eliminate rain leakage at point where the two baffle sections are joined. Finish is a special baked blue-gray crackle that adequately protects the steel parts from rust and corrosion.

MB-12 De Luxe Model . . . includes metal-cloth (MC) screen for protecting the cone. "Snap-on" weatherproof cover (WC) is supplied for covering bell edge during extreme stormy conditions. Rear housing lined with absorbent acoustic felt (AF).

SB-12 (less accessories) . . . Identical to the MB-12, but does not include MC, WC, and AF accessories. Bell Diameter (both models): 17". Total Length 20". These two models available for 12" speakers only. All speaker mounting hardware and hanging loops supplied. Shipping Weights: MB-12 9 lbs., SB-12 7 lbs.

Model MB-12 De Luxe Baffle.....List \$14.00
Model SB-12 (less accessories)..List \$11.50

ATLAS BAFFLE FITTINGS, AND ACCESSORIES

RUBBER "SNAP-ON" RIM DAMPENER . . . Slotted rubber-rim dampener can be supplied in any specified length to encircle the bell edge of any Atlas Sound horns or baffles.
Model SO Rubber Rim List Price \$.25 Per Ft.

BAFFLE FIXTURES and FLOOR STANDS



ST-8



MF-10



AS-10

Atlas Baffle Fixtures offer easy, convenient mounting for horns and baffles on sound truck, wall, and other surfaces . . . Brackets built for rugged use and include large wing nut to secure baffle in any position. Finish is a durable black crackle.

SA-10 Saddle Fixture Only . . . Includes saddle bracket, ratchet, and wing nut arrangement. End of the lower casting has ½" female pipe thread, making it adaptable to standard pipe fittings. Shpg. wt. 4 lbs.

Model SA-10 Saddle.....List \$2.50

ST-8 Complete Fixture and Base . . . (Illustrated) has a heavy iron pipe stem and sturdy base casting. Ideal for sound truck and wall mounting. Height Overall 12". Base 8". Shipping Weight 8 lbs.

Model ST-8 Fixture.....List \$4.00

MF-10 Heavy Base Floor Stand . . . A 35 lb. floor stand with a tripod base that adjusts itself on uneven surfaces. Heavy outer pipe has an O. D. of 1½". Finish is a durable black crackle. Adjustable from 5 to 9 ft., with locking-wheel adjustment permitting permanent mounting.

Model MF-10 Stand.....List \$12.50

AS-10 Portable Lightweight Stand . . . offers maximum portability in a distinctive 10 lb. stand. Telescoping seamless steel tubes permit height adjustment to 8 ft. Rubber-tipped folding legs offer extreme stability. Fittings finished in silver. Stand finish is dull gloss black enamel. Shipping Weight 11 lbs.

Model AS-10 Stand.....List \$12.50

The MF-10 and AS-10 are suitable for use with AM-10, P-16, SB-12, MB-12 Parabolic Baffles, "WX" Marine Horns, and G-8 Projectors.

Model WC . . . Snap-on weatherproof rain cover for bell of AM-10, or SB-12 List Price \$1.00
Model MC . . . Metal-cloth screen with gaskets for AM-10, SB-12, or P-16 List Price \$3.75
Model AF . . . Pre-formed acoustic felt lining for housings of AM-10, SB-12, or P-16 List Price \$3.75

"MUSIC BOX"



Walnut Acoustic Enclosures

Modern Musical Motif . . . The Atlas Sound "Music Box" sets a new style note in walnut acoustic enclosures. The distinctive design makes the cabinet extremely suitable for the richest room interiors. The specially selected natural-grain walnut used in the "Music Box" is expertly finished with lustrous lacquers to retain and enhance the natural wood grains.

Sturdy Construction . . . The "Music Box" is firmly assembled with inner glue-block construction. Attractive Acoustic-cloth grille sets off the musical design of the cabinet. Complete mounting hardware supplied.

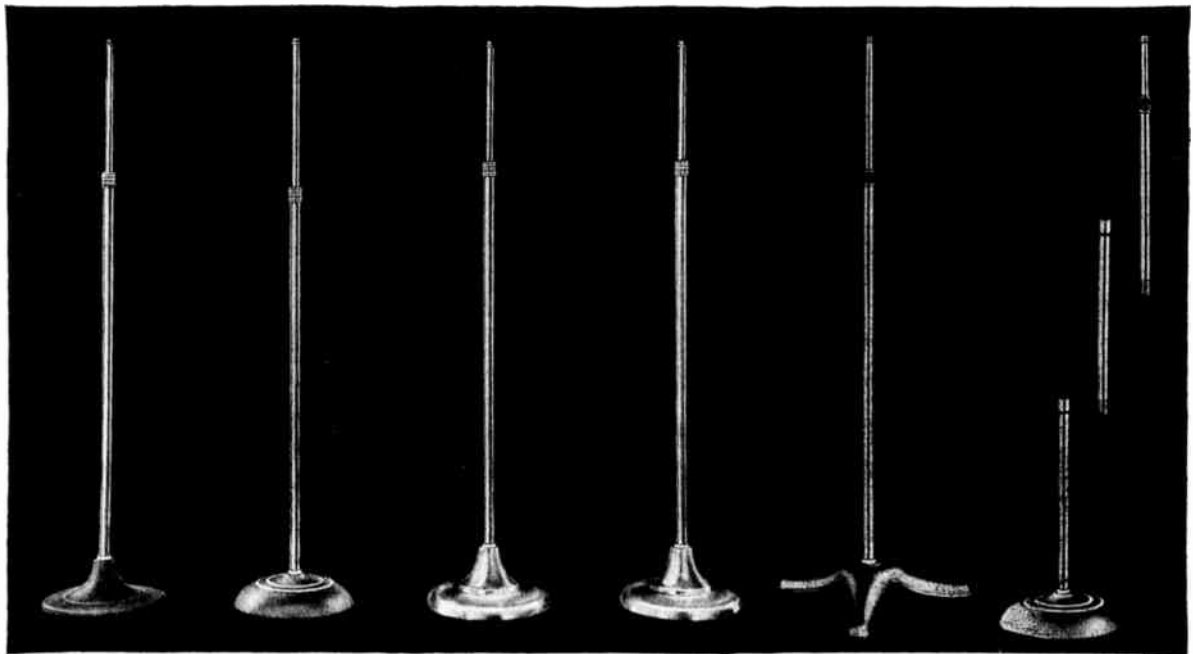
Model AE-8 . . . For 8" Speakers . . . Dimensions: 12½" High, 11" Wide, 7½" Deep at top end. Shipping Weight 4 lbs. List Price \$5.75

Model AE-12 . . . For 12" Speakers . . . Dimensions: 15½" High, 14" Wide, 10" Deep at top end. Shipping Weight 8½ lbs. List Price \$7.50



ATLAS SOUND CORPORATION

"VELVET ACTION*" MICROPHONE STANDS *No Slipping . . . No Scratching . . . No Rattle . . . No Noise . . .



MS-8

MS-9

MS-11

MS-18

MS-10

MS-31

"Velvet Action" Clutch Mechanism . . . the exclusive feature of these superbly created and accurately constructed microphone floor stands. Single-hand control is possible after the clutch has been adjusted to the weight of the microphone. "Velvet Action" Protection Feature . . . offers positive assurance against sudden dropping of the telescoping tube. The new improved pump-action seal also eliminates highly objectionable rattle between tubes.

Heavy-Wall Brass Tubing . . . Triple Chrome Finish . . . The telescoping sections are of heavy wall brass tubing—eliminating rust and corrosion, and assuring "life-time" wear on threaded parts. All models have a $\frac{3}{8}$ " diameter outer tube, and a $\frac{1}{2}$ " inner tube. The stands are expertly finished in the patented triple-plate "Super-Chrome" which insures an everlasting, lustrous surface. Microphone thread size is standard $5\frac{1}{8}$ "—27 male. All bases are furnished with rubber pads.

Model	Base Finish	Tube Finish	Base Diameter	Height Adjustment	Weight	List Price
MS-8	Black Crackle	"Super-Chrome"	10"	36" to 67"	8 lbs.	\$6.00
MS-9	Gray Crackle, Red Circles	" "	10"	37" to 68"	9 lbs.	7.50
MS-11	"Super-Chrome"	" "	10 $\frac{1}{4}$ "	38" to 69"	11 lbs.	8.50
MS-18	"Super-Chrome"	" "	10 $\frac{1}{4}$ "	38" to 69"	18 lbs.	11.00
MS-10	Gun-Metal Crackle	" "	16 $\frac{1}{2}$ "	38" to 69"	10 lbs.	8.00
MS-31	Gray Crackle, Red Circles	" "	10"	19" to 67"	9 lbs.	9.00

ATLAS DESK and BANQUET STANDS

- ★Five Models For Every P. A. Application
- ★Adjustable Stands Incorporate "Velvet Action"



Model DS-3
Adjustable
Desk Stand

Atlas Desk Stands . . . The tubes on all desk stands are finished in the patented triple-plate "Super-Chrome". Bases are available in chromium or black crackle finish, on both the adjustable and fixed type stands. The adjustable Models DS-3 and DS-4 use the exclusive "Velvet Action" friction clutch. All desk stands have a 6" diameter base mounted on anti-shock, scratch-proof felt bumpers. Standard $\frac{5}{8}$ "—27 male microphone thread on all models.



Model TS-5

Banquet Stand Model TS-5 . . . The banquet stand uses the same large $\frac{3}{8}$ " brass tubing and "Velvet Action" clutch as used on the Atlas Floor Stands. The 8" diameter base is finished with gun metal crackle and contrasting red circles, and equipped with shock-proof, scratch-proof rubber bumpers.

MODEL	TYPE	HEIGHT	BASE FINISH	LIST PRICE
DS-1	Fixed	8"	Black Crackle	1.75
DS-2	Fixed	8"	"Super-Chrome"	2.75
DS-3	Adjustable	10" to 15"	"Super-Chrome"	3.75
DS-4	Adjustable	10" to 15"	Black Crackle	2.75
TS-5	Adjustable	18" to 32"	Gun-Metal Crackle	5.50

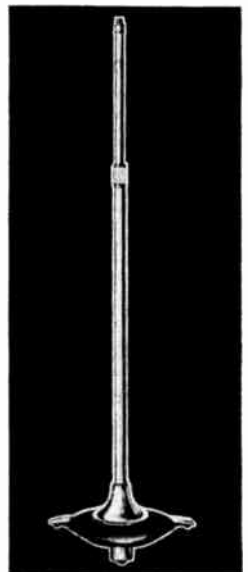
"DE-LUXE" Studio Stand

Distinctive Stand . . . For a Modern Setting . . . Atlas meets the demand for a high quality stand for all microphone applications. Oversize construction and improved clutch of the MS-24 makes the stand easily adjustable and absolutely free from jamming. The clutch mechanism is wear-proof because of its inner bakelite construction. The clutch is 4" in length offering a full, firm grip for the entire hand.

Semi-Tripod Base . . . 17" Spread . . . The base (total weight 24 lbs.) has a modernistic tripod design, permitting the user to stand close to the microphone. Rubber cushions are fastened to the base legs to absorb shock. The base is finished in a combination chromium and opalescent gun-metal crackle. The tubing, base legs, and shell are finished in triple-plate "Super-Chrome".

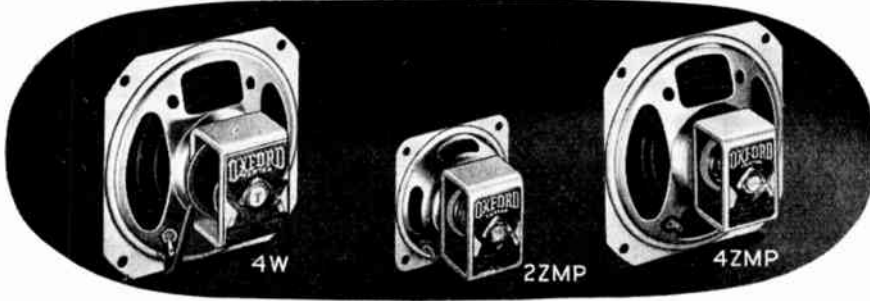
Expert Construction . . . Diameter of the outer tube is $1\frac{1}{8}$ ", and the inner telescoping tube $\frac{3}{4}$ ". These tubes permit height adjustment from 42" to 72". Two adaptors are supplied for microphones having either $\frac{5}{8}$ "-27 or $\frac{1}{2}$ " threads.

MS-24 Stand . . . \$16.50 List



OXFORD

TARTAK



"JUNIOR SERIES"

Electro-Dynamic

and

Permag

SPEAKERS

IT IS MORE ECONOMICAL TO REPLACE A DEFECTIVE SPEAKER THAN TO REPAIR IT!

OXFORD "Junior Series" comprises the most widely used types of speakers up to 8". All have standard mountings for easy installation. Model 2ZMP may be used as MICROPHONE with transformer #1290.

2" PERMAG

Model	Over-all Diameter	Cone Size	V.C. Imp. Ohms	Power Cap. Watts	Ship. Wt. Oz.	List Less Trans.	Net
2ZMP	2 1/2"	2 1/4"	3-4	1	7	\$1.75	\$1.05

3" and 4" ELECTRO-DYNAMIC

Model	Size	Field Res. Ohms	V.C. Imp. Ohms	Ship. Wt. Oz.	List Less Trans.	Net
3W1	3"	450	4.5	10	\$1.75	\$1.05
3W2	3"	2750	4.5	10	1.75	1.05
4W1	4"	450	4.5	10	1.85	1.11
4W2	4"	2750	4.5	10	1.85	1.11

6"—8" ELECTRO-DYNAMIC

Model 6J and 8J supplied with universal transformers. 6J has elongated holes in mounting flange to fit 6" or 6 1/2" speaker opening. Sturdily constructed these speakers may be used for small PA installations where a Permag is not desired, or for replacement speakers in small console sets.

Model	Size	Field Ohms	V. C. Ohms	List	Net
J-61	6 1/2"	2750	5	\$3.40	\$2.04
J-62	6 1/2"	1800T300	5	3.40	2.04
J-63	6 1/2"	1000	5	3.40	2.04
J-64	6 1/2"	6 volt	5	3.40	2.04
J-81	8"	2500	5	4.40	2.64
J-82	8"	1800T300	5	4.40	2.64
J-83	8"	1000	5	4.40	2.64
J-84	8"	6 volt	5	4.40	2.64

Speakers may be purchased less transformer—deduct 85c list on 6J series, \$1.00 on 8J series. Special fields 75c additional list.

3" 4" 5" PERMAG

Model	Size	V.C. Imp. Ohms	Power Cap. Watts	Ship. Wt. Oz.	List Less Trans.	Net
3ZMP	3 1/2"	3-4	1 1/2	8	\$1.85	\$1.11
4ZMP	4 1/8"	3-4	2	10	1.95	1.17
5ZMP	5"	3-4	2 1/2	12	2.00	1.20

5" ELECTRO-DYNAMIC

Specifications on speakers listed below:—V. C. imp. 5 ohms. Outside diameter 5" Power cap. 2 1/2 watts. Shipping wt. with transformer 1 1/2 lbs., less transformer 1 1/4 lbs. Speaker furnished with removable mounting bracket. 450 ohm speakers furnished with bucking coil.

Model	Field Res. Ohms	Trans.	List	Net
V-51	2750	S-43	\$2.60	\$1.56
V-52	1800T300	S-42	2.60	1.56
V-53	1000	S-42	2.60	1.56
V-54	450	S-25L6	2.60	1.56
V-55	6 volt	S-41	2.60	1.56
V-51-L	2750	Less Trans.	2.00	1.20
V-52-L	1800T300	Less Trans.	2.00	1.20
V-53-L	1000	Less Trans.	2.00	1.20
V54-L	450	Less Trans.	2.00	1.20
V-55-L	6 volt	Less Trans.	2.00	1.20

TRANSFORMERS

The transformers listed below have been especially designed for use with Oxford speakers. They are highly efficient and provide the correct matching for maximum output efficiency. Model 1290 voice coil to grid transformer is enclosed in a metal shell.

Trans. No.	Type	Output Tube	Core Size	For Speakers	Load Imp. Ohms	List Price	Net Price
21H25	Single	25L6	1 1/2" x 1 1/2"	{ 2"—3"—4"—5" } { PM. and Electros }	2000	\$0.65	\$0.39
21F55	Single	25A7	1 1/2" x 1 1/2"	" " "	4500	.65	.39
21J75	Single	42	1 1/2" x 1 1/2"	" " "	7000	.65	.39
1290	V.C. to grid	"	1 1/2" x 1 1/2"	" " "	Universal	1.00	.60
U21	Universal	"	1 1/2" x 1 1/2"	" " "	500	1.00	.60
L21	500 ohm	Line	1 1/2" x 1 1/2"	" " "	500-1000-1500-2000	.65	.39
UL21	Universal	Line	1 1/2" x 1 1/2"	" " "	500-1000-1500-2000	1.00	.60
U85	Universal	"	3/8" x 3/8"	(6"—8")	Universal	1.25	.75
L85	500 ohm	Line	3/8" x 3/8"	(6"—8")	500	1.00	.60
UL85	Universal	Line	3/8" x 3/8"	(6"—8")	500-1000-1500-2000	1.25	.75
U43	Universal	"	3/8" x 3/8"	(8"—14")	Universal	1.50	.90
L43	500 ohm	Line	3/8" x 3/8"	(8"—14")	500	1.25	.75
UL43	Universal	Line	3/8" x 3/8"	(8"—14")	500-1000-1500-2000	1.50	.90
U87	Universal	"	7/8" x 7/8"	(12"—14")	Universal	2.00	1.20
L87	500 ohm	Line	7/8" x 7/8"	(12"—14")	500	1.75	1.05
UL87	Universal	Line	7/8" x 7/8"	(12"—14")	500-1000-1500-2000	2.25	1.35

*Universal output transformers for most tubes—single, PP parallel or Class B.

OXFORD

TARTAK



PUBLIC ADDRESS SPEAKERS ELECTRO-DYNAMIC AND PERMAG



8 EMP

For the exacting requirements of public address installations, OXFORD offers several Permrag and Electro-dynamic models ranging in size from 3" to 14". Among these models are those suitable for use with electro-musical instruments, as electrical guitars, or for orchestral work. Other models may be used with coin-operated phonographs, or in inter-office communicating systems or extension speakers. Wherever a high quality efficient speaker is desired, an Oxford Permrag speaker can be relied upon to do the work successfully.

Models 12DM2 and 14DM2 are two new DeLuxe Permrag heavy-duty public address speakers of superior tone quality and power-handling capacity. They are recommended for the finest installations.

The Electro-Dynamic speakers are furnished with listed fields as standard. Special fields are available at \$1.00 additional list price (60c net). AC models are supplied for use on 110 volts, 60 cycles. Special AC transformers for other voltages and frequencies are available at additional cost. (Prices given on request.)



12 DM2

PERMAG

Model	Diameter	Voice Coil Size — Imp.	Power Cap. Watts	Ship. Wt. Lbs.	List Price Less Trans.	Net Price Less Trans.
30MP	3 1/2"	5/8"	5	2	1 1/4	\$ 2.60
50MP	5"	5/8"	5	2 1/2	1 1/2	2.60
60MP	6 1/2"	5/8"	5	3 1/2	1 3/4	3.00
6EMP	6 1/2"	3/4"	6-8	4	2 1/2	3.00
8EMP	8"	3/4"	6-8	5	3 1/4	4.50
8SMP	8"	1"	6-8	7	4 1/2	7.50
10AMP	10"	1"	6-8	7	5	7.50
10SMP	10"	1"	6-8	8	5 1/2	8.50
11SMP	11"	1"	6-8	8	5 3/4	8.50
12AMP	12"	1"	6-8	8	5 1/2	8.50
12SMP	12"	1"	6-8	9	7 1/2	9.50
12DM2	12"	1 1/4"	8	20	11	15.00
14DM2	14"	1 1/4"	8	20	12	18.00

Speakers above furnished less transformer; if transformer is desired, specify by indicating transformer number after Speaker model number. (See chart on reverse side for proper transformer.)

ELECTRO-DYNAMIC

Model	Diameter	Field Res. Ohms	Voice Coil Size — Imp.	Power Cap. Watts	Trans.	Ship. Wt. Lbs.	List	Net
8F1	8"	2500	3/4"	4	6	Univ.	5	\$ 5.00
8F2	8"	1800T300	3/4"	4	6	Univ.	5	5.00
8F3	8"	1000	3/4"	4	6	Univ.	5	5.00
10U1	10"	2500	1"	6-8	8	Univ.	7	7.25
10U2	10"	1800T300	1"	6-8	8	Univ.	7	7.25
10U3	10"	1000	1"	6-8	8	Univ.	7	7.25
12U1	12"	2500	1"	6-8	10	Univ.	8	8.25
12U2	12"	1800T300	1"	6-8	10	Univ.	8	8.25
12U3	12"	1000	1"	6-8	10	Univ.	8	8.25
12D1	12"	1000	1 1/4"	8	15	None	13	10.50
12D2	12"	2500	1 1/4"	8	15	None	13	10.50
12DS1	12"	1000	1 1/4"	8	15	None	15	13.50
12DS2	12"	2500	1 1/4"	8	15	None	15	13.50
12DSAC	12"	AC	1 1/4"	8	15	None	15	21.50
14D1	14"	1000	1 1/4"	8	18	None	14	12.00
14D2	14"	2500	1 1/4"	8	18	None	14	12.00
14DS1	14"	1000	1 1/4"	8	18	None	16	15.00
14DS2	14"	2500	1 1/4"	8	18	None	16	15.00
14DSAC	14"	AC	1 1/4"	8	18	None	19	23.00

12DS and 14DS models furnished with support stand. On "D" and "DS" series if transformer is desired, specify transformer number after speaker model number. (See transformer chart on reverse side.)

MAGNETIC SPEAKERS

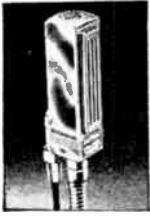
OXFORD magnetic speakers are supplied in four popular sizes 3"—5"—6"—8". All are ruggedly constructed and use highly efficient magnets.

Model	Size	Ship. Wt.	List	Net
M30	3 1/2"	3/4 lb.	\$1.75	\$1.05
M50	5"	3/4 lb.	1.85	1.11
M60	6 1/2"	1 lb.	2.25	1.35
M80	8"	1 1/2 lb.	2.00	1.74

UNIVERSAL microphones

"5mm" SERIES

Velocity Type



Outstanding for all around use; P. A. systems, orchestras, stage and drama pick up. So small and compact does not hide face of performer. Will greatly reduce feedback in any installation. Sensitive 5 mm ribbon element. Frequency response; 40-10,000 CPS. Output level; 58 db. below one volt per bar. Highly

polished Chrome finish. De Luxe equipment included in handsome package; 25 ft. rubber covered cable, with lock ring connector at housing; suspension loop; Duvello cover and "Flex-tube" (allows tilting of microphone and "stays put"). 5/8 inch-27 thread stand coupling. Microphone size; 1 1/4 inches square x 4 1/2 inches high. Weight 16 oz., packed 3 lbs.

Model	Impedance	Price
808	High	\$24.50
807	500 ohms	24.50
806	200 ohms	24.50
805	33 ohms	24.50

"CINEMA" SERIES



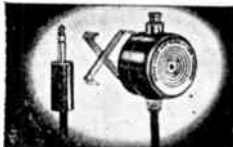
Distinctive in all professional applications. Beautifully chrome plated case with swivel yoke. Its rich appearance fills need for movie type microphone. Furnished with popular 15mm elements. (See 15mm models). Diameter: 2 1/4 inches, depth, 3 1/2 inches. 25 foot cable furnished. 5/8 inch - 27 thread stand coupling. Lock ring connector at housing. Weight, 14 ozs., packed, 2 1/2 lbs.

connector at housing. Weight, 14 ozs., packed, 2 1/2 lbs.

Model	Impedance	Price
723	High	\$24.50
722	500 ohms	24.50
721	200 ohms	24.50
720	33 ohms	22.50

Model	Impedance	Price
716	High	\$22.50
719	500 ohms	24.50
718	200 ohms	24.50
717	33 ohms	24.50

New AIRCRAFT MODEL FOR PRIVATE CRAFT



For aircraft and marine installations; mobile transmitters, etc. Natural voice reproduction. Single button carbon. Sturdy black Bakelite case. Moisture proof cord 3 1/2 ft. Reinforced six inches from each end. Motor noises damped out by Anti-noise construction. Button impedance 200 ohms, output approximately 30 volts RMS across microphone transformer secondary. Double pole, single throw, press-to-talk switch connects microphone and relay circuit simultaneously. Complete with heavy duty "push-in" mounting bracket. Dia. 2 1/4" thickness, 1 1/2". Net wt. 6 1/2 oz., packed 3/4 lb.

Model CU-1 with 3 way plug....Price, \$16.25
Model CU-2 with 109-A plug....Price, 18.25

"15mm" SERIES



Ideal for all general P. A. Applications; recording, broadcasting and any place where a reliable instrument is required. Sensitive 15 millimeter actuated elements. Modernistic, chrome plated body. De Luxe equipment included in handsome package. 25 ft. rubber covered cable with lock ring connector at housing. Suspension loop, Duvello cover, and "Flex-tube" (allows tilting of microphone and "stays put"). 5/8 inch 27 thread stand coupling. Diameter 2 1/4 inches. Depth 2 3/4 inches. Weight 2 1/2 lbs.

DYNAMIC TYPE—
A rugged, reliable unit. Not affected by temperature or humidity. Frequency response: 50-8000 CPS. Output level; 58 db. below one volt per bar.

Model	Impedance	Price
308	High	\$24.50
307	500 ohms	24.50
306	200 ohms	24.50
305	33 ohms	24.50

CRYSTAL TYPE—
Clear, brilliant reproduction. Curvi-linear diaphragm. Element protected against moisture and mechanical shock. Barometrically compensated. Frequency response: 50-8000 CPS. Output level: 48 db. below one volt per bar.

Model	Impedance	Price
312	High	\$24.50
311	500 ohms	27.50
310	200 ohms	27.50
309	33 ohms	27.50

"M4" SERIES VELOCITY TYPE



Scientifically developed, four-magnet Velocity unit. For general public address and semi-professional use Non-resonant. A best seller. Will greatly reduce feedback in any installation. Frequency range, 40-10,000 CPS. Output level; 58 db below one volt per bar. Hum-bucking transformers. Available in four impedances. Equipped with tilting cradle. 25 foot cable and lock ring connector at housing. Black "crackle" finish with high polish chrome trim. Size: 2 inches x 3 3/8 inches x 5 1/2 inches. 5/8 inch 27 thread stand coupling. Packed weight, 3 1/2 lbs.

Model	Impedance	Price
108	High	\$22.50
107	500 ohms	22.50
106	200 ohms	22.50
105	33 ohms	22.50

"AV" SERIES

Constant air-velocity. Super microphone. Ultra-refined unit. Wide range pick-up. Fidelity of tone unsurpassed. High flux magnets. Non-resonant. Will greatly reduce feedback in any installation. For all professional applications; recording, broadcasting studios, etc. Output level; 56 db below one volt per bar. Equipped with tilting cradle; 25 ft. rubber covered cable; 5/8 inch-27 thread stand coupling. Beautifully finished in High Lighted Satin Chrome plate. Frequency response: 30-12000 CPS. Size: 2 1/2 inches x 3 3/8 inches x 5 1/2 inches high. Packed weight 3 1/2 pounds.

Model	Impedance	Price
958	High	\$44.50
957	500 ohms	44.50
956	200 ohms	44.50
955	33 ohms	44.50

Model "W"



Single button Carbon, high sensitivity, light weight, compact design. Ideal defectophone, used on small transmitters, communicating systems; experimenters' favorite. Clear-cut response to all voice frequencies. (Output level, -38 db). Screw terminals. Impedance, 200 ohms. Black Bakelite Case. Diameter 1 1/2 inches; thickness 1/2 inch. Weight 1 1/2 ozs. Packed 2 1/2 ounces. Price, \$3.00

New Model "KO" CRYSTAL and "KD" DYNAMIC



- RECORDING
- AMATEURS
- PUBLIC ADDRESS
- ORCHESTRAS
- CARNIVALS
- CALL SYSTEMS
- New high output crystal and dynamic units with slightly rising frequency characteristics.
- Brilliant tone quality with well rounded bass response. ● Luxurious satin stately bronze finished case contrasted with polished chrome face and grille.
- 10 foot low capacity, rubber covered cable included. Furnished in color to match microphone.
- Output level; 48 db below one volt per bar. Frequency range: 50-800 CPS. 5/8 inch-27 thread stand coupling. Diameter 2 1/4 inches, depth 2 3/4 inches. Weight packed; 1 1/2 pounds.
- Model "KO" Crystal or "KD" Dynamic Microphone including 10 foot cable as shown (less stand) \$16.25

New Aircraft Type Hand Set



For aircraft, amateurs, mobile, pack transmitters and two way phone systems. May be used anywhere. Rugged, light weight construction. A low priced dependable instrument. Furnished in black Bakelite with six foot cord. Microphone and receiver terminated separately. Receivers available in two resistances; 75 ohms for matching line impedances, 2000 ohms for matching plate circuit of output tube. Switch not available. (See Heavy Duty Type.) Replaces older "FIMET" and "FIMEX" types. Weight only 7 ozs., packed, 1 lb.

Model	Microphone	Receiver	Price
875	S. B. Carbon 200 ohms -38db	Magnetic 75 ohms	\$10.00
820	S. B. Carbon 200 ohms -38db	Magnetic 2000 ohms	10.00

AR-1 SERIES



Aircraft Microphones Approved by U. S. Government Civil Aeronautics Authority
Approval Nos. 185 & 186
Single button carbon, anti-noise construction for private and commercial aircraft. Operates in any position, any climate and any place a lightweight rugged unit is required. Using "communications" characteristic. Button impedance 200 ohms. Output approx. 30 volts RMS across microphone transformer secondary. Heavy duty, press to talk, double pole, single throw switch; connects microphone and relay circuit simultaneously. Moisture proof, four foot cord; reinforced six inches from each end. Body diameter, 1 1/2 inches. Thickness 1 1/2 inches. With positive grip roller bracket. All metal Dural body finished in Ivory Black Dielectric. Complete with 109-A plug. Microphone weighs 4 oz., packed 1 lb.

See last page for Transformer
Model AR-1S. For closed cabin craft. Maximum sensitivity. Anti-Noise. C.A.A. Approval No. 185. Price, \$35.00
Model AR-1M. For moderately quiet cabin craft. Medium sensitivity. Anti-Noise. C.A.A. Approval No. 186. Price, \$35.00
Model AR-1D. For open cockpit and combat aircraft. Extra damped. Anti-Noise, Non-Commercial application. Price, \$35.00

"1941 AMATEUR'S CHEST MIKE"

For amateurs, mobile transmitters, sound trucks. May be used any place where operator must have both hands free. Excellent voice characteristics. "Communications" type crystal microphone. Moisture and shock proof element. Ten foot rubber covered cable. Chrome plated. Light weight, rugged construction. Frequency response: 50-5000 CPS. Output: 48 db below one volt per bar. Weight only 7 oz., packed 1 1/2 pounds. PRICE \$19.50



MODEL N-3

UNIVERSAL Microphones

HANDI-MIKES

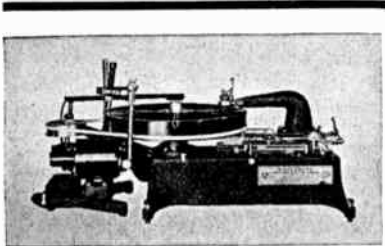


An unbeatable value in the field of portable sound equipment. For use in sports events, call systems, small transmitters, sound trucks and all spots where a close-talking clear reproduction unit is required. Balanced-grip. Polished chrome plate. Overall length 8 in. Diameter of head 2 1/4 in. Snap switch and "A" circuit standard, as illustrated, with 6 ft. flexible cord. Packed weight 1 1/2 lbs.

Model	Unit	Impedance	Output	Price*
200-A	S. B. Car.	200 ohms	-38 db	\$10.00
201-A	D. B. Car.	200/B ohms	-55 db	15.00
202-A	Crystal	High	53 db*	18.50
203-A	Crystal	High	48 db*	22.50
216-A	Crystal	500 ohms	-59 db	24.50
215-A	Crystal	200 ohms	-59 db	24.50
214-A	Crystal	33 ohms	-59 db	24.50
212-A	Dynamic	High	58 db*	24.50
211-A	Dynamic	500 ohms	-64 db	24.50
210-A	Dynamic	200 ohms	-64 db	24.50
204-A	Dynamic	33 ohms	-61 db	22.50

POLICE TYPE HANDI-MIKE MODEL PCT

Special single button carbon unit. Designed particularly for police transmitter work. Motor frequencies damped out. Ventilated rubber mouthpiece for close talking "press-to-talk" switch for relay operation. 6 foot weather-proof cable. Shield used as common ground. Price \$18.50*



Universal Professional Recorder

A Reliable "Rock Solid" Recording Machine Built for Long and Continued Service

Adjustable mounting feet. Chassis of cast iron. 16-inch turntable weighing 110 lbs. Endless, non-elastic, gum-dipped linen belt insures smooth running without "wavers" or "wows." Self-starting motor, guaranteed 100 per cent synchronous. Lead Screw has clutch mechanism which enables operator to "start" lead screw riding shoe, or release it instantly for moving slide to any new position. Safety grooves at each end prevent "jamming" or damage to mechanism. Slide bar rolls on frictionless, hardened ball-bearing grooves, in renewable rails. Dimensions over all: 36" x 19" x 14". Net wt. 225 lbs. Boxed for shipping (two boxes) 3/3 and 5/4 cu. ft., gross wt. 300 lbs. Complete with 15 ohm full frequency cutting head and standard high quality crystal pickup, ready to connect to amplifier and associate equipment. Price.....\$585.00 (Packing and Boxing \$5.00 Net additional)

UNI-CORD Non-Inflammable

Acetate Coated Cardboard Blanks Flexible, easy cutting, long wearing, economical. Made especially for home and school recording.

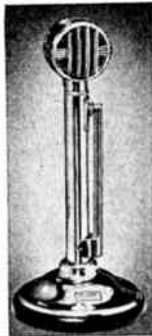


6 1/2" Double-faced.	Carton of 8.....	Price \$1.00
8" Double-faced.	Carton of 3.....	Price 1.00
10" Double-faced.	Carton of 2.....	Price 1.00
12" Double-faced.	Carton of 2.....	Price 1.25

*Below one volt per bar.

GRASP-TO-TALK DESK MODELS

For all communication systems, police departments, Ship-to-shore, and portable sound equipment. Several types of microphone units available. Grasp-to-talk switch turns microphone "on and off." Other circuits on order. Polished chrome plating. Height overall 11 inches. Rubber non-skid base. Six foot cable. Weight 2 1/2 lbs., packed 4 1/2 lbs.



Model	Unit	Impedance	Output	Price*
509-A	S. B. Carbon	200 Ohms	-38 DB	\$18.50
510-A	D. B. Carbon	200/B Ohms	-55 DB	23.00
511-A	Crystal	High	48 DB*	27.50
514-A	Crystal	500 Ohms	-59 DB	27.50
513-A	Crystal	200 Ohms	-59 DB	27.50
512-A	Crystal	33 Ohms	-59 DB*	27.50
518-A	Dynamic	High	58 DB*	27.50
517-A	Dynamic	500 Ohms	-64 DB	27.50
516-A	Dynamic	200 Ohms	-64 DB	27.50
515-A	Dynamic	33 Ohms	-64 DB	25.50

PRESS-TO-TALK DESK MODELS

Same as Grasp-to-talk model except non-locking, press-to-talk switch turns microphone on. Other circuits available. Write for bulletin.

Model	Unit	Impedance	Output	Price*
600-A	S. B. Carbon	200 Ohms	-38 DB	\$17.50
601-A	D. B. Carbon	200/B Ohms	-55 DB	22.50
602-A	Crystal	High	48 DB*	26.50
605-A	Crystal	500 Ohms	-59 DB	26.50
604-A	Crystal	200 Ohms	-59 DB	26.50
603-A	Crystal	33 Ohms	-59 DB	26.50
609-A	Dynamic	High	58 DB	26.50
608-A	Dynamic	500 Ohms	-64 DB	26.50
607-A	Dynamic	200 Ohms	-64 DB	26.50
606-A	Dynamic	33 Ohms	-64 DB	24.50

Press-to-Talk Heavy Duty Hand Set



Double pole press-to-talk switch

Use on yachts, pack travelers, two-way talk back systems; any commercial application. Thick walled Bakelite construction. Polished metal rings make for modernistic appearance and sturdy construction. "Communications" type microphone characteristic. "Superflux" magnetic type earphone unit, using new magnetic principle. Available in two resistances; 75 ohms for matching line impedances, 2000 ohms for matching plate circuit of output tube. "Tropic" sealed. Separate wires to switch. Six foot flexible cord. Weight packed, 1 1/2 lbs.

Model	Microphone	Receiver	Price*
175-E	S. B. Carbon	Magnetic	\$14.50
120-E	200 ohms -38db	75 ohm	
275-E	S. B. Carbon	Magnetic	14.50
275-E	200 ohms -38db	2000 ohm	
220-E	Crystal	Magnetic	28.50
220-E	Hi-Imp. 48 db*	75 ohm	
375-E	Crystal	Magnetic	28.50
375-E	Hi-Imp. 48 db*	2000 ohm	
320-E	Dynamic	Magnetic	28.50
320-E	33 ohms -64 db	75 ohm	
	Dynamic	Magnetic	28.50
	33 ohms -64 db	2000 ohm	

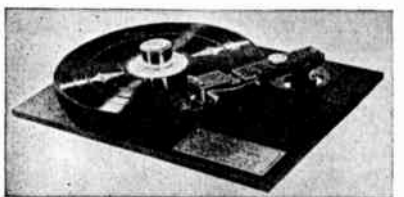


Carbon Microphones Model "XX" DOUBLE BUTTON

Small heavy duty, double button carbon microphone. World's favorite carbon microphone. For use in sports events, concessions, amateur stations. Low hiss granules. Stretched Duralumin diaphragm. Frequency range: 40-6000 CPS. Impedance: 200 ohms per button. Output level: -22db. Polished chrome finish. Diameter: 2 1/4 inches, overall thickness 1 1/4 inches. Weight 8 oz., packed 1 lb. PRICE \$10.00*

Model X-1 SINGLE BUTTON

Same characteristics and size as XX except single button construction. PRICE \$7.50*



PRECISION CUTTING HEAD

Scientific design. Capable of cutting any type of record material. Maximum field generated by Hi-Flux ALNICO permanent magnet. Designed for long and dependable service with maximum sensitivity within audio frequency range. Frequency response 70 to 8200 cycles per second. Furnished in 15 ohm imp. only. Will operate where average loudspeaker voice coil has been attached. Finish black "crackled" baked enamel. Size 1 1/2" high, 1" wide, 5/8" thick. Net wt. 4 oz. Complete with set of instructions. Price \$22.50



New Universal Full Frequency Cutting Head



Perfect electrical balance! Magnetic balance! Mechanical balance! Gives crisp, clear, clear recordings with brilliant HIGHS and full rounded BASS! Records frequencies from 30 to 10,000 cycles and over. Electrical circuit designed to be fed direct from 15-ohm power source. Operates in any climate unaffected by heat, cold or humidity — tropic sealed! All precision metal construction. All adjustments locked and sealed. Gives uniform performance every day for years! Price, \$90.00

Reference zero, six milliwatts with 10 bar signal, unless otherwise indicated.

RECORDING TURNTABLES

Ideal assemblies for the radio amateur, recording experimenter, public address man, schools and classes who wish to build or assemble their own system. Small and compact, but ultra-efficient recording chassis for easy mounting and simple hook-up to any amplifier or radio permitting at minimum investment clear and clean full volume recordings. Cutting head extra sensitive, wide range Magnetic Unit of 15 ohms. Resistor waste to 22db. Impedance for cutting heads match speaker voice coil circuits, eliminating necessity of purchasing special transformers, etc. Lead screw cuts out to in-118 lines cuts up to 10" blanks. Constant Speed Induction Type Motor (not synchronous) of more than ample power to drive the weighted turntable to standard speed of 78 R.P.M.—Self-starting, quiet, powerful. Weight at center collects threads at same time holding blank in position and operates as Stop and lifter for cutting head at end of cut. This feature alone worth many dollars to any owner.

Mounted on leatherette-covered veneered top-board. 11" x 14" wide. Net wt. 12 1/2 lbs. Packed wt. 18 lbs. Model PB-60—For 60 cy., 110 volt....Price \$39.50 Model PB-50—For 50 cy., 110 volt....Price 39.50 Model PB-25—For 25 cy., 110 volt....Price 39.50

SYNCHRONOUS PLAYBACK AND TURNTABLE ASSEMBLY

100% synchronous condenser start and run motor operates turntable at both 78 and 33 1/3 R.P.M. The ball planetary change speed device is shifted by lever for transcription speed and for phonograph speed. Reproduces music in true pitch and fidelity, absolutely without "wows" or "waver". Turntable 12" diameter with brown buff finish. Aluminum mounting plate 5 1/2" x 10". Total weight 12 1/2 lbs. Packed, 17 lbs. Model No. 81—For 60 cy., 110 volt....Price \$81.00 Model No. 91—For 50 cy., 110 volt....Price 91.00 Model No. 95—For 25 cy., 110 volt....Price 95.00

SHURE

CARDIOID MICROPHONES

Stop Feedback * Permit More Volume * Increase Pickup Range * Reduce Reverberation Effects
Improve Reproduction * Simplify Installations

Shure True Uni-Directional Cardioid Microphones are effectively solving troublesome sound problems in Broadcasting, Recording, and Public Address. They improve existing installations and simplify new set-ups in studios, theatres, night clubs, auditoriums, schools, churches, and hundreds of other acoustically difficult locations indoors and outdoors.

"UNIPLEX" CARDIOID CRYSTAL

True Uni-Directional Performance—at Low Cost!

It's "Goodbye Feedback" when you install this famous Shure "Uniplex"—the lowest priced true cardioid microphone. High quality reproduction from 30 to 10,000 cycles over a wide angle at the front, yet practically unaffected by sound approaching from the rear. (Rear response down approximately 15 db.) Permits more volume without feedback—simplifies microphone placement—greatly improves systems using ordinary microphones—makes possible a good P.A. installation where poor acoustic conditions did not permit it before. Uses exclusive Shure "Uniphase" principle. Output level: 63 db below 1 volt per bar. Specially moisture-proofed Gratoil Bimorph Crystal. "Swivel-head." Distinctively modern, streamlined case design, finished in Satin Chrome. Built-in cable connector. Standard $\frac{9}{8}$ "-27 thread. Diameter $3\frac{1}{8}$ ", depth $3\frac{3}{8}$ ". Shipping weight $7\frac{1}{2}$ lbs. (Shure Pat. 2,198,424)

Model 730A. "UNIPLEX" Cardioid Crystal Microphone. Complete with 25 ft. super shielded cable. Code: **Rupel**.
List Price **\$32.50**

"UNIDYNE" CARDIOID DYNAMIC

Today's Most Popular True Uni-Directional Microphone

Solves feedback, reverberation, background noise. Specially suspended double wind-screened moving-coil system. Employs exclusive Shure "Uniphase" principle. Smooth response from 40 to 10,000 cycles. Wide angle pick-up at front, dead at rear (down 12-15 db). Rugged, shock-proof construction. Practically unaffected by heat and humidity. Ideal for severe outdoor and indoor service. Head tilts through 90 degree angle. Built-in cable connector. Satin Chrome finish. Permissible cable length practically unlimited on low impedance models. Standard $\frac{9}{8}$ "-27 thread. Case dimensions: $4\frac{1}{4}$ " high; $3\frac{1}{4}$ " wide; $3\frac{1}{2}$ " deep. Shipping weight $4\frac{1}{4}$ lbs.

Model 55A. Low impedance. For 35-50 ohm circuits. 25 ft. two-conductor shielded cable. Output level into 50 ohms: 62.8 db below 6 milliwatts for 10 bar signal.
Code: **Rudar**.
List Price **\$42.50**

Model 55B. Low impedance. For 200-250 ohm circuits. Includes internal transformer. 25 ft. two-conductor shielded cable. Output level into 250 ohms: 63.8 db below 6 milliwatts for 10 bar signal. Code: **Rudat**.
List Price **\$45.00**

Model 55C. High impedance. May be used with any crystal microphone amplifier or other amplifier with input impedance of 100,000 ohms or more. Includes internal transformer. 25 foot single conductor shielded cable. Output level: 55.5 db below 1 volt per bar.
Code: **Rudas**.
List Price **\$45.00**

Model A86A. High Quality Cable-Type Transformer to match 35-50 and 200-250 ohm microphones to high impedance amplifier input. Code: **Rudeb**.
List Price **\$10.00**

"555" BROADCAST CARDIOID DYNAMIC

Solves Tough Pick-up Problems in Broadcasting and Recording

Broadcast Stations and Recording Studios are rapidly replacing present equipment with this new Shure 555 Broadcast Unidyne. Solves troublesome sound pick-up problems in studio and remote applications. Exclusive Shure "Uniphase" principle provides true cardioid uni-directional performance at surprisingly low cost. Smooth response from 40 to 10,000 cycles at front; dead at rear (down 12-15 db). Cuts down reflection and reverberation effects, reduces background noise pick-up. Extremely rugged construction. Specially-suspended double-wind screened moving coil system. Built-in transverse vibration isolation unit. Swivel head. Satin Chrome finish. Standard $\frac{9}{8}$ "-27 thread. Easily adapted to fit stands with other threads. Equipped with 18" stub of rubber-covered two-conductor shielded cable, trimmed on free end for attachment of connector plug. Stub may easily be replaced by longer length of cable if desired. Case dimensions: $4\frac{1}{2}$ " high; $3\frac{1}{4}$ " wide; $3\frac{1}{2}$ " deep. Shipping weight $4\frac{1}{2}$ lbs. (Call Letter Plate not included).

Model 555A. Broadcast "Unidyne" Dynamic, for 35-50 ohm circuits. Output level into 50 ohms: 62.8 db below 6 milliwatts for 10 bar signal. Code: **Rudiv**.
List Price **\$60**

Model 555B. Broadcast "Unidyne" Dynamic, for 200-250 ohm circuits. Includes internal transformer. Output level into 250 ohms: 63.8 db below 6 milliwatts for 10 bar signal. Code: **Rudif**.
List Price **\$60**

Model 555C. Broadcast "Unidyne" Dynamic. High impedance. Includes internal transformer. Output level: 55.5 db below 1 volt per bar. Code: **Rudiv**.
List Price **\$60**

(Broadcast Call Letter Plate, as illustrated, Suspension Adapter, Vibration Isolation Unit, also available for Model 555. Write for Bulletin 165C).

(Shure Patents Allowed on all Microphones above).



SHURE

DYNAMIC and CRYSTAL WIDE-RANGE MICROPHONES



NEW "STRATOLINER" DYNAMIC

Smoother Response for Voice and Music

A new dynamic leader in beauty and performance for general-purpose P.A., remote broadcasting, recording, call systems, and other applications indoors and outdoors. Moving-conductor type. Smooth wide-range frequency response. No annoying peaks or distortions. Very rugged. Practically immune to heat and humidity. Built-in high quality transformer. Permissible cable length practically unlimited with low impedance models. Die cast case finished in rich Satin Chrome. Swivel head easily aimed at source of sound. Semi-directional or non-directional operation. Built-in cable connector. Standard $\frac{3}{8}$ "-27 thread. Diam. $2\frac{1}{2}$ ", length 4 $\frac{7}{8}$ ". Shpg. wt. 2 $\frac{3}{4}$ lbs.

Model 508C. High Impedance Dynamic. May be used with crystal microphone amplifier and others with input impedance of 100,000 ohms or more. Output: 60 db below 1 volt per bar. Complete with 25 ft. single-conductor shielded cable. Code: **Rudob.** **\$27.50**

List Price
Model 508A. Low Impedance Dynamic. For 35-50 ohm lines. Output: 68 db below 6 milliwatts for 10 bar signal. Complete with 25 ft. two-conductor shielded cable. Code: **Rudoc.** **\$27.50**

List Price
Model 508B. Low Impedance Dynamic. For 200-250 ohm lines. Output: 68 db below 6 milliwatts for 10 bar signal. Complete with 25 ft. two-conductor shielded cable. Code: **Rudod.** **\$27.50**

NEW SHURE "500" DYNAMIC

Streamlined for Low-Cost Public Address!

Excellent frequency response assures faithful reproduction of voice and music. Moving-conductor type. Internal matching transformer. Sturdy die cast case finished in Iridescent Gray with highly polished plating on grille. Standard $\frac{3}{8}$ "-27 thread. Spring cable protector. Output: Low Impedance models, 71.8 db below 6 milliwatts for 10 bar signal; High impedance models, 63 db below 1 volt per bar. Low Impedance models permit practically unlimited cable length. High impedance models may be used with any amplifier with input of 100,000 ohms or more. Diameter $2\frac{3}{8}$ ". Shpg. wt. 2 $\frac{1}{2}$ lbs.

Model 500C-7Ft. High Impedance Dynamic. 7 ft. single-conductor shielded cable. Code: **Rudix.** **\$17.50**

List Price
Model 500C. High Impedance Dynamic. 25 ft. single-conductor shielded cable. Code: **Rudig.** **\$19.00**

List Price
Model 500A. Low Impedance Dynamic. For 35-50 ohm lines. 25 ft. two-conductor shielded cable. Code: **Rudir.** **\$19.00**

List Price
Model 500B. Low Impedance Dynamic. For 200-250 ohm lines. 25 ft. two-conductor shielded cable. Code: **Rudik.** **\$19.00**

List Price
Model A86A. High Quality Cable-Type Transformer to match 35-50 and 200-250 ohm microphones to high impedance amplifier input. Code: **Rudeb.** **\$10.00**



Shure "Ultra" 700D Crystal Highest Performance

Famous for its fidelity of reproduction and dependable performance. "Ultra" wide-range response from 30 to 10,000 cycles. Output level: 58 db below 1 volt per bar. Triple - moisture - sealed Grafoil Bimorph Crystal. Complete barometric compensation. Internal screen-protected cartridge. Small, compact swivel head. Satin Chrome finish. Built-in cable connector. Standard $\frac{3}{8}$ "-27 thread. Diameter $2\frac{3}{8}$ ". Shpg. wt. 2 $\frac{3}{4}$ lbs.

Model 700D. "Ultra" Crystal Microphone. Complete with 25 ft. single-conductor. Shielded cable. Code: **Rupaj.** **\$25**

List Price
Model A90A. Directional Baffle for Model 700D Crystal Microphone. Quickly attached or removed. Satin Chrome finish. Code: **Rubaf.** **\$2.50**



Shure "Rocket" 705A Crystal "Ultra" Performance!

An outstanding choice for general-purpose P.A.! Provides both modern beauty and faithful reproduction. Smooth "Ultra" wide-range response from 30 to 10,000 cycles. Output level 58 db below 1 volt per bar. Special moisture-sealed Grafoil Bimorph Crystal and other exclusive Shure "Ultra" features. Swivel head easily aimed at source of sound for best response. Semi-directional or non-directional operation. Built-in cable connector. Rich Satin Chrome finish. Standard $\frac{3}{8}$ "-27 thread. Diameter $2\frac{3}{8}$ ". Length 3 $\frac{7}{8}$ ". Shpg. wt. 2 $\frac{1}{2}$ lbs.

Model 705A. "Rocket" Crystal Microphone. Complete with 25 ft. shielded single-conductor cable. Code: **Rupeq.** **\$25**

List Price
Model A91A. Directional Baffle for Model 705A "Rocket" Crystal Microphone. Snaps into place. Easily detached. Satin Chrome finish. Code: **Rubab.** **\$2.50**



SHURE

CRYSTAL MICROPHONES

Remarkable Quality at Low Cost

NEW "STRATOLINER" CRYSTAL

Modern as Tomorrow—Low in Cost!

Improves appearance of sound set-ups—gives quality reproduction of voice and music for low-cost Public Address, paging, call systems and other general-purpose uses. Excellent, smooth frequency response. High output level 49.7 db below one volt per bar at end of 7 ft. cable. Genuine Bimorph Crystal. Rich Satin Chrome die cast case. Swivel head easily aimed at source of sound. Built-in cable connector. Standard $\frac{3}{8}$ "-27 thread. Diameter $2\frac{1}{2}$ ". Length 4 $\frac{1}{2}$ ". Complete with 7 foot single-conductor shielded cable. Shpg. wt. 2 $\frac{1}{4}$ lbs.

Model 708A. "Stratoliner" Crystal Microphone Code: Rudum. List Price **\$17.50**

Model 708A-25 Ft. Same, with 25 ft. cable. Code: Rudup. List Price **\$19.00**



70H "SUPER-LEVEL" CRYSTAL

Famous for Performance the World Over

For years, the "standby" among sound men for dependable high quality performance! Excellent wide-range response. Highest output level available today in crystal microphones: 47.5 db below 1 volt per bar (27.5 db below 1 volt for 10 bar signal). Requires less amplifier gain; provides a useful margin of extra sensitivity when needed. Moisture-sealed Grafoil Bimorph Crystal. Sturdy cast case; Satin Chrome finish. Built-in cable connector. Standard $\frac{3}{8}$ "-27 thread. 7 ft. shielded cable. Diameter 3 $\frac{1}{8}$ ". Depth 1 $\frac{3}{8}$ ". Shpg. wt. 2 lbs.

Model 70H. "Super-Level" Crystal Microphone. Code: Rupep. List Price **\$22.50**

Model 70H-25 Ft. Same, with 25 ft. cable. Code: Rupec. List Price **\$24.00**



New 707A Crystal

Nothing like it at this low cost! Attractive modern die cast case in Iridescent Gray finish with highly polished plating on front grille. Excellent smooth response. Output level 49.7 db below one volt per bar at end of 7 ft. cable. Bimorph Crystal, mechanically isolated. 7 ft. single-conductor shielded cable, with spring protector. Standard $\frac{3}{8}$ "-27 thread. Diam. 2 $\frac{3}{8}$ ". Shpg. wt. 1 $\frac{1}{4}$ lb.

Model 707A. Crystal Microphone. Code: Rudof. List Price **\$9.95**

Model 707A-25 Ft. Same, with 25 ft. cable. Shpg. wt. 2 $\frac{1}{4}$ lbs. Code: Rudog. List Price **\$11.50**



Shure 76B Lapel Microphone

Small, light, crystal microphone with high output level. Gives high quality reproduction of speaker's voice. Inconspicuous. Only 1 $\frac{1}{8}$ " diameter; weight only 1 $\frac{1}{2}$ oz. Iridescent Gray finish. Handy lapel clip. Complete with 25 ft. shielded single-conductor cable. Shpg. wt. 1 lb. Model 76B. Lapel Microphone. Code: Rulop.

List Price **\$25**



New Hand Microphone

A new lightweight hand microphone developed by Shure Engineers. Beautiful Temite resilient plastic case and handle. Rugged, handy to use. Output level 49.7 db below one volt per bar at end of 7 ft. cable. Genuine Bimorph Crystal, mechanically isolated. Excellent, smooth response. 7 ft. single-conductor, shielded cable. Diam. 2 $\frac{1}{2}$ ", height overall 6", depth 1 $\frac{1}{2}$ ". Shpg. wt. $\frac{3}{4}$ lb.

Model 717A. Crystal Hand Microphone. Code: Ruduk. List Price **\$9.95**



Special Microphone Cable

Available in standard trimmed 7 ft. and 25 ft. lengths. Other lengths in bulk untrimmed.

Model C10C. Cable. For Crystal and high-impedance dynamic microphones. Low capacity and high insulation resistance. Single-conductor type with close shield. Overall rubber jacket. Code: Rusob. List Price, per ft. **10c**

Model C24A. Cable. Specially designed for low-impedance dynamic microphones. Has two twisted rubber-insulated conductors, close shield and overall rubber jacket. Code: Rubel. List Price, per ft. **10c**

Model C14A. "Super-Shielded" Cable. Hum-free even in intense magnetic and static fields. Single-conductor with double shield. Recommended for Shure "Uniplex" microphone. Code: Rubem. List Price, per ft. **16c**

For Shure Microphone Locking-Plug attached to cable, add \$1.50 list.

Cordsets complete with Shure microphone plug and amplifier input plug, completely wired, are available to fit most amplifiers. State amplifier make and model number.

Shure Crystal Devices are Licensed under Patents of the Brush Development Company. Shure Patents Pending.

SHURE

COMMUNICATIONS MICROPHONES

Best for Amateur, Police and Commercial Use



CARDIOID CRYSTAL COMMUNICATIONS

Cleans Up Voice Transmission! Makes Break-in 'Phone Easy!

Famous "Uniplex" model with special Shure speech characteristic! Dead at rear. (Rear response down 12-15 db). Gives studio performance. Cuts down room-noise pick-up, eliminates echoes, assures clearer, more intelligible speech. Cleans up voice transmission. Makes break-in 'phone easy. Ideal for police, commercial and high quality amateur communications. Specially moisture-proofed Grafoil Bimorph Crystal. Output level: 33 db below 1 volt for 10 bar speech signal. Swivel head. Built-in R.F. filter protects against burnouts. Built-in cable connector. Rich Satin Chrome finish. Diameter 3 1/2". Depth 3 3/4". Standard 3/8"-27 thread. Shpg. wt. 1 1/2 lbs. Complete with 7 ft. super-shielded cable.

Model 730SH. Cardioid Crystal Microphone without desk mount. Code: **Rupod**. **\$32.50**
List Price

Model 730S. Same, complete with Model S36A Iridescent Gray Desk Mount, Shpg. wt. 3 lbs.
Code: **Rupof**. **\$35.50**
List Price

New Shure 708SH Crystal



The beautiful new "STRATOLINER" with special Shure speech characteristic for commercial and amateur 'phone. Assures clear, crisp signals. High output level: 29.7 db below 1 volt for 10 bar speech signal. Built-in R.F. filter protects against burnouts. Bimorph Crystal. Die cast case; Satin Chrome finish. Swivel head. Cable connector. Standard 3/8"-27 thread. 7 ft. shielded cable. Diam. 2 1/2". length 4 1/2". Shpg. wt. 2 1/2 lbs.

Model 708SH. Crystal Microphone without desk mount.
Code: **Rupob**. **\$17.50**
List Price

Model 708S. Same, complete with Model S36A Iridescent Gray Desk Mount. Shpg. wt. 4 lbs. Code: **Rupoc**. **\$20.50**
List Price

"Super-Level" 70STH Crystal



Here's the world-famous Shure "Super-Level" Communications Microphone. Has the highest output available in a crystal microphone. (26 db below 1 volt for 10 bar speech signal). Shure high-efficiency speech characteristic assures clear, crisp signals, cuts through noise and static. R. F. filter protects against burnouts. Satin Chrome die cast case. Built-in cable connector, with 7 foot shielded cable. Diam. 3 1/8". Depth 1 3/4". Shpg. wt. 2 lbs.

Model 70STH. Crystal Microphone without desk mount.
Code: **Rupic**. **\$22.50**
List Price

Model 70ST. Same, complete with Model S36A Iridescent Gray Desk Mount. Shpg. Wt. 3 1/2 lbs. Code: **Rupib**. **\$25.50**
List Price

Rings and Springs—Fit All Shure Stands

Model R20C. 6" standard ring for carbon microphones. "Quickway" mounting hooks. Satin Chrome. 8 rustproof springs. Shpg. wt. 1 lb. Code: **Ruket**. **\$2.50**
List Price

Model R10B. Light 5" ring for small carbon microphones. Satin Chrome finish. 8 rustproof springs. Shpg. wt. 3/4 lb. Code: **Rujes**. **\$2.25**
List Price



"Military-Type" Crystal Microphone



Fits comfortably in palm of hand. Light, compact. Takes minimum space in portable equipment. Die cast case in Iridescent Gray with satin finish grille. Excellent response. Output level: 32.5 db below 1 volt for 10 bar speech signal. Specially designed "ON-OFF" switch. Complete with removable suspension hook, 7 ft. shielded cable and spring cable protector. 3 3/4" high, 2 3/4" wide, 1 3/4" thick. Shpg. wt. 1 lb.

Model 750B. "Military-Type" Hand Microphone complete with switch. Code: **Rusel**. **\$22.50**
List Price

(Carbon Type "Military" Hand Microphones are available in quantity only, on special order).

Model 3B Two-Button Carbon



Full-size two-button microphone with quality performance for amateur transmitters, intercommunications systems and P.A. installations. Can be used as a single-button microphone. Rigid cast frames. Protective grille. Shure "Quickway" hooks. Satin Chrome finish. Frame diam. 3". Thickness 1 1/8". Shpg. wt. 3/4 lb.

Model 3B. Code: **Ruciv**. **\$5.50**
List Price

Model 5B Two-Button Carbon



High quality, full-size two-button microphone. Regular full-size precision adjustable buttons and special screen-protected diaphragm insure exceptionally fine reproduction. Rugged construction. Satin Chrome finish. Shure "Quickway" Hooks. Diam. over all 3 3/4". Thickness 1 1/8". Shpg. wt. 1 1/2 lbs.

Model 5B. Code: **Rucit**. **\$10**
List Price

Two-Button Hand Microphone

Convertible Hand Microphone. Convenient for general-purpose Public Address use! Easily changed from hand to 3B type for stand mounting by removing handle. Iridescent Gray handle. Overall length, 8 3/8". Shpg. wt. 1 1/2 lbs. Complete with 6 ft. three-conductor cable and 4 "Quickway" Hooks.

Model 10B. Two-Button Hand Microphone.
Code: **Rucor**. **\$10**
List Price



Microphone Repair Service

All microphones require occasional repairs. Carbon microphones need reconditioning at least once a year to maintain sensitivity and quality. "Microphone Headquarters" maintains a special department for repairing and reconditioning many types and makes of microphones. Write for quotations.

SHURE

STANDS and ACCESSORIES

Improve Microphone Operation and Performance

"Stabilized" Friction-Lock Floor Stands

Beautiful, sturdy Shure Floor Stands improve appearance and operation of any sound set-up. Height adjustments made easily, quietly, with super-positive Friction-Lock. 3-point "Stabilized" base cushioning gives 10-18 db reduction of shock and vibration. Molded soft rubber cable guide. $\frac{3}{8}$ "-27 thread.

Model S50B. Floor Stand. Satin Chrome finish. Round Base (9 $\frac{1}{2}$ " diam.; wt. 8 lbs.). Height adjustment 44 $\frac{3}{8}$ " to 70 $\frac{1}{2}$ ". Shpg. wt. 11 $\frac{1}{2}$ lbs.
Code: Rusaf.
List Price..... **\$10**

Model S51B. Floor Stand. Satin Chrome finish. Beautiful Tenite plastic ornament at base. Round base. (Diam. 10 $\frac{1}{2}$ ", wt. 10 lbs.). Height adjustment 44 $\frac{3}{8}$ " to 70 $\frac{1}{2}$ ". Shpg. wt. 13 $\frac{1}{2}$ lbs. Code: Rusif.
List Price..... **\$12.50**

Model S55A. "Studio-Type" Floor Stand. Heavy 3-leg base. (Wt. 10 $\frac{1}{4}$ lbs.). Leg spread 15 $\frac{1}{2}$ ". Height adjustment 48" to 70". Shpg. wt. 14 lbs. Iridescent Gray finish. Code: Rusat.
List Price..... **\$15.50**

3-Section Utility Stand

Model S54C. 3-section Floor Stand. Especially suitable for portable use. Shure Friction-Lock. Modern round base. (Diam. 9 $\frac{1}{2}$ ", wt. 8 lbs.). Iridescent gray finish. Ht. range 30" to 64". Shpg. wt. 11 $\frac{1}{2}$ lbs.

Code: Rusap.
List Price..... **\$10**

Cable-Type Transformer

Model A86A. High quality Cable-Type Transformer. Matches 45-50 and 200-520 ohm microphones to high impedance amplifier input. Compact, sturdy. Cascdiam. 1 $\frac{1}{2}$ ". length 2 $\frac{3}{8}$ ". 7 ft. cable. Shpg. wt. 1 $\frac{1}{2}$ lbs.
Code: Rudeb.
List Price..... **\$10**



Take-Apart Stand

Model S34A. New, handy low-cost stand for desk or hand use. One twist of handle locks it securely in base for use as a desk or table stand, or releases handle for use in hand. Metal base, wood handle. Metal top threaded $\frac{3}{8}$ "-27. Height over all 6 $\frac{1}{2}$ ". Base diam. 4 $\frac{1}{2}$ ". Length of handle 5 $\frac{3}{8}$ ". Shpg. wt. 1 lb.
Code: Rukab
List Price..... **\$1.85**



Model A41A. Microphone Handle. Solid wood with brass ferrule on top threaded $\frac{3}{8}$ "-27.
Code: Rujad. List Price..... **75c**

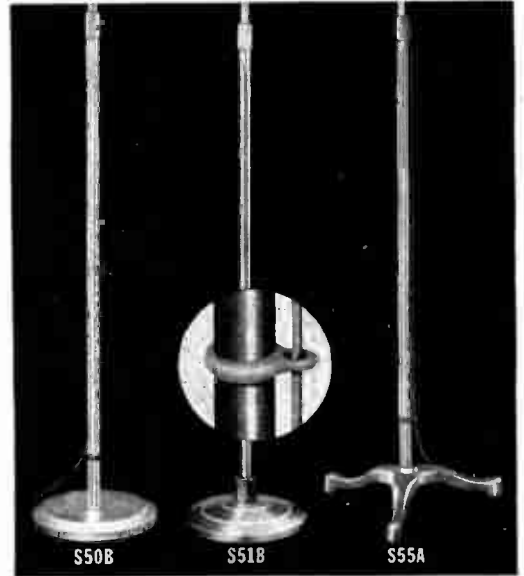
Modern Desk Stands

Model S36A. Beautiful, streamlined Desk Mount, with stable support at correct height. Fits Shure connector-type microphones, concealing plug in base. Adapter plate and tubing provided for other type microphones. Ornamental button at front may be removed for installation of $\frac{3}{8}$ " standard bushing switch or volume control. Iridescent Gray finish. Base: 2 $\frac{1}{2}$ " high, 5" wide, 7" long. Shpg. wt. 1 $\frac{1}{2}$ lbs.
Code: Ruuef.
List Price..... **\$3.50**

Model S32D. Highly attractive modern desk stand, finished in Iridescent Gray and Satin Chrome. Shure "Friction-Lock" provides easy, positive height adjustment from 7" to 11". $\frac{3}{8}$ "-27 thread. Base diam. 6". Shpg. wt. 3 $\frac{1}{2}$ lbs.
Code: Rused.
List Price..... **\$6.50**

Stand Adapter

Model A20A. Mounts microphones with $\frac{1}{2}$ " Pipe Thread on $\frac{3}{8}$ "-27 thread stand.
Code: Rudap.
List Price..... **\$1.00**



New "Broadcast" Stand

Model S510A. Designed for both beauty and utility. Heavyweight, stabilized 3-leg base hugs floor, provides firm footing. Quick, positive friction lock. Mounts all types of microphones. Standard $\frac{3}{8}$ "-27 thread. Inner tubing has $\frac{1}{2}$ " pipe thread outside and $\frac{3}{8}$ "-24 thread inside. Height adjustable from 45" to 79". Leg spread 16 $\frac{1}{2}$ ". Net wt. of tubing assembly 6 $\frac{1}{2}$ lbs. Net wt. of base 22 $\frac{1}{2}$ lbs. Shpg. wt. 32 lbs.
Code: Rusop.
List Price..... **\$42.50**



Microphone "On-Off" Switches

Rotary and push-button types. $\frac{3}{8}$ "-27 thread



Model A83A. Quickly attached to any cable-connector type Shure microphone. No wiring; internal plug establishes connections. Bakelite arrow knob.
Code: Runim.
List Price..... **\$4.00**

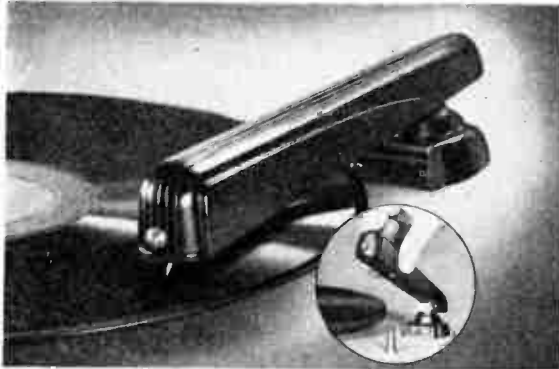
Model A80B. Threaded $\frac{3}{8}$ "-27 to fit non-connector type microphones. Bakelite arrow knob.
Code: Runib.
List Price..... **\$2.50**

Model A84A. Momentary "On-Off" Switch. Press-to-talk Bakelite disc.
Code: Runid. List Price..... **\$4.50**

Model A85A. Momentary Relay-Type Switch. Normally open switch closes circuit comprising one conductor and shield of outgoing cable for operation of relay or other device. Remaining conductor and shield of cable carry microphone output! Bakelite disc.
Code: Runif.
List Price..... **\$4.50**

SHURE

CRYSTAL PICKUPS and MAGNETIC RECORDING HEAD



Zephyr "Balanced-Tracking" Crystal Pickup

High quality reproduction of voice and music. Beautifully streamlined, bakelite molded, prize-winning design. Full frequency range reproduction. Plays 10" and 12" records. Exclusive Shure "Needle-Tilt" Balanced Tracking keeps needle true to groove. Needle pressure 2 3/4 ounces. "Full floating" non-resonant tone arm. Grafoil Bimorph crystal, triple moisture-sealed. Output voltage, approximately 2 1/2 volts. Dimensions: 11 1/2" long, 2 1/2" high. Base 2" wide. Playing radius 8 3/8". Shpg. wt. 1 1/4 lbs. (Shure Des. Pat. 118,747).

Model 99C. "ZEPHYR" Crystal Record Reproducer. Black Bakelite Molded. Complete with 3 1/2 ft. shielded cord, arm rest, mounting screws and motorboard drilling template. Code: **Ruzag.** **\$7.50**
List Price

Model 99CW. Same, but Walnut Bakelite Molded. Code: **Ruzaw.** List Price **\$7.50**

Model 98A. Black Bakelite Arm. Similar to 99C, but single hole mounting type. Code: **Ruzad.** **\$6.50**
List Price

Model 98AW. Same, but Walnut Bakelite Arm. Code: **Ruzud.** List Price **\$6.50**

Shure 94A "Economy" Crystal Pickup

Designed for compact record players! Mounts in minimum space. Plays 10" and 12" records. Has Shure "needle-tilt" Balanced-Tracking. Triple-moisture-sealed Grafoil Bimorph Crystal. Full range frequency response. Output, 2 1/2 volts. Low needle pressure. Floating rubber-cushioned pivot bearing assembly for single-hole mounting. Attractive cast arm. Smooth brown finish. Length 7 1/2". Complete with 20" shielded cord, arm rest and motorboard drilling template. Shpg. wt. 3/8 lb.

Model 94A. Crystal Pickup. Code: **Ruzec.** **\$4.95**
List Price



Crystal Pickup Replacement Cartridges



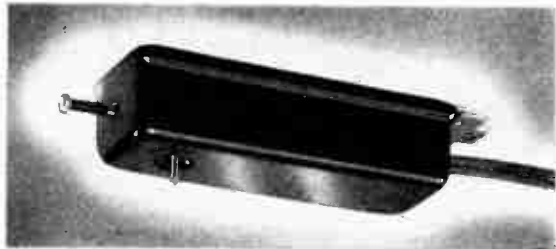
W20C

Model W20C. Metal type cartridge that fits Shure 90, 94 and 910 pickups. Has built-in "Needle-Tilt" Balanced-Tracking. Code: **Ruzim.** List Price **\$4.00**



W27C

Model W27C. Bakelite type cartridge for universal replacement. Three-in-one all-purpose unit. Has lug terminals, but is also supplied with screws and pins for quick, easy conversion to screw or "plug-in" pin terminal type as used in many record players and "coin machines." Straight needle tracking. Code: **Ruzor.** List Price **\$5.00**



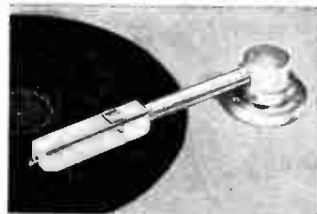
Shure 44A Magnetic Recording Head

Offers New, Distinct Advantages!

The Shure 44A Magnetic Recording Head is a high-quality wide-range record cutter with new advance features. Ideal for use with home recording equipment. Designed to operate directly from the voice-coil winding of the output transformer. Stiff moving element permits recording on practically all recording materials. Records can be played back on any record player. The 44A is exceptionally rugged and stable—will give long, satisfactory service under all climatic conditions. High Sensitivity. May be operated from the output stage of almost any radio set. Impedance: 4 ohms DC (10 ohms at 400 cycles), suitable for output circuits having impedance of 4 to 8 ohms. Other impedance values are available on special order. The 44A Magnetic Cutter fits directly into the General Industries recording mechanism. Also has two tapped holes for adaptation to other types of mountings. Steel, alloy-tipped, or sapphire recording styli may be used. 36" flexible leads. Length overall 3 3/8"; less screw 3 1/4". Shpg. wt. 8 oz.

Model 44A. 4 ohm Magnetic Recording Head. Without cutting stylus. Code: **Ruzad.** **\$11.50**
List Price

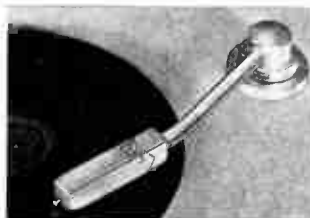
Transcription-Type Crystal Pickups



Meet the latest requirements for high quality reproduction of lateral records in broadcasting, recording and public address work. Smooth high frequency response. Full bass response adjustable with simple networks in the input circuit. Output approximately 2 1/2 volts. Grafoil Bimorph Crystal, triple-moisture-sealed. Easy needle-changing. Head locks in place when tilted back. Arm locks in place when swung

away from turntable. Needle-pressure 2 3/4 ounces. Statuary Bronze finish overall. Complete with 3 1/2 ft. shielded cord, mounting screws and motorboard drilling template.

Model 910B. For 10" and 12" records. Straight-arm design, with Shure "needle-tilt" Balanced Tracking. Overall length 10 3/4". Shpg. wt. 2 lbs. Code: **Ruzil.** **\$15.50**
List Price



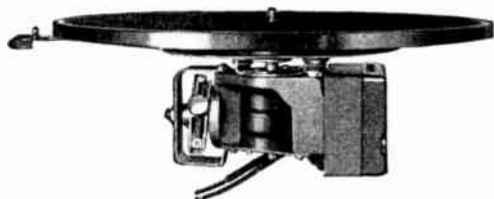
Model 914A. For 16", 12" and 10" records. Bent arm tracking correction. Overall length, 12 3/4". Shpg. wt. 2 lbs. Code: **Ruzig.** **\$16.50**
List Price

Shure Crystal Devices are licensed under patents of the Brush Development Company. Shure Patents Pending.

GENERAL INDUSTRIES

Phonograph Motors

Model "A" 78 R.P.M.—Model "B" 33 1/2 R.P.M.



GREEN FLYER

Governor Controlled Electric Motor

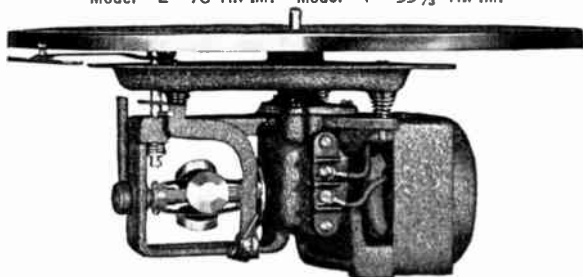
Furnished complete mounted on plate ready for installation. Open construction, allowing perfect ventilation. Absolute uniformity of speed under severe variation of voltage and record drag. Long over-size self-lubricating bearing. Silent Spiral-Cut Gears made from Laminated Bakelite. Will not overheat in closed cases and cabinets.

Finished in black enamel. Includes 10" Turntable, Dial and Pointer Speed Regulator. Automatic Stop is optional.

Size: Length—6 3/4", Width—3 3/4", Depth—3 1/4" from mounting plate to bottom.

	Net
Model A—78 R.P.M., 110 Volts A.C., 60 Cycles.....List Price \$13.20	\$7.92
Model B—33 1/2 R.P.M., 110 Volts A.C., 60 Cycles List Price \$14.20	8.52

Model "E" 78 R.P.M.—Model "F" 33 1/2 R.P.M.



BLUE FLYER MOTORS

Very powerful, single speed, governor controlled A.C., induction type motors with extra rugged construction for hard usage. Excellent speed regulation, will not overheat, gears running in a bath of oil in the sealed housing. Oversize lubricator provided for governor brake. Supplied for all A.C. voltages and cycles (Not available for D.C.).

Furnished with mounting plate; 10" or 12" turntable; dial and pointer speed regulator; metal and rubber turntable drive washers; mounting screws, nuts and washers. Length 7 3/8"; width 3 1/4"; depth, 4 3/8" from mounting plate to bottom.

	Net
Model E—78 R.P.M. with 10" turntable, 110 volts A.C. 60 cycles.....List Price \$16.00	\$ 9.60
Model F—Same as above except 33 1/2 R.P.M. List Price \$17.00	10.20

GREEN FLYER ELECTRIC MOTOR

Two-speed Governor Controlled

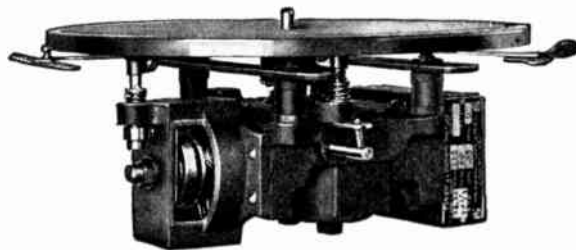
Specially designed for playing records recorded at 33 1/2 R.P.M. and 78 R.P.M. The shift from one speed to the other is accomplished by simply moving a lever. All gears are completely enclosed and run in oil. Silent spiral-cut gears made from Laminated Bakelite. Long over-size self-lubricating bearings.

Furnished complete with 10" Turntable, Dial and Pointer Speed Regulator, Speed Change Lever and Escutcheon Plate.

Size: Length—8 1/4", Width—5 1/2", Depth—3 3/8" from mounting strap to bottom.

	Net
Model D—110 Volts A.C., 60 Cycles.....List Price \$17.60	\$10.56
Model H—110 Volts A.C., 60 Cycles; same as Model "D" except Field 1/2" longer—recommended for 16" records.....List Price \$19.15	11.49

Model "D"—33 1/2 and 78 R.P.M.



ELECTRIC PHONOGRAPH MOTOR

With Fixed Governing Arrangement

An excellent Motor for portable and table model instruments. Very compact. Ample power for playing 10" and 12" records. Governor controlled. Cover enclosed gears. Absolute uniformity of speed. Silent Spiral Cut Gears made from Laminated Bakelite. Will not overheat in closed cases or cabinets. Includes 10" turntable and screw type speed regulator.

Size: Length—5 1/2", Width—3 5/8", Depth of Field—2 1/4".

	Net
Model V—78 R.P.M., 110 Volts A.C., 60 Cycles.....List Price \$11.50	\$6.90
Model O—33 1/2 R.P.M., 110 Volts A.C., 60 Cycles.....List Price \$12.50	7.50



SIX VOLT D.C. MOTORS

	Net
Model S—78 R.P.M., with 10" turntable, dial and pointer speed regulator.....List Price \$19.95	\$11.97
Model T—33 1/2 R.P.M., with 10" turntable, dial and pointer speed regulator.....List Price \$20.95	12.57
Model R—Two-Speed, 78 and 33 1/2 R.P.M., with 10" turntable, dial and pointer speed regulator, speed change lever and escutcheon plate.....List Price \$24.85	14.91

The 6 Volt D.C. motors will also operate on 9 1/2 Volts A.C.

AUTOMATIC STOP SWITCHES

No. 3988—For use with 8", 9", 10" and 12" turntables.....List Price \$1.50	\$0.90
No. 12670—For use with 8", 9" and 10" turntables. List Price \$1.00	.60
On All Motors	
Add for Weighted 12" Turntable.....List Price \$3.00	1.80
Add for Standard 12" Turntable.....List Price .50	.30

UNIVERSAL PHONOGRAPH MOTORS

	Net
Model G—78 R.P.M., Single-Speed Universal Motor. 110 Volts A.C. and D.C., 50-60 Cycles, with 10" turntable, dial and pointer speed regulator.....List Price \$19.95	\$11.97
Model J—33 1/2 R.P.M., Single-Speed Universal Motor. 110 Volts A.C. and D.C., 50-60 Cycles, with 10" turntable, dial and pointer speed regulator.....List Price \$20.95	12.57
Model N—Two-Speed, 78 and 33 1/2 R.P.M. Universal Motor, 110 Volts A.C. and D.C., 50-60 Cycles, with 10" turntable, dial and pointer speed regulator, speed change lever and escutcheon plate.....List Price \$22.80	13.68

Universal motors have the A.C.-D.C. Switch assembled.

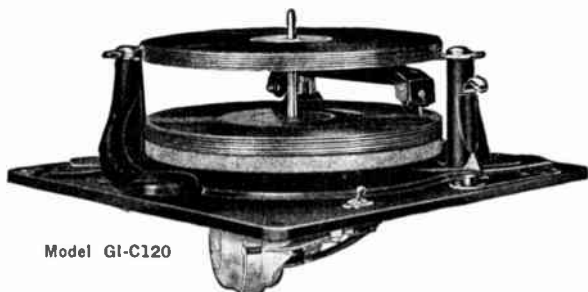
WHEN ORDERING MODELS A, B, E, F, D and H for
 110 Volts A.C., 25 cycles add..... each \$1.50 list
 110 Volts A.C., 42 cycles add..... each 1.50 list
 220 Volts A.C., 50 cycles add..... each .75 list
 (Models V and O not furnished for 25 and 42 cycles)

See Reverse Side for New Self-Starting, Constant Speed Motors and Heavy Duty Recording Motors

GENERAL INDUSTRIES

Record Changers & Recording Assemblies

A PRODUCT OF GENERAL INDUSTRIES CO.



Model GI-C120

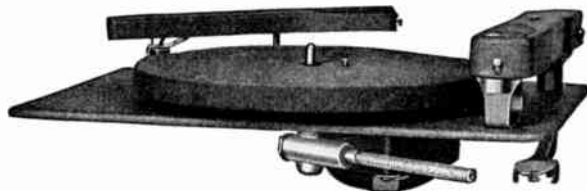
AUTOMATIC RECORD CHANGER

Plays twelve 10" or ten 12" records automatically. One lever to move when changing from one size record to another or to set for manual operation. With lever in extreme position all sizes of records can be removed from the turntable without interference. In manual position, tripping mechanism is inoperative. Non-jamming record handling fingers which do not extend past record lead-in space. Pressing reject button drops the first record onto the turntable and automatically positions the pickup on the record. Records may be rejected instantly. Handles records with either run-in or oscillating trip grooves. Means provided for guiding pickup needle into the playing grooves on records without lead-in grooves. Pickup arm supported at all times when not resting on record. Sturdy base plate with formed down edges. Changing mechanism is positive and quiet in operation.

Record changer assembly includes high quality true tangent tracking crystal pickup; cycling switch and on and off switch. Base plate 14" x 14" x 3/8", height above lower edge of base plate 5 1/8", depth below lower edge of base plate 3 1/2".

NOTE: Supplied for all commercial voltages and cycles.

Model	RPM	Current	List	Net
GI-C120	78	110V AC 60c	\$58.00	\$34.80



Model GI-R70

HOME RECORDING AND PHONOGRAPH ASSEMBLY

Cuts records up to 10" in diameter. Plays records up to 12" in diameter. Simple cutter feed mechanism requires merely lowering the cutter arm over the record disc to start the recording operation. Feed screw automatically engages when cutter is placed on record and disengages when cutting arm is raised or placed on rest. Drive for feed screw is through an enclosed worm and gear. Entire feed screw mechanism is mounted underneath the base plate. Convenient depth of cut adjustment on top of cutting arm. Retractable record driving pin in turntable permits the playing of standard records without adjustment.

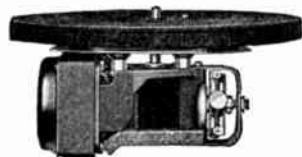
Equipped with a powerful induction motor of special design with internal rim drive to turntable. All elements of drive are positively aligned in one plane. Motor is rubber insulated from both base plate and turntable for quiet operation.

Assembly includes motor; 10" weighted turntable; cutting mechanism; high impedance crystal playback pickup; cutter arm rest; pickup rest; base plate with formed down edges—15" wide, 10" front to back.

NOTE: Supplied for 60 or 50 cycles.

Model	RPM	Current	List	Net
GI-R70	78	110V AC 60c	\$45.00	\$27.00

HEAVY DUTY RECORDING MOTORS



Direct drive, governor controlled induction motors with screw type speed regulator. Have retractable record drive pin in turntable permitting the playing of standard records without adjustment.

Furnished with mounting plate; 10" or 12" weighted turntable; mounting screws, nuts and washers. Depth from mounting plate to bottom: 3 3/8".

NOTE: Supplied for 60 or 50 cycles only.

Model	RPM	Current	List	Net
RG	78	110V AC 60c	\$25.50	\$15.30
RG-3	33 1/3	110V AC 60c	26.50	15.90

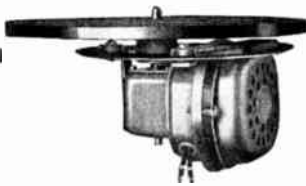
Above prices include 10" weighted T.T. For 12" weighted T.T. add \$2.00 each list.

"X" SERIES, SELF STARTING, CONSTANT SPEED ELECTRIC PHONOGRAPH MOTORS

LOW IN COST, LIGHT IN WEIGHT, COMPACT IN DESIGN



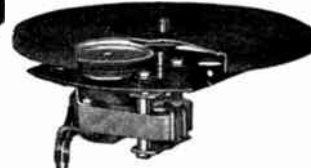
Model CX



Model KX



Model RX



Model LX

All "X" series motors are even in speed and have ample power to play 10" and 12" records. Fan cooled and designed to comply with Underwriters' Laboratories' requirements, these motors can be installed in small cases without overheating. Careful design and precise manufacturing insure quietness of operation.

MODEL "CX" AND "KX" GEAR DRIVE MOTORS

Fully enclosed with silent helical cut gears running in a bath of oil in the sealed housing. Patented metal and rubber turntable drive. Model "CX" has a combination rubber turntable drive sleeve and record centering tip which insures both mechanical and electrical insulation between turntable and motor.

Furnished complete with round mounting plate; 8", 9", 10" or 12" turntable; metal and rubber turntable drive; mounting screws, nuts and washers. Depth from mounting plate to bottom 3 3/8".

NOTE: Supplied for all AC voltages and cycles.

Model	RPM	Current	List	Net
KX	78	110V AC 60c	\$7.35	\$4.41
KX-3	33 1/3	110V AC 60c	8.35	5.01
CX	78	110V AC 60c	8.80	5.28
CX-3	33 1/3	110V AC 60c	9.80	5.88

The above prices include 8" turntable. For 9" T.T. add 15c list ea., 10" T.T. add 25c list ea., 12" T.T. add 75c list ea.

MODEL "RX" AND "LX" RIM DRIVE MOTORS

Rubber insulated from both mounting plate and turntable for quiet operation. Turntable shaft revolves with the turntable. Driving pulley, idler wheel and turntable aligned in one plane. Motor securely attached to mounting plate, simplifying shipping and installation. Oilless bronze bearings throughout. Model "RX" is a 4 pole slow speed motor. Model "LX" is a 2 pole high speed motor.

Furnished complete with mounting plate and turntable. (RX furnished with 8", 9" or 10" T.T., LX with 8" or 9" T.T.) Depth from mounting plate to bottom: RX—2 3/8"; LX—2".

NOTE: "RX" supplied for 60, 50 or 25 cycles; "LX" for 60 or 50 cycles.

Model	RPM	Current	List	Net
RX	78	110V AC 60c	\$6.10	\$3.66
LX	78	110V AC 60c	4.50	2.70

The above prices include 8" T.T. For 9" T.T. add 15c list ea.; 10" T.T. (RX only) add 25c list ea. Turntable holding clip is optional.....List, 10c ea.

Measuring



Instruments



223, 323-D.C.
233, 333-A.C.



221, 321, 521-D.C.
231, 331, 531-A.C.



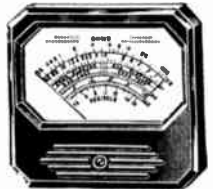
324, 328, 524-D.C.
334, 338, 534-A.C.



227-A, 327-A D.C.
237-A, 337-A A.C.



326, 421-D.C.
336, 421-A.C.



426 and 436

TRIPOLET D.C. INSTRUMENTS are the D'Arsonval type with extra light-weight moving coil, magnets of chrome, cobalt or alnico with uniform pole pieces and scales with maximum linearity. A.C. INSTRUMENTS are the double iron repulsion type, air damped, with extra light weight moving parts. Dynamometer type also available is a most efficient standard design.

All with two of the best sapphire jewel bearings, metal bar bridge, finest workmanship and processed in a most modern equipped factory. White enameled metal dials, molded zero adjusters. Easiest serviced instruments of any in case of accidental damage. Front and rear illumination also available. Write for information.

DIMENSIONS OF A. C. AND D. C. MODELS

Model No.	D. C.	A. C.	Code	A. C.	Body	Flange	Body Depth	Type Case	Scale Length	A. C.	Case
221	231		THROW	THRAM	2 1/4" diam.	2 3/8" diam.	1 3/8"	Flush	1 23/32"	1 35/64"	Molded
223	233		TOAST	TROCE	2 1/4" diam.	2 5/16" diam.	1 3/8"	Champ-out	1 23/32"	1 35/64"	Metal
227-A	237-A		TAZZZ	TZANNA	3 1/8" diam.	3 1/8" x 3 1/8"	1 1/2"	Flush	1 23/32"	1 35/64"	Molded—Inserts in Rear
321	331		TACIT	TACIT	2 1/4" diam.	3 3/16" diam.	1 3/8"	Clamp-out	2 3/8"	2 9/64"	Metal
321	331		TRIFE	TROUT	2 1/4" diam.	3 1/2" diam.	1 3/8"	Flush	2 3/8"	2 9/64"	Molded or Metal
324	334		TIGER	TROWL	2 1/4" diam.	3 1/16" diam.	1 3/8"	Projection	2 3/8"	2 9/64"	Metal Case—Molded Base
326	336		TRAZZ	TROUI	2 3/4" diam.	3 3/8" x 2 1/8" 16"	1 1/2"	Flush	2 3/8"	2 9/64"	Molded
326-A	336-A		TRJFM	TROME	2 3/4" diam.	2 21/32" x 2 27/64"	1 1/2"	Flush	2 3/8"	2 9/64"	Molded—Square Type (not shown)
327-A	337-A		TEPAT	TEPHK	2 1/4" diam.	3"x3"	1 3/8"	Flush	2 3/8"	2 9/64"	Molded—Inserts in Rear
328	338		TROQE	TRKTH	3" diam.	3 1/2" diam.	1 21/32"	Projection	2 3/8"	2 9/64"	Metal
421	431		TOOTH	TRINE	2 1/4" diam.	4 1/4" x 4"	1 15/16"	Flush	3 1/8"	2 7/8"	Molded
521	531		TREES	TRIMS	4 3/4" diam.	5 1/4" diam.	1 1/2"	Flush	3 1/8"	2 7/8"	Molded
524	534		TALOS	TUTOR	4 3/4" diam.	4 3/4" diam.	1 1/2"	Projection	3 3/8"	2 7/8"	Molded
529	539		TUJIM	TUMKA	2 23/32" diam.	4 3/4" x 4"	1 5/16"	Flush	3 1/8"	2 7/8"	Molded—Fan Type
726	736		TABAM	THACK	3 1/2" diam.	6 3/4" x 7 1/4"	1 5/16"	Semi-Flush	4 1/8"	5 3/4"	Molded—Inserts in Rear (not shown)
TWIN, TWIN. (See page F-6)					4 3/8" x 2 3/8"	5 1/2" x 3 3/8"	1 1/2"	Flush			Molded
3" portable same style as output meter illustrated page F-6.											

D. C. VOLTMETERS—125 OHMS PER VOLT

Range	Code	Med. 221-223-227-A	Med. 321-324-327-A	Med. 326-326-A	Med. 421-426-529	Med. 521-524	Mod. 726
0-5	TRCXC	\$4.50	\$5.75		\$7.50	\$8.25	\$15.25
0-10	TRDWD	4.50	5.75	\$5.75	7.50	8.25	15.25
0-15	TRCVC	4.50	5.75				
0-25	TRCVC	4.50	5.75				
0-50	TRCVC	4.50	5.75		7.50	8.25	15.25
0-100	TRHSH	4.50	5.75		7.50	8.25	15.25
0-150	TRIRI	4.50	5.75	5.75	7.50	8.25	15.25
0-300	TRLOL	6.50	8.25	8.25	9.75	12.00	19.00
0-500	TRMSM	7.75	9.25		11.00		
0-2,000	TRPKP	26.50*	24.00*		29.75*		

D. C. VOLTMETERS—1000 OHMS PER VOLT

Range	Code	Med. 221-223-227-A	Med. 321-324-327-A	Med. 326-326-A	Med. 421-426-529	Med. 521-524	Mod. 726
0-10	TAIGA	\$6.50	\$8.25	\$8.25	\$9.75	\$11.75	\$18.75
0-150	TAINE	7.75	8.75	10.00	10.00	12.75	19.75
0-300	TRULL	8.75	10.00	10.00	11.50	14.25	21.25
0-500	TRALL	10.00	11.00		12.75		
0-1,000	TURIN	23.50*	25.25*		27.75*		

* Price includes recommended external resistance boxes.

D. C. MILLIAMMETERS

Range	Approx. Res.	Code	Med. 221-223-227-A	Med. 321-324-327-A	Med. 326-326-A	Med. 421-426-529	Med. 521-524	Mod. 726
0-1	.33	TRAAW	\$5.75	\$7.00	\$7.00	\$9.00	\$10.00	\$17.00
0-15	2	TRFFS	4.50	5.75		7.50	8.25	15.25
0-25	1	TRGFT	4.50	5.75	5.75	7.50	8.25	15.25
0-50	4	TRHSH	4.50	5.75	5.75	7.50	8.25	15.25
0-100	3	TRJJW	4.50	5.75	5.75	7.50	8.25	15.25
0-150	23	TRKKN	4.50	5.75	5.75	7.50	8.25	15.25
0-200	15	TRLIY	4.50	5.75	5.75	7.50	8.25	15.25
0-250	12	TRMIZ	4.50	5.75	5.75	7.50	8.25	15.25
0-300	1	TRNSA	4.50	5.75	5.75	7.50	8.25	15.25
0-500	.06	TROOB	4.50	5.75	5.75	7.50	8.25	

D. C. MICROAMMETERS

Range	Approx. Res.	Code	Med. 221-223-227-A	Med. 321-324-327-A	Med. 326-326-A	Med. 421-426-529	Med. 521-524	Mod. 726
0-50	2150	TALBE		\$15.00	\$15.00	\$16.75	\$17.50	\$22.50
0-100	900	TRABA		13.00	13.00	14.75	15.50	\$21.50
0-200	300	TARBY		12.00	12.00	14.00	17.25	\$21.50
0-500	156	TWIRL	\$7.75	9.25	9.25	10.75	11.75	18.75

D. C. AMMETERS

Range	Approx. Res.	Code	Med. 221-223-227-A	Med. 321-324-327-A	Med. 326-326-A	Med. 421-426-529	Med. 521-524	Mod. 726
0-1	.05	TALUS	\$4.50	\$5.75		\$7.50	\$8.25	\$15.25
0-10	.005	TROCK	4.50	5.75	5.75	7.50	8.25	15.25
0-25	.002	TANGS	4.50	5.75	5.75	7.50	8.25	15.25
30-0-30	.0016	TAPIR	4.50	5.75				

A. C. VOLTMETERS

Range	Approx. Ohms per V.	Code	Med. 231-233-237-A	Med. 331-334-337-A	Med. 336-336-A	Med. 431-436-539	Med. 531-534	Mod. 736
0-5	10	TERSE	\$4.50	\$5.75	\$5.75	\$7.50	\$8.25	\$15.25
0-10	16	TRUMP	4.50	5.75	5.75	7.50	8.25	15.25
0-15	16	TURCO	4.50	5.75	5.75	7.50	8.25	15.25
0-150	110	TOYTE	5.75	7.00	7.00	8.00	10.00	17.00
0-300	166	TWEAK	7.25	8.25	8.25	9.75	15.75	22.75

A. C. AMMETERS

Range	Approx. Res.	Code	Med. 231-233-237-A	Med. 331-334-337-A	Med. 336-336-A	Med. 431-436-539	Med. 531-534	Mod. 736
0-3	.02	TULIP	\$4.50	\$5.75		\$7.50	\$8.25	\$15.25
0-5	.01	TEUCH	4.50	5.75	5.75	7.50	8.25	15.25
0-10	.005	TELEE	4.50	5.75	5.75	7.50	8.25	15.25
0-25	.001	TELEO	5.75	7.00	7.00	9.00	10.00	17.00

A. C. MILLIAMMETERS

Range	Approx. Res.	Code	Med. 231-233-237-A	Med. 331-334-337-A	Med. 336-336-A	Med. 431-436-539	Med. 531-534	Mod. 736
0-10	1950	TEETH	\$5.50	\$6.75		\$10.00	\$11.00	\$
0-15	1125	TOESH	4.50	5.75				
0-50	85	TEAPT	4.50	5.75		7.50	8.25	15.25
0-100	23	THARM	4.50	5.75	5.75	7.50	8.25	15.25
0-250	4	THEEK	4.50	5.75	5.75	7.50	8.25	15.25
0-500	.8	TIFES	4.50	5.75	5.75	7.50	8.25	15.25

25,000 OHMS PER VOLT KITS



Foundation instruments with 25,000 ohms per volt sensitivity D.C. reading: in four styles. Have dials for reading: D.C.—0-10-50-250-1000 volts at 25,000 ohms per volt; 0-50-250 microamperes; 1-10-50-250 milliamperes; 1/2 to 500 ohms, back-up circuit; 20,000, 200,000 ohms and 2 megohms. A.C.—0-10-50-250-1000 volts at 1000 ohms per volt.

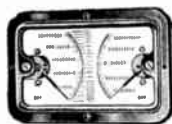
Model 726

INSTRUMENTS ONLY

- Model 321—Code—TEJFM. 3" Round. White dial. Shipping weight 3 lbs. List Price \$15.00
- Model 428—Code—TIGKA. 4" Square. White dial. Shipping weight 4 lbs. List Price \$16.75
- Model 521—Code—TITMA. 5" Round. White dial. Shipping weight 5 lbs. List Price \$17.50
- Model 726—Code—TOWKA. 7" Square. Black dial. Scale markings in color. Unique edgewise illumination feature is regular in 7" only. Shpg. wt. 6 lbs. List Price \$27.50

KITS (Less Instruments)

- A.C.-D.C. Control Box. All necessary parts for above readings. Completely assembled in metal box. Code—TRIEY. List Price \$23.50
- A.C.-D.C. Kit with Box—Inassembled. Code—TRUPE. List Price \$16.75
- A.C.-D.C. Kit less Box—Assembled for mounting to panel. Code—TOOFA. List Price \$21.75



TWIN INSTRUMENTS

THE TWIN is furnished in any combination of A.C. or D.C. instruments. Both are included in the special rectangular molded case that requires a minimum of space. Permits simultaneous readings on both instruments when connected in the same or separate circuits. Instrument scales are side by side making possible two distinct readings at a glance. Used to balance loads in three-wire circuits; detect line fluctuations when load readings are taken; measure antenna and modulation current; determine filament and plate voltages and similar applications.

To determine List Price of Twin Instruments take the sum total list price of both instruments as supplied in Models 321 or 331.

MODEL 1200-A KIT

Enables the engineer to build his own Volt-Ohm-Milliammeter. Has No. 120 Triplet Twin instrument with scale reading: D.C. 10-50-250-500-1000 volts at 2000 ohms per volt; 1-10-50-250 milliamperes; 1/2 to 500 low ohms by back up circuit; 1500 ohms; 1.5 and 3 megohms. A.C. 10-50-250-500-1000 volts. Also included in the kit are mounted resistors and shunts for the above readings; No. 121 Special Triplet Selector Switch; No. 124 .5 MFD Condenser for output measurements; No. 125 Rheostat Assembly; Complete set of diagrams and instructions; Hook-up wire; Complete set of hardware; Marked panel plate; Test leads.

- Model 1200-A Kit—Complete. Code—TRIPN. List Price \$27.50
- No. 120 Twin Instrument only—(for above kit) List Price \$15.50

WATTMETERS—DYNAMOMETER TYPE

Outstanding new developments assure extreme ruggedness and accuracy within 2 per cent. The instruments can be used on single phase A.C. or D.C. as wattmeters. On special order they can be made up as voltmeters or ammeters. Instruments are self-contained to 300 Volts—10 Amperes. Over that external connection can be made. For use on frequencies up to 133 cycles per second. Dynamometers are available in cases to match current Triplet three-inch models: Models 361 (331) and 367-A (377-A). Case dimensions are the same except for depth, the dynamometer case being 2" back of the flange. (2-15/16" over the studs.) Wattmeters can be combined in the Triplet twin case with a voltmeter or ammeter. Available later in larger models. Standard ranges as follows:



Code	Range	Volt	Amp.	Se. List	Code	Range	Volt	Amp.	Se. List
TABEW	75	150	1/2	75	THOAC	150	300	1/4	75
TAMMA	150	150	1	75	THRON	300	300	1	60
TAWAB	300	150	2	60	TILABA	600	300	2	60
TPEEG	750	150	5	75	TIMAB	1500	300	5	75
THEAN	1500	150	10	75	TOHED	3000	300	10	60

Code	Range	Volt	Amp.	Se. List
TAABO	75-150	150-300	1.5	60
TACAB	150-300	150-300	1.5	60
TAFBO	300-600	150-300	3	60
TAHBO	750-1500	150-300	7.5	75
TALDO	1500-3000	150-300	15	60

VOLT-OHM-MILLIAMMETERS

- Model 321—(Scale reads 30-300-600 volts; 30-300 milliamperes; 100,000 ohms.) Code—TRIEK. Shipping weight 3 lbs. List Price \$7.50
 - Model 321—(Scale reads 10-50-250-500-1000 volts; 1-10-50-250 milliamperes; low ohms. 2 to 500; high ohms 100 to 100,000.) Code—TAROR. Shipping weight 3 lbs. List Price \$7.50
 - Model 328—(Scale reads 10-50-250-500-1000 volts; 1-10-50-250 milliamperes; low ohms. 2 to 500; high ohms 100 to 100,000.) Code—TRENN. Shipping weight 3 lbs. List Price \$7.50
 - Model 421—(Scale reads 10-50-250-500-1000 volts; 1-10-50-250 milliamperes; low ohms. 2 to 500; high ohms 100 to 100,000.) Code—THEBE. Shipping weight 4 lbs. List Price \$9.50
 - Model 521—(Scale reads 10-50-250-500-1000 volts; 1-10-50-250 milliamperes; low ohms. 2 to 500; high ohms 100 to 100,000.) Code—TRILL. Shipping weight 5 lbs. List Price \$10.50
- (Wiring diagrams furnished with each instrument)

SHUNTS AND RESISTORS FOR ABOVE INSTRUMENTS

- Resistors mounted on bakelite for 30-300-600 volts. Code—TBWIK. List Price \$7.25
- Shunts mounted on bakelite for 30-300 milliamperes. Code—TRUUY. List Price \$2.00
- Current Limiting Resistor for 100,000 ohms. Code—TRIGU. List Price \$1.00
- Resistors mounted on bakelite for 10-50-250-500-1000 volts. Code—TAMVA. List Price \$11.00
- Shunts for 1-10-50-250 milliamperes; current limiting resistors for low and high ohms (2 to 500; 100 to 100,000); and shunt for low ohms; all mounted on bakelite. Code—TATER. List Price \$3.50
- Zero adjusting rheostat for ohms ranges. Code—TAUJM. List Price \$1.00
- Multi-Deck Selector Switch. (2 decks.) With knob. Code—TEYON. List Price \$2.50

THERMO AMMETERS † High Frequency. Accuracy 2%

Triplet Thermo Ammeters are supplied in Models 241, 341, 346, 441 and 541. These models correspond in size, etc., to corresponding D.C. models. All have molded cases. Have external couples which withstand 50% overload connected to meter with 2 ft. leads. Couples are easily replaced when necessary. Internal couples to order.

Range	Approx. Res.	Code	Model 241 List	Code	Model 341 List	Code	Model 346 List	Code	Model 441 List	Code	Model 541 List
0-1 Amps.	.35	TOR'S	\$8.75	TONGA	\$10.00	TRUST	\$10.00	TUBER	\$11.75	TACHE	\$12.50
0-1.5 Amps.	.21	TITHE	8.75	TEZZA	10.00	THRED	10.00	TONIC	11.75	TOTAL	12.50
0-2.5 Amps.	.13	TODDY	6.75	TESTA	10.00	TWILL	10.00	TONTS	11.75	THANK	12.50
0-5 Amps.	.06	TOLYL	6.75	TOTCH	10.00	TWIST	10.00	THEOR	11.75	TOTCH	12.50

Three-Inch Models (341-346-347-A) with internal couples in any standard range. List Price, each \$6.75



OUTPUT METER

The Triplet Output Meter has 3 ranges—2-5-5-50 volts. Copper-oxide rectifier type. Contains condenser for blocking the D.C. component. Four marked binding posts or pin jacks and meter are mounted on substantial molded base. Test leads with clips and break-in adapter furnished. Shipping weight 3 1/2 lbs. With Tip Jacks—Code—TRALL. List Price \$16.75

With Binding Posts—Code—THREK. List Price \$16.75

Output Meter—In Master Case Code—TWYNN. List Price \$19.25



POWER LEVEL INDICATORS

Used to measure sound or noise levels in amplifiers for Public Address, Theatres, Broadcasting Studios, Broadcasting Station Equipment, etc. The Decibel Meter permits the operator to make instant adjustments to prevent sound blasting or distortion. Furnished in two ways—either standard or highly damped. Standard range furnished reads up 6 and down 10 decibels. Zero decibel at 1.73 volts, 500 ohm lines, 6 milliwatts. Standard damping furnished, unless highly damped is specified. Other ranges to order only.



- Model 421—Up 6 down 10 Decibel Meter. Code—TROUP. List Price \$19.75
- Model 321—Up 6 down 10 Decibel Meter. Code—TAINT. List Price 11.75

SENSITIVE RELAYS

Highly sensitive Triplet relays are of the D'Arsonval Moving Coil type, carefully designed to give dependable, satisfactory performance. Fixed contacts of instruments are set in adjustable screws, allowing a wide adjustment of upper and lower limits of contact. Contacts furnished are Handy metal; also platinum, silver, and platinum-iridium are supplied according to applied current and voltages. These relays are generally used in connection with polarized relays when current draw exceeds 50 M.A. Magnetic clutch type with manual release can also be had.

Since relays cover such a wide field and most of them are made to special order, no standard models are listed. Each application should be accompanied with information specifying maximum and minimum currents and voltages which will pass through relay coil and contact points.

DECIBEL METERS AND KITS

Kits are now available to increase range of Power Level Indicators. Readings advance in steps of 4 decibels up to 22 decibels. Easily assembled Triplet Decibel Meter Kits are supplied for non-constant impedance, 500 ohm input line.

Model 150 Decibel Meter Kit—(Non-constant Impedance) includes: Triplet Model 321 Decibel Meter, Selector Switch, 9 Wire-wound Multipliers on Bakelite Mounting Board, Hook-up Wire, Diagrams and Instructions. Code—TILTH. List Price \$23.75

We also distribute a complete line of TRIPLET Multipliers, Shunts, Ring Shunt Assemblies, Multi-Deck Selector Switches and Bar Knobs.



TEST EQUIPMENT

THE RIDER CHANALYST

FIRST test instrument ever offered to servicemen that checks radio receivers by dynamic and functional methods. Works with the signal without interfering with the performance of the receiver. Eliminates guesswork because it can pick up the signal at any point between antenna and loudspeaker. Will lead you directly to any source of trouble and correctly establish its character. Four channels metered at option of operator. FIVE SIMULTANEOUS CHANNELS AND FIVE ELECTRONIC EYES FOR MONITORING THOSE DIFFICULT FADERS.

SPECIFICATIONS

- **R-F and I-F CHANNEL:** Frequency Range 95 kc. to 1700 kc.
Calibration Accuracy ± 2%
Sensitivity (to close electronic eye) 50 microvolts (approx.)
- **OSCILLATOR CHANNEL:** Frequency Range 600 kc. to 15,000 kc.
Calibration Accuracy ± 2%
- **AUDIO-FREQUENCY CHANNEL:**
Frequency Range 150 cycles to 150,000 cycles
Sensitivity (to close electronic eye) 0.15 volt (approx.)
- **ELECTRONIC VOLTMETER CHANNEL:**
Voltage Range -5 to +5, -25 to +25, -100 to +100, -500 to +500
Input Impedance 11,000,000 Ohms
- **WATTAGE INDICATOR CHANNEL:** Output Indicator Magic Eye Tube
Input Range 25 watts to 250 watts
- **POWER SUPPLY:**
105 volts to 125 volts, 50/60 cycles; power consumption 60 watts
- **TUBE COMPLEMENT** 3 RCA-6K7's, 1 RCA-6H6, 4 RCA-6E5's,
1 RCA-1852, 1 RCA-76, 1 RCA-6X5G, 1 RCA-6Q7
- **SIZE** 10 3/4" x 16" x 9"



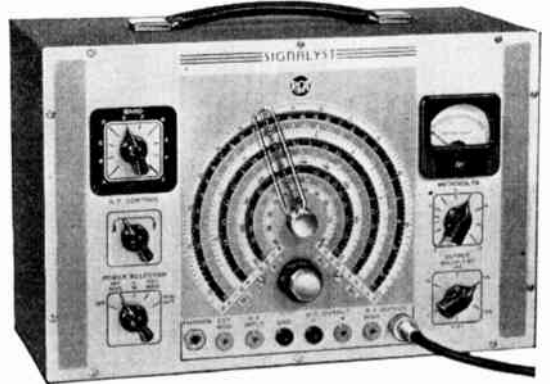
- **SHIPPING WEIGHT** 28 lbs.
- No. 162 105-125 volts, 50/60 cycles, 60 watts **Net Price \$107.50**
- No. 162-A 105-125 volts, 25/40 cycles, 60 watts **112.50**
- No. 9897 Rack Panel Mounting and Accessories for No. 162 and No. 162-A **15.00**

RCA SIGNALYST

A modern signal generator that provides accurate FUNDAMENTAL frequencies from 100 Kc to 120 Mc in 10 bands. Precision laboratory design—not just another test oscillator. Tops for all radio receiver alignment jobs. Circuit consists of an oscillator stage, a buffer-modulator stage, and an output metering circuit. Handles alignment of any broadcast or special-purpose receiver. Eliminates all need for relying on unstable harmonics. Use of meter in conjunction with ladder-type attenuator, provides direct reading of output in microvolts. Designed to meet present service requirements as well as the future demands of Television, Facsimile, etc.

SPECIFICATIONS

- Total dial calibration accuracy better than 1%. Circuits aligned at each end of each band to within 0.05% accuracy.
- 3-color dial easy to read. Scale approx. 90° long.
- Coaxial cable output; minimizes stray leakage.
- Internal 400-cycle modulation; 400-cycle output.
- Provides broad-band modulation up to 5 Mc.
- Regulated plate- and screen-voltage supplies.
- Uses four tubes: RCA-6J5 as oscillator, RCA-6SA7 as buffer modulator, RCA-6F7 as a combination modulator and heterodyne detector, and RCA-6H6 as rectifier.



- Power supply 105-125 volts, 50/60 cycles; power consumption 35 watts.
- Highly attractive in appearance. Beautiful brush chrome metal case with convenient leather carrying handle. Panel in brush and bright chrome.
- Size 9 3/4" H. x 8" D. x 14" L.
- Carrying weight 21 lbs.
- No. 161—Net Price **\$107.50**

THE RIDER VOLTOHMYST

A radically new combination electronic type d-c voltmeter-ohmmeter. Designed for testing radio receivers, Television equipment, laboratory circuits, facsimile, etc. Measures d-c voltages from 0.05 to 5000 volts in nine ranges. Measures resistances from 0.1 ohm to 1000 megohms in seven decade ranges. One meter reads all voltage and resistance values. Meter has but one zero-adjustment. Voltage readings accurate to 2% of full meter scale; resistance readings to 3% of center of scale.

SPECIFICATIONS

- **Voltage Ranges** 0 to 5, 10, 25, 100, 250, 500, 1000, 2500 and 5000 volts. Input resistance is 16 megohms on ranges up to 500 volts; 160 megohms on ranges up to 5000 volts.
- **Resistance Ranges** Seven decade ranges from 0.1 ohm to 1000 megohms. 10 ohms is center of scale on lowest range; 10 megohms on highest range. Logarithmic spread over 80% of scale.
- **Meter** Rugged, high torque movement; heavy alnico magnet providing high flux density; silver-etched dial; 4" scale.
- **Cabinet** Welded steel case, slope front, crystalline gray finish. Overall dimensions: 7 1/2" W. x 8 1/4" D. x 11" H.
- **Weight** 14 lbs.
- **Tube Complement** 2 RCA-6K6-G's and 1 RCA-6X5-G.
- **Power Supply** 105-130 volts, 25/60 cycles; power consumption 12 watts.
- No. 163—Net Price **\$57.50**





HOME ANTENNAS

RCA Victor MASTER ANTENNA

The latest in noise-reducing antenna design. Gives the owner the ultimate in interference-free reception. Particularly useful where local noise cannot be eliminated by ordinary noise-reducing antennas. Minimizes "man-made" noise as well as static.

- Frequency Range, 540 to 23000 kc.
- Unique noise-balancing circuit can be individually adjusted for each installation.
- Noise-reducing qualities of antenna independent of antenna location.
- Particularly effective where noise is caused by local electrical device.



No. 9852 Complete, less Receiver-coupling Transformer **\$3.00**
 No. 9846 Receiver-coupling Transformer **1.17**



SPIDER WEB ANTENNA

A Transoceanic Communications Type Antenna for the home. RCA's finest antenna. Recommended especially for use in amateur and short-wave reception. The Spider Web consists of a series of doublet antennas and an improved transmission line.

- Excellent signal pick-up from 140 to 23000 kc.
- Utmost in noise reduction.
- 70000-kc range may be obtained through the use of the RCA No. 96B9 High-Frequency Kit.
- Requires only a 38-foot span and vertical clearance of 12 feet.
- Factory assembled and soldered to insure simple and rapid installation.

Net Price

No. 96B5 Spider-Web Antenna . . . **\$5.37**
 No. 96B9 High-Frequency Kit (Increases Range to 70000 kc) **.90**



395 ANTENNA SYSTEM

Here is a scientifically designed doublet antenna system at a price anyone can afford to pay. It assures excellent signal pick-up at a minimum cost. The only additional requirement—two supports 40 feet apart.

- Operates perfectly with receivers of any type or manufacture having antenna-ground terminals.
- Parts assembled and soldered for convenience.
- Minimizes "man-made" interference.
- Very simple to install.

CONTENTS OF KIT

2 Antenna Wire Coils—each 20 feet long, 1 Junction Box, 2 Strain Insulators, 1 Transmission Line—60 feet, 2 Coupling Unit Links, 1 Set-Coupling Unit, 2 Nail-on-Knob Insulators, 1 Ground Clamp, 1 Instruction Sheet.

Net Price

No. 395 **\$2.37**
 No. 12855 Set-Coupling Unit for 395 and RK-40 Antennas . . . **.45**



IMPROVED MAGIC WAVE ANTENNA

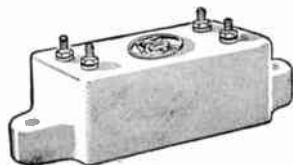
A new, highly efficient noise-reducing antenna for every type of radio installation

This antenna has "everything" a radio requires. Noise reduction, installation flexibility and high signal pick-up. It is the one antenna that has all the following features:

- Noise reduction on all broadcasting bands (530-23000 kc).
- Built-in lightning arrester in antenna coupling unit.
- Operates up to 16 outlets from 1 antenna with additional coupling and distribution transformers. (Only slight reduction in signal.)
- Easily installed.
- Antenna may be from 20 to 120 feet long.
- Transmission line may be up to 500 feet in length.
- 30 foot pipe may be used for vertical antenna with underground transmission line.
- Uses magnetite-core transformers.
- Can be easily attached to existing antennas.

Net Price

Stock No. 9812 Complete for single installation **\$3.57**
 Stock No. 9813 Set-Coupling Transformer (1 required for each additional receiver) **1.50**
 Stock No. 9814 Distribution Transformer (1 required for each 4 additional receivers) **1.80**
 Stock No. 9849 Antenna-Coupling Transformer with Built-in Lightning Arrester (for assembling your own kit) **1.20**



This unit, when used with No. 9813 Set-Coupling Transformer, a vertical or horizontal antenna and a transmission line, gives all the features of the RCA Magic Wave Antenna. Provides optimum signal transfer from antenna to transmission line. Minimizes background noise.

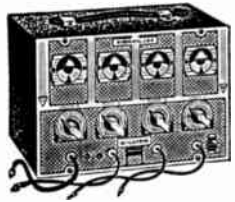
(With Built-in Lightning Arrester)

- Up to 16 receivers may be operated from one antenna by use of additional coupling and distribution transformers.
- Antenna may be from 20 to 120 feet long.
- Transmission line may be up to 500 feet long.
- Iron pipe, 20 to 30 feet in length, may be used as a vertical antenna.
- Easily installed. Connects to end of single-wire antenna. May be adapted to present installation.

No. 9849 **Net Price \$1.20**

MAGIC WAVE ANTENNA TRANSFORMER

NEW MILLION TEST EQUIPMENT



NEW MODEL SY SIGNAL TRACER

This instrument enables you quickly to trace the signal in any receiver from antenna to voice coil. Absence of the signal is immediately detected by the electronic "eyes." A coaxial cable probe permits checks at high frequencies without disturbing circuit under test. The Signalizer is particularly useful in locating trouble in intermittent or "dead" receivers. Two phone jacks permit listening to the signal to detect hum or distortion. Oscillator performance is readily determined. Input impedance of the instrument is 6 megohms.

ily determined. Input impedance of the instrument is 6 megohms.

CHECKS RF-IF-AF-DC VOLTAGES

There are 4 channels available for simultaneous monitoring of the RF, IF, AF, and DC power supply circuits. Each channel has an amplifier stage for adequate sensitivity. Deflection of the "eyes" can be controlled. Three of the channels are for A.F. input while the fourth is for A.C. or D.C. Cables are 30" long and have alligator clips. The beautifully finished bronze panel has black and white markings. Case is pearl gray and measures 7"x10"x6". With 11 tubes, cables and full instructions. For 115 V. 60 cycles. Shpg. wt. 12 lbs.

\$37 50

MODEL SY—Dealer's Net Cash Price.....

MODEL DF TUBE AND CONDENSER TESTER

The Model DF tests all tubes including the latest Loctal, "S," Bantam Jr., and "hearing-aid" peanut types. The filament switch covers from 1.4 to 110 volts with spare positions for future tubes. The exact condition of the tube under test is clearly indicated on the English-reading "Good-Bad" scale of the accurate D'Arsonval meter. A neon bulb checks shorts and leakages up to 2 megohms. Tests emission and shorts.



CHECKS CONDENSER LEAKAGE

Complete instructions supplied for testing bypass and electrolytic condensers for shorts and leakage. Also provides for continuity checks. All test circuits are effectively insulated from the power line, and each tester is fused. A separate switch is used for the line voltage adjustments. The Model DF is built to precision standards and features a ruggedness in design and assembly that insures accuracy under hard usage. The attractive case with removable cover measures 9"x9"x5". Has carrying handle and an 8 foot cord and plug. For 105-125 V. 60 cycles. Shpg. wt., 12 lbs.

\$16 95

MODEL DF—Dealer's Net Cash Price.....

VACUUM TUBE VOLTMETER



Measures values of DC, RF, or AF potential without disturbing the circuit under test. Input impedance never less than 12 million ohms. Nine push-buttons select these 18 ranges: 0-3-15-30-150-300-600-900-1,500 and 3,000 volts A.C. and D.C. Tenth button is used for zero adjustment. Low-loss coaxial cable transfers voltage to divider. Size, 9"x13"x6". In walnut openfaced case. For 115 V. 60 cycles. Wt. 12 lbs.

\$28 95

MODEL XM—Dealer's Net Cash Price.....

OD SIGNAL GENERATOR



Covers 100 K.C. to 25 M.C. in 6 bands. The direct-reading dial has a scale over 40" in length. Individually trimmed coils assure accuracy and eliminate dead spots. RF output can be modulated 400 cycles. A separate audio output, variable from 1 to 1 volt is available for checking amplifiers. Dual attenuator for coarse and fine adjustment. Line filters and thorough shielding reduce leakage to a minimum. Size, 10"x7"x6". Has attractive bronze-panel with ivory knobs. For 110 volts A.C. or D.C. Shpg. wt., 10 lbs.

\$19 95

MODEL OD—Dealer's Net Cash Price.....

BG DELUXE TUBE TESTER



Designed as a precision instruments of outstanding accuracy for testing all types of receiving tubes. Provides an approved emission test with readings on a "Good-Bad" meter scale. A neon lamp shows all shorts and leaks between any elements up to 2 megohms while tube is hot. Every precaution has been taken to protect instrument from obsolescence. The filament return selection circuit requires only 7 sockets for all present tubes. 3 extra sockets are provided for future tube releases. The filament supply is tapped from 1.4 to 110 volts in 13 steps with 10 spare positions. An extra space switch is also provided. The attractively finished case has metal feet and a removable cover. Size, 10"x12 1/2"x 5". Has large, convenient compartment for tools, accessories, etc. The panel is bronze with black and white marking. For 96 to 132 V., 60 cycles. Shpg. wt. 15 lbs.

\$24 95

MODEL BG—Dealer's Net Cash Price.....

MODEL A POCKET MULTIMETER



The Model A is a 1,000 ohm-per-volt instrument designed to meet the needs of the Serviceman, Amateur or Experimenter. It is extremely compact, of sturdy construction, and features unexcelled accuracy. The following ranges are available through a rotary type switch: 0-6-120-300-1200 V. D.C.; 0-6-300 V. A.C.; 0-1-30-300 M.A. D.C.; 0-2,000-500,000 ohms; and -10 to +12 D.B. The zero adjuster is common for both ohm scales. Space is provided for the self-contained battery. The Model A is supplied complete with battery and built-in test leads. Size, 2"x3 1/4"x6". Shpg. wt. 2 lbs.

\$ 8 45

MODEL A—Dealer's Net Cash Price.....

MODEL S



Features a full size 3 inch meter with a large easy to read scale. One zeroadjustment has the same setting for both ohm scales.

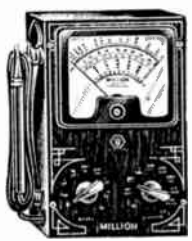
- Sensitivity—1,000 Ohms Per Volt.
- Volts D.C.—0-5-50-500-1000.
- M.A. D.C.—0-1.
- Low Ohms—0-1000. High Ohms—0-500,000.

Measures only 2"x3 1/4"x6". Shipping weight, 2 pounds.

\$ 5 45

MODEL S—Dealer's Net Cash Price.....

LABORATORY MULTIMETERS



Three popular models. The style VV with its attractive art panel, large 4 inch meter, built in test leads and separate switch for shorts, gives it first place in the laboratory. Use it for all point to point radio receiver analysis. Ranges available A.C. and D.C. volts, 0-6-120-300-1,200 at 1000 ohms per volt sensitivity. D.C. Milliamperes, 0-1-30-300-600. Ohm meter, 0-1,000 (50 ohms at mid-scale), 0-2 1/2 megohms with self contained batteries. Decibels minus 10 to plus 12. Large 4 inch meter with one milliamperere. D'Arsonval movement. Easy to read scales Knife edge pointer. Rotary type range selector switch. Circuit connections brought out to single pair of knickles heavy duty test leads. Zero ohms adjustment same for both ohm scales. Clearly marked panel. Grey wrinkle finish metal case fitted with rubber feet. Size 8"x5 1/2"x3 1/4" deep. Shipping weight, 8 pounds.

MODEL VV—1,000 ohms per volt. Complete with handle, rubber feet, batteries and instructions. **\$14 95**
Dealer's Cash Price.....

MODEL VDA—5,000 ohms per volt. Same scales as Model VV but reads to 10 Megohms and has 200 microampere meter. **\$17 45**
Dealer's Cash Price.....

MODEL OM—Supersensitive meter with 20,000 ohms per volt, 50 microampere and 40 megohm scales. Size ranges and appearance similar to Model VV. Dealer's Cash Price..... **\$24 95**

NEW

• MILLION —

TEST EQUIPMENT

MODEL GM MULTIMETER

A Laboratory Meter



- GIANT 8 3/4" METER
- 1000 OMS PER VOLT
- 0-6-120-300-1200-3000 VOLTS, A.C.
- 0-6-120-300-1200-3000 VOLTS, D.C.
- 500-500,000 OHMS
- 0-5 MEGOHMS
- 0-1-3-30-300-600 MILLIAMPERES
- 0-12 AMPERES
- 0-12 AMPERES
- - 10 + 10 DECIBELS

THE Model GM has been designed to provide the Serviceman or Amateur a large, accurate meter for shop or shack. Special Alnico meter movement provides extra damping and lifelong ruggedness and accuracy.

Five D.C. voltage ranges, 0-6-120-300-1200-3000, cover all requirements. Five A.C. voltage ranges cover 0-6-120-1200-3000.

Decibel scale is provided for riding gain or measurement use. Three ohms scales cover 1 to 500 ohms, 500 to 500,000 ohms and 5,000 to 5 megohms with internal batteries. Zero adjusters and two batteries are provided so that it is not necessary to change zero adjustment when changing scales.

The Model GM is mounted for bench use so that it can be easily read from any angle. It measures 9" wide by 13" high. Shipping weight, 12 lbs.

Dealers net cash prices (Less batteries and test leads), net..... **\$19.95**

Batteries: 2 Burgess 4156; 1 Burgess 432, net \$1.70

High Voltage Test Leads, net.....\$1.25

MODEL SG SIGNAL GENERATOR AC

Complete Attenuation On All Bands

THE model SG is a modern, precisely engineered device capable of producing an artificial signal that can be varied in amplitude from a few microvolts to approximately 100,000 microvolts. Attractive hammered finish panel with ivory knobs.

Individual Coils for HIGHER ACCURACY

The model SG uses separate coils individually trimmed, eliminating the possibility of "dead-spots" on any range. This feature is usually found only in laboratory-type generators.

The common fault usually found prevalent in the average oscillator, frequency modulation, has been eliminated in the SG. The attenuation system does not load oscillator circuit but reduces the signal at the output to zero on all bands.

Provision is made for external modulation, internal modulation of 40% at 400 cycles, or no modulation.

Attenuation On Megacycle Bands

The Model SG has six bands covering 50 k.c. to 30 megacycles on fundamentals and to 90 megacycles on harmonics. Over 40" of full vision scales make easy reading. The size is 16 1/2 x 9 1/2 x 8 3/4. Operates on 115 volts A.C. 50-60 cycles. Other voltages and frequencies on request. Complete with shielded line cord, special low capacity output cable and complete instructions.



SEPARATE AUDIO

The audio output is available thru the regular attenuator and multiplier for testing any public address system or the audio portion of a receiver.

The RF output is controlled by a completely resistive attenuator. This attenuator is of the double range type, one control from 0-100 and a multiplier having steps 1, 10, 100, 1000. Units are approximately in microvolts.

RIGID CONSTRUCTION

The model SG is a sturdy, well-built unit made to "take it" under all conditions. Heavy chassis construction plus welded joints make this generator especially desirable from the mechanical standpoint.

TUBES USED

The RF oscillator is a 6V6, the audio generator is a 6J5 rectification by a 5W4.

MODEL SG

Dealers Net Cash Price **\$34.95**

Shipping wt. 20 lbs.

PRECISION

TEST EQUIPMENT

STANDARD OF ACCURACY

SERIES 920

Combination Dynamic Mutual Conductance Type Tube Tester and 33 Range Rotary Selective A.C.-D.C. Multi-Range Set Tester



★ 920P

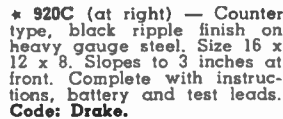
Hardwood portable type carrying case with removable cover and tool compartment. Walnut finish. Size 12x13x6. Complete with battery and test leads. Code: Drive.

NET PRICE
\$53.95



★ 920MCP (at left) — Open type metal case portable; black ripple finish. Size 12 x 10½ x 6. Complete with instructions, battery and test leads. Code: Dicer.

NET PRICE \$49.95



★ 920C (at right) — Counter type, black ripple finish on heavy gauge steel. Size 16 x 12 x 8. Slopes to 3 inches at front. Complete with instructions, battery and test leads. Code: Drake.

NET PRICE \$53.95



★ 920PM (at left) — Combination of 920MCP inserted in black ripple finish steel panel (12¼ x 19) with back dust cover 6 inches deep. Unit removable from front for portable use. Suitable for standard relay rack or Precision Rack Cabinet. Code: Dream.

NET PRICE \$53.95



SET ANALYZING FEATURES

★ SIX A.C. AND SIX D.C. VOLTAGE RANGES at 1000 ohms per volt: 0-12; 0-60; 0-300; 0-600; 0-1200; 0-3000 volts. ★ FIVE D.C. CURRENT RANGES: 0-1.2; 0-12; 0-120; 0-600 MA; and 0-12 AMPERES. ★ FOUR RESISTANCE RANGES: 0 to 400 Ohms; 0 to 100,000 Ohms; 0 to 1 Meg.; 0 to 10 Megs. All ohmmeter ranges powered by self-contained supply. ★ SIX DECIBEL RANGES FROM -10 to +64DB. ★ SIX OUTPUT RANGES: Same as A.C. Voltage Ranges. ★ MASTER RANGE SELECTOR SYSTEM: Permits simplified speedy measurements. ★ LARGE 4½" MODERN "PRECISION" SQUARE TYPE METER: D'Arsonval type: 400 microamperes full scale sensitivity. ★ EASY READING SCALES AND NUMERALS. ★ CONDENSER LEAKAGE TESTS. ★ SHUNTS WIRE WOUND to 1% accuracy. Multipliers matched to 1% accuracy. ★ ACCURACY of all ranges closely maintained to A.C. ACCURACY 3%; D.C. ACCURACY 2%.

TUBE ANALYZING FEATURES

★ A DYNAMIC MUTUAL CONDUCTANCE TYPE TUBE TESTER employing an exclusive "PRECISION" engineered circuit, which in one operation, effectively tests all radio receiving tubes for both MUTUAL CONDUCTANCE and CATHODE STRUCTURE. ★ TESTS ALL TUBE TYPES: ALL FILAMENT VOLTAGES from 1.4 to 120 volts. TESTS LOKTALS, BANTAM JUNIOR AND THE NEW BUTTON 7 PIN PORTABLE RADIO AND HEARING-AID BATTERY TYPES, SINGLE ENDED, TELEVISION AND F. M. AMPLIFIERS, REGULAR OCTALS (MG, G, GT and METALS), SPRAY-SHIELD AND GLASS TYPES. ★ AUTOMATIC PUSH-BUTTON SYSTEM: Flexibility for non-obsolescent free point tube analysis and accommodation of future tube releases. ★ DUAL FREE POINT FILAMENT TERMINAL SELECTION. ★ VISIBLE FILAMENT CONTINUITY TESTS. ★ SPECIFIC INDIVIDUAL LOADS AND VOLTAGES: APPLIED TO ELEMENTS OF TUBE UNDER TEST. ★ VARYING A.C. SIGNAL applied to control grids. ★ METER READS IN PLATE CIRCUIT: Indications are entirely dependent upon control action (transconductance) of each of the intervening elements. Meter indication shows up tubes having open elements. ★ TESTS diodes, triodes, rectifiers, tetrodes, pentodes, multi-purpose tubes, gaseous types OZ3-OZ4 and remote control gaseous types OA4 and 2A4. Individual tests for each section of multi-section tubes including visible tests of the fluorescent screen and winking effect on cathode ray indicator tubes. ★ HOT CATHODE LEAKAGE TEST. ★ HOT INTER-ELEMENT SHORT TESTS. ★ NOISE TEST pin jacks incorporated for earphone or amplifier connection. ★ BALLAST TESTS: The regular tube test sockets accommodate all ballast units. ★ PILOT LIGHT TESTS. ★ BUILT-IN DOUBLE WINDOW ROLLER TUBE CHART. ★ MICRO-LINE ADJUSTMENT read directly on meter. No arbitrarily tapped transformer employed. ★ PILOT LIGHT (ON-OFF) INDICATOR: FUSED LINE PLUG. ★ TELEPHONE CABLED WIRING EMPLOYED THROUGHOUT. ★ ACCURACY of the tube test circuit is closely maintained by the use of individual calibrating controls.

SERIES 910 and 912

Dynamic Mutual Conductance Type Tube Testers

The Series 910 incorporates a modern 3 inch square type meter with D'Arsonval movement of 2% accuracy. The 912 Series incorporates an impressive 4½" square type meter of 2% accuracy. The physical appearance of these instruments is both the same as shown for the 920 Series. Circuit features of both Series 910 and 912 are exactly the same as described for the 920 Series under heading "Tube Analyzing Features."

★ 910P—Hardwood portable type carrying case with removable cover and tool compartment. Walnut finish. Size 12 x 13 x 5. Code: Front _____ NET PRICE **\$33.95**

★ 910MCP—Open type metal case portable; black ripple finish. Size 12 x 10½ x 6. Code: Frail _____ NET PRICE **\$29.95**

★ 910C—Counter type, black ripple finish on heavy gauge steel. Size 16 x 12 x 8. Slopes to 3 inches at front. Code: Frisk. NET PRICE **\$33.95**

★ 910PM—Combination of 910MCP inserted in black ripple finish steel panel (12¼ x 19) with back dust cover 6 inches deep. Unit removable from front for portable use. Suitable for standard relay rack or Precision Rack Cabinet. Code: Fried. NET PRICE **\$33.95**

★ 912P—Hardwood portable type carrying case with removable cover and tool compartment. Walnut finish. Size 12 x 13 x 5. Code: Fence _____ NET PRICE **\$35.95**

★ 912MCP—Open type metal case portable; black ripple finish. Size 12 x 10½ x 6. Code: Felon _____ NET PRICE **\$31.95**

★ 912C—Counter type, black ripple finish on heavy gauge steel. Size 16 x 12 x 8. Slopes to 3 inches at front. Code: Frame. NET PRICE **\$35.95**

★ 912PM—Combination of 912MCP inserted in black ripple finish steel panel (12¼ x 19) with back dust cover 6 inches deep. Unit removable from front for portable use. Suitable for standard relay rack or Precision Rack Cabinet. Code: Fetid. NET PRICE **\$35.95**

PRECISION

TEST EQUIPMENT

STANDARD OF ACCURACY

PRECISION DeLUXE DYNAMIC ELECTRONOMETERS

Dynamic Mutual Conductance Type Tube Testers with Large 9" Square Meters



SERIES 915 TUBE MERCHANDISER

Attractively finished in black ripple with chromium trim and chromium meter lamp reflector. Case of heavy gauge steel. Size 23 inches high, 16 inches wide. Bottom depth 10 inches and tapers to 4 inches at top. Code: Grace.

NET PRICE \$51.95

- * Inspire Customer Confidence.
- * Increase Tube Sales with this new modern impressive Precision Tube Merchandiser.
- * Large 9" SQUARE TYPE METER.
- * EASY READING 3 colored Replace-Weak-Good scale.
- * Full Vision Roller Tube Chart.
- * Instrument Panel illuminated by large Chromium Reflector.
- * Precision Dynamic Mutual Conductance test circuit insures accurate and reliable tube testing results.
- * Electrical features exactly the same as Tube Analyzing features described for Series 920.

915PM PANEL MOUNT TUBE MERCHANDISER

Designed for panel mount use. The 9" meter is mounted on one panel and the instrument on another. Panels are identical in size 19 x 12 1/4. Also suitable for standard rack panel use or with Precision Rack Cabinet. Code: Grail.

NET PRICE \$49.95

SERIES 922 COMBINATION TUBE MERCHANDISER AND MULTI-RANGE TESTER

Attractively finished in black ripple with chromium trim and chromium meter lamp reflector. Case of heavy gauge steel. Size 23 inches high, 16 inches wide. Bottom depth 10 inches and tapers to 4 inches at top. Code: Grade. NET PRICE \$67.95



The Series 922 DeLuxe Laboratory Dynamic Electronometer has been designed primarily for the discriminating radio service organization, desirous of increasing customer confidence in tube testing, sales and service facilities.

The over-size components as described for the Series 915, combined with the addition of 33 multi-range meter functions, makes this instrument indispensable for the foundation of a speedy and efficient service system. Tube test and multi-range meter specifications are exactly the same as those listed for the Series 920.

922PM PANEL MOUNT TUBE MERCHANDISER WITH MULTI-RANGE TESTER

Designed for panel mount use. The 9" meter is mounted on one panel and the instrument on another. Panels are identical in size 19 x 12 1/4. Also suitable for standard rack panel use or with Precision Rack Cabinet. Code: Grain.

NET PRICE \$65.95

SERIES 914

Modern Counter Type Tube Merchandiser
employing a large 7" chrome trimmed
SWIVEL MOUNTED METER



An economically priced, but nevertheless elaborate, attractively designed instrument, occupying a minimum of counter space. The 7" swivel mounted meter provides both customer and operator with a FULL VIEW of test results, regardless of cabinet position.

- * A modern, streamlined, customer appealing tube merchandiser.
- * Large, easy reading, 7" chrome trimmed bakelite cased meter.
- * 3 colored—REPLACE—WEAK—GOOD SCALE with 0-100 tube matching reference arc.
- * Full vision double-window roller tube chart.
- * Dynamic Mutual Conductance Tube testing features, same as described for Series 920.

* 914 TUBE MERCHANDISER—Attractive, modern streamlined design with chrome trimming on fine dull black wrinkle-finished, heavy gauge cabinet. Separately encased meter, swivel mounted. Cabinet size 16" x 13 1/2" x 7", slopes to 3" at front. Code: Handy. NET PRICE \$39.95

SERIES 954

Combination Dynamic Mutual Conductance Type
Tube Tester and 37 Range Super-Sensitive
AC-DC Multi-range Set Tester
20,000 OHMS PER VOLT DC

A complete service laboratory: one compact unit, provides every facility for accurate, reliable solutions of all tube test and measurement problems of Radio (A.M. and F.M.), and Television.

TUBE ANALYZING FEATURES

- * Same as Dynamic Mutual Conductance tube test circuit described for the Series 920.



SET ANALYZING FEATURES

- * SEVEN AC and SEVEN DC VOLTAGE RANGES; 0-3 to 0-6000 volts. 20,000 ohms/volt DC—1000 ohms/volt AC. * SEVEN DC CURRENT RANGES. 0-60 microamps to 0-12 AMPS. * SELF-POWERED RESISTANCE RANGES to 60 MEGOHMS. * SIX DECIBEL RANGES: -12 to +70 DB. * SEVEN OUTPUT RANGES to 6000 volts. * 4 1/2"—50 microamp bakelite cased meter.
- * 954P—(illustrated) In hardwood portable walnut finish case; removable cover and tool compartment. Size 12" x 13" x 6". Complete with batteries and extra-high voltage test leads. Code: Happy. NET PRICE \$65.95

The Series 954 is also available in the same additional types of housings described for the Series 920.

- * 954MCP—Open type portable—complete with batteries and high voltage test leads. Code: Horse. NET PRICE \$61.95
- * 954C—Counter type—complete with batteries and high voltage test leads. Code: Human. NET PRICE \$65.95
- * 954PM—Standard Panel Mount—complete with batteries and high voltage test leads. Code: Hermit. NET PRICE \$65.95

PRECISION

TEST EQUIPMENT

STANDARD OF ACCURACY

SERIES 844

34 Range A.C.-D.C. Volt-Ohm-Decibel-Milliammeter
6000 volts A.C. and D.C., 10 megohms, and 12 amps.

THE SERIES 844 PROVIDES COMPLETE FACILITIES FOR OBTAINING ALL MEASUREMENT REQUIREMENTS FOR SERVICE, AMATEUR, LABORATORY, TELEVISION AND INDUSTRIAL USE.

* 844L—Housed in walnut finished hardwood open type case with carrying handle. Compact in size 7" x 8" x 4". Code: **Manse**.

NET PRICE (Less Batteries and test leads) **\$22.95**



SPECIFICATIONS

- * SIX A.C. and SIX D.C. VOLTAGE RANGES at 1000 ohms per volt: 0-12; 0-60; 0-300; 0-600; 0-1200; 0-6000 volts.
- * SIX D.C. CURRENT RANGES: 0-1.2 MA to 0-12 AMPERES.
- * FOUR RESISTANCE RANGES: Batteries mount inside of case 0-400; 0-100,000 ohms; 0-1 meg.; and 0-10 megs.
- * SIX DECIBEL RANGES from -12 to +70DB.
- * SIX OUTPUT RANGES: 0-12 to 0-6000 volts.
- * Large 4 5/8" 400 microampere bakelite cased meter.
- * All instruments individually calibrated and sealed against laboratory standards assuring 2% D.C. and 3% A.C. overall accuracy. Complete telephone cabling employed.
- * 844P—In closed type portable case. Code: **Malad**. NET PRICE (Less batteries and test leads) **\$24.95**
- * 844PM—In standard panel mount. 19" x 12 1/4". Code: **Maize**. NET PRICE (Less batteries and test leads) **\$25.95**

INDUSTRIAL CIRCUIT TESTERS

- * 844J—All purpose Industrial Circuit tester. Consists of 844 and Series J A.C. Ammeter in closed type portable case. Code: **Miser**. NET PRICE (Complete with batteries and extra-high voltage test leads) **\$44.95**
- * 844J-PM—Same as 844J but in standard panel mount. 19" x 12 1/4". Code: **Month**. NET PRICE (Complete with batteries and extra-high voltage test leads) **\$45.95**

SERIES "J"

MULTI-RANGE A.C.-AMMETER

300 Milliampers Full Scale to 60 Amperes

- * 8 Ranges: 0-300-600-1200 Milliampers — 0-3-6-12-30-60 AMPERES.
- * For use on all line frequencies 25-60 cycles.
- * RED correction scale for Direct Reading on 25 cycles.
- * Large, easy reading 4 5/8" bakelite cased meter—2% accuracy.
- * Heavy duty bakelite insulated binding posts.
- * Accurate, Reliable, Rugged! Ideal for radio service, electrical appliance and motor repairs, refrigeration, air-conditioning, transmitting, etc.



* Series "J" L—In open face hardwood walnut finished carrying case. Code: **Atone**. NET PRICE **\$17.95**

* Series "J" PM—In standard Panel Mount. Code: **Apron**. NET PRICE **\$20.95**

Series "J" P—(illustrated) In hardwood walnut finished carrying case, with hinged removable cover and tool compartment, size 9" x 10" x 6". Code: **Apple**. NET PRICE **\$19.95**

SERIES 854

37 RANGE A.C.-D.C. Super-Sensitive Tester
6000 Volts A.C. and D.C.,
60 MICROAMPS., 12 AMPS., AND 60 MEGS.



20,000 OHMS PER VOLT D.C. sensitivity makes this instrument ideal for reliable measurements in modern radio (A.M. and F.M.) and television circuits where only minute current drain of the measuring instrument can be tolerated.

SPECIFICATIONS

- * SEVEN D.C. VOLTAGE RANGES 20,000 ohms/volt: 2% accuracy: 0-6; 0-12; 0-60; 0-300; 0-600; 0-1200; 0-6000 volts.
- * SEVEN A.C. VOLTAGE RANGES 1,000 ohms/volt: 3% accuracy: 0-3; 0-12; 0-60; 0-300; 0-600; 0-1200; 0-6000 volts.
- * SEVEN D.C. CURRENT RANGES: 2% accuracy: 0-60, 0-300 microamps: 0-3, 30, 120, 600 MA; 0-12 AMPS.
- * THREE RESISTANCE RANGES: Self-contained batteries: 0-6000, 0-600,000 ohms, 0-60 megohms.
- * SIX DECIBEL RANGES FROM -12 to +70DB.
- * SEVEN OUTPUT RANGES: 0-3-12-60-300-600-1200-6000 volts.
- * Large 50 microampere 4 5/8" bakelite-cased meter.
- * WIRE-WOUND SHUNTS, METALLIZED MULTIPLIERS—1% ACCURACY.
- * 854P—(illustrated) In attractive walnut finished hardwood portable case with removable cover and tool compartment. Size 9" x 10" x 6". Code: **Churn**. NET PRICE (Complete with batteries and high voltage test leads) **\$39.95**

The Series 854 is also available in the same type of mountings and combinations described for Series 844.

- * 854L—Open portable: complete with batteries and high voltage test leads. Code: **Civil**. NET PRICE **\$37.95**
- * 854PM—Panel mounted: complete with batteries and high voltage test leads. Code: **Claim**. NET PRICE **\$40.95**

INDUSTRIAL CIRCUIT TESTERS

- * 854J—Portable industrial circuit tester. Complete with batteries and test leads. Code: **Close**. NET PRICE **\$59.95**
- * 854J-PM—Panel industrial circuit tester. Complete with batteries and test leads. Code: **Clerk**. NET PRICE **\$60.95**

SERIES 832

31 Range A.C.-D.C. Multi-Range Tester



Incorporates the LARGEST METER (3 5/8" wide) ever provided in such a compact instrument—SCALE LENGTH, VISIBILITY, EASE OF READING never before obtainable in small low-priced multi-range testers.

- * 6 D.C. voltage ranges—1000 ohms/volt 0-6-30-150-300-600-1200 volts.
- * 6 A.C. voltage ranges—500 ohms/volt 0-12-60-300-600-1200 2400 volts.
- * 4 D.C. current ranges—0-1.2 to 0-600 Milliamps.
- * 3 Resistance ranges to 5 MEGS. Up to 500,000 ohms on internal battery.
- * 6 Decibel ranges (-10 to +62DB).
- * 6 Output ranges to 2400 volts.
- * Wire-wound shunts, metallized multipliers—1% tolerance.
- * A PRECISION instrument designed to withstand the abuse and punishment of rough service.
- * 832—In hardwood walnut finished case (7" x 4 1/2" x 3") with leather handle, complete with batteries (less test leads). Code: **Anvil**. NET PRICE **\$14.95**

PRECISION

TEST EQUIPMENT

STANDARD OF ACCURACY

SERIES 862

A.C.-D.C. VOLT - OHM - DECIBEL - MILLIAMMETER
A Laboratory Multi-Range Tester Incorporating a
Large 9" Meter and Remote Control Selector Unit



* 862—In standard panel mount finished in black ripple. Size 19 x 12 1/4 with dust cover 6 inches deep. Code: Baker.

NET PRICE (Complete with batteries and high voltage test leads) **\$39.95**

The Series 862 DeLuxe Multi-Range Tester is housed in standard panel mount, designed for the Precision Laboratory Cabinet Rack or any other standard relay rack. The Selector Unit is easily slid out from its panel compartment for remote bench operation.

The 9" Precision Rectangular Meter with large easy reading scales and numerals, allows highly accurate readings with minimum eye strain.

This instrument is an indispensable adjunct to the radio, industrial, and television laboratory where operator efficiency is at a premium.

All electrical specifications are the same as described for the Series 844.

ALL PURPOSE CIRCUIT TESTER

* 862-PM—Consists of the 862 meter on one panel and remote control unit and "I" unit on another panel. Panels are identical in size, 19" x 12 1/4". Suitable for standard rack mount or with Precision Rack Cabinet. Code: Bench.

NET PRICE (Complete with batteries and high voltage test leads) **\$61.95**

TYPE 212 CABINET RACK

The Series 212 Cabinet Rack accommodates ANY combination of two Panel Mount (PM) type units described on the 3 previous pages of this catalog.

The exclusive Precision "Two in One" slide-in and slide-out feature permits the separately encased Precision instrument, housed in its Panel Mount compartment, to be INSTANTLY "SLID-OUT" from the front for either remote or completely independent portable use. A "Snap-on" carrying handle, as supplied, is quickly attached to the portable metal cabinet for field use and is just as readily detached to allow the instrument to be "SLID-IN" (returned) to its panel mount compartment. There is no need to remove any screws, bolts or nuts to "slide-in" or "slide-out" any instrument.

The illustration on this page shows only one of the many possible Cabinet Rack combinations which can be built up with the Precision Panel Mount (PM) type units, incorporating the "SLIDE-IN" "SLIDE-OUT" portable feature.



CABINET RACK SPECIFICATIONS

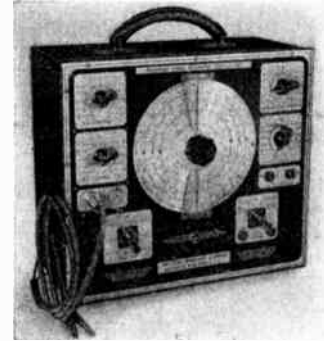
* 212 — Cabinet Rack only: Black Ripple finished, heavy gauge steel; complete with modern chrome lamp reflector, 40 watt tubular lamp, 5 feet extra wire for panel interwiring, two A.C. convenience outlets, all wired to external line cord. Size of rack: 29" high; 21" wide; 14" base depth and tapers to 6" top depth.

NET PRICE **\$16.95**

* TYPE 212 RACK with 862 and E-200PM

SERIES E-200 SIGNAL GENERATOR

For All A.M., F.M. and Television Receivers,
featuring "Servicing by Signal Substitution"



● Six Bands: 90 KC to 88 MC. ● Accuracy—Constancy of calibration: MAXIMUM of 1% DEVIATION on all bands, insured by use of the "PRECISION" developed "UNIT OSCILLATOR" construction. ENTIRE "UNIT OSCILLATOR" is SINGLE-POINT-MOUNTED, providing positive freedom from effects of mechanical shock, eliminating the need of costly, useless, single frequency reference crystals. ● LARGE FULL VISION 6 1/2 INCH NO-GLARE DIAL: approx. 6 feet of direct reading deeply etched scales. Ball bearing planetary drive.

● 0-100 Point Vernier Scale and Twin Hair-Line Indicators: provide direct reading to one part in 1000 for critical laboratory usage. ● The Circuit—uses the new 6S17 in a highly stable E.C.O. circuit—Modulated in the buffer amplifier by a 6C5 400 cycle sine-wave audio oscillator. An 80 full-wave rectifier forms the basis of a hum-free D.C. supply. ● 400 Cycle Sine-Wave Audio Oscillator—Independently Controlled—provides both modulation and external audio signal of over 60 volts. ● DUAL CALIBRATED R.F. Attenuators—Separately shielded—provides direct R.F. gain measurement facilities and smooth stepless control. ● LOW LEAKAGE: complete shielding of all vital components, in addition to a heavy gauge etched Aluminum panel and steel cabinet—Power transformer electro-statically shielded—A.C. line, choke-condenser filtered. ● SELF-SHIELDING COAXIAL OUTPUT CABLE and dual (LOW-HIGH) coaxial connectors with separate screw cap for elimination of leakage from unused terminal. ● Four Types of Signals—Unmodulated R.F., "400 cycle Modulated R.F.", "EXTERNALLY Modulated R.F." (frequency or amplitude) "400 cycle Audio Output." ● VARIABLE MODULATION CONTROL—0-100% modulation AT WILL—more than triples signal utility as against obsolete fixed modulation of only 30 or 40%. ● A.V.C. SUBSTITUTION SYSTEM—The Series E-200 fully overcomes serious alignment troubles arising from receiver A.V.C., by supplying ITS OWN A.V.C. VOLTAGE controllable at the front of the panel from 0-50 volts. ● HAND CALIBRATION—Each instrument INDIVIDUALLY hand calibrated on all six bands. ● Fully licensed under patents of American Telephone & Telegraph Co. ● Not only an unsurpassed, efficient Signal Generator for purposes of alignment but SPECIFICALLY DESIGNED for "Servicing by Signal Substitution", the new modern Dynamic speed approach to receiver alignment and adjustment problems, described in a new 120 page illustrated text book.

* E-200—In black ripple heavy gauge steel case. Size 12" x 10 1/2" x 6". Complete with FREE copy of "SERVICING BY SIGNAL SUBSTITUTION." Code: Trade. NET PRICE **\$35.95**

* E-200PM—In standard panel mount. Code: Trade. NET PRICE **\$39.95**

SERIES 872

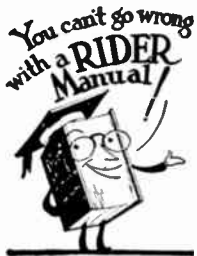
Automatic Push Button AC-DC Multi-Range Tester

SPECIFICATIONS

- * 6 D.C. VOLTAGE RANGES at 1000 ohms per volt: 0 to 6/30/300/600/1200 and 3000 volts.
- * 5 A.C. VOLTAGE RANGES at 500 ohms per volt: 0-12/60/600/1200 and 3000 volts.
- * 5 D.C. CURRENT RANGES: 0-1.2/12 120/600/1200 milliamperes.
- * 3 RESISTANCE RANGES: 0-5000 ohms (20 ohms at center of scale) 0-500,000 ohms (powered by self-contained 3 volt battery) 0-5 megohms (powered by external battery).
- * FIVE DECIBEL RANGES: -10 to +64DB.
- * OUTPUT METER INDICATIONS on Five A.C. voltage ranges.
- * Extra large 3 3/4" 800 micro-ampere meter.



* 872—In hardwood walnut finished case (7" x 4 1/2" x 3") with leather handle, complete with batteries (less test leads) Code: Armor. NET PRICE **\$17.95**



RIDER Manuals

YOU NEED ALL ELEVEN



No serviceman can anticipate the year, make and model of the next set that will come to his bench. It may be anywhere up to ten years old. For this reason you must have the volume of Rider Manuals that contains the servicing information on that particular set, OR ELSE risk a haphazard job—wasted time—a broken delivery promise and a disgruntled customer. Get your full money's worth out of every Rider Manual—buy it the day it comes out. Benefit from the complete servicing information that only Rider Manuals can give you: Data on alignment, I-F

peaks, operating voltages, parts lists and parts values, voltage ratings of condensers, wattage ratings of resistors, coil resistance data, and all the other information that is vital if you are to know exactly what the manufacturer put in that receiver. Nowhere else can you make an investment so certain to increase your profits.

That . . . is why Rider Manuals are standard the world over.
That . . . is why you need all eleven Rider Manuals.

- VOL. XI.** The latest manual. . . . It is true that Rider's Manuals have established a standard for detail, but even this standard has been surpassed in Volume XI. . . . Receivers manufactured up to June, 1940. . . . New arrangement provides for maximum number of sets. Includes vest pocket manual containing push-button frequency ranges of all automatically tuned receivers and other handy servicing data. Also double spread pages for the complicated diagrams, new index (cross-indexed) and new How It Works section devoted to explanations of the electrical and mechanical operations of the more complicated 1940 receivers, including television, facsimile and frequency modulation **1,652 pages, Net Price \$10.00**
- VOL. X.** Complete information on receivers manufactured up to August, 1939. Also a special 64-page How It Works Section and double spread pages for the complicated diagrams. Includes a separate 188-page index with lists of exactly what appears on every page in Volume X and all preceding volumes **1,664 pages, Net Price \$10.00**
- VOL. IX.** Contains installation and servicing instructions on 1889 models manufactured up to October, 1938. Also a special 36-page "How It Works" section and double-spread pages for the complicated diagrams . . . **1,672 pages, Net Price \$10.00**
- VOL. VIII.** Receivers manufactured up to October, 1937 will be found in this volume. Contains installation and servicing instructions on many types of intercommunication systems. Also a special 64-page "How It Works" section and double-spread pages for the complicated diagrams **1,650 pages, Net Price \$10.00**
- VOL. VII.** In this volume will be found sets manufactured up to October, 1936, together with data on older receivers hitherto unavailable. Data on more than 1,700 models—complete information **1,600 pages, Net Price \$10.00**
- VOL. VI.** In this volume will be found sets manufactured up to November, 1935, together with data on older receivers hitherto unavailable. Data on more than 950 models—complete information **1,240 pages, Net Price \$7.50**
- VOL. V.** In this volume will be found sets manufactured up to October, 1934, together with data on older models, hitherto unavailable. Data on more than 940 models are presented—not only electrical data, but information on the mechanical intricacies of the sets **1,200 pages, Net Price \$7.50**
- VOL. IV.** Receivers manufactured up to March, 1934, will be found in this volume. Herein will be found the more complicated superhets with QAVC, noise gates, duo-diode pentodes, automatic tone controls, and all the other new designs. A special 24-page section explains some of the more complicated sets. . . . **1,060 pages, Net Price \$7.50**
- VOL. III.** The receivers produced between the middle of 1932 up to June, 1933, are included in Volume III. Herein will be found the early Superheterodyne receivers, which were introduced in this period **1,070 pages, Net Price \$7.50**
- VOL. II.** This volume covers the period between the sets produced early in 1931 and the middle of 1932. Data on sets manufactured before 1931 that were unavailable when Volume I was published, will be found in Volume II. **800 pages, Net Price \$7.50**
- VOL. I.** This volume covers the sets produced between the years 1919 and 1931. The great majority of the old receivers are to be found in this volume and, as you know, a fairly large percentage of these old sets are still in use today. **1,000 pages, Net Price \$7.50**

RIDER'S MANUALS HAVE more schematics . . . more I.F. peaks . . . more alignment data . . . more circuit descriptions. . . . MORE EVERYTHING THAN ANY OTHER MANUALS.



RIDER Publications

FREQUENCY MODULATION

The latest development in radio—**FREQUENCY MODULATION**—is on the air. More and more stations all over the country are making provision for “staticless” broadcasting and the number of F-M receivers on the market is increasing. . . . Here is your chance to get in at the start—Rider’s newest book explains the transmission and reception of frequency-modulated signals with especial attention given to the different types of f-m receivers now available—their adjustments and maintenance. . . . This is a “must” for every serviceman who has an eye on the future. . . . It is an investment that will pay real dividends!



CONTENTS

Chapter I. Frequency Modulation.—An introduction to the subject with comparisons drawn between the frequency-modulation and amplitude-modulation forms of transmission and reception. **Chapter II. What Happens at the Transmitter.**—A non-mathematical explanation of how frequency-modulated signals are broadcast, including a discussion of phase modulation. **Chapter III. What Happens in the Receiver.**—How the f-m signal progresses through the receiver and how it is affected by the limiter discriminate tubes. **Chapter IV. Wave Propagation and Service Areas.**—How the ultra-high frequency waves are used for f-m transmission and the area covered. **Chapter V. F-M Receiving Antennas.**—Explanations and data concerning the best types of antennas for the reception of f-m signals. **Chapter VI. Servicing F-M Receivers.**—Valuable instructions for the adjusting and maintenance of the receiver including numerous oscillograms that will guide you in your servicing problems.

136 PAGES TYPE SET FLEXIBLE CLOTH PROFUSELY ILLUSTRATED NET PRICE \$1.00

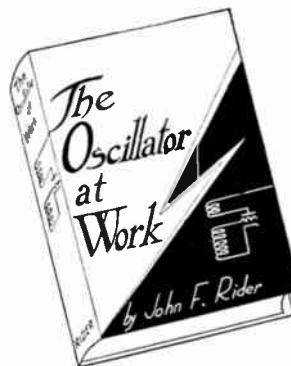
THE OSCILLATOR AT WORK

by John F. Rider

Do you get your money’s worth out of your present-day oscillator? Do you derive the maximum utility from that unit? Do you know how to test your oscillator and establish if it is working properly? Would you know how to repair it if it went bad? Do you know how many different types of oscillators can be used in the servicing field?

Here is your opportunity to get the true facts about oscillators! Rider’s book “Oscillators at Work” is worth many times the price asked because it helps protect the investment you have made in oscillator equipment. The serviceman cannot afford to be without this book. Not only does it tell you, as a serviceman, how you can get the most for your money already spent on equipment, but it will serve admirably as a guide in telling you how to choose between the different types of oscillators and decide upon the oscillators you will buy in the future.

If you really want to know the “ins and outs,” the “whys and wherefores” of oscillators of all kinds—those which you now use and those which you will have to use in the servicing industry, “Oscillators at Work” is a MUST book in your servicing library.



CONTENTS

I—How an oscillator works. The manner in which a combination of inductance and capacitance controls electron motion in a vacuum tube so as to produce oscillations. II—Alternating Currents. Discussion of the basic principles of alternating currents including a description of sinusoidal and complex waves. III—Triode Oscillators. Analysis of the various types and characteristics of triode oscillator circuits and the junction of the individual components in relation to the complete oscillator. IV—Electron-Coupled Oscillators. Description of multielectrode vacuum-tube oscillators in which the oscillator circuit and output circuit are coupled by means of a stream of electrons. V—Ultra-High Frequency Oscillators. Discussion of ultra-high frequency propagation and the operation of U-H-F oscillators including the regenerative, Barkhausen-Kurz, Gill-Morrell, and magnetron types. VI—Negative-Resistance Oscillators. The significance of “negative resistance” and its application to the dynatron oscillator and the negative-transconductance oscillator. VII—Electro-Mechanical Oscillators. Control of frequency of oscillation by means of mechanical motion, as exemplified by magnetostriction, tuning fork, and crystal oscillators. VIII—Relaxation Oscillators. Oscillators characterized by an absence of inductance, including linear sweep circuits and multivibrators. IX—Superheterodyne Oscillators. Discussion of harmonics and beats and their use in the operation and alignment of oscillators in superheterodyne circuits. X—R-F Signal Generators. The requirements of radio-frequency signal generators and their application to the servicing of radio receivers. XI—Audio-Frequency Oscillators. Necessity for a good audio-frequency oscillator for servicing, and a discussion of the fundamental-frequency and beat-frequency types of audio-frequency oscillators. XII—Modulation of Oscillators. Description of various schemes of modulation employing triodes or multielement tubes. Discussion of the principles of wireless record players and methods of servicing them. XIII—Wobblers. Theory and application of frequency-modulated R-F oscillators used with oscillographs to align radio receivers, and a discussion of A-F frequency modulators. XIV—Adjustment of Transmitters. Methods of employing a cathode-ray oscillograph to check the operation of oscillators used in transmitters. Bibliography: A compilation of important references on various types of oscillators.

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HALLICRAFTERS COMMUNICATIONS EQUIPMENT

The New 1941 SUPER SKYRIDER!

The Communications receiver that sets new standards for receiver performance! Frequency range 540 KC to 43 MC in 6 bands.

Two stages of preselection—high fidelity, push pull audio—band pass audio filter—Calibrated band spread—micrometer scale on main dial knob. Heavy gauge steel cadmium plated chassis—standard size relay rack panel 1/8 inch thick—machine tool gray wrinkle finished cabinet well ventilated and attractively designed.

See the 1941 SUPER SKYRIDER and you will know why the HALLICRAFTERS lead in communications equipment value.

The Model SX-28 1941 SUPER SKYRIDER PRICES **\$15950** start at.....NET



The New SKYRIDER 28

GENERAL SPECIFICATIONS

FREQUENCY RANGE:

- Band 1— 540 to 1650 KC
- Band 2— 1.5 to 3.2 MC
- Band 3— 3.0 to 6.2 MC
- Band 4— 5.5 to 12.0 MC
- Band 5—11.0 to 23.0 MC
- Band 6—21.0 to 43.0 MC

TUBE LINEUP:

- 1—6SK7 1st RF Amplifier
- 1—6SK7 2nd RF Amplifier
- 1—6SA7 Mixer
- 1—6SA7 H.F. Oscillator
- 1—6L7 1st IF Amplifier—
noise limiter
- 1—6SK7 2nd IF Amplifier
- 1—6B8 2nd Detector and meter
- 1—6B8 AVC Amplifier
- 1—6SK7 Noise Amplifier
- 1—6H6 Noise Rectifier
- 1—6J5 B.F.O.
- 1—6SC7 1st Audio Amplifier
- 2—6V6GT Push-Pull output
Amplifier
- 1—5Z3 Rectifier

CONTROLS:

- Micrometer scale main tuning
inertia controlled
- Calibrated band spread inertia
controlled
- Tone and AC ON-OFF
- Beat Frequency Oscillator
- A.F. Gain
- R.F. Gain
- 6 Position band switch
- Antenna Trimmer
- 6 Position selectivity control
- Crystal phasing
- Adjustable noise limiter
- Send-Receive Switch
- A.V.C.-B.F.O. Switch
- Bass boost switch
- Phone jack

PHYSICAL CONSTRUCTION:

Chassis substantially constructed of 14 gauge steel with flanged edges and flame welded corners. Condenser cover and coil shield compartments assembled to chassis in box girder type of construction. Brushed cadmium plating protects the chassis and metal components.

A 1/8 inch thick steel panel is used with etched control markings and Morocco finish.

The 8 3/4" x 19" dimensions of the panel are for standard relay rack mounting.

The Cabinet is made of 16 gauge steel attractively finished in machine tool gray wrinkle. Special consideration in the design of the cabinet was given to provide adequate ventilation.

MECHANICAL FEATURES:

New type inertia-controlled back-lash free dial mechanism on both main tuning and bandspread dials. This mechanism is preloaded and the main shafts are supported at both ends with ball bearings.

The chassis is removed from the front panel and firmly positioned with two brackets which support it without danger of strain or torque.

Both main tuning and band spread condensers are semi-floating and mounted to the chassis at three points.

Components arranged for best electrical efficiency with full consideration for convenience of control mountings.

ELECTRICAL FEATURES:

- 1—15 tubes
- 2—6 bands for most satisfactory L/C ratio
- 3—2 R.F. Stages
- 4—Push-pull high fidelity, audio output
- 5—6 step wide range variable selectivity
- 6—Band pass audio filter
- 7—Wide angle "S" meter
- 8—Phono jack
- 9—Adequate headphone output
- 10—Improved signal to image and noise ratio
- 11—80/40/20/10 meter amateur bands calibrated
- 12—Temperature compensated high frequency oscillator

CABINET DIMENSIONS:

20 1/2" long—14 1/2" deep—9 1/2" high.

The MODEL SX-28 Receiver with crystal and tubes, **\$159 50**
less speakerNET

Hallcrafters Jensen bass-reflex enclosure including 12" speaker
30" high—16" deep—22 1/2" wide—Model R12 **\$29 50**

Hallcrafters Jensen bass-reflex enclosure including 8" speaker
23 1/2" high—10 1/4" deep—17 1/2" wide—Model R8 **\$19 50**

Available in U.S.A. on Hallcrafters Factory-Sponsored Time Payment Plan

The New SUPER DEFIANT SX-25



AMATEURS from coast to coast acclaim this new, de luxe model, amateur receiver as the finest ever developed at anywhere near this price. It offers even better performance than that of the famed SX-17. Its general circuit is based on the proved efficiency of America's best selling receiver, the Sky rider DEFIANT.

Among its outstanding advantages are *extreme selectivity* and *more and better audio*. The design of the crystal filter makes possible critical CW operation under trying conditions of interference, and, in addition, the sensitivity of the receiver is raised from 2.8 to 4 times in the "CW Xtal" position when the receiver is tuned to the exact resonant frequency of the crystal itself; this means more *usable* sensitivity.

Both IF stages are expanded in the "Broad IF" position for high fidelity performance. An effective AVC or automatic volume control circuit keeps most signals at uniform audibility. The automatic noise limiter reduces interference by as much as 70%. The extremely low noise level of the SUPER DEFIANT makes it sensitive to very weak signals.

Every part is placed for best performance without regard for symmetry or beauty. Being self-contained there are no external units except the speaker. Tuning is effortless. Controls are conveniently located.

The SUPER DEFIANT (Model SX-25)—Complete with Speaker, Crystal and **\$9950** Tubes. Shipping weight 52 lbs.....
Extra for Univ. 110-250 volts, 25-60 cycles.....\$5.00

FEATURES

2 Stages of Preselection.

Twelve tubes:

6SK7	—1st RF Amplifier.	6SQ7	—Phase Inverter.
6SK7	—2nd RF Amplifier.	PP-6F6	—2nd audio output stage.
6K8	—1st Detector-Mixer HF Oscillator.	6H6	—Automatic Noise Limiter.
6SK7	—1st IF Amplifier.	6J5GT	—Beat Frequency Oscillator.
6SK7	—2nd IF Amplifier.	80	—Rectifier.
6SQ7	—2nd Detector, AVC, 1st stage of audio.		

Overall Range 540 kc. to 42 mc. in four bands:
1—540 kc.-1700 kc. 3—5.0 mc.-15.5 mc.
2—1.7 mc.-5.1 mc. 4—15.1 mc.-42 mc.

Separate calibrated bandspread dial for the 10, 20, 40 and 80 meter bands provides frequency meter tuning. Oscillator compensation for frequency stability.

Automatic noise limiter.

Six-step variable selectivity covering wide range from high fidelity to extreme CW crystal.

S meter calibrated in "S" and "DB" units.

Push-pull output stage furnishes 8 watts of audio.

Front panel controls: RF Gain, Selectivity Switch, Crystal Phasing, Audio Gain, Pitch Control, Main Tuning Control, Bandspread Tuning Control, ANL Switch, Hi-Lo Tone, Send-Receive Switch and BFO Switch.

External provision for: Send-Receive Terminals, Headphones, 5000 or 500 ohm output, Single Wire or Doublet Antenna.

Laboratory checked, piezo quartz crystal filter included as standard equipment.

Ten-inch heavy duty PM dynamic speaker in matching metal cabinet included as standard equipment.

Dimensions of receiver cabinet only: 19½" long, 9½" high, 11½" deep.

110 volt 50-60 cycle AC operation. DC operation socket provided for battery or vihrapack.

Available in U.S.A. on Hallicrafters Factory-Sponsored Time Payment Plan

WORLD'S LARGEST BUILDERS OF AMATEUR COMMUNICATIONS EQUIPMENT



The SKY BUDDY

The new SKY BUDDY is an amateur receiver in every respect, covering everything on the air from 44 mc. to 545 kc., including the 10, 20, 40, 80 and 160 meter amateur bands. It now employs the same electrical handspread system used in higher priced Hallicrafter models. The more important features are: Electrical handspread, broadcast Band, BFO, AVC switch, phone jack, pitch control, built-in speaker. For operation on 110 volts 50-60 cycles AC. For operation on 110 volt AC from 6 volt DC use No. 301 Electronic Converter. Dimensions 17½" x 8½" x 8½" high.

FEATURES

Six tubes. Tunes 10 meter band. Electrical handspread. Coverage and handspread from 545 kc. to 44 mc. DC operation socket—battery or vibrapack.

The SKY BUDDY (Model S19R)—Including tubes and speaker. Shipping weight 21 lbs..... (SKYBU) **\$2950**

Extra for Univ. 110-250 volts, 25-60 cycles..... **\$500**



The SKY CHAMPION



A 9-tube Communications receiver with preselection and built-in speaker, offering a quality of performance never before available at this price.

Has all of the essential controls for good amateur reception as follows: RF gain, tone control, phone jack, AVC switch, BFO switch, send-receive switch, audio gain, pitch control and 4-position band switch. Easily adapted to 6 volt operation with a Model No. 301 Electronic Converter.

FEATURES: 9 tubes. Complete coverage (545 kc. to 44 mc.). Inertia tuning. Separate electrical handspread. Beat frequency oscillator. Battery-vibrapack DC operation socket. Cabinet size—18½" long, 8½" high, 9¾" deep.

The SKY CHAMPION (Model S-20R)—**\$4950**
Shipping weight 32 lbs..... (SKYCN)

Extra for Univ. 110-250 volts, 25-60 cycles.... **\$500**

SM-20R carrier level meter..... **\$1000**

Available in U.S.A. on Hallicrafters Factory-Sponsored Time Payment Plan

**"The
SKYRIDER
23 Has
Everything"**



THE SX-23 is a truly fine example of outstanding engineering design, offering for the first time compensated frequency stability, eliminating drift. The main feature of the new bandspread system is its reset accuracy. There is no bandset dial to fuss with. The same station always comes in at the same place on the dial. The band indicator harmonizes with the S-DB meter, and is direct reading. Tubes—3-6SK7, 1-6SA7, 2-6SJ7, 1-6SQ7, 1-6B8, 1-6H6, 1-6F6C, 1-80. Controls, RF gain, pitch control, tone control, selectivity switch, A.N.L. switch, band switch, send-receive switch, audio gain, crystal phasing control, main tuning control and phone jack. Cabinet size—19" long, 9 1/4" high, 12 1/2" deep. For operation from 110 volt 50-60 cycle AC. For 110 volt AC operation from 6 volts DC use No. 301 Electronic Converter.

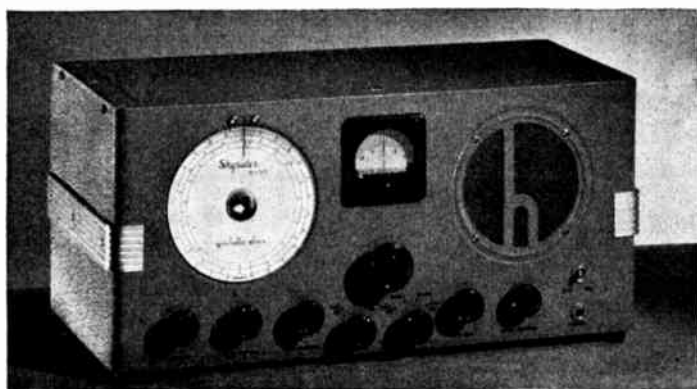
FEATURES

8 bandswitch positions. Bands 1-2-3-4 cover 545 kc. to 44 mc. continuously. Bands 5-6-7-8 are pre-set bandspread for the amateur 10, 20, 40 and 80 meter bands. ● Six-step variable selectivity. ● Improved noise limiter circuit. ● Frequency stability, both from temperature-humidity effects and from line voltage variations. ● "Venetian Blind" dial. Band indicator and S-DB meter. ● Completely shielded crystal circuit and phasing control—permeability tuned coil—with separate shield compartment for crystal.

The SKYRIDER 23 (Model SX23)—Complete with tubes and crystal. Shipping weight 56 lbs. (SKYNU) **\$11550**

The SKYRIDER 23 (Model SX23)—Complete with tubes, crystal, 10" PM 23 Speaker **\$12750**

Extra for Univ. 110-250 volts, 25-60 cycles..... **\$500**



**The
SKYRIDER
5-10**

Covers the radio spectrum from 27 mc. to 68 mc. in two bands with a degree of sensitivity and selectivity that is unparalleled. Band 1—27 mc. to 42 mc. Band 2—40 mc to 68 mc. Sensitivity of **BETTER THAN 1 MICROVOLT**. Socket on chassis for 6 volt mobile operation with the addition of a vibrapack or other suitable power supply. IF amplification—1600 kc. Tubes used—one each 1852, 6L7, 6J5, 6K7, 6P7G, 6F6G, 6H6 noise silencer and an 80. Built-in speaker.

Terminals are provided for an SM21 meter. For opera-

tion from 110 volts, 50-60 cycles, AC. Dimensions: 18 1/2" x 9 1/4" x 8 1/2" high.

The SKYRIDER 5-10 (Model S-21)—Complete with tubes and speaker. Shipping weight 34 lbs. (SKYRI) **\$6950**

SM-21 carrier level meter..... **\$1000**

For 110 to 250 volt operation, 25 to 60 cy., additional cost **\$500**

Available in U.S.A. on Hallicrafters Factory-Sponsored Time Payment Plan

BLILEY CRYSTAL UNITS

TYPE HF2 MOUNTED CRYSTAL FOR THE 10 AND 20-METER BANDS



A fully dependable crystal unit for the 10 and 20-meter amateur bands. Engineered by Bliley, this precision-ground crystal simplifies the construction of 5, 10 and 20-meter transmitters by reducing the necessary number of frequency multiplications to a minimum. In use, the HF2 Unit for 20-meters is directly applicable to conventional circuits. With the HF2 10-meter Unit, specifically

recommended for 5-meters, certain circuit considerations are necessary for maximum performance —for details, consult Engineering Bulletin E-6.

Type HF2—14.0 to 14.4 MC., drift +20 cycles mc./°C., within 15 KC. of specified frequency*.....Net	\$5.75
Within 5 KC. of specified frequency.....Net	\$10.00
14.4 to 15.0 MC., drift +20 cycles/mc./°C., within 30 KC. of specified frequency*.....Net	\$5.75
Within 5 KC. of specified frequency.....Net	\$15.00
28.0 to 30.0 MC., drift +43 cycles/mc./°C., within 50 KC. of specified frequency.....Net	\$5.75

*Or choice from dealer's stock.

TYPE B5 MOUNTED CRYSTAL FOR THE 20 AND 40-METER BANDS



The type B5 low-drift crystal unit offers high frequency stability at a reasonable cost. This complete unit, consisting of the precision-ground crystal and its compact low-loss holder, is thoroughly engineered and has a drift of less than ± 4 cycles/mc./°C.

The B5 Unit for 40-meters possesses high activity and a comparatively large power handling capacity. For 20-meters, it has less than 1/5 the frequency drift of the type HF2 Unit with only a small decrease in relative activity and power output.

Type B5—7.0 to 7.3 MC., within 5KC. of specified frequency* .....Net	\$4.80
Frequency to exact integral specified KC's.....Net	\$5.90
14.0 to 14.4 MC., within 15 KC. of specified frequency* .....Net	\$7.50
Within 5 KC. of specified frequency.....Net	\$12.00
14.4 to 15.0 MC., within 30 KC. of specified frequency* .....Net	\$7.50

*Or choice from dealer's stock.

TYPE BC3 MOUNTED CRYSTAL FOR THE 40, 80 AND 160-METER BANDS

Thoroughly reliable in every respect, this economically priced crystal unit has found wide favor with amateurs throughout the world. The accurately cut crystal is an active oscillator and has a drift of only 23 cycles/mc./°C. Heat, developed by the crystal during oscillation, is dissipated by the stainless-steel holder cover-plate. This design assures greatest stability by limiting the temperature rise of the crystal.

Type BC3—within ± 5 KC. of specified frequency in the 40 or 80-meter bands*. —drift.

NET **\$3.35**

Within ± 10 KC. of specified frequency in the 160-meter band. (+) drift.
NET **\$3.35**

At exact integral specified KC's. in the 40 or 80-meter bands.
NET **\$4.95**

*Or choice from dealer's stock.



TYPE LD2 MOUNTED CRYSTAL FOR THE 80 and 160-METER BANDS

The type LD2 Unit is a mounted, precision low-drift crystal for the 80 and 160-meter amateur bands. The crystal is carefully cut from selected Brazilian Quartz, lapped to exacting limits, accurately calibrated and rigidly tested. It possesses high activity and has a frequency drift of less than ± 4 cycles/mc./°C. The mounting is low-loss molded Bakelite with the crystal held under constant spring pressure between two stainless-steel electrodes. The unit plugs into any standard 5-prong tube socket and may be mounted in any position.

Type LD2—Within 5 KC. of specified frequency or choice from dealers stock.

NET
\$4.80

Supplied to exact integral specified KC's.

NET
\$5.90

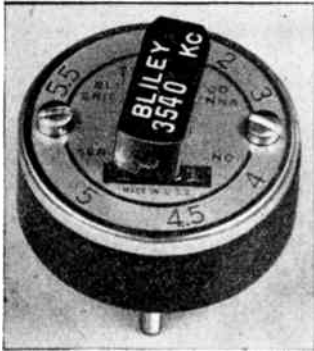


Engineering Bulletin E-6, FREQUENCY CONTROL WITH QUARTZ CRYSTALS, should be read by every engineer, amateur or experimenter interested in frequency control or the measurement of radio frequencies. Price, 10c per copy (Canada 15c).

BLILEY CRYSTAL UNITS

VARIABLE FREQUENCY CRYSTAL UNIT

TYPE VF1



Pat. No. 2,079,540

Enjoy clear channels with a variable frequency crystal unit. By a mere twist of the control knob, your station frequency is continuously variable up to 6 KC. with the 80-meter unit or 12 KC. with the 40-meter unit. When frequency multiplying, the variation is proportionately increased.

The specially ground crystal has a drift of less than ± 4 cycles/mc./°C. and an activ-

ity only slightly less than that of corresponding fixed-frequency crystals. With the average transmitter, no changes in tuning will be required over the entire adjustable range of the VF1 Unit.

Type VF1—Within 5 KC. of specified minimum frequency in the 80-meter band.....	Net	\$6.60
Minimum frequency at exact integral specified KC's., in the 80-meter band.....	Net	\$8.50
Type VF1—Within 15 KC. of specified minimum frequency in the 40-meter band.....	Net	\$6.60
Within 5 KC. of specified minimum frequency in the 40-meter band.....	Net	\$8.50

CALIBRATOR CRYSTAL UNIT

TYPE SMC100

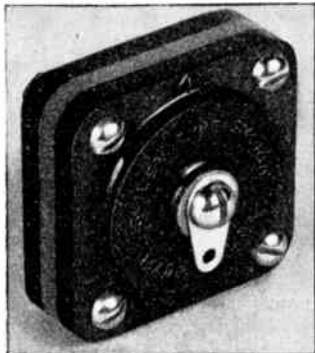
The type SMC100 Crystal Unit offers a simple means for constructing a flexible, inexpensive frequency standard. Its dual-frequency feature is advantageous for rapidly checking the calibration of radio receivers, test oscillators, signal generators or amateur monitors. Radio servicemen will find a frequency standard using a type SMC100 Unit to be an invaluable servicing instrument.

By shunting a small variable condenser across the crystal, the 100kc. frequency can be adjusted to exact value at normal room temperatures. The 1000kc. frequency is correct within $\pm .05\%$.

Type SMC100—100 KC.—
1,000 KC. mounted crystal.

NET

\$7.75

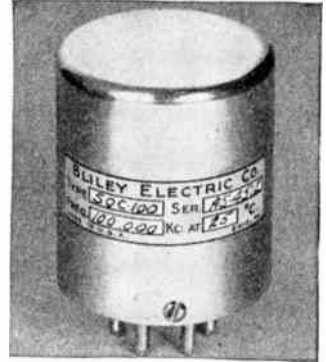


STANDARD FREQUENCY CRYSTAL UNIT

TYPE SOC100

A 100 KC. mounted crystal of high precision designed for use in frequency standards. This unit, in a simple circuit, provides reliable accuracy for calibration of frequency meters, test oscillators, radio receivers, or for frequency measurements in general.

The rigidly mounted crystal has a frequency-temperature coefficient of less than ± 3 cycles/mc./°C., which value is sufficiently low that temperature control is not necessary for general practice. Included in the aluminum shielded mounting is a tank coil of the proper characteristics for use with this crystal. The complete unit plugs into any standard 5-prong tube socket and may be mounted in any position. Circuit instructions furnished.



Type SOC100	Net	\$15.50
Type SOC100, calibrated at specified oven temperature	Net	\$21.00
Type SOC100X—Mounted 100 KC. X-cut bar, (no tank coil included)	Net	\$9.50

BLILEY CRYSTAL FILTER

TYPE CFI

A high-frequency receiver is not complete unless it incorporates a quartz crystal filter. Only through the use of an effective intermediate-frequency filter is it possible to obtain the high degree of selectivity necessary for modern communications.

The Bliley CFI Crystal Filter Unit, with its high Q and freedom from spurious responses, assures maximum selectivity and minimum signal loss. Each crystal is carefully ground to frequency and rigidly tested in equipment simulating actual receiver conditions. The low-loss Steatite holder plugs into any standard 5-prong tube socket.

Type CFI — for 456 KC.,
465 KC. or 500 KC. I.F.

NET

\$5.50

For 1600 KC. I.F.

NET

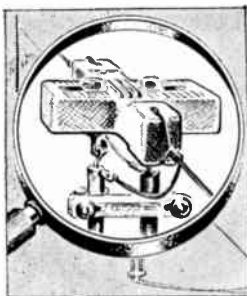
\$9.50



Bliley General Communication Frequency Crystals and Mountings are manufactured for all frequencies from 20 KC. to 30 MC. Quotations or recommendations will gladly be extended upon receipt of detailed information concerning your requirements.



THE JOHNSON "Q" AND JOHNSON "Q" BEAM



The phenomenal results obtained by the thousands of users of the Johnson Q antenna system are due to the extremely high efficiency of this famous antenna. The tremendous increase in the percentage of radio frequency energy radiated over that of an ordinary antenna results in a great increase in effective power. Applications include half-wave doublet, either horizontal or vertical, harmonic or "long wire" radiator, radiator-reflector, radiator-director, "V" Beam, Johnson Q Beam and others. Write for Antenna Bulletin 105 describing and giving construction data on these many types. In all of these applications the following advantages are realized.

Advantages of the Q System:

1. Greater radiation from the same transmitter power than can be obtained with ordinary non-matched feeder systems.
2. Matched impedances throughout—no standing waves on transmission line.
3. Permits use of open wire line resulting in exceptionally low transmission line loss—less than 1/10 that of the best "twisted pair" lines.
4. No exact or critical overall line lengths. Line may be several hundred feet long if desired.
5. Permanent low loss construction. Glazed porcelain insulation—no weathering.
6. Easily installed and adjusted—complete data supplied.

A special "Q" for 5 meters uses aluminum tubing for the radiating portion as well as for the matching section. It may be used in the conventional manner or mounted directly on the transmitter case being self-supporting when used in this manner. The 5QM is a special model using mycalex instead of porcelain. Kits are supplied complete, less end insulators and transmission line material. Regular kits contain enough copperweld wire for half-wave installation. For other applications order the amount of No. 350 copperweld wire needed in excess of 1/2 wave. Wire will be supplied in one piece. Q and QS units are identical except that the latter are supplied with the quarter wave aluminum sections in straight lengths and are consequently easier installed.

The Q Beam is a special application of the Q system. It consists of two half-wave Q antennas spaced 1/2 wave and Q sections connected in parallel at the bottom. Flat-top connections at the suspension insulators are so connected as to feed the radiators 180° out of phase. Transmission line used must be 600 ohms.

Advantages of the Q Beam:

1. Two band operation with matched impedances on both bands. (Bands must be adjacent and harmonically related.)
2. 4 db gain on fundamental—6 db on second harmonic.
3. Wide effective radiation pattern—60° on fundamental—45° on second harmonic.
4. Requires small installation space.
5. Requires no adjustment when changing bands.

In ordering, order two QS antennas for the lower frequency or the two bands desired. Any of the Q applications may be used in television transmission and reception. Transmission lines should be made up using the No. 31 transposition insulators shown below. A 6 1/2' Q using same construction as the 5Q is supplied for the 40-56mc frequencies and the 5 meter unit can be cut for those above 60 mc.

COMPLETE "Q" SYSTEMS

Cat. No.	Band (Meters)	Code Word	List Price
5Q	5	QUAD	\$ 7.00
5QM	5	QUASH	10.00
6 1/2' Q	TELEVISION	QUOAZ	9.75
10Q	10	QUAY	7.85
10QS	10	QUANAT	8.65
20Q	20	QUEEN	12.25
20QS	20	QUNOR	14.50
40Q	40	QUERY	22.60
40QS	40	QUNUS	26.00
80Q	80	QUID	42.00

"S" indicates straight tubing.

ALUMINUM "Q" TUBING

Cat. No.	Lengths	Band	Code Word	List Price
ST5	2 - 4' 3"	5	QUPAT	\$ 2.45
CT10	2 - 8' 6"	10	QUICK	3.85
ST10	2 - 8' 6"	10	QUPEN	4.20
CT20	2 - 17'	20	QUIRE	7.15
ST20	4 - 8' 6"	20	QUIPW	9.20
CT40	2 - 34'	40	QUIRT	15.00
ST40	8 - 8' 6"	40	QUPOX	18.40
CT80	2 - 68'	80	QUIPS	30.00

"ST" indicates straight tubing; "CT", coiled tubing.

ENAMELLED COPPERWELD ANTENNA WIRE



Johnson Enamelled Copperweld Antenna Wire is the ideal material for transmitting doublets, directional antenna systems, or any applications where the wire must not stretch nor sag. Combines the desired characteristics of very low R. F. resistance, freedom from corrosion, and almost three times the strength of ordinary enamelled copper wire. Prices are per 100 ft.

Cat. No.	B&S Gauge	Feet per Lb.	Breaking Strength	Code Word	List Price
346	8	22	1700 lbs.	QUOD	\$4.25
348	10	34 1/2	1130 lbs.	QUAIL	2.75
350	12	54	720 lbs.	QUAKE	1.90
352	14	85	400 lbs.	QUOTA	1.25

STRAIN INSULATORS



30-32



38

The No. 32 Airplane Strain Insulator is useful for light guys and receiving antennas. No. 30 is a new insulator similar to No. 32 but 2" long for heavier service. The No. 38 "Cruciform" Strain Insulator is especially designed for R. F. uses, having low capacity, long leakage path, light weight. All are of white glazed low absorption porcelain.

Cat. No.	Length	Code Word	List Price
30	2"	ANOAB	\$.10
32	1 1/2"	ANEW	.07
38	1 1/2"	ANIL	.15

FEEDER SPREADERS



Three lengths, for every amateur transmitter and receiver requirement. No. 132 also has notches for 1 1/2" line spacing. Cross-section 3/8" x 1/2". High grade low absorption glazed porcelain.

Cat. No.	Length	Code Word	List Price
132	2"	FEINT	\$.15
134	4"	FELON	.20
136	6"	FEMUR	.25

TRANSPOSITION INSULATORS



A patented insulator of high grade, non-absorbent white glazed porcelain. Easy to install, does not make a twist in the line, promotes highest efficiency for receiving or transmitting. Provides 2" line spacing.

No. 31 Transposition Insulator, Code FERRY. List Price \$.15

"Q" SUSPENSION ASSEMBLY

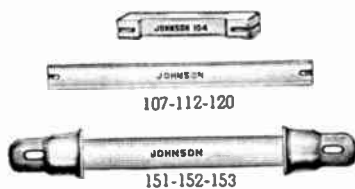
Includes No. 106 Antenna-Feeder Insulator and all necessary hardware for connecting "Q" tubing to insulator and transmission line. Insulator may be used with "Zepp" feeders permitting them to be brought off at any angle with equal tension on both. No. 39 Suspension Assembly, Code QUPUY. List Price \$1.90



106

No. 106 Antenna-Feeder Insulator only, Code ANNAM. List Price \$.60

ANTENNA INSULATORS



These insulators are of genuine WET PROCESS porcelain, with smooth white glazing. The all-porcelain types are 1" in diameter. Their long leakage path, low capacity, and freedom from moisture absorption result in exceptional efficiency. The Commercial Type is 1 1/2" in diameter, for uses where much greater strength is necessary. End fittings are of non-corrosive aluminum alloy. No. 104 is a dry process 4" antenna insulator, 3/8" square for service where the strength of the 1" types is not required.

Cat. No.	Length	Code Word	List Price
104	4"	ANOEC	\$.20
107	7"	ANNUL	.70
112	12"	ANNEX	.90
120	20"	ANTE	1.50

Cat. No.	Net Length	Code Word	List Price
151	8" 15 1/4"	ANISE	\$ 9.00
152	12" 19 1/4"	ANNYO	10.75
153	20" 25 1/4"	ANON	15.00

"Q" SPACING BARS

Made of dense, highly vitrified white glazed porcelain, with aluminum tubing clamps. No. 33 Spacing Bar, Code QUIET.

List Price \$.30



E. F. JOHNSON Company

WASECA, MINNESOTA

TUBE SOCKETS

"The World's Most Famous Tube Sockets," a title earned over years of top quality in material, workmanship and design, cover nearly every transmitting tube requirement. Johnson sockets are specified by exacting users wherever conditions are most severe, as in Government services.

No. 209 is similar to No. 210 but provides greater spacing between contacts and shell, for higher voltages. No. 211, the standard "50 watt" socket, has double filament contacts for carrying heavy currents. No. 216 is for "jumbo 5 prong" tubes such as 803 and RK28. No. 215 is for "250 watt" tubes such as 204A, 849, etc., and features a plate terminal "safety cup." 210F and 211F are for front of panel mounting and are enclosed in lustrous black finished aluminum housings.

EIMAC 152TL and 304TL tubes take the new 213 socket, and EIMAC 1500TH etc., take the new 214 (with air jet for cooling filament seal)

All contacts are heavy, side wiping type, phosphor bronze, with choice of beryllium copper in most cases; shells, where used, are heavy brass, nickel plated; bases of excellent white porcelain, with steatite (Gov't grade G) optional.



209-210-211-216



213-214

Cat. No.*	Base	Code Word	List Price
209	"UX"	SOPED	\$0.95
209B	"UX"	SOPIG	1.10
209S	"UX"	SOPOH	1.85
209SB	"UX"	SOPUJ	2.00
210	"UX"	SOLUS	.85
210B	"UX"	SOPAC	1.00
210F	"UX"	SOOT	2.50
211	"50 watt"	SOLE	1.25
211B	"50 watt"	SOLIV	1.60
211S	"50 watt"	SONOW	2.70
211SB	"50 watt"	SONUX	3.00
211F	"50 watt"	SORRY	3.50
213	"Eimac"	SOSAO	1.50

Cat. No.*	Base	Code Word	List Price
214	"Eimac"	SOSEB	\$2.50
215	"250 watt"	SOLIF	3.50
216	"5 prong"	SOAR	2.50
216B	"5 prong"	SORAK	3.00
216S	"5 prong"	SOREL	4.25
216SB	"5 prong"	SORIM	4.75

*Explanation of catalog number: No letter suffix indicates standard construction; i.e., porcelain base, phosphor bronze contacts. Letter B indicates Beryllium Copper contacts; letter S indicates Steatite base.

WAFER SOCKETS



217-224-225-226-227-228



237-247



235

Johnson ceramic wafer sockets are insulated with steatite (Gov't grade G, wax impregnated) making them excellent for use at high and ultra-high frequencies. Contacts are cadmium plated, reinforced with cadmium plated steel springs, recessed in the form to prevent movement. All metal parts are counter-sunk and mounting holes bossed to permit mounting on metal panel without shorting.

No. 235 acorn socket has silver plated beryllium copper contacts mounted on bosses providing low leakage paths. No. 237 is a socket for the HK 257 and RCA 813 tubes and No. 247 for the RCA 829 and 832 tubes is similar, with an aluminum tube shield.

Cat. No.	Base	Code Word	List Price
224	4 prong	SOMFC	\$.55
225	5 prong	SOMID	.60
226	6 prong	SOMOF	.60
227	7 pr. large	SOMUG	.65
217	7 pr. Small	SOMAB	.65

Cat. No.	Base	Code Word	List Price
228	Octal	SONAH	\$.70
235	Acorn	SONEU	1.25
237	7 prong	SORON	1.25
247	7 prong	SORUP	1.75

SHAFT COUPLINGS



Flexible coupling units insulated with Ultra-steatite are available in two sizes, No. 250, 1 3/8" diameter and No. 251, 2 1/4" diameter. Flexibility is obtained by cadmium plated phosphor bronze spring with no backlash.

No. 252 is a solid insulated coupling of Ultra-steatite for use where high quality insulation is desirable. Takes 1/4" shaft at either end. So designed to have extremely long leakage path in proportion to length.



No. 258 is a cadmium plated brass compression shaft coupling. Will not burr shaft. Much stronger than set screw type.



Cat. No.	Shaft	Diameter	Code	List Price
250	1/4"	1 3/8"	CULAB	\$ 1.80
251	3/8"	2 1/4"	CULEC	1.40
251A	1/4"	2 1/4"	CUNUM	1.40
251B	1/4" & 3/8"	2 1/4"	CUPAN	1.40
252	1/4"	1 3/8"	CULID	.75
258	1/4"	1/2"	CUNOL	.15

FLEXIBLE SHAFTS



Phosphor bronze, non rusting, with 1/4" hubs. Permit out-of-line or up to 90° angular control.

Cat. No.	Length	Code	List Price
253	3"	CULOF	\$0.35
254	4"	CULUG	.50

PANEL BEARINGS

Cadmium plated brass, for 1/4" shaft and up to 3/8" panels. Also with 3/8" and 6" cadmium plated brass shafts.



Cat. No.	Code	List Price
255 Panel Bearing	CUNAH	\$0.15
256 Bearing and 3" shaft	CUNEJ	.30
257 Bearing and 6" shaft	CUNIK	.40

INDUCTOR CLIPS

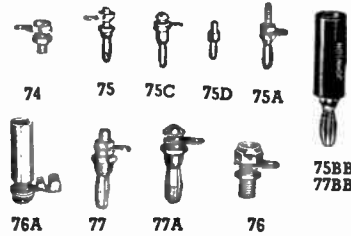


Phosphor bronze cadmium plated, with clamping screw and integral solder loop. The only clip taking wire from No. 20 to No. 10, without danger of tilting and shorting adjacent turns.

No. 860—Clip. Code: CLIAB.....List \$0.10

PLUGS AND JACKS

"Banana Spring" Type

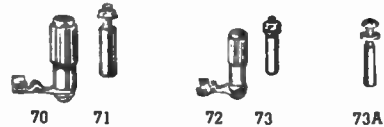


Nickel-silver springs, and high-grade nicked brass screw machine parts with accurate threads and milled nuts. Studs extend full length of springs. 75C is a tapped plug with 1/8" 6-32 machine screw in head. 75D is designed for riveting or soldering. Spring is of beryllium copper. 75BB has 1" black insulated handle; 75BR same but red. 77BB has 1 1/2" black insulated handle; 77BR same but red.

Cat. No.	Body	Thread	Code Word	List Price
74 Jack	5/8"	15"x1/4"-28	SMOKE	\$0.06
75 Plug	3/4"	3/8"x6-32	SMALL	.07
75A Plug	3/4"	3/4"x6-32	SMOLT	.07
75BB Plug	3/4"	1" handle	SMUAR	.15
75BR Plug	3/4"	1" handle	SMUES	.15
75C Plug	1"	6-32 screw	SMOPE	.08
75D Plug	5/8"	15"x1/4"-28	SMOQI	.08
76 Jack	1 1/4"	15"x3/8"-24	SMEAR	.25
76A Jack	1 3/8"	1/4"-20 screw	SMUG	.25
77 Plug	1 1/8"	5/8"x1/4"-28	SMELL	.20
77A Plug	1 1/8"	10-32 screw	SMILE	.25
77BB Plug	1 1/8"	1 1/2" handle	SMUIT	.35
77BR Plug	1 1/8"	1 1/2" handle	SMUOV	.35

*Overall length.
**Hollow rivet shank .135" dia.

"Spring-Sleeve" Type



These jacks have maximum current carrying capacity, minimum resistance, great mechanical strength, and snug fit. Tension is maintained by phosphor bronze "spring sleeves."

Cat. No.	Body	Thread	Code Word	List Price
70 Jack	1 1/2"	1/4"-20 screw	SMITH	\$0.35
71 Plug	1 1/8"	1/2"x1/4"-28	SMART	.14
72 Jack	1 1/8"	10-32 screw	SMASH	.25
73 Plug	1 1/8"	1/4"x10-32	SMACK	.07
73A Plug	1 1/8"	10-32 screw	SMASH	.07

TUBE CAPS



Tube caps of phosphor bronze, cadmium plated, for transmitting use. Provide positive grip and low resistance contact.

Cat. No.	Code	List Price
852—Medium, for 802, etc.	SMUUY	\$0.05
854—Large, for 866, etc.	SMEIS	.10



Cat. No.	Code	List Price
880—1/4" long, 6/32" hole	SMOOR	\$0.40
881—3/8" long, 1/4" hole	SMOUS	.53
882—1/2" long, 3/8" hole	SMUAT	1.25
883—3/4" long, No. 10 hole	SMUEV	1.85
884—1" long, No. 10 spade	SMUIW	2.05
885—1 1/4" long, 1/4" hole	SMOUX	3.25

WIRELESS INSTRUMENTS

SIGNAL

MANUFACTURERS OF ELECTRICAL APPLIANCES

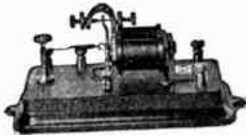
TELEGRAPH INSTRUMENTS



**112-K
KEY**

This key is designed for learners who want something that is scientifically correct but moderate in price. Has black enamel metal base and is mounted on a mahogany finished wood base. Key lever is nickel plated. Contact points are platinor.

List \$2.50



PONY RELAY

All the metal parts on this pony relay are brass with lacquer finish, excepting armature which is polished and plated steel. Magnets are non-adjustable. Mounted on a mahogany finished wood sub base and cast iron black enamel base.

	List
M-104—4 Ohm	\$6.50
M-105—20 Ohm	6.75
M-106—50 Ohm	7.00
M-107—75 Ohm	7.25



**R-48
KEY**

The beginner in the field of wireless approves this 1/4 K. W. Key for its desirability and inexpensiveness. It is well made with polished key lever and lacquered parts. Contact points are platinor.

List \$2.80

R-68 PRACTICE SET



Designed for those who want a well made instrument to learn the code. Set consists of a key and high frequency buzzer mounted on a mahogany finished wood base equipped with binding posts. The code is printed on a plate and fastened to the base between the key and buzzer. Buzzer is adjustable.

List \$3.40

R-60 BUZZER



The R-60 high frequency buzzer is the same type used on the R-68 Wireless Practice Set. It is adjustable and has a standard resistance of 2 Ohms. Finish is black crystallized lacquer.

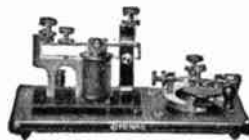
List \$1.25



SOUNDER

The tone quality and instant action of this correctly designed sounder are well and widely known. All adjustments are simple and accurate. Bar frame is black enamel and has an aluminum sounding bar, brass bridge and black lacquered steel sounder plate. It is mounted on a mahogany finished wood base equipped with binding posts.

	List
112-S—4 Ohm	\$3.50
113-S—20 Ohm	3.75



LEARNER SET

On city, private and short lines learners will find this instrument easy to handle and having a clear, distinct tone. Bar frame and key base are black enamel, the bridge is brass, sounding bar is aluminum with black lacquered steel sounder plate. Key lever is nickel plated. Sounder and key are mounted on a mahogany finished wood base.

	List
M-110—4 Ohm	\$5.75
M-111—20 Ohm	6.00



STANDARD KEY

This standard wireless key is designed to carry heavy currents. All brass construction with lacquer finish. Furnished with 3/16, 1/4 or 3/8-inch coin silver contacts. Navy type key knob.

	List
R-62—3/16" contacts	3.50
R-63—1/4" contacts	3.60
R-64—3/8" contacts	3.85

R-70 TWIN PRACTICE SET



In this practice set is represented value that appeals to the beginner. Set includes two R-69 instruments, 75 feet of wire and instruction manual packed in an attractive, illustrative box.

List \$3.75

**M-100
KEY**



For rapid transmitting this key is preferred by skilled operators and beginners. The base, equipped with binding posts, is brass with a lacquer finish. Key lever is nickel plated. Furnished with platinor contact points.

List \$3.00

COMMERCIAL RELAY



The commercial relay is well designed and constructed for long, continuous service on commercial lines. Heel iron and armature are made of Norway iron. Has rubber covered adjustable coils. Mounted on mahogany finished wood sub base and cast iron black enamel base.

	List
916—150 Ohm	\$12.50
917—250 Ohm	12.75

**KEY
R-50**



For the amateur who wants an inexpensive, high grade wireless key, here is the proper instrument. It is equipped with a heavy, cast, well insulated base in a black finish, coin silver contacts, composition knob and nickel parts.

List \$1.50

R-69 PRACTICE SET

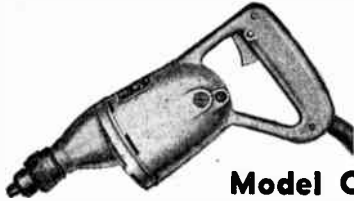


The R-69 Practice Set is for those who want an inexpensive instrument. Consists of a key lever, non-adjustable buzzer and code plate mounted on a metal base equipped with binding posts and rubber feet. Has maroon finished base and gold lacquered key lever and buzzer cover.

List \$1.75

ELECTRIC • SIGNAL • DRILLS

1/4" Light Duty

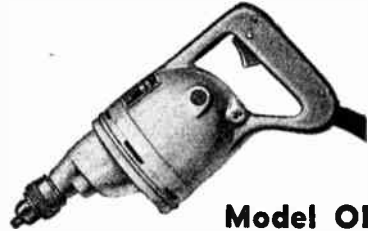


Model OB-8

\$19.50 List

The OB-8 light duty drill is designed for intermittent service. It is a good, high quality product, properly balanced, with an air-cooled handle having a comfortable grip. Light in weight, it is especially adaptable for radio repair work, wood and metal assembly, airplane construction, boat building and kindred applications.

1/4" Standard Duty

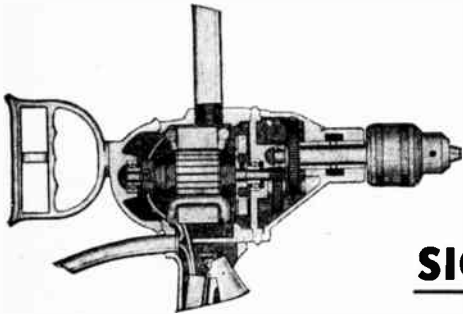


Model OB-4

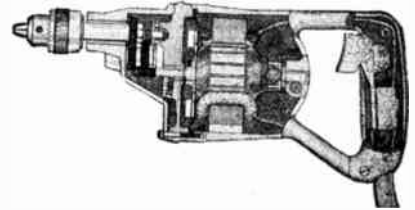
\$24.50 List

For general maintenance, construction and building work the OB-4 standard duty drill will give dependable service. It is popular with electricians, carpenters, machinists and repairmen. It has an abundance of power developed by a smooth-running universal motor. It is well balanced, has a comfortable grip and air-cooled handle.

Inside Views

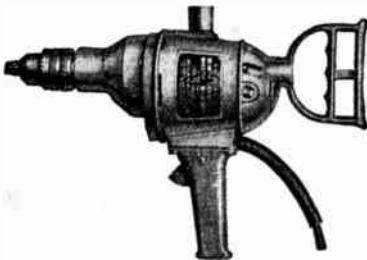


of



SIGNAL DRILLS

1/2" Standard Duty



Model OB-5

\$47.50 List

This standard duty half-inch drill has everything a good drill should possess—lots of power, proper speed, light weight, durability, high quality construction and correct balance. For general production, garage, machine shop and maintenance work where a drill receives hard use, it is recommended. Contractors, plumbers, electricians, and others will find it can be depended upon to give efficient service at all times. Attractively priced, this drill has established for itself a fine reputation that is recognized by users and distributors alike.

SPECIFICATIONS

Motor: Universal for direct or alternating current, 110-120 volts, 25-60 cycles.

	OB-8	OB-4	OB-5
Code Word	SEMED	SEMEB	SEMEC
List Prices (110-120 volts)	\$19.50	\$24.50	\$47.50
Special Voltages	10 percent addition list.		
Overall Length	12"	12 3/4"	16 1/2"
Bearings	Bronze wool packed with thrust ball spindle bearing.		Armature and spindle thrust high grade ball.
Capacity	1/4"	1/4"	1/2"
Speed (No load R.P.M.)	2950	1700	400
Amperes (No load)	1.0	.9	1.8
Switch	Trigger type with lock for continuous operation.		
Cord Length	5 feet	8 feet	15 feet
Net Weight	5 1/2 lbs.	7 1/4 lbs.	14 lbs.
Shipping Weight	7 lbs.	8 lbs.	16 lbs.
Pipe Handle	Detachable		
Cord	Heavy duty, rubber covered with rubber cord protector.		
Plug	Rubber.		
Brushes	Accessible from outside.		
Gears	Special alloy, heat treated.		
Housing	Durable aluminum alloy.		
Chuck	Almond, 3-jaw, with key.		

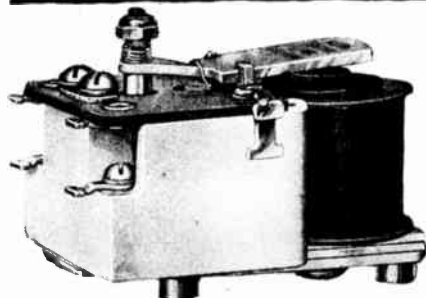
ALLIED



RELAYS



**Fully
Guaranteed**



TYPE P.C. RELAY

COILS—Impregnated. Navy type on special order.

PLATING—Cadmium.

DIMENSIONS—Over-all: $2\frac{5}{16}$ " long x $1\frac{1}{2}$ " high x $1\frac{1}{8}$ " wide.

CONTACT RATING—5 amperes of non-inductive A.C. at 110V A.C. Not to exceed 10 operations per minute.

PLATE CIRCUIT TYPES—The 2500 ohm P.C. 1 can be set to pull in from 6 to 8 mills and to drop out at 3 to 5 mills. The 5000 ohm, P.C. 2, will pick up at 2 to 3 mills, and drop out at 2 to $1\frac{1}{2}$ mills.

STANDARD STOCK TYPES are available in standard voltages, A.C. and D.C., as shown in our Relay Data sheet. Coils for any voltage between 1 and 220V A.C. and 5 and 125V D.C. can be had in lots of 100 or more without extra charge. For quantities of less than 100, an additional charge will be made for winding the coils.

DOUBLE POLE-DOUBLE THROW—The D.P.D.T. contacts are insulated from frame. They can be supplied in all the relays listed below. See price list for extra charge.

ALLIED P.C. TYPE RELAYS—Are being used in quantities in a wide variety of applications, such as burglar and fire alarm, radio receivers and transmitters, inter-communications equipment, public address systems, test instruments, photo-electric devices, electronic switches, timers, small motor starting, etc.

Type	Operating Volts		Contacts	Net Price
	A.C.	D.C.		
P.C. 1		Plate circuit	S.P.D.T.	\$1.10
P.C. 2		Plate circuit	S.P.D.T.	2.15
P.C. 3	6.3		S.P.D.T.	1.25
P.C. 4	110		S.P.D.T.	1.35
P.C. 6		4-6	S.P.D.T.	.94
P.C. 7		10-12	S.P.D.T.	.94
P.C. 8		24	S.P.D.T.	.94
P.C. 9	24		S.P.D.T.	1.25
P.C. 10		110	S.P.D.T.	1.10
P.C. 11		220	S.P.D.T.	2.15

P.C. types in D.P.D.T.—ADD \$0.50 TO S.P.D.T. PRICES

Copyright by U. C. P., Inc.

TYPE D RELAY

COILS have heavy protective wrap and are vacuum impregnated. Navy type coils available.

CONTACT SECTION—New type construction giving equal distribution of pressure on all contacts. Current is not carried on actuating springs.

MOUNTING—Special metal brackets of ungrounded construction.

PLATING—Nickel and cadmium.

CONTACT RATING—10 amperes of non-inductive A.C. at 125 volts. Also special contacts for dynamotor starting with ratings up to 30 amperes continuous on 6 and 12 volt battery D.C.

DIMENSIONS— $2\frac{1}{4}$ " long x $2\frac{5}{8}$ " high x $2\frac{1}{4}$ " wide.

USES—Police, Aircraft and Marine Radio applications such as antenna transfer, filament control and dynamotor starting. Alarm and signal devices. A.C. types for general industrial control applications.

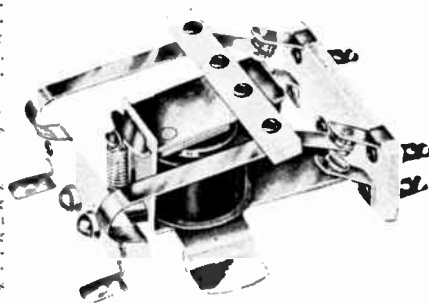
Type	Operating Voltage			Net Price
	A.C.	D.C.		
D. 1		4-6	D.P.D.T.	\$2.15
D. 2		10-12	D.P.D.T.	2.15
D. 3	6.3		D.P.D.T.	2.50
D. 4	110		D.P.D.T.	2.50
D. 5		4-6	S.P.D.T.	2.35
D. 6		10-12	S.P.D.T.	2.35

HIGH FREQUENCY RELAYS

APPLICATION—Antenna change-over; Switching of band, crystal, or tank circuits, etc.

COILS—Impregnated, continuous duty.

CONSTRUCTION—All parts plated; Alsmag insulation with wide spacing throughout. Double pole, double throw contacts with ample wip and high contact pressure. One quarter inch fine silver rivets. Standard "Allied" mounting bracket. Size: $3\frac{3}{4}$ " x $2\frac{1}{2}$ " x $1\frac{3}{4}$ ".



Type	Operating Voltage		Net Price
	A.C.	D.C.	
H. 1		6V D.C.	\$3.25
H. 2		12V D.C.	3.25
H. 3		125V D.C.	3.25
H. 4		6V A.C.	3.25
H. 5		12V A.C.	3.25
H. 6		125V A.C.	3.25

NOTE: A smaller relay, type IIR, similar to the above, is also available. Dimensions: $2\frac{1}{4}$ " x $1\frac{5}{8}$ " x $1\frac{5}{8}$ ". Prices same as the H type relay. Type IIR, similar to IIR, has 3P-D.T. contacts. Price \$0.75 extra

ALLIED

CIRCLE SENSITIVE RELAY



The CIRCLE line of relays are highly sensitive on A.C. They are exceedingly rugged and develop unusually high contact pressure and wipe. Another unique feature is that they can be made in Double Pole Double Throw.

CIRCLE relays are precision made and are assembled on a moulded bakelite base which can easily be utilized for front or back connections on panel board mounting. The magnetic structure is of a special heat treated alloy, and the novel hinge arrangement using a stainless steel pin with brass bearings assures long life under the most severe operating conditions.

Applications—Most suitable for thermal regulators, electronic devices, ultra sensitive control circuits; in low current supervised circuits such as burglar and fire alarms, voltage control circuits, keying, timing devices, etc.

SPECIFICATIONS

	A.C.	D.C.
SENSITIVE		
Operating Characteristics—	As low as 1 mill at 110V 60 cycles with a 50% drop out value.	As low as .012 watts with 80% drop out value.
Coils—	1 volt to 220 volts 300% overload. Vacuum impregnated.	1 volt to 220 volts 150% overload. Vacuum impregnated.
Contact Rating—	1 amp at 48V D.C.	1 amp at 48V D.C.
Contact Arrangement—	5 amps at 110V A.C.	5 amps at 110V A.C.
	S.P.D.T. and D.P.D.T.	S.P.D.T. and D.P.D.T.
Dimensions—	2 3/4" wide x 2 3/4" long x 1 3/4" high.	
General—	Relays adjustable throughout. Furnished with Bakelite Base.	
Contacts—	Coin silver on standard models. Special contacts to specification.	
KEYING	Built to specifications. Will operate up to 1000 cycles per minute. This line is a variation of the above sensitive type.	

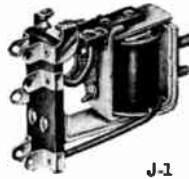
PRICES

Type No.	Operating Voltage	Net Price
BD330	S.P.D.T. 1—5 V D.C.	\$5.75
BD338	S.P.D.T. 6—20 V D.C.	5.75
BA324	S.P.D.T. 3—10 V A.C.	5.75
BA342	S.P.D.T. 90—150 V A.C.	5.75
CA342	S.P.D.T. Plate Circuit 1 mill	5.75
CA344	S.P.D.T. Plate Circuit 0.25 mill	7.75
DD344	S.P.D.T. Hi Speed Keying Relay	8.90

For D.P.D.T. Add \$3.00 to Net Price

CIRCLE RELAYS

J TYPE RELAYS



J-1



J-2



J-3

Our "J" relays were designed especially for applications where small space and resistance to vibration are important requirements. They are built primarily for Army, Navy, and Aircraft applications.

Type No. J-1 is designed to offer minimum base mounting area. All lugs are on the panel where they are readily accessible for soldering. This relay is available with contacts from S.P.S.T. to D.P.D.T. Series type contacts can be supplied in S.P.D.T. All contacts are insulated from frame. 1 1/2" high, 1 1/8" wide, and 1 3/8" length.

Type No. J-2 is available in S.P.S.T. to S.P.D.T. On standard models contacts are not insulated from frame. 5/8" high, 1 1/2" wide, and 1 3/8" length.

Type No. J-3 is available in S.P.S.T. to S.P.D.T. Contacts are not insulated from frame on standard models. 1" high, 1" wide, and 1 1/2" length.

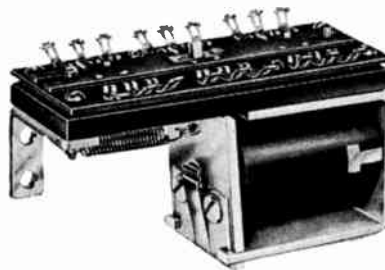
Coil Voltage: D.C.— 1 to 40 volts; A.C.— 6 to 110 volts.

Contact Rating: 5 amperes at 110 volts 60 cycle A.C. non-inductive load.

PRICES

J-1	Net	J-2	Net	J-3	Net
D.P.D.T.	\$3.50	S.P.D.T.	\$2.50	S.P.D.T., D.C.	\$1.10
S.P.D.T.	3.25	Insulated		S.P.D.T., A.C.	1.35
D.P.S.T.	3.00	Armature	3.00	Insulated	
S.P.S.T.	3.00			Armature	1.85

BAND SWITCH RELAY—Type RX100



This is a 6 pole - double throw relay. The contacts are silver plated and of the type which are self-cleaning. They maintain an extremely low contact resistance which is of particular

advantage under conditions of high humidity and vibration. Insulation is X2B hard rubber which has excellent characteristics for high frequency circuits. The actuating mechanism is amply powered to insure positive operation in all positions.

Dimensions—3 3/4" long x 1 1/2" wide x 2 1/4" high.

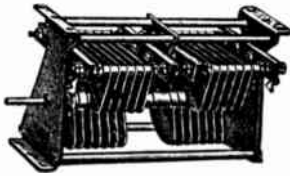
Coils—Vacuum impregnated for voltages from 5 to 110 volts D.C. and for 5 to 220 volts A.C.

Contact Rating—80 watts at 110 volts A.C.

Applications—Well suited for high frequency circuit switching and other multi-contact applications where low contact resistance and good insulation is required.

Prices—A. C. Net.....\$6.00 D.C. Net.....\$5.50

RADIO PRODUCTS



MASTER TRANSMITTING CONDENSERS

For greater efficiency. Heavy aluminum rounded plates. Aluminum end plates, rigid frame, close fitting cone type bearings. Phosphor bronze rotor contact. Mycalex insulation. Made in SINGLE, DUAL and ULTRA HIGH FREQUENCY types. Panel space required $3\frac{1}{2}'' \times 3\frac{1}{2}''$.

Cat. No.	Max. Cap.	Min. Cap.	No. Plates	Air Gap	Length Behind Panel	Net Price
BC-1600	40	7	5	.100"	3 3/4"	\$ 4.05
BC-1601	55	8	7	.100"	4 "	4.44
BC-1602	70	9	9	.100"	4 1/2"	4.80
BC-1603	100	13	13	.100"	4 3/4"	5.01
BC-1604	150	17	17	.100"	5 5/8"	5.25
BC-1605	250	22	29	.100"	7 3/4"	6.00
BC-1606	340	27	39	.100"	9 7/8"	7.20
BC-1607	25	10	5	.200"	4 1/8"	4.50
BC-1608	35	11	7	.200"	4 5/8"	4.80
BC-1609	50	13	11	.200"	5 5/8"	5.10
BC-1610	75	16	15	.200"	6 5/8"	5.40
BC-1611	100	20	21	.200"	8 3/8"	5.70
BC-1612	145	35	29	.200"	10 1/8"	6.90
BC-1613	35	14	9	.300"	5 1/8"	5.10
BC-1614	55	18	15	.300"	8 "	6.00
BC-1615	75	21	21	.300"	10 1/8"	6.90
BC-1616	100	28	29	.300"	12 3/8"	7.50
BC-1617	30	15	9	.375"	6 1/8"	5.40
BC-1618	50	22	15	.375"	9 1/8"	6.30
BC-1619	75	28	25	.375"	13 1/4"	7.50

MASTER DUAL CONDENSERS

BC-1620	80	9	7	.070"	6 3/8"	\$6.00
BC-1621	100	10	9	.070"	6 7/8"	6.60
BC-1622	150	12	13	.070"	7 3/8"	7.20
BC-1623	250	15	21	.070"	9 3/8"	9.00
BC-1624	40	10	6	.100"	6 1/4"	6.00
BC-1625	55	8	7	.100"	6 3/4"	6.30
BC-1626	70	9	9	.100"	7 3/8"	6.90
BC-1627	100	13	13	.100"	8 5/8"	7.50
BC-1628	150	17	17	.100"	9 3/4"	8.40
BC-1629	200	20	23	.100"	11 5/8"	9.00
BC-1630	35	12	7	.200"	8 3/8"	6.90
BC-1631	50	13	11	.200"	10 3/8"	8.10
BC-1632	75	16	15	.200"	12 1/4"	9.00
BC-1633	100	20	21	.200"	15 1/4"	9.60
BC-1634	50	15	13	.300"	13 5/8"	9.30

MASTER U.H.F. CONDENSERS

1635	25	7	5	.200"	7 3/8"	\$ 9.30
1636	35	11	7	.200"	8 3/8"	10.20
1637	50	13	11	.200"	10 1/8"	11.10
1638	75	16	15	.200"	12 1/8"	12.00

STAT-AIR CONDENSERS

Keeping a proper L. C. ratio in all-band operation is now simplified by using a variable air condenser as a vernier and plug Fixed Stat-air sections in parallel with the tank tuning condenser for lower frequency operation. Brass plates with rounded edges are solder welded to their shafts for sturdy, uniform, low loss construction. Alsmag 196 insulation. Fitted with standard banana plugs. Cadmium plated finish.



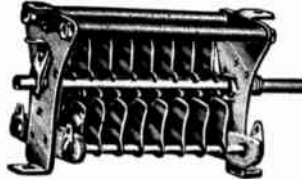
Junior Type

Cat. No.	Cap.	Air Gap	Mtg. Area	Net Price
777	25 mmfd.	.144"	1 1/4" x 1 1/2"	\$1.98
780	50 mmfd.	.144"	1 1/4" x 1 1/2"	2.31
781	100 mmfd.	.144"	1 1/4" x 1 1/2"	2.97
782	100 mmfd.	.078"	1 1/4" x 1 1/2"	2.49
783	150 mmfd.	.078"	1 1/4" x 1 1/2"	2.97

Senior Type

Cat. No.	Cap.	Air Gap	Mtg. Area	Net Price
778	25 mmfd.	.238"	2" x 2 1/4"	\$2.31
784	50 mmfd.	.238"	2" x 2 1/4"	2.64
785	100 mmfd.	.100"	2" x 2 1/4"	2.64
786	100 mmfd.	.238"	2" x 2 1/4"	3.30
787	150 mmfd.	.100"	2" x 2 1/4"	3.35

JUNIOR TRANSMITTING CONDENSERS



A new conception in design and construction make these condensers ideal for use in low and medium power transmitters. Recommended for portable and air-craft equipment where efficient, light weight, small size and rigid construction are a factor. Satin Finished Aluminum end plates have two formed

brackets for universal mounting and coil supports. Plates arc Cadmium plated hard temper brass with edges rounded and solder welded to their respective shafts for uniform spacing and low loss construction. Dural tie rods add rigidity to frame. Brass bearings. Phosphor bronze contacts. Alsmag 196 insulation. Panel space required $2\frac{1}{2}'' \times 3''$.

Cat. No.	Max. Cap.	Min. Cap.	No. Plates	Air Gap	Length Behind Panel	Price Net
1525	50	4	7	.051"	2 1/2"	\$1.65
1526	100	6	13	.051"	2 7/8"	1.80
1527	145	7	19	.051"	3 1/8"	2.13
1528	250	11	33	.051"	4 1/8"	2.64
1529	340	15	43	.051"	5 3/8"	3.30
1530	25	4	5	.078"	2 1/4"	1.62
1531	35	4	6	.078"	2 5/8"	1.71
1532	55	6	11	.078"	3 "	1.89
1533	80	7	15	.078"	3 1/4"	1.98
1534	110	9	21	.078"	4 1/8"	2.31
1535	150	12	29	.078"	4 7/8"	2.79
1536	190	15	37	.078"	5 5/8"	3.45
1537	245	17	47	.078"	6 1/8"	4.11
1538	20	5	7	.144"	3 "	1.80
1539	40	7	13	.144"	3 1/4"	1.98
1540	55	9	17	.144"	4 1/8"	2.31
1541	80	12	25	.144"	5 1/8"	2.64
1542	105	15	33	.144"	7 1/4"	3.06
1543	18	5	7	.175"	3 1/4"	1.98
1544	40	9	15	.175"	4 1/2"	2.64
1545	55	10	19	.175"	5 1/8"	2.97
1546	85	16	31	.175"	8 "	3.30
1547	100	17	37	.175"	9 1/4"	3.96

JUNIOR DUAL CONDENSERS

Cat. No.	Max. Cap. Per Sec.	Min. Cap. Per Sec.	No. Plates Per Sec.	Air Gap	Length Behind Panel	Net Price
1550	20	3	3	.051"	3 1/2"	\$2.31
1551	50	5	7	.051"	4 1/8"	2.79
1552	70	6	9	.051"	4 3/8"	3.30
1553	100	8	13	.051"	5 "	3.60
1554	145	7	19	.051"	5 5/8"	4.29
1555	200	9	25	.051"	6 3/8"	4.80
1556	250	11	33	.051"	7 1/8"	5.61
1557	25	4	5	.078"	4 1/8"	2.79
1558	35	4	7	.078"	4 3/8"	2.97
1559	55	6	11	.078"	5 1/4"	3.30
1560	80	7	15	.078"	6 1/8"	3.81
1561	110	9	21	.078"	7 1/8"	4.11
1562	150	11	29	.078"	8 1/8"	4.95
1563	20	5	7	.144"	5 3/8"	3.30
1564	40	7	13	.144"	7 1/4"	3.60
1565	55	9	17	.144"	8 1/8"	3.87
1566	18	5	7	.175"	5 5/8"	3.60
1567	40	9	15	.175"	8 3/4"	4.11

JUNIOR U.H.F. CONDENSERS

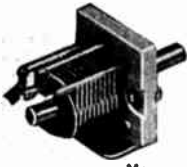
Dual Types Only Plates .040 Thick

No. Cat.	Cap. Max. Per Sec.	Cap. Min. Per Sec.	Plates No. Per Sec.	Gap Air	Length Pnel Behind	Net Price
1569	200	9	25	.051"	6 3/8"	\$5.40
1570	25	4	5	.070"	4 1/8"	3.00
1571	35	4	7	.070"	4 3/8"	3.60
1572	55	6	11	.070"	5 1/4"	4.20
1573	80	7	15	.070"	6 1/8"	4.80
1574	20	5	7	.136"	5 3/8"	4.05
1575	40	7	13	.136"	7 1/8"	4.50
1576	55	9	17	.136"	8 1/4"	5.10

SEE BUD CATALOG FOR OTHER CONDENSERS AND ITEMS NOT LISTED ON THESE PAGES

BUD RADIO PRODUCTS

TINY MITE CONDENSERS

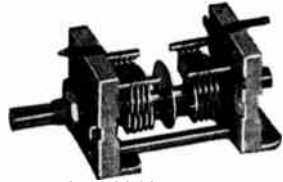


For efficient tuning of ultra-high frequency circuits. Alsmag 196 insulation. Soldered brass plate assemblies, cadmium plated. Rear shaft extension for ganging. Three way mounting. Mounting space $1\frac{1}{2}'' \times 1\frac{1}{4}''$.

Cat. No.	Max. Cap. mmfd.	Min. Cap. mmfd.	Air Gap	Net Price
LC-1640	8	2.5	.017"	\$0.57
LC-1641	13	3	.017"	.63
LC-1642	25	4	.017"	.72
LC-1643	35	5	.017"	.84
LC-1644	50	6	.017"	.90
LC-1645	75	7	.017"	.99
LC-1646	100	9	.017"	1.08
LC-1647*	140	12	.017"	1.38
LC-1648	10	4	.037"	.66
LC-1649	15	5	.037"	.84
LC-1650	25	5.5	.037"	.99
LC-1651	35	6	.037"	1.11
LC-1652*	50	8	.037"	1.32
LC-1653	6	3.5	.073"	.75
LC-1654	15	5.5	.073"	.93
LC-1655*	25	9	.073"	1.23

* Indicates DOUBLE BEARING type.

TINY MITE DUAL CONDENSERS



The two end pieces are held together firmly with insulated tie rods, and a separate round plate on the rotor rod is provided to shield the two stator sections.

Cat. No.	Cap. per sec.	Gap	Net Price
	Max. Min.	Air	
LC-1660	15 3	.017"	\$1.32
LC-1661	25 4	.017"	1.44
LC-1662	50 6	.017"	1.65
LC-1663	100 9	.017"	1.80
LC-1664	10 4	.037"	1.50
LC-1665	15 5	.037"	1.65
LC-1666	25 5.5	.037"	1.80
LC-1667	35 6	.037"	1.98

TINY MITE AIR PADDERS



Holds constant capacity under varying atmospheric conditions or vibration. Fits into $1\frac{1}{2}''$ dia. coil form. Ideal for trimming, tuning or padding components used in high frequency circuits.

Cat. No.	Max. Cap. mmfd.	Min. Cap. mmfd.	Air Gap	Net Price
LC-1680	15	3	.017"	\$0.66
LC-1681	25	4	.017"	.72
LC-1682	50	6	.017"	.84
LC-1683	75	7	.017"	.93
LC-1684	100	9	.017"	1.05

UNIVERSAL NEUTRALIZING CONDENSERS



Can be mounted with plates in either horizontal or vertical position for most efficient layout. Solid frame construction. Two heavy duty Alsmag 196 pillars insulate rotor from stator. All metal parts are aluminum. Plates are rounded and buffed.

Cat. No.	Plate Dia.	Recommended for	Net Price
1000	$1\frac{3}{8}''$	T40, 36T, HF100	\$1.65
1001	$2\frac{1}{8}''$	T200, 250T, etc.	2.40
1002	$4\frac{1}{8}''$	760T, etc.	3.30

MIDGET CONDENSERS

A superior built condenser for mid line tuning. Positive wiping contact with screw adjustment eliminates mechanical noises on high frequencies. Isolantite insulation. Soldered brass plate assemblies. Heavy aluminum end plates with closely fitted bearings for smooth operation. Carefully designed and constructed for maximum efficiency. Extended shaft from rear for ganging several units.



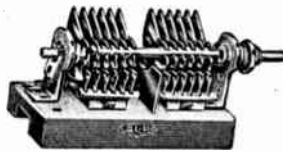
Cat. No.	Max. Cap. mmfd.	Min. Cap. mmfd.	Plates	Net Price
926	15	3	3	\$0.75
900	20	3	3	.78
902	35	4	5	.84
903	50	5	7	.90
904	80	6	11	1.05
905	100	6	14	1.23
906	140	7	19	1.32
907	150	7	21	1.44
908	200	9	27	1.59
909	250	10	33	1.65
910	325	12	43	1.98

MULTI-SPACED

MIDGET CONDENSERS

Cat. No.	Max. Cap. mmfd.	Min. Cap. mmfd.	Air Gap	Net Price
565	15	4	.060"	\$0.99
897	35	6	.060"	1.11
898	50	7	.060"	1.32
899	75	8	.060"	1.71
941	100	10	.060"	1.98
965	35	9	.095"	1.32
966	50	11	.095"	1.65
967	75	14	.095"	1.98

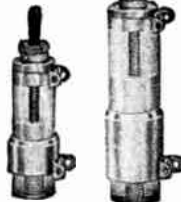
DUAL MIDGET CONDENSERS



For short wave receivers and low powertransmitters. Mounted on ceramic base. Construction similar to single midget condensers.

Cat. No.	Cap. per Sect.	Air Gap	Net Price
	Max. Min.		
911	100 6	.024"	\$1.98
912	140 7	.024"	2.31
913	35 5	.060"	1.98
942	20 4	.060"	1.98
329	35 9	.095"	2.31
330	50 7	.060"	2.31
331	75 8	.060"	2.61

COMPACT NEUTRALIZING CONDENSERS



Tubular construction makes them extremely compact. No. NC-1928 uses ceramic insulation and is intended for use with 1000 volts or less. Nos. NC-1929 and NC-1930 use Lucite insulation and are for use with 2000 and 3000 volts respectively.

Cat. No.	Cap. Mmfd.	Recommended for	Net Price
NC-1928	.25 to 4	807, 61A, etc.	\$0.33
NC-1929	.25 to 4.75	HK-54, TZ-40, etc.	.75
NC-1930	1 to 9.5	100T, T-125, etc.	.98

BUD MIDGET CONDENSERS

These condensers are of the straight line frequency type. Panel or base mounting. Isolantite insulation. Closely fitted single end bearing for constant and definite capacity. Soldered brass plate assemblies.



Cat. No.	Max. Cap. mmfd.	Min. Cap. mmfd.	Plates	Net Price
324	10	2	2	\$0.54
328	15	3	3	.54
323	20	3	3	.54
322	35	4	6	.60
148	50	5	7	.66
901	80	6	11	.75
321	100	6	14	.78
396	140	7	19	.87
320	150	7	21	.96

SINGLE BEARING

DUAL-SPACED CONDENSERS

Spacing between plates .060"

Cat. No.	Max. Cap. mmfd.	Min. Cap. mmfd.	Net Price
327	6	2	\$0.54
311	15	4	.66
319	35	6	.81
312	50	7	.90

MIDGET CONDENSERS

SEMI-CIRCULAR PLATE TYPE



Identical in construction to Bud Midline condensers except that plate design is semi-circular or straight-line capacity. Rotor plate diameter is $1\frac{1}{2}''$.

DOUBLE BEARING — SINGLE SPACING

Cat. No.	Max. Cap. Mmfd.	Min. Cap. Mmfd.	Air Gap	Net Price
MC-1850	15	4	.024"	\$0.78
MC-1852	35	5	.024"	.84
MC-1853	50	6	.024"	.90
MC-1855	100	7	.024"	1.23
MC-1857	150	9	.024"	1.47
MC-1858	200	9	.024"	1.59
MC-1859	250	10	.024"	1.65
MC-1860	320	13	.024"	1.98

MULTI-SPACING

Cat. No.	Max. Cap. Mmfd.	Min. Cap. Mmfd.	Air Gap	Net Price
MC-1861	15	5	.060"	\$0.99
MC-1862	35	7	.060"	1.11
MC-1863	50	8	.060"	1.32
MC-1864	75	10	.060"	1.71
MC-1865	100	13	.060"	1.98
MC-1866	35	9	.095"	1.32
MC-1867	50	10	.095"	1.65
MC-1868	75	14	.095"	1.98

SINGLE BEARING — SINGLE SPACING

Cat. No.	Max. Cap. Mmfd.	Min. Cap. Mmfd.	Air Gap	Net Price
MC-1870	15	4	.024"	\$0.51
MC-1872	35	5	.024"	.57
MC-1873	50	6	.024"	.63
MC-1875	100	7	.024"	.75
MC-1876	140	7	.024"	.81

DOUBLE SPACING

Cat. No.	Max. Cap. Mmfd.	Min. Cap. Mmfd.	Air Gap	Net Price
MC-1879	15	5	.060"	\$0.60
MC-1880	35	7	.060"	.75
MC-1881	50	8	.060"	.84

6L6 NEUTRALIZING CONDENSER



For 6L6, 6V6, 807, RK41, RK39, etc. Small, compact and well built. Heavy $1\frac{1}{2}''$ dia. aluminum plates with edge rounded and polished. Thumb nut locking device.

Cat. No.	Capacity mmfd.	Net Price
890	.5 to 9	\$0.60

RADIO PRODUCTS

SECTIONAL CABINET RELAY RACK



Build a cabinet rack to your required height without having waste space. A complete rack from 3 1/2", progressing in multiples of 1 1/4" to any desired height. Side wall sections are 1 1/2" deep. Front and back flanges drilled and tapped for 10-32 screw. Fit both W.E. and Amateur type rack panels. Dust covers can be supplied as listed. Made from heavy gauge steel, finished in durable black crackle. Supplied with necessary hardware.

No.	Net Price
1300—Base Assembly— Size 20 1/4" x 15 3/4" x 2 1/2"	\$3.00
1301—Top Cover. 19 1/4" x 14 1/4" x 1/2"	1.65

Side Wall Sections

Consist of two side wall sections complete with mounting brackets, bolts, nuts, etc.

Cat. No.	Size	Net Price
1302	3 1/2" x 14 1/2"	\$1.35
1303	5 1/4" x 14 1/2"	1.50
1304	7" x 14 1/2"	1.65
1305	8 3/4" x 14 1/2"	1.98
1306	10 1/2" x 14 1/2"	2.19
1307	12 1/4" x 14 1/2"	2.64
1308	14" x 14 1/2"	2.79
1309	15 3/4" x 14 1/2"	3.00
1310	17 1/2" x 14 1/2"	3.30
1311	19 1/4" x 14 1/2"	3.45
1312	21" x 14 1/2"	3.60

Dust Cover Back Sections

Slotted to fit standard rack drilling.

Cat. No.	Size	Net Price
1313	3 1/2" x 19"	\$0.51
1314	5 1/4" x 19"	.60
1315	7" x 19"	.66
1316	8 3/4" x 19"	.84
1317	10 1/2" x 19"	.99
1318	12 1/4" x 19"	1.14
1319	14" x 19"	1.35
1320	15 3/4" x 19"	1.50
1321	17 1/2" x 19"	1.65
1322	19 1/4" x 19"	1.80
1323	21" x 19"	1.98

MIDGET RELAY RACKS

An ideal unit for that low power transmitter, amplifier or test panel. Made of heavy gauge sheet steel. Black crackle enamel finish. Drilled to fit 19" rack panels. Light in weight, sturdily built. Shipped knocked down with necessary hardware. Easy to assemble.

No. 1248—Over-all height 24", width 20". Depth of base 12". Panel space 21".	Net Price	\$3.75
No. 1249—Over-all height 31", width 20". Depth of base 12". Panel space 25".	Net Price	\$4.95

PROFESSIONAL CABINET RACKS



A sturdy, stylish rack for Commercial, Amateur and Industrial use. Made from 16 gauge steel throughout. Black crackle finish. Drilled and tapped for 10-32 screw to fit either W.E. or Amateur notched rack panels. Sides louvred for ample ventilation. Hinged rear door has two snap catches. Shipped knocked down with all screws, nuts and washers.

No. 874 — Height 47", width 21", depth 17". Panel space 42".	Net Price	\$21.60
No. 875 — Height 66 1/2", width 21", depth 17". Panel space 61 1/4".	Net Price	\$26.70
No. 884—Height 82", width 21", depth 17". Panel space 77".	Net Price	\$32.40

GENERAL CABINET RACKS



Ideal for transmitters, Public Address and Laboratory equipment. Made from 16" thick, cold rolled steel. Beautifully finished in black crackle. All joints welded. Louvred for ventilation. Drilled and tapped 10-32 for either W.E. or Amateur notched 19" rack panels. Hinged doors have nickel plated snap catch. No. 697 and 698 have solid top construction.

No.	H.	W.	D.	Panel Space	Net
694	9"	x 19 1/2"	x 13 3/4"	8 3/4"	\$4.80
695	10 3/4"	x 19 1/2"	x 13 3/4"	10 1/2"	6.00
696	17 3/4"	x 19 1/2"	x 14 1/2"	17 1/2"	9.00
697	26 1/2"	x 19 1/2"	x 14 1/2"	26 1/4"	9.75
698	35 1/4"	x 19 1/2"	x 14 1/2"	35"	11.40

Trim can be supplied for above racks. See Bud Catalogue.

STANDARD RELAY RACKS

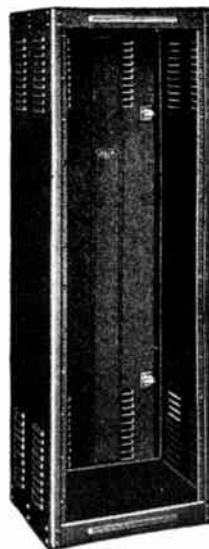


Made to standard specifications. 1/8" x 3" steel channels braced with 1/8" steel brackets. Holes drilled and tapped 10-32. Will fit W.E. or Amateur notched 19" rack panels. Black crackle finish. Shipped knocked down with necessary hardware.

No. 1263—Over-all height 35 1/2", width 20". Base Depth 22". Panel space 31 1/2". Shpg. Wght. 32 lbs.	Net Price	\$9.60
No. 1264—Over-all height 70 1/2", width 20". Base depth 22", panel space 66 1/2". Shpg. Wght. 45 lbs.	Net Price	\$11.40
No. 1265 — Heavy Duty commercial type. Height 72 1/2", width 20", Base depth 15", Panel space 66 1/2". Shpg. Wght. 90 lbs.	Net Price	\$21.60

ASK FOR A COMPLETE
BUD CATALOGUE

STREAMLINE CABINET RACKS



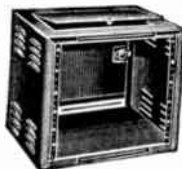
Rounded corners at the front of these cabinets add an ultra-modern touch to an already pleasing appearance. Constructed from heavy 16 gauge steel. Trimmed at top and bottom with chrome strip moulding. Drilled and tapped 10-32 to fit either W.E. and/or Amateur notched rack panels. Sides are louvred for ventilation. Full length rear door has two snap catches. Overall width is 22". Inside depth clearance 16". Supplied with interlock switch bracket for safety. Shipped knocked down with all necessary hardware for easy assembly. Finished in Crackle enamel, GREY or BLACK optional as requested. Sides without louvres for bays can be supplied when so ordered.

CR-1771 47" x 42" 100 lbs. \$26.40
CR-1772 66 1/2" x 61 1/4" 140 lbs. 31.50
CR-1773 82" x 77" 165 lbs. 37.50

Cat. No.	Overall Height	Panel Space	Shipping Weight	Net Price
CR-1771	47"	42"	100 lbs.	\$26.40
CR-1772	66 1/2"	61 1/4"	140 lbs.	31.50
CR-1773	82"	77"	165 lbs.	37.50

STREAMLINE GENERAL CABINET RACKS

A beautiful streamline effect has been added to these cabinets by putting a radius on the front vertical edges. These are ideal housings for transmitters, Amplifiers, etc. Panels are recessed to fit flush with front of cabinet. Drilled and tapped 10-32 to fit either



W.E. or Amateur notched rack panels. All sizes have recessed hinged cover in top with snap catch. The three larger sizes also have hinged rear door with snap catch. Chrome trim moulding is attached to top and bottom of cabinet. Overall width 22", depth 14 1/4" GREY or BLACK crackle finish optional. Shipped completely assembled with all necessary hardware.

Cat. No.	Panel Space	Overall Height	Net Price
CR-1741	8 3/4"	10 3/4"	\$ 7.50
CR-1742	12 1/4"	14 1/4"	9.00
CR-1743	17 1/2"	19 1/2"	12.00
CR-1744	26 1/4"	28 1/4"	13.50
CR-1745	35"	37"	15.00

SMALL CABINET RACK

This small, inexpensive cabinet is ideal for emergency transmitters and has many other uses. Made of sheet steel, welded corners, hinged rear door has key lock. Overall size 18" wide, 21 1/4" high, 10" deep. Will take chassis 8 1/2" deep x 15" wide. Black crackle finished. Supplied complete with one



10 1/2" x 16 1/2" and one 8 3/4" x 16 1/2" panel.	Cat. No.	Shipping Weight	Net Price
	RC-1749	25 lbs.	\$7.50

RADIO PRODUCTS

OSCILLOSCOPE CABINETS



A size for 1", 2" and 3" cathode-ray tubes. Ideal for housing experimental television equipment. Rounded front corners. Louvers on sides for ventilation. Black crackle finish. Supplied complete with chassis and bakelite terminal strip.

Cat. No.	Height	Width	Depth	Chassis Size	Net Price
C-1754	7"	8"	7 1/2"	7 3/8 x 5 3/4 x 1 1/2"	\$3.60
C-1755	8"	8 1/2"	11"	10 3/8 x 5 1/4 x 2"	4.20
C-1756	9 1/2"	9 1/2"	15"	14 3/8 x 5 1/4 x 3"	4.80

SLOPING PANEL CABINETS



Excellent as housings for field strength meters, frequency meters, laboratory equipment, etc. The entire front panel is removable so chassis can be attached. Vertical portion of panel is 2 1/4" high for mounting dial plates. Made of sheet steel, solidly welded and black crackle finished.

Cat. No.	Width	Depth	Height	Net Price
C-1584	7"	7 1/4"	6 1/2"	\$1.95
C-1585	9"	7 3/4"	6 1/2"	2.25
C-1586	11"	7 3/4"	6 1/2"	2.55

METAL CARRYING CASES



Ideal for housing portable receivers, amplifiers, etc. Removable front and rear panels. Ruggedly constructed yet light in overall weight. Black crackle finished. All seams and corners reinforced and spot welded. Substantial leather carrying handle.

Cat. No.	Size	Net Price
1096	6" x 7" x 12"	\$1.59
1097	7" x 7 3/4" x 15"	1.95
1100	7" x 10" x 10"	1.80

SPEAKER CABINETS



For housing loud speakers in portable and permanent installations. Solidly constructed from cold rolled sheet steel. Fully enclosed. Back cover louvered for ventilation. Metal grill over speaker opening protects speaker. Black crackle finish. Has carrying handle.

Cat. No.	Speaker Size	Cabinet Size	Net Price
471	6"	9x9x6	\$2.25
472	8"	11x11x7	2.76
473	10"	13x13x8	3.60
474	12"	15x15x8	4.80

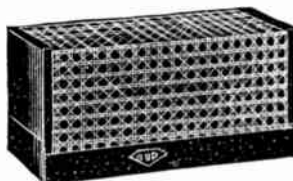
STREAMLINE AMPLIFIER FOUNDATIONS



Rounded edges on cover. Grill work in top and louvers in sides of cover for ventilation. Chrome trim and handles. Cover attached by chrome thumb screws. Overall height 9", chassis height 3". BLACK or GREY crackle finish optional.

Cat. No.	Chassis Width	Chassis Depth	Net Price
CA-1750	10"	5"	\$2.40
CA-1751	12"	7"	2.85
CA-1752	17"	7"	3.45
CA-1753	17"	10"	3.90.

AMPLIFIER FOUNDATION KIT



An amplifier built on these foundation kits will have real professional appearance. Chassis is formed from heavy-gauge cold-rolled steel. Corners are folded over and welded. Shield cover is sheet metal perforated in cane design. Finished in black crackle. Chassis furnished undrilled.

No.	Overall Size	Chassis Height	Net Price
699	5" x 9 1/2" x 8 1/4"	2 1/2"	\$1.50
1125	5" x 13 1/2" x 8 1/4"	2 1/2"	1.77
1126	7" x 17" x 8 1/4"	2 1/2"	2.19
1127	10" x 17" x 8 3/4"	3"	2.70
1128	10" x 12" x 8 3/4"	3"	2.25

METER CASES



A convenient and safe means for making portable instruments out of any 2" and 3" round or square panel mounting meters. Several sizes for 1, 2 and 3 meters. Made of sheet steel. Black Crackle finish. Size 4" deep, 4 1/2" high. Insulators supplied only on one meter cases.

Cat. No.	Meters	Hole Dia.	Net Price
CM-1241	1	2 1/4"	\$0.90
CM-1687	2	2 1/4"	1.35
CM-1688	3	2 1/4"	1.80
CM-1242	1	2 1/2"	.90
CM-1689	2	2 1/2"	1.35
CM-1690	3	2 1/2"	1.80

BUD BOX TYPE SHIELDS

These shields are recommended to shield transformers, audio chokes, variable gang condensers, etc., and isolate them from other circuits in the instrument, thereby eliminating magnetic and electro-static interference. Made from cold rolled sheet steel. All seams and corners spot welded for rigidity. Formed flanges on bottom to attach to chassis. Finished in black crackle enamel. Size 4 1/2" x 7 1/2" x 5" high.



No. 1244—Net Price \$0.66

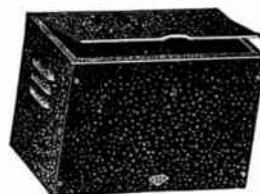
STREAMLINE CABINETS



Distinctive styling for receivers, instruments etc. Rounded front vertical edges. Hinged top. All corners spot-welded. Black crackle finish. Height 8", depth 8 1/4".

Cat. No.	Panel Size	Overall Width	Net Price
C-1746	8" x 10"	12 1/2"	\$2.25
C-1747	8" x 12"	14 1/2"	2.55
C-1748	8" x 14"	16 1/2"	2.85

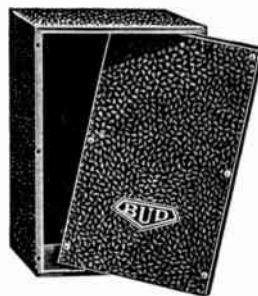
METAL CABINETS



Made from heavy gauge sheet steel. All corners reinforced and spot welded. Hinged lid, louvers on side. Removable front panel. Black crackle finish.

Cat. No.	Size—Inches High Wide Deep	Net Price
973	7 x 8 x 7 1/2	\$1.65
993	7 x 10 x 6	1.65
994	7 x 12 x 7 1/2	1.95
995	7 x 14 x 7 1/2	2.10
999	7 x 10 x 8	1.95
1190A	8 x 16 x 8	3.54
975A	9 x 15 x 11	3.87

METAL BOX CABINETS



Excellent for housing Monitors, oscillators, receivers, etc. Front and back panels removable. Black crackle finish.

Cat. No.	Size—Inches W L H	Net Price
883	2" x 4" x 4"	\$0.54
728	3" x 5" x 4"	.60
1098	6" x 6" x 6"	.69
1099	5" x 6" x 9"	1.05
879	7" x 8" x 10"	1.35
1124	6" x 7" x 12"	1.41
880	8" x 10" x 10"	1.65
881	8" x 11" x 12"	1.80
882	7" x 9" x 15"	1.95

CHASSIS DECKS

These mounting bases will fit Bud metal box cabinets. Made of rust proof zinc coated steel and sturdily constructed. Can be mounted to panel any height from bottom.

Cat. No.	Fits No.	Net Price
522	1098 Cabinet	\$0.27
523	1099 Cabinet	.24
524	879 Cabinet	.36
525	1124 & 1096 Cabinet	.30
526	880 Cabinet	.42
527	881 Cabinet	.45
528	882 Cabinet	.39
536	1097 Cabinet	.36
537	1100 Cabinet	.42

BUD RADIO PRODUCTS

STEEL CHASSIS BASES

Made of heavy gauge bright finish cold rolled sheet steel. Ends are folded down and spot welded. Folded over on bottom to attach bottom plate. Supplied undrilled in the following sizes.



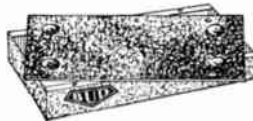
(Zinc Plated)		Chassis Size (Black Crackle)		(Zinc Plated)	
Cat. No.	Net Price	Inches 20 Gauge		Cat. No.	Net Price
645	\$0.54	5x 9 1/2 x 2 1/2		644	\$0.54
776	.45	5x 9 1/2 x 1 1/2		788	.45
1191	.54	7x 7 x 2		789	.54
1192	.60	7x 9 x 2		790	.60
1193	.66	7x11 x 2		791	.66
1194	.72	7x13 x 2		646	.72
1198	.66	5x13 1/2 x 2 1/2		647	.66
1189	.90	7x15 x 3		649	.90
666	.96	8 1/2 x14 x 3		665	.96
1066	.75	4x17 x 3		1068	.75
1199	.87	7x17 x 2 1/2		648	.87
1195	.96	10x12 x 3		652	.96
779	1.02	10x14 x 3		653	1.02
774	.96	8x17 x 2		650	.96
775	1.02	8x17 x 3		651	1.02
769	1.02	10x17 x 2		654	1.02
637	.90	10x17 x 3		636	.90
18 Gauge					
1196	1.08	10x17 x 3		655	1.08
1197	1.38	10x23 x 3		656	1.38
770	1.23	11x17 x 2		657	1.23
771	1.35	11x17 x 3		658	1.35
661	1.26	12x17 x 2		663	1.26
662	1.38	12x17 x 3		664	1.38
772	1.50	13x17 x 2		659	1.50
773	1.65	13x17 x 3		660	1.65
641	1.44	10x17 x 4		640	1.44
643	1.80	13x17 x 4		642	1.80
624	2.10	10x17 x 5		623	2.10
626	2.40	13x17 x 5		625	2.40

HEAVY DUTY CHASSIS

Made of 16 Ga. steel. Supplied complete with bottom plate.

Black Crackle	Electro-Zinc Plated	Size—Inches	Ship. Wt.	Net Price
Cat. No.	Cat. No.	D. W. H.	Lbs.	
CB-1757	CB-1764	8 1/2 x 17 1/2	14	\$1.62
CB-1758	CB-1765	8 1/2 x 17	15	1.80
CB-1759	CB-1766	11 1/2 x 17	2 1/2	1.80
CB-1760	CB-1767	11 1/2 x 17	3	1.95
CB-1761	CB-1768	13 1/2 x 17	2 1/2	2.10
CB-1762	CB-1769	13 1/2 x 17	3	2.31
CB-1763	CB-1770	13 1/2 x 17	4	2.55

CHASSIS BOTTOM PLATES



These plates make excellent dust covers and conceal the wiring and component parts in the chassis. Four formed bosses set as feet and eliminate marring or scratching table.

Zinc Coated Crackle	Black Crackle	Bottom Plates Listed	Fit the Following	Net Price
Cat. No.		Size Chassis Bases		
667	680	5" x 9 1/2"		\$0.27
668	681	7" x 7"		.30
669	682	7" x 9"		.33
670	683	7" x 11"		.39
671	684	7" x 13"		.42
672	685	5" x 13 1/2"		.33
513	516	7" x 15"		.45
1067	1069	4" x 17"		.36
673	686	7" x 17"		.48
674	687	8" x 17"		.48
675	688	10" x 12"		.48
514	517	10" x 14"		.51
676	689	10" x 17"		.60
677	690	11" x 17"		.66
678	691	13" x 17"		.72
679	692	13" x 17"		.75
515	518	10" x 23"		.81

RELAY RACK PANELS



These panels are 19" long. Widths are 1/2" undersize for easy fit. Black crackle finish.

STEEL panels are 1/8" thick and notched either W.E. or Amateur standard. Specify "A" for Amateur or "W" for Western Electric notching after catalog number.

MASONITE panels are 3/16" thick, tempered, tough, non-magnetic and can be worked same as wood. Supplied in "A" notching only.

STEEL				MASONITE			
No.	Net	Panel Size		No.	Net		
1250	\$0.45	1 1/2" x 19"		1588	\$0.33		
1251	.51	3 1/2" x 19"		1588	.42		
1252	.63	5 1/4" x 19"		1590	.57		
1253	.66	7" x 19"		1591	.63		
1254	.84	8 3/4" x 19"		1592	.75		
1255	1.02	10 1/2" x 19"		1593	.87		
1256	1.20	12 1/4" x 19"		1594	.99		
1257	1.38	14" x 19"		1595	1.11		
1258	1.56	15 3/4" x 19"		1596	1.26		
1259	1.74	17 1/2" x 19"		1597	1.41		
1260	1.86	19 1/4" x 19"		1598	1.56		
1261	2.10	21" x 19"		1599	1.71		

METER PANELS



Made in STEEL and MASONITE. Same specifications as Rack Panels. 5 1/4" high, 19" long. Black crackle finish. Hole diameter 2 1/8" to fit 3" meters and 2 1/4" to fit 2" meters.

STEEL				MASONITE			
No. Holes	Net	Size		No. Holes	Net		
440	3 \$0.99	2 1/8"		509	3 \$0.87		
441	3 1.47	2 1/8"		510	4 .99		
442	3 .99	2 1/8"		511	3 .87		
443	5 1.47	2 1/8"		512	4 .99		

RELAY RACK PANELS (Door Type)



Ideal for use in speech amplifiers, Exciter units, etc. Made from steel 1/2" thick. Hinged door is 5 1/2" W. x 12" L. has snap catch. Sufficient margin on panel for meters, dials, etc. Panels listed (cut-out) have

hole for glass window. Glass not supplied. Finished in Black Crackle. NOTCHED AMATEUR STANDARD ONLY.

Cat. No.	Length	Width	Type	Net Price
615	19"	10 1/2"	Door	\$2.34
616	19"	12 1/4"	Door	2.70
617	19"	10 1/2"	Cut-out	1.95
618	19"	12 1/4"	Cut-out	2.25

CHASSIS MOUNTING BRACKETS



These brackets are made of heavy gauge sheet steel. Black crackle finish. Fit 7" high or larger panels. Have a 1" panel mounting flange which is cut away at bottom so chassis can be mounted flush against panel.

No.	Height	Length		Net Price
458	6 1/2"	x 8"	for 3" H. chassis	\$0.54 pr.
448	6 1/2"	x 10"	for 3" H. chassis	.75 pr.
459	6 1/2"	x 11"	for 3" H. chassis	.84 pr.
449	6 1/2"	x 12"	for 3" H. chassis	.93 pr.
460	6 1/2"	x 13"	for 3" H. chassis	.99 pr.
450	8 1/2"	x 10"	for 4" H. chassis	1.05 pr.
451	8 1/2"	x 13"	for 4" H. chassis	1.20 pr.



CABINET RACK DOLLIES

Solid steel frames have black crackle finish. Ball bearing swivel casters have composition wheels which do not scratch polished floors. Nos. 505 and 506 fit cabinets having up to 17" x 21" base. Nos. 507 and 508 fit cabinets having up to 18" x 22 1/2" base.

Cat. No.	Type	Wheel Diam.	Net Price
RD-505	Light Duty	1 1/2"	\$3.45
RD-506	Heavy Duty	2"	5.25
RD-507	Light Duty	1 1/2"	4.05
RD-508	Heavy Duty	2"	5.85



REMOVABLE TOP CHASSIS

A new design and easy to punch chassis. Top is removable for easy layout of parts and to work with. Can be discarded and new top put on for change in layout. Made of heavy gauge steel. Welded corners.

COMPLETE CHASSIS

Black Crackle	Electro-Zinc Plated	Size—Inches		Net
Cat. No.	Cat. No.	D.	W. H.	Price
CB-196	CB-193	10	17 3	\$1.20
CB-197	CB-194	14	17 4	1.62
CB-251	CB-210	13	17 3	1.80
CB-252	CB-211	13	17 4	2.25

REPLACEMENT CHASSIS TOPS ONLY

RT-198	RT-195	10	17	\$0.60
RT-253	RT-212	13	17	.75

RACK MOUNTING BRACKETS



For mounting shelves and chassis to rack panels. Are triangular in shape, so that they may be used in numerous ways. Made from heavy gauge cold rolled steel. Finished in black crackle enamel.

Net Price

No. 1266—5" Brackets	\$0.42 pr. pr.
No. 1267—7" Brackets .....	.54 pr. pr.
No. 1268—9" Brackets .....	.66 pr. pr.

INTER-STAGE SHIELDS



These shields are ideal for use on receiver and transmitter chassis for eliminating interstage coupling and isolating component parts. Made of 20 gauge electro zinc coated steel. Folded on

front and bottom for fastening to panel or chassis.

Net Price

No. 1246—5 1/2" high, 7" long	\$0.21
No. 1247—5 1/2" high, 10" long .....	.27
No. 1245—6 1/2" high, 10" long .....	.30

Rack, Meter and Door Panels, also other metal items listed GREY Crackle finish optional can be so supplied at no additional cost. Other metal items in Grey are special so add 10% to net price.

BUD RADIO PRODUCTS

CODE PRACTICE OSCILLATOR



For individual or group practice. Uses 117L7GT tube and works on A.C. or D.C. Has provision for two keys and an additional speaker. Two tones selected by switch on front panel. Comes complete with built in dynamic speaker and tube.

Cat. No.	Net Price
CPO-120—Oscillator	\$7.95
CPS-121—Add. Spkr.	1.90

WAVEMETER



A highly useful device for the proper adjustment and operation of an amateur transmitter. Necessary for detecting harmonics, standing waves, neutralization, etc. Comes with dial plate calibrated from 10 to 160 meters and bandswitch on front panel. Indicator bulb supplied.

Cat. No.	Net Price
WM-77	\$4.35

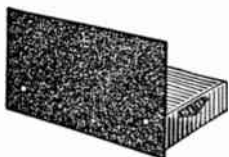
OPEN END CHASSIS



These light weight steel chassis fit BUD metal cabinets and have many other uses. Ends are folded over $\frac{3}{8}$ " for additional strength. Zinc plated finish.

Cat. No.	Size—Inches		Fits Cab. No.	Net Price
	D.	W. H.		
CB-38	7	6 2	C-1584	\$0.36
CB-30	5	7 1 1/2	.....	.30
CB-41	7	7 1 1/2	C-973	.39
CB-39	7	8 2	C-1585	.42
CB-996	5 1/2	9 1 1/2	C-993	.36
CB-976	7 1/2	9 1 1/2	C-999, C-1746	.45
CB-40	7	10 2	C-1586	.45
CB-997	7	11 1 1/2	C-994, C-1747	.48
CB-998	7	13 1 1/2	C-995, C-1748	.57
CB-34	10 1/2	14 2	C-975A	.87
CB-35	7 1/2	15 2	C-1190A	.75

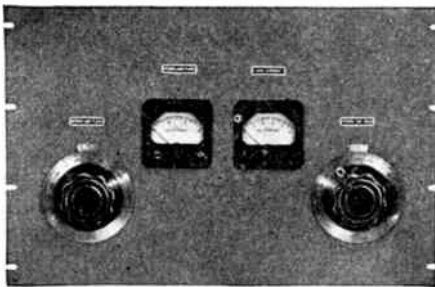
PANELS



Metal panels are 16 Ga. cold rolled steel. Masonite panels are $\frac{3}{8}$ " thick, easy to drill and work. Both types are black crackle finished.

STEEL		MASONITE	
Cat. No.	Net	Size	Net
1200	\$0.27	7x8	\$.....
1201	.33	7x10	607 .39
1202	.39	7x12	608 .45
1203	.45	7x14	609 .51
239	.39	8x10	606 .45
240	.45	8x12	610 .51
1204	.48	8x14	611 .57
1205	.54	8x16	612 .66
1187	.60	8x18	.....
1188	.69	8x19	.....
700	.57	9x15	613 .69

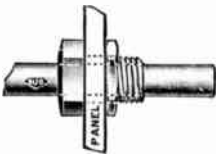
500 WATT R.F. AMPLIFIER KITS



Unusual features not previously found in the average push-pull radio-frequency Amplifier are incorporated in these kits giving the amateur a really different "Final" of high efficiency, new type layout and design. Semi-skeleton style of construction. No closed metallic loops to cause losses due to circulating currents, etc. Layout symmetrical for both parts and wiring. Uses standard, medium power triode tubes. Kits come with drilled panel and formed and drilled metal parts. All kits come complete, less Meters, Tubes and Coils. Use BUD OCL and VCL coils with these amplifiers.

BPA 500	For 5, 10, 20 and 40 meters.	Net Price \$24.00
BPA 500-LF	For 20, 40, 80 and 160 meters.	Net Price 25.50
BPA 500-S	Foundation kit. (Drilled panel, semi-chassis and brackets)	Net Price 3.60

BUD PANEL BEARING ASSEMBLY



Is ideal for use with rigid or flexible couplings when mounting volume controls, condensers, etc. back from the panel. Shaft is slotted and held

securely to bearing with horse-shoe washers to keep shaft from shifting. Brass bearing fits up to $\frac{1}{8}$ " thick panel.

No.	Net Price
530—Overall length 6"	\$.24
531—Overall length 3"	.18
532—Bearing only	.09

BUD TUNING DIALS

For Use on Transmitters and Other Equipment



Made of heavy gauge brass, sun and chrome plated. Black die stamped numerals. Large bakelite knob, brass insert. Insulated from shaft. Supplied with No. 1736 Indicator.

FLUTED KNOBS—180 DEG.			
Cat. No.	Dial Div.	Diam.	Net Price
D-1732	0-100	2 3/4"	\$0.87
D-1733	100-0	2 3/4"	.87
D-1734	0-100	4"	1.35
D-1735	100-0	4"	1.35

TAPERED KNOBS—180 DEG.			
Cat. No.	Dial Div.	Diam.	Net Price
D-713	0-100	2 3/4"	.75
D-714	100-0	2 3/4"	.75
D-715	0-100	4"	1.11
D-716	100-0	4"	1.11

INDICATORS ONLY

Cat. No.	Type	Net Price
IN-723	Vernier Indic. for 2 3/4" Dials.	\$0.18
IN-725	Vernier Indic. for 4" Dials.	.18
IN-1736	Single Line Indicator.	.06

ETCHED DIAL PLATES (Plain)

These dial plates are made of high grade tempered aluminum. Raised polished dial divisions and numerals on black satin finish background. Center hole will fit over $\frac{3}{8}$ " bushing.



Cat. No.	Size	Arc	Calibrated	Net Price
1175	3"	180°	0 to 100	\$0.18
1176	3"	180°	100 to 0	.18
1177	2"	180°	0 to 100	.12
1178	2"	180°	100 to 0	.12

WITH MARKING

Cat. No.	Marking	Net Price
1224	Record	\$.12
1225	Microphone	.12
1226	Gain	.12
1227	Tone	.12
1179	.....	.12
1228	Tone Control (arrow calib.)	.12
1229	Volume (arrow calib.)	.12
1273	Marked 1 to 5 for sw.	.12

RECTANGULAR TYPE

Size 1 1/4"x2 1/4". Calibrated 0-10 in 300° rotation.

Cat. No.	Marking	Net Price
978	Record	\$.12
979	Microphone	.12
980	Gain	.12
981	Tone	.12
982	.....	.12



JACK NAME PLATES

For identifying input and output circuits. Polished letters on black satin background. Fit on $\frac{3}{8}$ " dia. bushings. 1 1/8" diameter.


Cat. No.	Marking	Net Price
1180	Microphone	\$.09
1181	Phono Pick Up	.09
1182	Phones	.09

RADIO BUD PRODUCTS

LATTICE-WOUND R.F. CHOKES

Low D.C. resistance, high impedance, high moisture proof, low distributed capacity. Wound on Isotex.

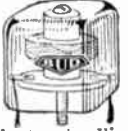
No.	M.H.	Net	No.	M.H.	Net
1212	2.5	\$.21	1217	16	\$.33
1213	3.4	.24	1218	30	.36
1214	5.5	.27	1219	60	.45
1215	8.	.27	1220	80	.48
1216	10.	.30			



MAGICORE "HY-Q" R.F. CHOKES

IRON CORE

These new metallic alloy core chokes have nearly double Q factor of air core coils. High permeability with minimum hysteresis. Wound with silk covered enamel wire.




SHIELDED

Cat. No.	Inductance	Net Price
1277	1.5 M.H.	\$.51
1278	2.5 M.H.	.51
1279	3.4 M.H.	.54
1280	5.5 M.H.	.54
1281	8 M.H.	.60
1282	10 M.H.	.60
1283	16 M.H.	.69
1284	30 M.H.	.69
1285	60 M.H.	.78
1286	80 M.H.	.87
1287	125 M.H.	1.08

HY-FREQUENCY R.F. CHOKES

For H.F. receivers and low powered transmitters. Wound with SSE wire on Isolatite core. Extremely low distributed capacity.


Cat. No.	Inductance	Net Price
920	2.5 M.H.	\$.27
922	5.5 M.H.	.36
923	8. M.H.	.45
924	10. M.H.	.51



BUD H.F. TRANSMITTING CHOKE

This newly designed choke is for use with the new medium power transmitting tubes in high and ultra-high frequency circuits. Three lateral wound pies on $\frac{1}{4}$ " diameter Isolatite core. Heavy strap leads. Size $\frac{3}{8}$ " diameter by $1\frac{1}{2}$ " long. Inductance, 2.5 M.H.; D.C. Res. 16 ohms; Current Cap. 250 MA. continuous; Dist. Cap. 2 mmd.

No. 876Net Price \$0.51



ASK FOR A COMPLETE BUD CATALOG

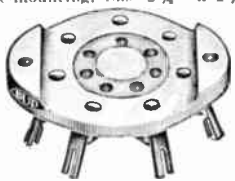
Which Describes Numerous Other Money Saving Items Not Listed Here

ISOTEX SOCKETS

Moisture-proof, high surface resistance. Low loss effect. Sub-panel, base-mounting. Size $2\frac{1}{4}$ " x $1\frac{1}{2}$ ".

No. 954 4 pr. \$.24
955 5 pr. .24
956 6 pr. .27

No. 957 7 Sm. \$.30
958 7 Lge. .30
959 8 Pr. .33



BUD TUBE SOCKETS

Made of Bakelite

Are constructed of the finest materials through-out, using genuine phosphor bronze contacts. Top is grooved for tube guide. Excellent for regular as well as experimental work. Used as standard equipment by manufacturers of test equipment.

Cat. No.	Net Price
268	\$0.15
269	.15
270	.18
271	.18
983	.18
1060	.21
1061	.18
1062	.21
1063	.21




PANEL MOUNT

No.	Prong	Net Price
268	4 Prong	\$.15
269	5 Prong	.15
270	6 Prong	.18
271	7 Prong Lge.	.18
983	7 Prong Sm.	.18
1060	5, 6, Sm. 7 Pr. Comb.	.21
1061	7 Prong Combination	.18
1062	4, 5, 6 Prong Comb.	.21
1063	8 Prong, Octal	.21

BUD COMBINATION BASE OR PANEL MOUNT SOCKETS

Made of Bakelite

No.	Prong	Net Price
264	4 Prong	\$.18
265	5 Prong	.18
266	6 Prong	.21
267	7 Prong (Reg.)	.24
885	7 Prong (Small)	.24



TRANSMITTER R.F. CHOKES

Pie Wound

Exceptionally low power loss, no transmission bands. Continuous windings of 5 lateral wound tapered sections. Low D.C. resistance.

Ind. 2.8 M.H.; 5 ohms D. C. Res.; rating 1000 M.A.


No. 568Net \$1.05

Ind. 5.3 M.H.; 12 1/2 ohms D.C. Res.; rating 500 M.A.

No. 569Net \$0.90

U. H. F. linear wound, Ind. 15 microhenries, .2 ohms D.C. Res.; rating 4 amps.

No. 570Net \$0.60



BUD ULTRA HY-FREQ. R.F. CHOKE

A compact, well designed R.F. choke for use in ultra high frequency transmitters and receivers. Wound on Isolatite core. Size — $1\frac{1}{2}$ " long, $\frac{3}{8}$ " diameter, inductance 5.7 microhenries, resistance 1.4 ohms. Current rating—750 m.a.

No. 925Net \$0.15



BUD TOGGLE SWITCHES

For controlling radio sets, small motors, lamps, etc. Underwriter approved. Rated 3 amps. at 125 volts or 1 amp. at 250 volts. Supplied in nickel plated or statuary bronze finish. Made by I&K for BUD. Packed 5 to Carton.

Cat. No. Description Shank Length Net Price

1003	S.P.S.T.	$\frac{1}{8}$ "	$\frac{1}{2}$ "	\$0.24
1004	S.P.S.T.	$\frac{3}{16}$ "	$\frac{1}{2}$ "	.27
1005	S.P.D.T.	$\frac{1}{8}$ "	$\frac{1}{2}$ "	.33
1006	S.P.D.T.	$\frac{3}{16}$ "	$\frac{1}{2}$ "	.36
1007	D.P.S.T.	$\frac{3}{16}$ "	$\frac{1}{2}$ "	.45
1008	D.P.S.T.	$\frac{3}{16}$ "	$\frac{3}{4}$ "	.51
1009	D.P.D.T.	$\frac{3}{16}$ "	$\frac{1}{2}$ "	.57
1010	D.P.D.T.	$\frac{3}{16}$ "	$\frac{3}{4}$ "	.60

1077 Closes 3 circuits for R.C.A., etc. $\frac{1}{4}$ " 42




BUD ROTARY SWITCHES

Positive contact rotary power switch, underwriter approved. Rated 3 amps. at 125 volts and 1 amp. at 250 volts. Copper plated steel encased, Bakelite insulation. Shafts are $1\frac{1}{2}$ " long. Made by I&K for BUD.

Cat. Description Shank Length Net Price

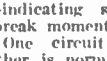
No.	Description	Shank	Length	Net Price
499	S.P.S.T.	$\frac{3}{16}$ "	$\frac{3}{4}$ "	\$0.27
1070	S.P.S.T.	$\frac{1}{8}$ "	1"	.33
1071	S.P.D.T.	$\frac{3}{16}$ "	$\frac{3}{4}$ "	.33
1072	S.P.D.T.	$\frac{1}{8}$ "	1"	.42
1073	D.P.S.T.	$\frac{3}{16}$ "	$\frac{3}{4}$ "	.51
1074	D.P.S.T.	$\frac{1}{8}$ "	1"	.60
1075	D.P.D.T.	$\frac{3}{16}$ "	$\frac{3}{4}$ "	.60
1076	D.P.D.T.	$\frac{1}{8}$ "	1"	.69



PUSH BUTTON SWITCHES

Two circuit non-indicating slow make and quick break momentary contact switch. One circuit is "ON" and the other is normally "OFF."

No. 743Price \$0.42



POWER SWITCHES

These heavy duty switches are ideal for primary circuits in transmitters. They are D.P.S.T. but can be paralleled for larger capacity. Rated 12 amps. 125 volts. Size $1\frac{1}{4}$ " x $\frac{3}{4}$ " x $\frac{3}{4}$ ". Shank $\frac{5}{8}$ " long. Push button and Toggle types.

No.	Description	Net Price
1270	Push button	\$.120
1269	Toggle	.69



FLEXIBLE COUPLINGS


For ganging units or shaft extensions. Fit $\frac{1}{4}$ " diameter shafts.

No.	Dia.	Insulation	Net
855	1 1/2"	Bakelite	\$0.21
845	1"	Fibre	.15
795	1 1/2"	Isotex	.27

High Voltage Type

Glazed Isolatite Rod Insulation


No. 741	—3 1/4" long.	Net \$0.48
No. 740	—1 3/4" long.	Net .39



HEAVY DUTY COUPLER

New type spring construction. Very flexible. Alsimag 196 disc is $1\frac{1}{2}$ " dia. x $\frac{3}{16}$ " thick. Fits $\frac{1}{4}$ " shafts.

Cat. No.	Insulation	Net
614	Alsimag 196	\$0.45
619	Bakelite	.30



FLEX-O-SHAFTS

Will turn at angles up to 90 degrees. Free from back lash. $\frac{1}{4}$ " hubs sweated on each end to fit any type coupling.


No.	859	—Length 3"	Net \$0.21
No.	860	—Length 6"	Net .30

GIANT SOCKETS

For Transmitting Tubes

Base made of Isotex, glazed top and sides to resist moisture. Snug fitting machined jack type contacts.


226	—50 watt size	Net \$0.60
227	—For 1K28, 803, etc.	Net .90



BAT HANDLE SWITCHES

Same construction as regular toggle switch except handle is shaped like ball bat and is tribo longer. Nickel plated. Shank $\frac{1}{8}$ ".

Cat. No.	Description	Net Price
SW-1115	S. P. S. T.	\$0.24
SW-1118	S. P. D. T.	.33
SW-1119	D. P. S. T.	.45
SW-1120	D. P. D. T.	.57



OSCILLATOR

High quality aluminum used. Raised polished letters on black satin finish. For transmitters, amplifiers, etc. Furnished with following inscriptions:

- Oscillator
- Receiver
- Send-Receive
- Power Amp.
- Neutralizer
- Fader
- Antenna
- Key
- A.C. Input
- Transceiver
- Speech Amp.
- Gain Control
- Grid
- Modulator
- Debugger
- Transmitter

ETCHED NAME PLATES

High quality aluminum used. Raised polished letters on black satin finish. For transmitters, amplifiers, etc. Furnished with following inscriptions:

- Amplifier
- Plate Voltage
- Off-On
- Class "B" Mod.
- Grid Current
- Crystal Osc. Plate
- Microphone Current
- 200-Ohm Input
- 200-Ohm Output
- 500-Ohm Input
- 500-Ohm Output
- Radio Record Speaker

Net Price.....\$0.06

RADIO BUD PRODUCTS

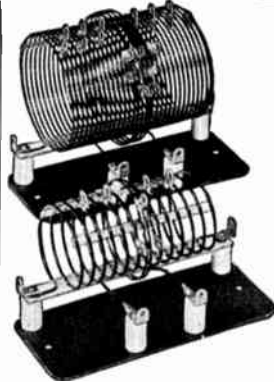
BAND SWITCH ASSEMBLIES



Made in 50 and 100 watt sizes. No. OCS-1 is for oscillator and buffer use with capacity coupling. Nos. OCS-2 and XCS-2 are for single ended operation with link coupling. Nos. OCS-3 and XCS-1 are center tapped and center-linked. All types except Nos. OCS-16 and XCS-16 are for all band operation from 10 to 160 meters. Nos. OCS-16 and XCS-16 are for 10 and 160 meters only. All units tune with

single 100 mmfd. condenser or dual 200 mmfd. condenser in split-stator. Supplied with nameplate, mounting hardware and instructions.

Cat. No.	Rating	Net Price
OCS-1	50 watts	\$3.30
OCS-2	50 watts	4.50
OCS-3	50 watts	5.40
OCS-16	50 watts	2.10
XCS-1	100 watts	6.00
XCS-2	100 watts	5.40
XCS-16	100 watts	3.75



ANTENNA MATCHING NETWORK COILS

Designed to meet all of the various requirements encountered in antenna matching networks. Made in 500 and 1000 watt sizes and in two values of inductance. The low frequency coil in each size is for 40 to 160 meter operation and the high frequency coil is for 10 and 20 meter operation. Coil and links have a large number of taps allowing the inductance and coupling to be varied over a wide range.

Cat. No.	Rating	Range in Meters	Net Price
ACV-1	500 watts	40 to 160	\$3.42
ACV-2	500 watts	10 to 20	2.64
ACM-1	1000 watts	40 to 160	6.60
ACM-2	1000 watts	10 to 20	5.10



EVER-READY TEST LEADS

Made of the finest quality insulated flexible wire. Black lead is negative, red positive.

No. 280—42" long. Supplied with spade terminals or phone tips.....Net Price \$0.36

No. 184—42" long. Removable needle point inserted into the chuck; penetrates the insulation without injury; spade or phone tip terminals.Net Price \$0.39

No. 1841—42" long. Long fixed needle point; spade or phone tip terminals. Net Price \$0.39

No. 621—De-Luxe Test Leads—60" long. Heavy duty with removable tips; phone tip terminals; handles are polished hard rolled fibre; extremely flexible. Continuity test tips are the chuck type.....Net Price \$0.75

BAR KNOBS



Genuine bakelite. White pointer stripe. Has numerous uses.

No.	Type	Size	Color	Net Price
K-579	A	1 1/4"	Black	\$0.06
K-580	A	1 1/4"	Walnut	.06
K-174	A	1 1/4"	Red	.09
K-204	A	1 1/4"	Green	.09
K-581	A	2 1/4"	Black	.08
K-582	A	2 1/4"	Walnut	.08
K-175	A	2 1/4"	Red	.11
K-205	A	2 1/4"	Green	.11
K-575	B	1 1/4"	Black	.06
K-576	B	1 1/4"	Walnut	.06
K-559	B	1 1/4"	Red	.09
K-577	B	2 1/4"	Black	.08
K-578	B	2 1/4"	Walnut	.08
K-560	B	2 1/4"	Red	.11

SEE BUD CATALOGUE FOR OTHER TYPES AND STYLES OF KNOBS.

NEUTRALIZING WRENCH



Inside of tube is broached. If end breaks part can be cut off.

- No. 254—5 1/2" long. Net Price.....\$0.15
- No. 255—8" long. Net Price..... .18
- No. 256—12" long. Net Price..... .24

DE LUXE ADJUSTABLE NEUTRALIZING TOOL



No metal parts. Made of high di-electric, hard rolled fibre. Screw driver slides into one end of handle.

- No. 236—Adjustable. 7" to 10".....\$0.39
- No. 237—Adjustable. 11" to 17"..... .51

BUD NEUTRO-WRENCH



Alligator jaw type for knurled and hex head trimmers. Metal blade screw driver at other end.

NEUTRALIZING SCREW DRIVER



- No. 235—No metal ends.....\$0.21
- 287—With metal blade..... .21

4-IN-1 NEUTRALIZING AND ALIGNING TOOL



- No. 118.....\$0.39
- 119M—Majestic Attachment12
- 119C—Crosley Attachment15

ASK FOR A COMPLETE BUD CATALOGUE WHICH DESCRIBES NUMEROUS OTHER MONEY SAVING ITEMS NOT LISTED HERE

JEWEL LIGHT ASSEMBLIES



For Radio and Electric Panel Switchboards, Signal Devices, etc. Single hole mounting. Jewel holder, polished chrome plated brass. Specify color wanted. Red, Green, Amber, Blue, Opal, Crystal

1/2" Dia. Jewel, Mtg. Bracket Depth 1 1/8" Mtg. hole dia. 1/8"

No.	Type Socket	Jewel	Net
JL 1692 F	Miniature	Facetted	\$0.15
JL 1692 S	Miniature	Smooth	.15
JL 1693 F	Cand. 110 volt	Facetted	.18
JL 1693 S	Cand. 110 volt	Smooth	.18
JL 1694 F	Min. Bayonet	Facetted	.18
JL 1694 S	Min. Bayonet	Smooth	.18

3/4" Dia. Jewel, Mtg. Bracket Depth 1 1/8" Mtg. hole dia. 1/8"

JL 1695 F	110 volt	Facetted	.36
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1" Dia. Jewel, Mtg. Bracket Depth 2" Mtg. hole dia. 1"

JL 1698 F	Cand. 110 volt	Facetted	.60
JL 1698 S	Cand. 110 volt	Smooth	.60
JL 1699 F	Min. Screw	Facetted	.60
JL 1699 S	Min. Screw	Smooth	.60
JL 1699 F	Min. Bayonet	Facetted	.60
JL 1699 S	Min. Bayonet	Smooth	.60

JEWEL HOLDERS

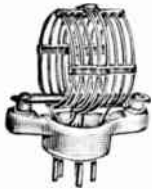


Fit panels up to 1/4" thick. Specify color wanted.

Red, Green, Amber, Blue, Opal, Crystal

No.	Jewel	Size	Net
JL 1696 F	Facetted	1/2"	\$0.09
JL 1696 S	Smooth	1/2"	.09
JL 1697 F	Facetted	3/4"	.24
JL 1691 F	Facetted	1"	.51

RADIO PRODUCTS



OSCILLATOR AND BUFFER COILS

Low loss, highly efficient, air wound. Windings are properly spaced and securely locked to acetate strips. Proper L/C ratio. Glazed ceramic base fits standard 5 prong tube socket. Conservative rating 50 watts.

OCL coils have link at center with main winding center tapped.

OEL coils have links at one end and are NOT tapped.

CENTER LINKED AND TAPPED

Cat. No.	Band	Capacity*	Net Price
OCL-160	160 Meters	90 mmfd.	\$0.99
OCL-80	80 Meters	75 mmfd.	.90
OCL-40	40 Meters	50 mmfd.	.90
OCL 10	10 Meters	28 mmfd.	.90
OCL-20	20 Meters	33 mmfd.	.90
OCL-5	5 Meters	18 mmfd.	.75

END LINKED NO TAP

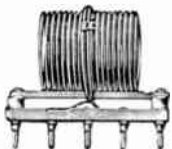
OEL-160	160 Meters	90 mmfd.	.99
OEL-80	80 Meters	75 mmfd.	.90
OEL-40	40 Meters	50 mmfd.	.90
OEL-20	20 Meters	33 mmfd.	.90
OEL-10	10 Meters	28 mmfd.	.90
OEL-5	5 Meters	18 mmfd.	.75

CENTER ADJUSTABLE LINK

OLS-160	160 Meters	95 mmfd.	.99
OLS-80	80 Meters	75 mmfd.	.90
OLS-40	40 Meters	50 mmfd.	.90
OLS-20	20 Meters	33 mmfd.	.90
OLS-10	10 Meters	21 mmfd.	.90

* Denotes total capacity required to tune to resonance at the low frequency end of the band.

AIR-WOUND TANK COILS



A highly efficient air-wound inductance having the proper L/C ratio for phone operation. Large size enameled copper wire in the coil insures against heating losses. All coils have fixed center link. Windings are cemented to acetate strips. Alsmag 196 insulation.

Nickel plated brass hardware.

150 WATT

Cat. No.	Band	Capacity*	Net Price
RCL-160	160 Meters	87 mmfd.	\$2.25
RCL-80	80 Meters	68 mmfd.	2.10
RCL-40	40 Meters	36 mmfd.	1.92
RCL-20	20 Meters	27 mmfd.	1.62
RCL-10	10 Meters	25 mmfd.	1.50
AM-1932	Mtg. base for above coils.		.48

500 WATT

VCL-160	160 Meters	90 mmfd.	2.70
VCL-80	80 Meters	69 mmfd.	2.40
VCL-40	40 Meters	26 mmfd.	2.10
VCL-20	20 Meters	23 mmfd.	1.95
VCL-10	10 Meters	21 mmfd.	1.80
VCL-5	5 Meters	14 mmfd.	1.65
AM-1356	Mounting Base for Above Coils		.66

KILOWATT

MCL-160	160 Meters	86 mmfd.	5.70
MCL-80	80 Meters	73 mmfd.	4.95
MCL-40	40 Meters	37 mmfd.	4.50
MCL-20	20 Meters	33 mmfd.	4.20
MCL-10	10 Meters	24 mmfd.	3.90
MCL-5	5 Meters	18 mmfd.	3.60
AM-1354	Mounting for Above Coils		1.05

* Denotes total capacity required to tune to resonance at the low frequency end of the band.

ADJUSTABLE LINK TRANSMITTER COILS



All coils in this series incorporate adjustable link coupling. In each series the link winding is attached to the jack bar into which the coils are plugged. One link coil is used for all tank coils in the series and is controllable from the panel by means of a ¼" shaft. The link coil on the 150 watt size is a single layer helical-wound coil. On the 500 watt and 1000 watt sizes, a new type eccentric helical wound link is used. This type of winding allows maximum coupling to be obtained with various diameters of tank coils.

150 WATT

Cat. No.	Band	Capacity*	Net Price
RLS-160	160 Meters	95 mmfd.	\$1.95
RLS-80	80 Meters	78 mmfd.	1.80
RLS-40	40 Meters	38 mmfd.	1.56
RLS-20	20 Meters	30 mmfd.	1.35
RLS-10	10 Meters	28 mmfd.	1.29
AM-1339	Base and link assembly for above		1.95

500 WATT

VLS-160	160 Meters	95 mmfd.	2.19
VLS-80	80 Meters	70 mmfd.	2.01
VLS-40	40 Meters	36 mmfd.	1.71
VLS-20	20 Meters	28 mmfd.	1.56
VLS-10	10 Meters	21 mmfd.	1.41
AM-1352	Base and link assembly for above		2.70

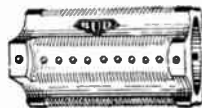
1000 WATT

MLS-160	160 Meters	95 mmfd.	4.80
MLS-80	80 Meters	65 mmfd.	4.35
MLS-40	40 Meters	37 mmfd.	3.90
MLS-20	20 Meters	33 mmfd.	3.60
MLS-10	10 Meters	25 mmfd.	3.15
AM-1340	Base and link assembly for above		4.20

* Denotes total capacity required to tune to resonance at the low frequency end of the band.

TRANSMITTER TANK FORMS

Made in three sizes to cover the inductance requirements of the amateur frequency spectrum. These forms are grooved for No. 10 wire or smaller and drilled with sufficient holes for wires and supports. Botex is a special moulded low loss ceramic having exceptional low loss properties. All forms are glazed.



No. 383—20 or 40 meter form is grooved twenty-four turns in 4" of winding space. Size 2½" O. D. x 5" long.
Net Price\$0.75

No. 384—20 or 10 meter form with supports.
Net Price\$1.35

No. 376—80 meter form is grooved thirty-two turns in 5" of winding space. Size 3" O. D. x 6" long.
Net Price\$1.05

No. 377—80 meter form with supports.
Net Price\$1.65

No. 393—160 meter form is grooved forty-eight turns in 6" of winding space. Space 4" O. D. x 7½" long.
Net Price\$1.35

No. 394—160 meter form with supports.
Net Price\$1.95

SHORT WAVE PLUG-IN COIL FORMS MADE OF LOW LOSS BAKELITE



Supplied with disc in top which permits writing in wave-length range, and makes identification positive. These forms are supplied in 4, 5, and 6 prong units to fit standard tube sockets. All sizes have eight ribs moulded on wall of coil forms which give low loss air core windings

GIANT COIL FORMS

2¼" in diameter. 3¼" winding space.

No.	List	Net
734	4 prong	\$0.39
735	5 prong	.42
736	6 prong	.45

Same as above, but threaded 12 turns per inch for space winding coils.

No.	Prong	Net
1221	4 Prong	\$0.54
1222	5 Prong	.57
1223	6 Prong	.60

SENIOR COIL FORMS

1½" in diameter. 2½" winding space.

No.	Prong	Net
125	4 Prong	\$0.21
126	5 Prong	.21
310	6 Prong	.24

JUNIOR COIL FORMS

1¼" in diameter. 2¼" winding space.

No.	Prong	Net
594	4 Prong	\$0.15
595	5 Prong	.18
596	6 Prong	.18

LO-COIL KITS



SENIOR

Wound on 1½" diameter coil forms. Covers wave-length of 16 to 200 meters when tuned with .00014 mfd. condenser. Each kit has 4 coils.

No.	Prong	Windings	Net
222	4 Prong	2 Windings	\$1.65
918	6 Prong	3 Windings	2.10
916	5 Prong	2 Windings	1.98

Secondary tapped for electron coupled circuits.

JUNIOR

Wound on 1¼" diameter forms. Wave-length range, 11 to 210 meters with .00014 mfd. condenser. 4 coils to kit.

No.	Prong	Windings	Net
384	4 Prong	2 Windings	\$1.20
356	6 Prong	3 Windings	1.74

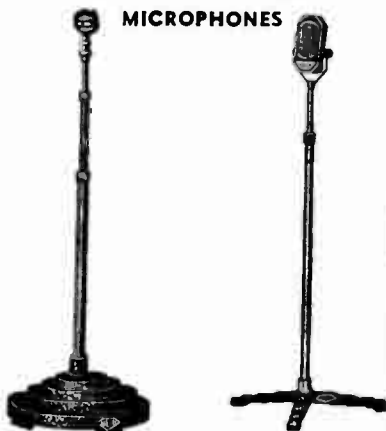
SUPERHETERODYNE

Consists of 8 coils. 4 detector coils and 4 oscillator coils to track with I.F. transformers tuned 465 KC. Wave-length range 13 to 200 meters with .00014 mfd. condenser.

No. 397Net \$3.30

RADIO PRODUCTS

BUD FLOOR STANDS FOR CRYSTAL, VELOCITY & DYNAMIC MICROPHONES



Insulated against rattling or dropping of adjustable stems. Positive and smooth acting chuck type lock. Telescoping stems finished in polished chromium plate. Two section stands adjustable 35" to 66". Three section 24" to 66". Heavy cast bases are finished in durable black crackle enamel. Adjustable stem has 5/8-27 thread. On stands supplied with ring, the ring is 6" dia. with E-Z hooks finished in black crackle enamel.

- No. 585—Net Price.....\$7.20
Two section; modernistic base, base dia. 12".
Weight 12 lbs.
- No. 587—Net Price.....\$8.10
Three section; modernistic, 12" dia. base.
Weight 12 lbs.
- No. 583—Net Price.....\$7.50
Three sections; tripod base, leg spread 17".
Weight 9 1/2 lbs.
- No. 586—Net Price.....\$6.00
Two section; tripod base, leg spread 17".
Weight 9 1/2 lbs.
- No. 584—Net Price.....\$5.10
Two section; modernistic 10" diameter base.
Weight 8 1/2 lbs.

No. 6753—6" Dia. Ring with 8 springs to fit stands listed above. Net Price.....\$0.90

DESK & BANQUET STANDS

Ruggedly built for use on tables, desks, pulpits, etc. Heavy cast base of modernistic design is finished in black crackle enamel and will not tip easily. Stems are chromium plated finish. Adjustable types have thumb nut locking device. Stem is threaded 5/8-27. Where rings are supplied, they are also finished in black crackle.



- No. 588—Net Price.....\$1.05
Height 6". Base Dia. 5". Weight 2 lbs.
- No. 589—Net Price.....\$1.35
Height 8". Base Dia. 6". Weight 3 1/4 lbs.
- No. 590—Net Price.....\$3.00
Height adjustable 10" to 16". Base Dia. 6".
Weight 3 1/2 lbs.
- No. 803—Net Price.....\$3.90
Same as No. 590, complete with 6" microphone ring and 8 springs.
- No. 591—Net Price.....\$3.45
Height adjustable 13" to 22". Base Dia. 6".
Weight 3 1/2 lbs.
- No. 802—Net Price.....\$4.35
Same as No. 591, complete with 6" microphone ring with 8 springs.

BUD DESK STANDS



These beautiful stands are preferred by most amateurs and are ideal for portable P.A. installations. Ruggedly constructed. Modernistic designed base casting. Black crackle finish.

No. 817—Net Price \$1.35
Height 9". Base Dia. 5".
5" octagonal microphone ring.

No. 818—Net Price.....\$1.65
Height 10". Base Dia. 6". 6" round microphone ring.

No. 819—Net Price.....\$2.01
Height 13". Base Dia. 6". 6" diameter round microphone ring.

CARBON GRANULES



Carefully selected and highly polished. Acid treated to remove all trace of ash. Will stand 20% more current without burning. Highly sensitive. Vial contains enough carbon to repack four two button microphones.

No. 410—Net Price.....\$0.45

MICROPHONE CABLE CLIP

Holds microphone cable parallel to stem. Made of spring steel and nickel plated. Fits around 1" dia. stem. Easily attached and adjusted.
Cat. No. 599—Net Price.....\$0.06 ea.

CONE STAND-OFF INSULATORS



These glazed ceramic insulators fill all requirements for insulated mountings and supports. A type and size for any purpose. Jack types accommodate standard banana plugs.

Cat. No.	Height	REGULAR			Net Price
		Top Dia.	Bottom Dia.	Thread	
I-300	3/8"	1 1/2"	5/8"	6-32	\$0.06
I-301	1"	1 1/2"	3/4"	8-32	.09
I-302	1 1/2"	5/8"	1"	10-32	.12
I-303	2 3/4"	3/4"	1 1/4"	10-32	.15
JACK TYPE					
I-304	1"	1 1/2"	3/4"	8-32	.12
I-305	1 1/2"	5/8"	1"	10-32	.15
I-306	2 3/4"	3/4"	1 1/4"	10-32	.21

CONE FEED-THRU INSULATORS



Excellent insulation when bringing high voltage and R.F. leads through panels, chassis, etc. Glazed Ceramic.

Cat. No.	Top Height	Bottom Height	Mounting Hole Dia.	Net Price
I-436	1"	1 1/2"	1 1/2"	.12
I-437	1 1/2"	3/4"	1 1/2"	.15
I-438	2 3/4"	3/8"	1 1/2"	.30
JACK TYPE				
I-453	1"	5/8"	1 1/2"	.15
I-454	1 1/2"	3/8"	1 1/2"	.18
I-455	2 3/4"	3/8"	1 1/2"	.33

NET

PHONE & MICROPHONE PLUGS



No. 230—Net Price.....\$0.24
Duplex; takes 2 cords with tips; bakelite handle.

No. 282—Net Price.....\$0.39
Same as above with shielded metal handle.

No. 1057—Net Price.....\$0.45
Three way mike plug; bakelite handle.

No. 284—Net Price.....\$0.66
Same as No. 1057 with shielded metal handle.

PORTABLE PHONE & MICROPHONE CONNECTORS

No. 1039—Net Price.....\$0.30
Two way; fits No. 230 plug; bakelite handle.

No. 279—Net Price.....\$0.54
Same as No. 1039 with shielded metal handle.

No. 1059—Net Price.....\$0.45
Three way; fits No. 1057 mike plug; bakelite handle.

No. 283—Net Price.....\$0.66
Same as No. 1059 with shielded metal handle.

No. 1058—Net Price.....\$0.30
Three way microphone jack for panel mounting.

No. 1038—Net Price.....\$0.18
Two way microphone jack for panel mounting.

ALL PURPOSE JACKS



Small in size, highly efficient. Nickel silver springs for equal, positive tension at all times. Contacts are pure silver. Large bakelite separators overlap springs for long leakage path. Supplied with insulating washers.

Cat. No.	Type	Net
1324	Open Circuit	\$.21
1325	Single Closed	.27
1326	3 Circuit Mic.	.30
1327	Double Closed	.36

JACK



Small, compact spring brass contacts, nickel plated. Supplied with insulating washers.

No. 232—Open Circuit. Net Price.....\$0.18

BUD GRID CLIPS



For transmitter, rectifier, metal and glass type tubes. Made from heavy gauge spring brass, cadmium plated.

No.	Type Tube	Net Price
490	Transmitting, 10 in pkg. Each	\$.05
107	Glass, 100 in pkg. Per C.	.09
108	Metal, 100 in pkg. Per C.	.09

RADIO



PRODUCTS

LO-LOSS TRANSMITTING INDUCTORS

COTO offers a very complete line of highly efficient inductors for All-Band operation. These inductors are wound with bright copper wire, protected from oxidation by a coating of colorless baked enamel and cemented in SLOTS in narrow strips of Cellulose Acetate, (not celluloid). The use of clear enamel, allows the skinning of the wire for taps without marring the appearance of the inductor. Note the "Q" data of each inductor, indicating its high efficiency.

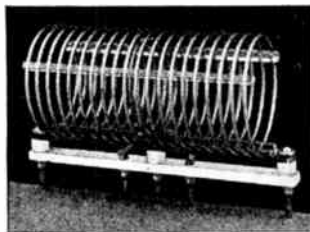
Inductors are available in eight types, covering the Amateur bands from 160 to 10 meters. The "T", "TL" and "TVL" series are designed to handle the output of a one kilowatt amplifier. The "B", "BT", "BTL" and "BTVL" series are intended for oscillator, buffer and low powered stages, not exceeding 300 watts. They are also suitable for constructing Pi-Section networks. The "A" series inductors are for antenna coupling.

LINK COUPLING TYPES

The TANK and Center-Tapped BUFFER types are available with three turn, internally mounted, fixed or rotatable variable link coils. The internal method of mounting, affords mechanical protection for both type links and obviates altering the optimum coupling adjustment in the latter type when band-changing. The advantages of variable coupling over those of fixed coupling are obvious.

All link type inductors are mounted on STEATITE bars, equipped with plugs to complete necessary connections, when inserted in proper mounting base listed below.

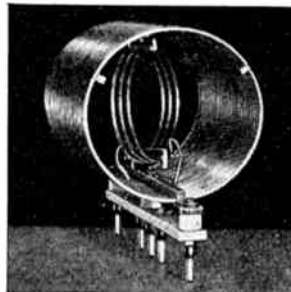
Standard mounting centers for the various groups of inductors, permit the inter-changing of units for All-Band operation.



"Maximum"
Condenser
Capacity
Recom-
mended

160M
types
75 Mmf.

All others
35 Mmf.

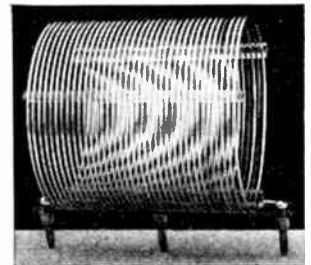


Mounting
Centers

T, TL, &
TVL
7 1/2"

B, BT,
BTL,
BTVL
5 1/4"

A-4"



TYPE 40TL

TYPE 80TVL

TYPE 160BT

Type	Wire Size	No. Turns	Dia.	"Q"	Net
HI-PWR. TANKS					
160T	12	42	5"	480	\$2.34
80T	10	30	4"	500	1.98
40T	10	20	3"	300	1.74
20T	10	10	3"	175	1.38
10T	10	6	2 3/4"	210	1.32
HI-PWR. TANKS (with Fixed Link)					
160TL	12	42	5"	480	\$3.30
80TL	10	30	4"	500	2.94
40TL	10	20	3"	300	2.70
20TL	10	10	3"	175	2.34
10TL	10	6	2 3/4"	210	2.28
HI-PWR. TANKS (with Variable Link)					
160TVL	12	42	5"	480	\$3.90
80TVL	10	30	4"	500	3.54
40TVL	10	20	3"	300	3.30
20TVL	10	10	3"	175	2.94
10TVL	10	6	2 3/4"	210	2.88
ANTENNA					
160A	12	16	5"		\$1.38
80A	10	12	4"		1.23
40A	10	8	3"		.99
20A	10	5	3"		.87

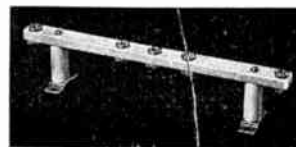
Type	Wire Size	No. Turns	Dia.	"Q"	Net
LO-PWR. TANKS - C.T. BUFFERS					
160BT	14	36	4"	400	\$1.80
80BT	14	34	2 3/4"	390	1.71
40BT	14	22	2 3/4"	270	1.44
20BT	14	10	2 3/4"	200	1.23
10BT	14	6	2 3/4"	180	1.17
LO-PWR. TANKS - C.T. BUFFERS (with Fixed Link)					
160BTL	14	36	4"	400	\$2.76
80BTL	14	34	2 3/4"	390	2.67
40BTL	14	22	2 3/4"	270	2.40
20BTL	14	10	2 3/4"	200	2.19
10BTL	14	6	2 3/4"	180	2.13
LO-PWR. TANKS - C.T. BUFFERS (with Variable Link)					
160BTVL	14	36	4"	400	\$3.36
80BTVL	14	34	2 3/4"	390	3.27
40BTVL	14	22	2 3/4"	270	3.00
20BTVL	14	10	2 3/4"	200	2.79
10BTVL	14	6	2 3/4"	180	2.73
LO-PWR. TANKS - STRAIGHT BUFFERS					
160B	14	36	4"	400	\$1.65
80B	14	34	2 3/4"	390	1.59
40B	14	22	2 3/4"	270	1.29
20B	14	10	2 3/4"	200	1.08
10B	14	6	2 3/4"	180	1.02

HONEYCOMB COILS



Turns	Ind. Mh.	Nat. W. L.	W. L. with .001 Mf.	Net
25	.03781	60.0	370	\$.30
35	.07810	92.5	532	.30
50	.1519	140.0	748	.33
75	.3160	179.0	1062	.36
100	.5614	268.0	1438	.39
150	1.2915	312.0	2160	.42
200	2.219	385.0	2838	.48
250	3.450	528.0	3570	.51
300	6.792	672.0	5015	.57
400	9.00	742.0	5720	.69
500	14.45	940.0	7220	.78
600	24.18	1280.0	9380	.87
750	32.31	1445.0	10880	.96
1000	60.50	1700.0	14600	1.14
1250	96.18	2295.0	18730	1.32
1500	143.00	2825.0	22860	1.50

STEATITE MOUNTING BASES



These units offer an accurate and convenient jack assembly for receiving COTO Inductors. The bar and insulators are of Steatite. All hardware is of nickel plated brass. Available in 2, 3 and 5 jack combinations.

Type	For Ind. Type	Jacks	Net
CI-8TM	T	3	\$1.14
CI-8TLM	TL, TVL	5	1.20
CI-6BM	B	2	1.08
CI-6BTM	BT	3	1.14
CI-6BTLM	BTL, BTVL	5	1.20



CONTROL WHEELS

In presenting these CONTROL WHEELS, 'Coto' establishes a new vogue in dial and indicator design for Radio Transmitter and Commercial applications where frequent and accurate adjustments must be made. Created to combine the advantages of both the dial and pointer

type controls, it has that professional appearance, so lacking in the former types.

The Control Wheel proper is moulded of genuine mirror-black bakelite and fitted with a polished nickel plated brass pointer mounted unobtrusively under one of the wheel struts.

The dial scale is made of 20 guage aluminum with black anodized finish. Dial markings and border are of polished aluminum, creating a striking contrast. A unique feature is the provision for interchangeable name plates designating the purpose of each control. The name plates are attached to the scale by two escutcheon pins, which also serve to hold the scale to the panel. Name plates are available in the titles listed below, choice of any one plate being included with each complete assembly.

For some applications the complete control with scale may not be required, therefore the wheels with pointers only, are available as listed.

The wheels are equipped with heavy brass inserts for 1/4" shafts. However, the 3/4" wheels can be supplied for 3/8" and 1/2" shafts on special order.

- DIMENSIONS:**
- { Bakelite Wheel 3 1/4" Dia., Height 1 1/2"
 - { Pointer Radius 1 3/8"; Scale Width 5 1/4"
 - { Bakelite Wheel 2 1/4" Dia., Height 1 1/4"
 - { Pointer Radius 1 1/4"; Scale Width 3 3/8"

COMPLETE CONTROL WHEELS

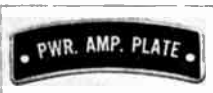
CI-40	(3 1/4" size)	NET \$1.50
CI-45	(2 1/4" size)	NET \$1.20

CONTROL WHEELS ONLY

CI-41	(3 1/4" size)	NET \$1.20
CI-46	(2 1/4" size)	NET \$.90

INDICATOR PLATES

For use with the Control Wheels listed above, although these indicator plates may be mounted above 3/4" and 2" round meters. Available only in titles listed.



- | | | |
|---------------------|---------------------|--------------------|
| 1. Oscillator | 8. Grid | 16. Class B. Mod. |
| 2. Osc. Plate | 9. Plate | 17. Sp. Amp. Plate |
| 3. Buffer | 10. Tank | 18. Fil. Voltage |
| 4. Buffer Plate | 11. Neutralize | 19. Plate Voltage |
| 5. Doubler | 12. Pwr. Amp. Grid | 20. % Modulation |
| 6. Doubler Plate | 13. Pwr. Amp. Plate | 21. Gain Control |
| 7. Buf. Dblr. Plate | 14. Mod. Grid | 22. Antenna |
| | 15. Mod. Plate | |

CI-42 (For CI-40) size 1 7/16" x 7/16"	NET 9c
CI-47 (For CI-45) size 1 1/16" x 7/16"	NET 9c

STAND-OFF INSULATORS

Made in two sizes, these genuine STEATITE insulators are suitable for mounting apparatus clear of absorbing surfaces. Heavy nickel plated brass fittings attached at both ends by 6-32 machine screws. They may be readily removed for special mounting on the core.



CI-30 Core size 3" x 1/2" —Overall lgth. 3 3/8"	NET \$1.18
CI-31 Core size 1 1/4" x 1/2" —Overall lgth. 1 7/8"	NET \$1.12



RF TRANSMITTING CHOKE

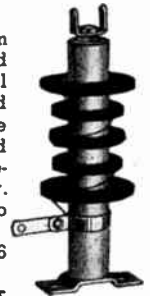
A compact heavy-duty choke for the high power stage. Particularly suited to the 160, 80, 40 Meter bands. Wound with five continuous universal tapered pies on a one-half inch core, three inches long. The effective impedance is high enough to make parallel plate feed practical. The current carrying capacity is conservatively rated at .6 amp. continuous and .8 amp. intermittent service.

Inductance, 3.6 mh.; D. C. resistance, 11 ohms; Size 3 3/8 in. x 1 3/8 in.
CI-20 NET \$7.5

RF TRANSMITTING CHOKE

Designed especially to offer maximum impedance at frequencies in the 80, 40, and 20 Meter bands. The pies are universal HONEYCOMB wound for low distributed capacity. This feature together with a unique winding method for obtaining a balanced distributed capacity between pies has resulted in a choke unparalleled in efficiency. STEATITE core and current ratings similar to the CI-20.

Inductance, 1.1 mh.; D. C. resistance, 6 ohms; Size 3 3/8 in. x 1 1/4 in.
CI-21 NET \$7.5



MIDGET RF CHOKE

A popular choke applicable to high frequency receiver construction and low power transmitter stages. Wound on a STEATITE core with four continuous pies, TAPERED to provide maximum impedance and minimum distributed capacity. Fitted with nickel plated caps, permitting either grid leak mounting or soldered connections.

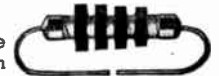
Inductance, 2.5 mh.; current carrying capacity .125 amp.; D. C. resistance 40 ohms; Size 1 1/2" x 1/2".
CI-11 NET \$3.6



MASTER RF CHOKE

This unit meets a demand for a choke capable of carrying more current than the popular 125 ma., type. Retaining all the features of the CI-11, it will pass 250 milliamperes without heating. Fine for high frequency transmitter work.

Inductance 2.2 mh.; D. C. resistance 18.5 ohms; size 1 1/2" x 5/8".
CI-12 NET \$4.5



FIVE METER CHOKE

This choke is extremely efficient at the specified frequency. A very compact unit for transceivers, etc., where space is at a premium. Single layer winding on STEATITE capped and pigtailed similar to the CI-11 and CI-12.

CI-13 NET \$2.4



SHAFT COUPLINGS

Useful wherever controls must be isolated from high voltage. STEATITE insulation provides ample insulation against flashover. Exact alignment of apparatus, not necessary due to slight flexibility of couplers. Absolutely no backlash. Made for 1/4" shafts only.

CI-32 Overall lgth. 3 15/16"	NET \$4.8
CI-33 Overall lgth. 2 3/16"	NET \$4.5





Audio (A) Transformers



AUDIO (A) INTERSTAGE TRANSFORMERS

For coupling the plate or plates of an amplifier stage to the grid or grids of the next stage where grid current is not drawn. C. H. T. interstage audio transformers have hum-bucking coil construction and balanced windings. Frequency response, using

parallel feed in the primary winding, is flat within $\pm 1\frac{1}{2}$ db from 60 to 8,000 c.p.s. Compound filled cases fully protect the coils from adverse climatic conditions.

Type No.	List Price	Classification	Ohms Impedance		Pri. M.A.	Turns Ratio	Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
			Pri.	Sec.				Width	Depth	W.	D.	H.	
Single Plate To Single Grid													
T-13A34	\$1.35	Receiver (midget)	10,000	90,000	8	3:1	3B	2 $\frac{3}{8}$	2 $\frac{3}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	3 $\frac{1}{2}$	2 $\frac{1}{2}$
T-29A99	1.75-	Receiver	10,000	90,000	8	3:1	2B	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2	2 $\frac{3}{8}$	1 $\frac{5}{8}$	1 $\frac{1}{2}$
T-57A36	2.00-						2F	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
T-57A38	2.75	Amplifier	10,000	90,000	8	3:1	2F	2 $\frac{3}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{2}$	3	2 $\frac{1}{2}$	2 $\frac{1}{2}$
T-15A73	6.50	C.H.T.	10000/2500	40000/10000	10*	2:1	3L	2 $\frac{1}{2}$	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$
Maximum Signal Level + 15 db *Parallel feed recommended.													



3B

Single Plate To Push-Pull Grids													
T-14A92	\$1.25	Receiver (midget)	10,000	90,000	8	3:1	3B	2	2 $\frac{3}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
T-13A35	1.50	Receiver (midget)	10,000	90,000	8	3:1	3B	2 $\frac{3}{8}$	2 $\frac{3}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
T-33A91	2.00	Receiver	10,000	90,000	8	3:1	2B	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2	2 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
T-57A39	2.25-						2F	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
T-57A40	2.75-	Amplifier	10,000	90,000	8	3:1	2B	2 $\frac{3}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{2}$	3	2 $\frac{1}{2}$	2 $\frac{1}{2}$
T-57A41	3.00-						2F	2 $\frac{3}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{2}$	3	2 $\frac{1}{2}$	2 $\frac{1}{2}$
T-74A31	3.25	Amplifier	10,000	10,000	8	1:1	2F	2 $\frac{3}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{2}$	3	2 $\frac{1}{2}$	2 $\frac{1}{2}$
T-57A42	3.25	Receiver (large)	10,000	90,000	8	3:1	2B	2 $\frac{3}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{2}$	3	2	2
For coupling screen grid or power detector (Clarion AC-60)													
T-15A74	6.50	C.H.T.	10,000/2,500	40,000/10,000	10*	2:1	3L	2 $\frac{1}{2}$	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$
Max. signal level + 15 db *Parallel feed recommended.													



2B

Push-Pull Plates To Push-Pull Grids													
T-13A36	\$2.00	Receiver (midget)	20,000	20,000	8†	1:1	3B	2 $\frac{3}{8}$	3	1 $\frac{3}{4}$	2	1	1
T-58A70	3.25	Amplifier—Split Secondary	20,000	45,000	10†	1.5:1	2F	2 $\frac{3}{8}$	3 $\frac{1}{2}$	2 $\frac{1}{2}$	3	2 $\frac{1}{2}$	2 $\frac{1}{2}$
T-15A75	7.00	C.H.T.	20,000/5,000	45,000/11,250	10†	1.5:1	3L	2 $\frac{1}{2}$	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$
Maximum signal level + 15 db													

†Each side.

Universal Interstage Replacement Transformer

Will couple single plate to single grid, single plate to push-pull grids or push-pull plates to push-pull grids. Has split secondary.													
T-17A02	\$2.25	Receiver	Universal	Universal	10	3:1	2F	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{3}{4}$	1 $\frac{1}{2}$



2F

Low Impedance Source (Microphone, Line or Mixer) to Grid

T-65A73	\$2.75	DB mike to grid	200/50	100,000	1:22.2	2F	2 $\frac{3}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{2}$	3	2	2	2
T-58A37	2.25	DB mike to grid	200/50	100,000	1:22.2	2F	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{3}{8}$	1 $\frac{5}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
T-83A78	2.00	Single button mike to single or P-P grids	100	400,000 Ct.	1:64	2F	2 $\frac{3}{8}$	2 $\frac{3}{8}$	1 $\frac{1}{2}$	2 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
T-86A02	1.75					2B	2 $\frac{3}{8}$	2 $\frac{3}{8}$	1 $\frac{1}{2}$	2 $\frac{3}{8}$	1	1	1
T-55A16	2.75	Dyn. mike, line or mixer to single or P-P grids	200/50	100,000 Ct.	1:22.3	2F	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
T-61A94	3.25	Line to single or P-P C.I.A. grids	500/125	100,000 Ct.	1:14.1	2F	2 $\frac{3}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{2}$	3	2 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$
T-72A59	1.65	Plate and Single Button microphone to grid	5,000 200	100,000	1:3.25 1:35	2B	2 $\frac{1}{8}$	2 $\frac{3}{8}$	1 $\frac{3}{8}$	2	2	2	2
T-14A94	2.50	Voice Coil to grid	4-8	100,000	1:112	2B	2 $\frac{3}{8}$	2 $\frac{3}{8}$	1 $\frac{3}{4}$	2 $\frac{3}{8}$	1	1	1
T-15A66	7.25	C.H.T. Low Impedance to grid	500/333/250/ 200/125/50	60,000/15,000 Single Grid	1:10.95	3L	2 $\frac{1}{4}$	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$
T-15A67	8.00	C.H.T. Low Impedance to P-P grids	500/333/250/ 200/125/50	120,000/30,000 P-P Grids	1:15.5	3L	2 $\frac{1}{4}$	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$
T-15A68	8.00	C.H.T. Low Impedance to single grid	60/38/30/22/ 15/10/5.5/2.5	60,000/15,000 Single Grid	1:31.6	3L	2 $\frac{1}{4}$	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$
T-17A42	9.00	C. H. T. MAGNETICALLY SHIELDED	500†/333/250/ 200†/125/50	50,000 Single Grid	1:10	3U	2 $\frac{3}{8}$	2	2 $\frac{3}{8}$	2 $\frac{3}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Min. level—20 db.													



3L

Microphone or Line to Mixer or Line

T-70A83	\$3.50	Crystal mike to line or mixer	100,000	200/50	1:22.4	2F	2 $\frac{3}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{2}$	3	2 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$
T-15A69	7.25	C.H.T. Low Impedance to mixer or line	500/333/250/ 200/125/50	500/333/250/ 200/125/50	1:1	3L	2 $\frac{1}{4}$	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	2	2	2
T-15A70	7.50	C.H.T. Dyn. mike to mixer or line	60/38/30/22/ 15/10/5.5/2.5	500/333/250/ 200/125/50	1:2.88	3L	2 $\frac{1}{4}$	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	2	2	2

*Indicates Primary M.A.

Tube to Line or Mixer (Low Level)

*Indicates Primary M.A.

T-14A90	\$2.50	Sgl. or P-P Plates to line or mixer	20,000 Ct.	500/125 (200/50—for T-14A91 only.)	8*	2F	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$
T-14A91	2.50												
T-72A59	1.65	Plate and sgl. button mike to grid	5,000 and 200	100,000	10*	2B	2 $\frac{1}{2}$	2 $\frac{3}{8}$	1 $\frac{5}{8}$	2	2	2	2
T-15A71	7.25	C.H.T. single plate to line or mixer.	20,000/5,000 Single Plate	500/333/250/ 200/125/50	8*	3L	2 $\frac{1}{4}$	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$
T-15A72	7.25	C.H.T. P-P plates to line or mixer.	20,000/5,000 P-P Plates	500/333/250/ 200/125/50	0*	3L	2 $\frac{1}{4}$	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$
T-17A43	9.00	C.H.T. MAGNETICALLY SHIELDED	10,000 to 15,000	500†/333/250/ 200†/125/50	0	3U	2 $\frac{3}{8}$	2	2 $\frac{3}{8}$	2 $\frac{3}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$

† Balanced center tap.



3U

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MICROPHONE CABLE TRANSFORMERS

Permit quick and efficient change from high to low impedance microphone input on any amplifier. Hum pick-up is reduced to a minimum through the use of magnetic shielding. These Microphone Cable transformers, exclusively Thordarson, are

connected in series with the microphone cable and the amplifier input connector and are small and inconspicuous. Frequency Response $\pm 1\frac{1}{2}$ db from 30 to 15,000 c.p.s.



3Z

Type No.	List Price	Application	Ohms Impedance		Turns Ratio	Mtg. Fig.	Dimensions			Wt. Lbs.
			Pri.	Sec.			W.	D.	H.	
T-14A75	\$14.50	Low impedance mic. to high impedance input	30-50	50,000	1:31.6	3Z	1	1	2 1/2	3/4
T-14A76	14.50		200-250	50,000	1:14.14	3Z	1	1	2 1/2	3/4

CHOKES AND REACTORS (C)

Parallel Feed Audio Reactors

For supplying plate current to a vacuum tube where it is desirable to isolate plate current from the transformer primary or where the voltage drop caused by a resistor load is objectionable.



2F

Type No.	List Price	Application	Typical Tubes	Induct. Hen.	Cur. M.A.	D.C. Ohms	R.M.S. Test Volts	Mtg. Fig.	Centers		Dimensions			Wt. Lbs.
									Width	Depth	W.	D.	H.	
T-37C36	\$2.00	Plate Impedance	56-30-76-6C5-55-85, etc.	300	5	6470	1600	2F	2 1/2	2 1/2	2 1/2	2 3/4	1 1/2	
T-67C46	1.75							2B	2 1/2	2 1/2	2 1/2	2 3/4	1 1/2	
T-52C98	1.75	Plate Impedance for screen Grid detector or as grid impedance	24-57-56-76-6C5-6F5-6J7	700	.5	6150	1600	2F	2 1/2	2 1/2	1 1/2	2 3/4	1 1/2	
T-29C27	1.50							2B	2 1/2	2 1/2	2 3/4	1		
T-68C08	1.75	Plate Impedance or Filter	45-46-10, etc.	22	35	405	1600	2F	2 1/2	2 1/2	2 1/2	2 3/4	1 1/2	
T-18C92	1.50							2B	2 1/2	2 1/2	2 3/4	1 1/2		
T-15C52	5.00	C.H.T. Plate Impedance	6C5-6A6-6F8G	30 Parallel 120 Series	35	17	1600	3L	2 1/2	2 1/2	3	3 1/2	3	
T-15C53	5.50		6V6-6F6-6E6											12 Parallel 50 Series	100	50	1600	3L	2 1/2	2 1/2	3	3 1/2	3 1/2
T-15C54	5.50	C.H.T. Plate Impedance	2A3-6A3-6A5G	8 Parallel 32 Series	150	75	1600	3L	2 1/2	2 1/2	3	3 1/2	3 1/2	
			6B4G-6L6-6Y6G											



2B

Tuned Audio Circuit Reactors

Type No.	List Price	Application	Induct. Hen.	Cur. M.A.	D.C. Ohms	R.M.S. Test Volts	Mtg. Fig.	Centers	Dimensions	Wt. Lbs.
T-81C15	\$2.50	Tuned Audio Circuits	.75	.5	30	2B	2 1/2	2 1/2	1 1/2	2 1/2
T-93C20	3.00	Tuned Audio Circuits	250	.5	6400	2B	2 1/2	2 1/2	2 1/2	1 1/2
T-74C30	1.50	Tuned Audio Circuits or Filter	42	15	2100	2B	2	1 1/2	2 1/2	1



3L

DUAL TONE CONTROL COMPONENTS

T-14C70	2.50	Tone Control, hum-bucking type	22	0	220	3Y	1 1/2	1 1/2	1 1/2	2 1/2	1 1/2
R-1068	2.50	Dual tone control potentiometer									



3B

FILTER CHOKES

Thordarson filter reactors are rated in henries under actual working conditions. It is well known that as the D.C. current in a choke increases, there is a corresponding decrease in inductance. In selecting a filter choke from this listing, full assurance may be had that inductance rating has been measured under full operating load conditions.

Replacement Filter Chokes

Type No.	List Price	Inductance		Current Rating M.A.	D.C. Res. Ohms	R.M.S. Test Volts	Mtg. Fig.	Centers		Dimensions			Wt. Lbs.
		At Zero D.C.	At Rated D.C.					Width	Depth	W.	D.	H.	
T-13C26	\$.90	21	8	40	530	1600	3B	2	2 1/2	1 1/2	1 3/4	1 1/2	
T-13C27	1.10	22	10	40	475	1600	3B	2 1/2	2 1/2	1 1/2	1 3/4	3/4	
T-13C28	1.20	20	10	65	460	1600	3B	2 1/2	3	1 1/2	2	1	
T-43C92	1.65	24	10	75	260	1600	2C	1 1/2	1 1/2	2	1 1/2	2 3/4	1 1/2
T-47C07	1.65	20	12	75	410	1600	3B	3 1/2	3 1/2	1 1/2	2 1/2	1 1/2	
T-44C02	1.50	31	12	80	405	1600	3B	2 1/2	3 1/2	2	2	1 1/2	
T-57C51	1.50	15	6	80	138	1600	2B	2 1/2	2 1/2	2	2 3/4	1 1/2	
T-13C29	1.60	20	9	85	250	1600	3B	2 1/2	3 1/2	2	2	1 1/2	
T-68C07	2.00	32	15	85	375	1600	2B	2 1/2	3 1/2	2 1/2	3	2	
T-57C53	2.00	27	10	110	200	1600	2B	2 1/2	3 1/2	2 1/2	3	2 1/2	
T-75C49	1.50	22	8	120	290	1600	3B	2 1/2	3 1/2	2	2	1 1/2	
T-53C19	1.50						2B	2 1/2	2 1/2	2	2 3/4	1 1/2	
T-13C30	2.00	25	8	150	200	1600	2B	2 1/2	3 1/2	2 1/2	3	2 1/2	



2C

Filter Chokes for Replacement in AC-DC Receivers

T-14C61	\$1.00	14	7	55	200	1600	3B	2 1/2	2 1/2	1 1/2	1 3/4	3/4
T-14C62	1.00	16	8	55	250	1600	3B	2 1/2	2 1/2	1 1/2	1 3/4	3/4
T-14C63	1.00	19	8	55	300	1600	3B	2 1/2	2 1/2	1 1/2	1 3/4	3/4
T-14C64	1.00	21	10	55	350	1600	3B	2 1/2	2 1/2	1 1/2	1 3/4	3/4



2G

Filter Chokes for Amplifiers and Small Transmitters

T-57C52	\$1.75	15	5	80	138	1600	2F	2 1/2	2 1/2	2 1/2	2 3/4	1 1/2	
T-16C07	2.25	32	15	85	375	1600	2F	2 1/2	3 1/2	2 1/2	3	2 1/2	
T-57C54	2.25	27	10	110	200	1600	2F	2 1/2	3 1/2	2 1/2	3	2 1/2	
T-49C91	1.50	12	4	120	160	1600	2F	2 1/2	2 1/2	1 1/2	2 3/4	1 1/2	
T-17C00-B	2.75	28	12	150	231	1600	2F	3 1/2	3 1/2	1 1/2	3 1/2	3 3/4	
T-74C29	3.75	29	15	150	200	2000	2G	2 1/2	2 1/2	3 1/2	3 1/2	4 1/2	5 1/2
T-67C49	2.75	12	5	200	80	1600	2F	3 1/2	3 1/2	3 1/2	3 1/2	3 3/4	
T-75C51	5.00	24	13	250	121	1600	2G	3	2 1/2	3 1/2	3 1/2	4 1/2	8



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Chokes (C) — Driver (D) Transformers



CHOKES (C)

Type No.	List Price	Inductance Henries	Current M.A.	R.M.S. Test Volts	D.C. Res.	Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
							Width	Depth	W.	D.	H.	
T-15C54	\$5.50	8 Parallel 32 Series	150 75	1,600	184 735	3L	2 1/2		2 3/4	3	3 1/2	3 1/2
T-15C55	7.00	2 Parallel 8 Series	500 250	1,600	32 130	3L	3 3/4	2 3/4	4	4 1/2	4 3/4	7 1/2



3L

TRANSMITTER INPUT AND FILTER CHOKES

Matched input and smoothing chokes for amateur, amplifier or experimental applications. Inductance values are measured under full load conditions and adequate insulation is provided for recommended service.

Type No.	List Price	Current D.C. M.A.	Inductance Henries	D.C. Res. Ohms	R.M.S. Test Volts	Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
							Width	Depth	W.	D.	H.	
Input Chokes "19" Series												
T-19C39	\$3.25	150	5-20	215	3000	2F	3 3/4		3 3/4	3 3/4	3 1/2	3 3/4
T-19C35	4.00	200	5-20	130	3000	2D	3 1/4	2 1/2	3 3/4	3 3/4	4	5 1/2
T-19C36	6.50	300	5-20	105	5000	2D	2 3/4	3 1/2	3 3/4	4 1/4	4 3/4	10 3/4
T-19C37	10.00	400	5-20	90	5000	2J	3 1/4	3 1/4	4 1/4	5 3/4	6 1/4	19 1/4
T-19C38	14.00	500	5-20	75	5000	2J	3 1/4	3 3/4	5	5 1/2	6 3/4	25 1/4
Smoothing Chokes "19" Series												
T-19C46	\$3.25	150	12	215	3000	2F	3 3/4		3 3/4	3 3/4	3 1/2	3 3/4
T-19C42	4.00	200	12	130	3000	2D	3 1/4	2 1/2	3 3/4	3 3/4	4	5 1/2
T-19C43	6.50	300	12	105	5000	2D	2 3/4	3 1/2	3 3/4	4 1/4	4 3/4	10 3/4
T-19C44	10.00	400	12	90	5000	2J	3 1/4	3 1/4	4 1/4	5 3/4	6 1/4	19 1/4
T-19C45	14.00	500	12	75	5000	2J	3 1/4	3 3/4	5	5 1/2	6 3/4	25 1/4



2D

C.H.T. TRANSMITTER CHOKES

Conservatively designed for continuous and quiet operation. Cases are compound filled for complete coil protection.

C.H.T. Input Chokes

T-15C36	\$8.00	200-20	5-25	105	4,000	3L	2 3/4	3 1/2	4 1/2	4 1/2	4 3/4	10
T-15C37	10.00	300-30	5-25	78	4,000	3L	3 3/4	4 1/2	5 1/2	5 1/2	6 3/4	22
T-15C38	14.00	400-30	5-25	95	4,000	3L	3 3/4	4 1/2	5 1/2	5 1/2	6 3/4	24
T-15C39	22.00	500-30	5-25	86	10,000	3L	4 1/2	5 1/2	5 3/4	7 1/2	8 1/4	38 1/2
T-15C41	26.50	650-50	5-25	46	10,000	3L	5 1/2	6 1/2	7	7 3/4	8	51



2J

C.H.T. Smoothing Chokes

T-15C45	\$8.00	200	12	105	4,000	3L	2 3/4	3 1/2	4 1/2	4 1/2	4 3/4	10
T-15C46	10.00	300	12	78	4,000	3L	3 3/4	4 1/2	5 1/2	5 1/2	6 3/4	22
T-15C47	14.00	400	12	95	4,000	3L	3 3/4	4 1/2	5 1/2	5 1/2	6 3/4	24
T-15C48	22.00	500	12	86	10,000	3L	4 1/2	5 1/2	5 3/4	7 1/2	8 1/4	38 1/2
T-15C50	26.50	650	12	46	10,000	3L	5 1/2	6 1/2	7	7 3/4	8	51

DRIVER (D) TRANSFORMERS

For coupling the plate or plates of an amplifier stage to the grids of an amplifier stage in which grid current is drawn during a part of the audio cycle.

Type No.	List Price	Driver Tubes	Output Tubes	Class	Ratio Pri. to Sec.	Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
							Pri. M.A.	Fig.	Width	Depth	W.	

DRIVER TRANSFORMERS FOR SPECIFIC APPLICATIONS

These driver transformers have the correct primary to secondary ratio for the tubes specified, which assures good regulation and minimum driver distortion on the positive grid peaks. The first three types are specifically designed for replacement requirements.

T-78D46	\$1.50	1-30	1-1J6G, 19 2-30	B	2.4:1	7	2B	2 1/2	2 3/4	1 3/4	2	3/4
T-17D01	2.00	1-6F6 Triode 1-42 Triode, 1-2A5 Triode	2-6F6, 6L6, etc.	AB	1.7:1 1.5:1, 1.3:1	31	3B	2 1/2	3 3/4	2	2	1 1/2
T-14D93	1.75	1-76 Triode	1-6A6, 6N7	B	4:1	8	3B	2 3/4	2 3/4	1 3/4	1 3/4	3/4
T-19D06	2.75	1-6A6, 1-6N7, 1-6C5	1-6A6, 6N7	B	5:1, 4:1, 3:1, 2.5:1	10	2F	2 3/4	2 3/4	2 1/4	2 3/4	1 1/4
T-54D63	2.25	1-30, 1-49, 1-6C5	1-1J6G, 19, 2-49, 2-6V6 B, AB2	AB2	2.4:1	7	2F	2 3/4	2 3/4	1 3/4	2 3/4	1 1/4
T-67D47	2.50	1-6N7, 6A6, 53	1-6N7, 6A6, 53	B	5.25:1	10	2F	2 3/4	2 3/4	2 1/4	2 3/4	1 1/4
T-81D52	3.25	1-6C5, 76 1-56	2-6F6 Triode 2-42, 2A5 Triode	AB AB	1.82:1 1.67:1	8	2F	2 3/4	3 3/4	2 1/4	3	2 1/4
T-84D59*	3.25	2-6C5, 6N7 2-6A6, 53	2-6L6, 6V6 2-6N7, 6A6, 53	AB2 B	5:1	10	2F	2 3/4	3 3/4	2 1/4	3	2 1/4
T-74D32	3.25	2-6C5, 76, 56	2-6F6, 42, 2A5 4-2A3, 6B4G	AB2 AB	3:1	10	2F	2 3/4	3 3/4	2 1/4	3	2 1/4
T-81D42	3.25	1-6F6 Triode 1-42 Triode 1-2A5 Triode	2-6F6 Triode 2-42 or 2-2A5 Pentode	AB2 AB2 AB2	1.7:1 1.5:1 1.3:1	31	2F	2 3/4	3 3/4	2 1/4	3	2 1/4
T-17D03*	4.50	1-6F6 Triode	2-6L6	AB2	1.4:1	40	2F	3 3/4	3 3/4	3 1/4	3 1/2	3 3/4
T-17D04*	4.50	2-6F6	4-6L6	AB2	2.6:1	32	2F	3 3/4	3 3/4	3 1/4	3 1/2	3 3/4
T-67D78	3.00	1-46, 59, 6F6, 42, 2A5 Triode	2-46, 59 2-6L6	B AB2	2.2:1	32	2F	2 3/4	3 3/4	2 1/4	3	2 1/4

*Split secondary as required for inverse feedback and separate power tube bias.

Line-to-Grid Driver Transformers (High Level)

T-83D21	\$3.50	Line 500 ohms	2-6L6, 50 12,500/5,100 Ohms	AB	1:3.2, 1:5	2F	2 3/4		3 3/4	2 1/4	3	2 1/4
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2F



2B



3B



UNIVERSAL AND MULTI-MATCH DRIVER (D) TRANSFORMERS

Versatility of application reduces to a minimum transformer obsolescence which is a costly problem to the amateur in these days of rapid tube development. Through the use of five ratios

on each transformer, these transformers will handle all driver requirements usually encountered in amateur transmitter circuits.



4D

Type No.	List Type	Cap. Watts	Max. Pri. M.A. Per Side	Ratio Pri. to 1/2 Sec.	Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs
						Width	Depth	W.	D.	H.	
Universal Driver Transformers "19" Series											
T-19D01	\$6.00	15	60	1:1, 1.2:1, 1.4:1, 1.6:1, 1.8:1	4D	3 3/8	2 7/8	3 3/8	3 3/8	3 1/2	3 1/2
T-19D02	6.00	15	60	2:1, 2.2:1, 2.4:1, 2.6:1, 2.8:1	4D	3 3/8	2 7/8	3 3/8	3 3/8	3 1/2	3 1/2
T-19D03	6.00	15	60	3:1, 3.2:1, 3.4:1, 3.6:1, 3.8:1	4D	3 3/8	2 7/8	3 3/8	3 3/8	3 1/2	3 1/2
T-19D04	6.00	15	60	4:1, 4.5:1, 5:1, 5.5:1, 6:1	4D	3 3/8	2 7/8	3 3/8	3 3/8	3 1/2	3 1/2
T-19D05	6.00	15	Primary for 500 ohm line	1:3.15, 1:2.75, 1:2.5, 1:2.25, 1:2, 1:1.75, 1:1.4, 1:1.25, 1:1.85, 1:1.75	4D	3 3/8	2 7/8	3 3/8	3 3/8	3 1/2	3 1/2



3H

C.H.T. Multi-Match Driver Transformers Feature Convenient Switchboard Plug-In Terminal Board and Compound Filled Cases

Type No.	List Price	Cap. Watts	Max. Pri. M.A. Per Side	Ratio Pri. to 1/2 Sec.	Mtg. Fig.	Mtg. Centers Width	Mtg. Centers Depth	Dimensions W.	Dimensions D.	Dimensions H.	Wt. Lbs.
T-15D78*	8.25	15	60	3:1, 3.2:1, 3.4:1, 3.6:1, 3.8:1	3H	3 3/8	2 7/8	4	4 1/2	4 3/8	6
T-15D79*	8.25	15	60	4:1, 4.5:1, 5:1, 5.5:1, 6:1	3H	3 3/8	2 7/8	4	4 1/2	4 3/8	6
T-15D82	8.25	15	Primary for 500 ohm line	1:3.15, 1:2.75, 1:2.5, 1:2.25, 1:2, 1:1.75, 1:1.4, 1:1.25, 1:1.85, 1:1.75	3H	3 3/8	2 7/8	4	4 1/2	4 3/8	5 3/4
T-15D83	11.50	30	Primary for 500 ohm line	1:3.15, 1:2.75, 1:2.5, 1:2.25, 1:2, 1:1.75, 1:1.4, 1:1.25, 1:1.85, 1:1.75	3H	3 3/8	2 7/8	4	4 1/2	4 3/8	8 1/2

*P.P. 45 or 2A3, 6B4G.



2B

FILAMENT (F) TRANSFORMERS

The essentials of improved voltage regulation and minimum heat rise have been given prime consideration in the design of these units. Ratings given are for continuous operation at full load.



2N

Type No.	List Price	Primary Volts	Secondary Volts	Sec. Amps.	Pri. V.A.	R.M.S. Test Volts	Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
								Width	Depth	W.	D.	H.	
SINGLE SECONDARY													
T-50F61	\$1.50	115	2.5 Ct.	3.5	10	1600	2B	2 3/8	2 1/8	1 3/4	2 3/8	1	
T-19F88	1.75	115	2.5 Ct.	5.25	15	1600	2B	2 3/8	2 1/8	2	2 3/8	1 1/2	
T-19F89	2.25	115	2.5 Ct.	10	25	1600	2B	2 3/8	2 1/8	3	3	2	
T-19F90	3.00	115	2.5 Ct.	10	25	7500	3C	2 1 3/4	2 1/8	2 1/4	3 3/4	2 1/4	
T-64F33	4.50	105/110/115	2.5 Ct.	10	25	7500	2N	3 1/4	2 1/8	3 3/4	3 3/4	4 4 1/2	
T-19F82	5.00	115	2.5 Ct.	15	45	10000	3C	3 1/4	1 3/4	3 3/4	2 3/4	4 4	
T-63F99	3.25	115	5 Ct.	4	20	1600	2D	2 1/4	1 3/8	2 1/8	3	3 1/8	2 1/4
T-19F83	2.25	115	5 Ct.	5	30	1600	2B	2 3/8	2 1/8	3 3/8	2 1/8	3	2
T-19F84	2.75	115	5 Ct.	8	45	1600	3C	2 1 3/4	2 1/8	2 3/4	3 3/4	2 3/4	
T-19F85	3.25	115	5 Ct.	13	75	1600	3C	3 3/4	1 3/4	3 3/4	2 3/4	4 4	
T-19F86	5.50	115	5 Ct.	21	120	1600	3C	3 3/4	2 1/4	3 3/4	2 3/4	4 4 1/2	
T-74F23	5.00	105/110/115	5 Ct.	13	75	1600	2D	3 3/4	1 3/8	3 3/4	3 3/4	4 4 1/2	
T-74F24	7.50	105/110/115	5 Ct.	21	125	1600	2D	2 3/4	1 3/8	3 3/4	3 3/4	4 5/8	5 1/4
T-19F91	2.25	115	5.25 Ct.	4	25	1600	3C	2 1 3/4	2 1/8	2 3/4	3 3/4	2 1/4	
T-19F92	3.25	115	5.25 Ct.	13	75	1600	3C	3 1/4	1 3/4	3 3/4	2 3/4	4 4	
T-19F80	1.25	115	6.3 Ct.	1	7	1600	2B	2	1 1/8	1 5/8	2	5/8	
T-19F81	1.50	115	6.3 Ct.	2	14	1600	2B	2 3/8	2 1/8	1 3/4	2 3/8	3/4	
T-19F97	1.75	115	6.3 Ct.	3	21	1600	2B	2 3/8	2 1/8	2	2 3/8	1 1/2	
T-61F85	2.00	115	6.3, 5, 2.5	2.5	18	1600	3E	3 1/4	2 1/8	3 3/8	2	2 3/4	1 1/2
T-73F60	3.75	105/110/115	6.3 Ct.	5	36	1600	2D	2 1/4	1 3/8	2 7/8	2 3/4	3 3/4	3 3/4
T-19F98	2.75	115	6.3 Ct.	6	47	1600	3C	2 1 3/4	1 3/8	2 5/8	2 3/8	3 3/4	2 3/4
T-19F99	3.50	115	6.3 Ct.	10	73	1600	3C	3 1/4	1 3/4	3 3/4	2 1/4	4 4	
T-19F93	2.25	115	7.5 Ct.	4	34	1600	3C	2 1 3/4	2 1/8	2 3/4	3 3/4	2 3/4	
T-19F94	3.00	115	7.5 Ct.	8	67	1600	3C	2 1 3/4	2 1/4	3	2 7/8	3 3/4	4
T-92F20	4.75	115	7.5 Ct.	8	68	1600	2D	3 1/4	2 1/4	3 3/4	3 3/4	4 4 3/4	
T-19F95	2.75	115	10 Ct.	4	48	1600	3C	2 1 3/4	2 1/8	2 3/4	2 1/4	3 1/4	2 3/4
T-19F96	3.50	115	10 Ct.	8	92	1600	3C	2 1 3/4	2 1/4	3	2 7/8	3 3/4	4
T-64F14	4.75	105/110/115	10 Ct.	8	90	1600	2D	3 1/4	2 1/8	3 3/4	3 3/8	4 5	
T-19F87	6.25	115	10 Ct.	12	140	1600	3C	3 1/4	2 1/2	3 3/4	3	4 6 3/4	



3C



2D



3E

MULTIPLE SECONDARIES

T-19F76	\$4.75	115	Sec. 1-5 V. Sec. 2-7.5 6.3/5	3 6	67	1600 1600	2G	2 1/8	2 1/8	3 3/8	3 3/8	4 5/8	4 3/4
T-19F77	7.50	115	Sec. 1-5 V. Sec. 2-2.5 V. Ct. Sec. 3-10/7.5 6.3/5	3 10 8	133	1600 7500 1600	2G	3	2 7/8	3 3/4	3 3/8	4 5/8	7
T-19F78	5.25	115	Sec. 1-2.5 V. Ct. Sec. 2-5 V.	10 3	45	7500 1600	2G	2 1/8	2 1/8	3 3/8	3 3/8	4 5/8	5
T-19F79	6.75	115	Sec. 1-6.3 V. Ct. Sec. 2-10/7.5/6.3/5	3 10	133	1600 1600	2G	2 1/8	3	3 3/8	3 3/8	4 5/8	6
T-79F84	4.75	115	Sec. 1-2.5 V. Ct. Sec. 2-5 V. Ct. Sec. 3-6.3 V. Ct.	3.5 3 3	48	1600 1600 1600	2G	2 1/8	2 1/2	3 3/8	3 3/8	4 5/8	4 3/4



2G

We can supply all Thordarson products. Ask for complete Thordarson catalog.



Modulation (M) — Plate (P) Transformers



MODULATION TRANSFORMERS FOR SPECIFIC APPLICATIONS

To couple the plate or plates of an audio output stage to a Class C R.F. load.

Type No.	List Price	Tube Type	Class	Ohms Impedance		Max. D.C. Sec. M.A.	Max. Audio Pwr. Watts	Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
				Pri.	Sec.				Width	Depth	W.	D.	H.	
T-17M59	\$2.75	1-6A6, 6N7 or 53	B	10,000	3,000 3,750/4,500	100	10	2F	2 1/2	3 3/8	2 1/2	3	2	
T-64M26	6.00	2-46 or 59 2-250	B AB	5,800	5,000 10,000	100	40	2D	3 1/4	2 1/2	3 3/8	3 3/8	4	5
T-84M70	10.00	2-6L6 2-35T 4-210	AB B B	3,800	2,500 5,000 7,500	250 200 150	75	2D	2 3/4	2 3/4	3 3/8	4 1/2	4 3/8	10
T-14M49	16.50	2-TZ-40	B	6,900	2,850 4,500 6,500	350 300 235	175	2Q	6 3/4	3 3/8	7 1/2	5 3/8	6 3/8	20



2D



2F



2Q

"19" SERIES UNIVERSAL MODULATION TRANSFORMERS

Type No.	List Price	Capacity Watts	Pri. M.A. Each Side	Secondary M.A.		Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
				Series	Parallel		Width	Depth	W.	D.	H.	
T-19M13	\$4.00	15	50	50	100	4D	2 1/2	3 3/8	2 1/2	3	2	
T-19M14	7.00	30	75	75	150	2N	3 1/4	1 3/8	3 3/8	3	4	4 1/2
T-19M15	10.00	60	125	125	250	2N	3 1/4	2 3/8	3 3/8	3 3/8	4	6 1/2
T-19M16	15.00	100	175	175	350	2N	3 1/4	2 3/4	4 1/4	4 1/4	6 1/2	12 1/2
T-19M17	24.00	250	225	225	450	2Q	7 3/4	3 3/8	8 1/2	5 3/8	6 3/8	30 3/4

C. H. T. MULTI-MATCH MODULATION TRANSFORMERS

A premium feature of this group is the exclusive Thoradson Switchboard Plug-in terminal board, enabling quick and accurate matching of tube loads without soldering.

Type No.	List Price	Capacity	Pri. M.A.	Sec. M.A.	Mtg. Fig.	Width	Depth	W.	D.	H.	Wt.	
T-11M74	\$9.00	40	100	80	160	3G	2 3/8	3 3/8	4 1/8	4 1/2	4 3/8	7 3/4
T-11M75	12.50	75	145	145	290	3G	2 3/8	3 3/8	4 1/8	4 1/2	4 3/8	9
T-11M76	19.50	125	210	160	320	3G	3 3/8	4 3/8	5 3/8	5 3/8	6	18
T-11M77	30.00	300	250	250	500	3G	4 3/8	5 3/8	5 3/8	6 3/8	7 1/2	30
T-11M78	60.00	500	320	320	640	3G	5 3/8	7 3/8	7 3/8	8 3/8	7 1/2	15



2Q



2N

PLATE SUPPLY (P) TRANSFORMERS

While ordinarily used to supply the voltage potential between cathode and anodes of vacuum tubes in a rectifier circuit, there are additional applications requiring relatively high voltages in which Thoradson plate transformers may be used to good advantage. Thoradson plate transformers are rated in D.C. voltages from a two section filter which includes the voltage drop through the rectifier tubes. Designed especially for Amateur Short Wave or experimental equipment. Electrostatic shielding is provided between primary and secondary windings.

Type No.	List Price	Primary Volts	Sec. A.C. Load Volts	D.C. Volts	Bias Tap	D.C. M.A.	Pri. V.A.	Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
									Width	Depth	W.	D.	H.	
T-19P54	\$5.50	115	560-0-560	400		150	115	2G	3 1/4	2 5/8	3 3/8	3 3/8	4 3/8	7
T-19P55	6.50	115	660-0-660 550-0-550	500 400	30 V.	250	200	2G	3 1/4	3	3 3/8	3 3/8	4 3/8	8
T-84P60	6.50	115	515-0-515	400	30 V.	250	190	2G	3	4	3 1/8	4 3/8	4 3/8	11 3/4
T-19P70	9.00	115	900-0-900 605-0-605	750* 400		100 225	260	2G	3	3 3/8	3 3/8	4 3/8	4 3/8	11 3/4
T-19P56	7.00	115	900-0-900 800-0-800	750 600		225	260	2G	3 1/8	3 1/2	3 3/8	4 1/4	4 3/8	10
T-19P57	8.50	115	1075-0-1075 500-0-500	1000* 400		125 150	245	2G	3 1/4	3 3/8	3 3/8	4 1/2	4 3/8	10 1/2
T-19P58	14.25	115	1200-0-1200 900-0-900	1000* 750		200 150	500	2G	3 1/4	3 3/8	4 3/8	4 3/8	6 1/2	19
T-19P59	13.00	115	1180-0-1180 900-0-900	1000 750		300	430	2G	3 3/8	3 3/8	5 1/8	6 1/4	6 3/4	20
T-19P71	13.00	115	1325-0-1325 595-0-595	1250* 400		125 200	320	2G	3	4 3/8	3 3/8	5 1/2	4 3/8	15 1/2
T-19P59	16.00	115	1560-0-1560 1250-0-1250	1250 1000		300	550	2K	4 3/8	3 3/8	5 3/8	7	6 1/2	26 1/2
T-19P60	18.50	115	1875-0-1875 1560-0-1560	1500 1250		300	620	2K	5 3/8	4 3/8	6 3/8	6 1/4	6 3/8	29 1/4
T-19P61	20.00	115	2125-0-2125 1875-0-1875	1750 1500		300	745	2K	5 3/8	4 3/8	6 3/8	6 1/2	6 3/8	31 1/2
T-19P62	22.50	115	2420-0-2420 2125-0-2125	2000 1750		300	860	2K	5 3/8	5	6 3/8	6 3/8	6 3/8	34 1/2
T-19P65	29.50	115	3000-0-3000 2420-0-2420	2500 2000		300	1195	2K	5 3/8	6	6 3/8	7 3/8	6 3/8	44
T-19P63	23.00	115	1560-0-1560 1265-0-1265	1250 1000		500	925	2K	5 3/8	5 1/4	6 3/8	7 1/8	6 3/8	38
T-19P64	28.50	115	1875-0-1875 1560-0-1560	1500 1250		500	1130	2K	5 3/8	6	6 3/8	7 3/8	6 3/8	43 1/2
T-19P66	35.00	115	2125-0-2125 1875-0-1875	1750 1500		500	1185	2K	5 3/8	4 3/8	6 3/8	5 1/4	9 3/8	45 1/2
T-19P67	42.50	115	2450-0-2450 2125-0-2125	2000 1750		500	1380	2K	5 3/8	4 3/8	6 3/8	5 1/2	9 3/8	51
T-19P68	50.00	115	3000-0-3000 2450-0-2450	2500 2000		500	1760	2K	5 3/8	5 3/8	6 3/8	6 1/2	9 3/8	61



3G



3U



2G

*These transformers designed for double rectifiers and will deliver both secondary ratings simultaneously. If only the lower voltage taps are used the current rating is equal to the current rating of both windings.

We can supply all Thoradson products. Ask for complete Thoradson catalog.

UNIVERSAL REPLACEMENT POWER TRANSFORMERS — "13R" SERIES

The choice of servicemen in all parts of the world because of the universal adaptability to receiver replacement, from both electrical and mechanical considerations. Adjustable mounting brackets permit flush, vertical or horizontal mounting. Replacement recommendations are given in Thordarson Replacement Transformer Encyclopedia and Service Guide No. 352.



3A
Flush



3A
Horizontal

Type No.	List Price	Pri.	Secondary		Filament Windings			Mtg. Centers			Dimensions			Wt. Lbs.	
			V.A. Load	A.C. Volts	D.C. M.A.	Rect. Fil.	Fil. No. 1	Fil. No. 2	Fil. No. 3	Mtg. Fig.	Width	Depth	W.		D.	H.
T-13R19	\$2.50	45	240-0-240	40	5V-2A	6.3V-2A Ct.			8A	2 1/2	2 1/2	2 1/2	2 1/2	3	2 1/2
T-13R11	2.75	60	290-0-290	50	5V-3A	6.3V-2A Ct.			3A	2 1/2	2 1/2	2 1/2	2 1/2	3	3 1/2
T-13R12	3.50	65	350-0-350	70	5V-3A	6.3V-2.5A Ct.			3A	2 1/2	2 1/2	2 1/2	3 3/8	3	3 1/2
T-13R13	4.00	90	350-0-350	90	5V-3A	6.3V-3.5A Ct.			3A	2 1/2	3 1/2	3 1/2	3 3/8	3 3/4	5 1/2
T-13R14	4.25	115	350-0-350	120	5V-4A	6.3V-4.7A Ct.			3A	2 1/2	3 1/2	3 1/2	3 3/8	3 3/4	5 1/2
T-13R15	5.75	140	375-0-375	150	5V-4A	6.3V-5A Ct.			3A	3	3 3/4	3 3/4	3 3/8	4 1/2	6 1/2
T-13R16	6.25	180	400-0-400	200	5V-4A	6.3V-5.14A Ct.			3A	3	3 3/4	3 3/4	3 3/8	4 1/2	7 1/2
T-13R17	4.00	85	300-0-300	60	5V-3A	6.3V-2.5A Ct.	2.5V-7.5A Ct.		3A	2 1/2	2 1/2	2 1/2	2 1/2	3	4 1/2
T-13R18	4.50	115	350-0-350	90	5V-3A	6.3/2.5-3.5A Ct.	2.5V-9A Ct.		3A	3	3 3/4	3 3/4	3 3/8	4 1/2	5 3/4
T-13R08	4.50	105	350-0-350	90	5V-3A	6.3V-3.3A Ct.	2.5V-6A Ct.		3A	2 1/2	3 1/2	3 1/2	3 1/2	3 3/4	5 1/2
T-13R09	6.25	160	375-0-375	180	5V-3A	6.3V-3.3A Ct.	2.5V-6A Ct.		3A	3	3 3/4	3 3/4	3 3/8	4 1/2	7 1/2
T-13R00	4.25	70	275-0-275	70	5V-3A	5V-.5A Ct.	2.5V-10.5A Ct.		3A	2 1/2	2 1/2	2 1/2	2 1/2	3 3/4	4
T-13R01	2.75	60	325-0-325	40	5V-3A	2.5V-4A Ct.			3A	2 1/2	2 1/2	2 1/2	2 1/2	3	3 1/2
T-13R02	3.50	60	350-0-350	50	5V-3A	2.5V-7.25A Ct.			3A	2 1/2	2 1/2	2 1/2	2 1/2	3	3 1/2
T-13R03	3.75	75	350-0-350	70	5V-3A	2.5V-9A Ct.			3A	2 1/2	2 1/2	2 1/2	2 1/2	3 3/4	4
T-13R04	4.25	115	350-0-350	100	5V-3A	2.5V-12.5A Ct.			3A	2 1/2	3 1/2	3 1/2	3 3/8	3 3/4	5 1/2
T-13R05	4.00	110	350-0-350	70	5V-3A	2.5V-9A Ct.	2.5V-3.5A Ct.		3A	2 1/2	3 1/2	3 1/2	3 3/8	3 3/4	5 1/2
T-13R06	5.25	130	350-0-350	120	5V-3A	2.5V-12.5A Ct.	2.5V-3.5A Ct.		3A	3	3 3/4	3 3/4	3 3/8	4 1/2	6 1/2
T-13R07	5.50	140	400-0-400	110	5V-3A	2.5V-15A Ct.	2.5V-8.5A Ct.		3A	3	3 3/4	3 3/4	3 3/8	4 1/2	6 3/4

Amplifier, Transmitter and Replacement Power Transformers



3A
Vertical



2G



3L



3C

Type No.	List Price	Pri.	Secondary		Filament Windings			Mtg. Centers			Dimensions			Wt. Lbs.
			V.A. Load	A.C. Volts	D.C. M.A.	Bias Tap	Rect. Fil.	Fil. No. 1	Fil. No. 2	Fil. No. 3	Mtg. Fig.	Width	Depth		W.	D.	H.

FULLY SHIELDED — UPRIGHT MOUNTING

Leads are brought out through opening in base. Knock-out holes on sides of shields provide optional above-panel connection.

T-56R01	\$5.50	60	325-0-325	70	5V-2A	2.5V-3A Ct.	1.5V-1A 1.5V-4A	5V-5A Ct.	2G	2 1/2	3	3 3/4	3 3/4	4 1/2	5 3/4
T-56R03	6.00	85	350-0-350	105	5V-3A	2.5V-3A Ct.	2.5V-1.75A Ct.	1.5V-5A 1.5V-1A	2G	3	2 1/2	3 3/4	3 3/4	4 1/2	7 1/2
T-56R05	6.00	115	350-0-350	110	5V-3A	2.5V-9A Ct.	2.5V-3A Ct.	2.5V-3A Ct.	2G	3	2 1/2	3 3/4	3 3/4	4 1/2	7 1/2
T-70R78	3.25	60	340-0-340	55	5V-2A	6.3V-1.5A Ct.			2G	2 1/2	1 1/2	3 3/4	2 1/2	4 1/2	4
T-70R61	4.00	60	385-0-385	70	5V-2A	6.3V-2.5A Ct.			2G	2 1/2	2 1/2	3 3/4	3 1/2	4 1/2	4 1/2
T-70R62	5.50	110	350-0-350	145	5V-3A	6.3V-4.5A Ct.			2G	3	3 1/2	3 3/4	3 3/4	4 1/2	8 1/2
T-92R21	7.50	150	400-0-400	200	5V-3A	6.3V-5A Ct.			2G	3	3 1/2	3 3/4	4 1/2	4 1/2	9
T-17R30	8.50	200	370-0-370	280	5V-3A	6.3V-7A Ct.			2G	3	3 1/2	3 3/4	4 1/2	4 1/2	9 1/2
T-17R31	12.50	300	430-0-430	325	5V-6A	6.3V-8A Ct.			2G	3	4 1/2	3 3/4	5 1/2	4 1/2	13 1/2
T-74R28	6.50	105	440-0-440	125	38V	5V-3A 2.5V-3A	6.3V-3.3A Ct.		2G	3	2 1/2	3 3/4	3 3/4	4 1/2	8
T-87R85	7.00	145	330-0-330	160	77V	5V-3A 5V-2A	6.3V-2A Ct.	2.5V-5A Ct.	2G	3	3 1/2	3 3/4	3 3/4	4 1/2	8 1/2
T-68R26	6.75	160	550-0-550	150	5V-3A	7.5V-2.5A Ct.	2.5V-5A Ct.		2G	3	3 1/2	3 3/4	4 1/2	4 1/2	10 1/2
T-69R35	6.50	135	385-0-385	200	5V-3A	6.3V-3A Ct.			2G	3	3 1/2	3 3/4	4 1/2	4 1/2	9 1/2
T-75R50	7.50	160	435-0-435	250	80V	5V-3A 2.5V-3A	6.3V-1.5A Ct.	2.5V-10A Ct.	2G	3	3 1/2	3 3/4	4 1/2	4 1/2	10 1/2
T-83R85	12.00	290	740-0-740	200	150V	5V-3A 2.5V-3A	7.5V-5A Ct.		2G	3 1/2	4 1/2	3 3/4	5 1/2	4 1/2	13 1/2
T-89R28	11.00	250	550-0-550	275		5V-3A Ct	6.3V-6A Ct.		2G	3	4 1/2	3 3/4	5 1/2	4 1/2	15
T-19R30	7.75	170	560-0-560	150		5V-2A Ct.			2G	3	4 1/2	3 3/4	4 1/2	4 1/2	10 1/2

C. H. T. POWER TRANSFORMERS

For amplifiers, transmitters, or deluxe receivers. Designed to operate continuously at full rated load. Cases compound filled for complete coil protection.

T-15R04	4.75	30	255-0-255	25		6.3V-2.1A Ct.			3L	2 1/2		2 1/2	3	3 3/4	3
T-15R05	10.50	150	340-0-340	135	77V	5V-3A 5V-2A	6.3V-4A Ct.	*6.3V-2A Ct. *2.5V-5A Ct.	3L	2 1/2	3 1/2	4 1/2	4 1/2	5 1/2	10
T-15R06	9.75	155	380-0-380	175		5V-3A	6.3V-5A Ct.		3L	2 1/2	3 1/2	4 1/2	4 1/2	5 1/2	11
T-15R07	10.50	238	380-0-380	280		5V-3A	6.3V-7A Ct.		3L	2 1/2	3 1/2	4 1/2	4 1/2	5 1/2	12
T-15R08	13.75	253	450-0-450	325		5V-6A	6.3V-8A Ct.		3L	3 1/2	4 1/2	5 1/2	5 1/2	5 1/2	22

SPEAKER FIELD SUPPLY TRANSFORMERS

T-67R97	4.25	55	115 V.D.C. @ 50 to 250		5V-3A				2G	3 1/2	1 1/2	3 1/2	3 1/2	3 1/2	4 1/2
T-92R53	5.75	120	300 V.D.C. @ 200		5V-3A				2G	3 1/2	2 1/2	3 1/2	4	3 1/2	6 1/2

*Not simultaneous — for 2A3's or 6A3's Fil.

UNIVERSAL 115 VOLT A. C. OR 6 VOLT D. C. VIBRATOR POWER TRANSFORMER

T-14R40	\$6.75				850 Fil.-6.3 Ct.	135 4.75 Amp.	2G	3	3 1/2	3 1/2	4	4 1/2	8 1/2	
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Output (S) Transformers



OUTPUT (S) TRANSFORMERS

For coupling audio power amplifier tubes to a loud speaker voice coil or line. Correctly matching the output tubes to a speaker load is important. Efficiency, frequency response and distortion are affected by this matching. Small, unshielded types are listed for use with receivers where the transformer is usually mounted on the loud speaker frame. Larger shielded types have multiple secondary impedances as required in sound amplifiers. C.H.T. output transformers have a greater selection of output impedances, meeting practically all speaker requirements. These units are compound filled and are provided with jacks and plugs to facilitate speaker matching. Tertiary winding included on some types for inverse feed-back connections.



3B

Type No.	List Price	Tube Type	Class	Ohms Impedance		Pri. M.A. Per Max. Mtg. Side Watts		Mtg. Centers Fig. Width Depth		Dimensions W. D. H.			Wt. Lbs.
				Pri.	Sec.								
REPLACEMENT OUTPUT TRANSFORMERS													
T-14S01	\$1.25	1-42, 2A5, 6F6 or P-P45, 71	A	7,000 Ct.	3 to 6	40	5	3B	2	2 3/8	1 3/8	1 3/8	3/4
T-14S02	1.25	1-25L6	A	1,500	3 to 6	55	5	3B	2	2 3/8	1 3/8	1 3/8	3/4
T-14S03	1.25	1A5-G, 1E7-G	A	25,000 Ct.	3 to 6	8	5	3B	2	2 3/8	1 3/8	1 3/8	3/4
T-14S04	1.25	1-1C5G, 1Q5G	A	8,000	3 to 6	10	5	3B	2	2 3/8	1 3/8	1 3/8	3/4
T-13S37	1.25	1-6F6, 42, 2A5, 47	A	7,000	1 2 4	36	5	3E	2	2 3/8	1 3/8	1 3/8	3/4
T-13S39	1.25	1-45, 12A5, 43, 71A	A	4,000	1 2 4	36	5	3E	2	2 3/8	1 3/8	1 3/8	3/4
T-13S43	1.35	1-1F4, 1D4, 1F5G	A	16,000	1 2 4	10	5	3E	2	2 3/8	1 3/8	1 3/8	3/4
T-33S99	1.50	2-45, 71, 43, 25A6 P-P	A	8,000 Ct.	6 to 12	36	10	2B	2 3/4	2 7/8	2	2 3/8	1 3/4
T-13S40	1.50	2-6F6, 42 P-P, 2-2A5, 47 P-P	A	14,000 Ct.	1 2 4	40	10	3E	2 3/8	2 3/8	1 3/8	1 3/8	3/4
T-81S01	1.50	1-19, 1J6G, 1G6G P-P 2-30, 49 P-P	B B	10,000 Ct.	2 4 8/	15	8	2B	2 1/4	2 3/8	1 3/8	2	3/4



3E

HEAVY DUTY OUTPUT TRANSFORMERS TO LINE OR SPEAKER (High Level)

T-72S58	\$1.65	Pentode Plate to phones or oscillator		10,000	2,000 50	30	5	2B	2 1/4	2 3/8	1 3/8	2	3/4
T-17S10	3.00	1-6L6	A	2,500	2 4 8, 500	80	8	2F	2 3/8	3 3/8	2 1/2	3	2 1/4
T-17S11	4.50	2-6V6 P-P	AB1	8,000*	4 8 15 250 500	52	15	2F	3 1/4	3 3/8	3 1/8	3 1/2	3 1/2
T-17S12	4.50	2-6L6 P-P	AB1	4,300*	4 8 15 250 500 (with 300 V. on plate and screen)	95	25	2F	3 1/4	3 3/8	3 1/8	3 1/2	3 1/2
T-17S13	6.00	2-6L6 P-P	AB1	6,600*	4 8 15 250 500	80	34	2G	2 3/8	2 3/8	3 3/8	3 3/8	4 3/8 5 1/2
T-17S14	6.00	2-6L6 P-P	AB2	5,500*	4 8 15 250 500	90	40	2G	2 3/8	2 3/8	3 3/8	3 3/8	4 3/8 5 1/4
T-17S15	6.50	4-6L6 P-P Par.	AB1	3,300*	4 8 15 250 500	155	60	2G	2 3/8	2 3/8	3 3/8	3 3/8	4 3/8 5 1/4
T-68S06	2.50	1-6F6, 42, 2A5, 1-47	A	7,000	10 or 2,000	36	5	2F	2 3/8	2 3/8	1 7/8	2 3/8	1
T-67S51	3.50	2-6F6, 42, 2A5, 47 P-P	A	14,000	4 8 15 500	40	20	2F	2 3/8	3 3/8	2 1/2	3	2 1/4
T-67S48	3.50	2-45, 71, 43, 25A6 P-P 1-6N7, 6A6, 53 P-P	A B	8,000	4 8 15 500	36	25	2F	2 3/8	3 3/8	2 1/2	3	2 1/4
T-67S52	4.00	2-46, 59 P-P 2-6F6, 42, 2A5 P-P 2-6N7, 6A6, 53 P-P Par.	B AB2 B	5,800	4 8 15 500	60	30	2F	3 1/4	3 3/8	3 1/8	3 1/2	3 3/4
T-58S72	3.75	2-2A3, 6B4G P-P 2-48, 25L6 P-P	AB A	3,000	4 8 15 500	60	30	2F	3 1/4	3 3/8	3 1/8	3 1/2	3 3/4
T-67S54	4.00	2-6L6 P-P 2-2A3, 6B4G, 45 P-P	A AB	5,000	4 8 15 500	60	30	2F	3 1/4	3 3/8	3 1/8	3 1/2	3 3/4
T-67S92	4.00	4-2A3, 6B4G, 45 P-P Par. 4-48, 25L6, P-P Par.	AB A	1,500	4 8 15 500	80	40	2F	3 1/4	3 3/8	3 1/8	3 1/2	3 3/4
T-65S94	4.00	2-50 P-P 2-6F6, 42, 2A5 P-P	A AB2	8,000	4 8 15 500	55	40	2F	3 1/4	3 3/8	3 1/8	3 1/2	3 3/4
T-75S75	4.00	2-6F6, 42 or 2A5 1-6N7, 6A6, 53 P-P 2-6N6G, 6B5, 2B6, 6AC5 P-P	AB2 B A	10,000	4 8 15 500	45	40	2F	3 1/4	3 3/8	3 1/8	3 1/2	3 3/4
T-84S58	6.00	2-6L6 P-P	AB2	3,800	4 8 15 500	115	60	2G	2 3/8	2 3/8	3 3/8	3 3/8	4 3/8 6
T-89S75	4.00	2-6L6 P-P	AB1	6,600	4 8 15 500	80	40	2F	3 1/4	3 3/8	3 1/8	3 1/2	3 3/4

*10% feed-back winding.

UNIVERSAL REPLACEMENT TUBE TO VOICE COIL

Preferred by many because of their wide plate impedance and voice coil coverage. Proper matching of load impedances to speaker voice coils is accomplished by using taps as specified in the instruction sheets.

T-13S38	\$1.50	Universal	A	4,000	7,000	Adjustable	36	8	3E	2 3/8	2 3/8	1 3/8	1 3/8	3/4
T-57S01*	2.00	Single or P-P Tubes		8,000	10,000	.1 to 29			2E	2 3/8	2 3/8	2	2 3/8	1 1/4
T-57S02†	2.00			14,000 Ct.					2B	2 3/8	2 3/8	2	2 3/8	1 1/4
T-13S42	1.50	Universal Single Tube	A	1,500/2,000 4,000/5,000 7,000-		Adjustable .1 to 29	55	10	3E	2 3/8	2 3/8	1 3/8	1 3/8	3/4
T-13S41	2.75	Universal P-P Tubes	A	3,000/5,000 6,600/7,000 8,000/10,000		Adjustable .1 to 29	60	20	2E	2 3/8	3 3/8	2 1/2	3	2 1/4

*Solder terminals for voice coil connections. †Color coded leads for voice coil connections.



2B



2F



2G



2E

UNIVERSAL TUBE TO LINE

T-61S25	\$3.25	Univ. Single Tube	A	2,500/4,000 5,000 6,000/7,000	500		60	10	2F	2 3/8	3 3/8	2 1/2	3	2 1/4
T-61S26	3.50	Univ. P-P Tubes	A	8,000 10,000 12,000 14,000 Ct.	500		55	10	2E	2 3/8	3 3/8	2 1/2	3	2 1/4

UNIVERSAL LINE TO VOICE COIL

T-53S01	\$4.00	Line to Voice Coil		500/250	4-8-15		35	2D	2 1/4	1 1/4	2 7/8	2 3/8	3 3/8	3 1/2
T-60S48	3.00	Line to Voice Coil		500/1,000	†Pri. as 500		10	2E	2 3/8		3 3/8	2 3/8	3	2
T-17S18	3.50	1 to 6 may be con. in par. to 500 ohm line		1,500/2,000 2,500/3,000	ohm-.06 to 8.; pri. as 1,000 ohm						3	2 3/4	2 3/4	2 3/4
T-14S80	2.00	Line to Voice Coil		500	2/4/6/8		12	2E	2 3/8		2 3/8	2	2 3/4	1 3/4

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2D

C. H. T. CRYSTAL RECORDER TRANSFORMERS

The wave of interest in recording radio programs, speech and other audio happenings has created the desire to build recording equipment. These two transformers are offered to meet the requirements for coupling to a crystal recording head. Designed for constant velocity recording.



T-15S98	\$9.00	Line to crystal cutting head	500	30,000	10	3U	2 3/4	2 3/4	2 3/4	3 1/4	4 1/4	5
T-15S99	9.00	Push-pull 2A3 to crystal head	3,000/5,000	30,000	10	3U	2 3/4	2 3/4	2 3/4	3 1/4	4 1/4	5

C. H. T. MULTIPLE TAP OUTPUT TRANSFORMERS

Include these C. H. T. premium quality features: Switchboard plug-in terminal board for quick and accurate selection of secondary impedances, conservative design for exceptional performance, and complete coil protection against humidity. Tertiary winding to give a feedback voltage 10% of full primary. Split Primaries.

3U

T-15S90	\$9.25	2-6V6 P-P 2-6L6 P-P 2-2A3 P-P (self bias)	AB1 AB1 AB	8,000 5,000 5,000	2/3/4/6/- 8/16/125/- 250/500	70	15	3H	2 3/4	3 1/4	4 1/8	4 1/2	4 3/8	7 1/4
T-15S91	11.50	2-6L6 P-P (300 V. P. & Sc.) 2-2A3 P-P (fixed bias)	AB AB	4,300 3,000	Same as above	95	25	3H	2 3/4	3 1/4	4 1/8	4 1/2	4 3/8	8



**VOLTAGE CHANGER (V) TRANSFORMERS
FILAMENT CORRECTOR AUTOTRANSFORMERS**

To compensate for variations in line voltage or for drop in filament leads. Correct filament voltage at the tube is made possible.

3H

Type No.	List Price	Capacity Filament Power Watts	Primary Taps	Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
					Width	Depth	W.	D.	H.	
T-18V24	\$2.00	60	105/110/115 120/125V.	2E	2 3/8	2 7/8	2	2 3/8	1	
T-18V25	2.75	150	105/110/115/120/125V.	2E	2 3/8	3 1/8	2 3/4	2 3/8	1 3/4	



AUTOTRANSFORMERS

Autotransformers consist of a single winding on an iron core. Voltage variation is accomplished by means of taps.

2E

Step Down — Convenience Outlet Type

Input side equipped with cord and plug. Output side has standard receptacle.

Type No.	List Price	Input Volts	Output Volts	Output Load		Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
				V.A.	Amps.		Width	Depth	W.	D.	H.	
T-26V04	\$4.50	220-250	110-125	80	0.725	2V	2 1/8	2 1/4	3 3/8	2 3/4	4 5/8	4 1/2
T-18V06	6.00	220-250	110-125	150	1.35	2V	2 1/8	3	3 3/8	3 3/8	4 5/8	6 1/4
T-50V11	7.50	220-250	110-125	250	2.25	2V	3	3 1/2	3 3/4	4 1/4	4 5/8	10 1/4
T-18V07	13.50	220-250	110-125	500	4.5	2V	3	4 1/4	3 3/4	2 3/4	4 3/8	13



2V

Line Voltage Adjusting — Convenience Outlet Type

For boosting or lowering line voltage. Input taps may be selected by means of a convenient plug arrangement as illustrated (Fig. 4E)

Type No.	List Price	Input	Output	V.A.	Amps.	Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
							Width	Depth	W.	D.	H.	
T-18V20	\$5.00	95 105 125	115	100	0.9	2V	2 1/8	2 1/4	3 3/8	2 3/4	4 5/8	4 1/2
T-18V21	6.00	95/105/125	115	150	1.3	2V	2 1/8	2 3/4	3 3/8	3 3/8	4 5/8	5
T-18V22	7.50	95/105/125	115	250	2.2	2V	3	2 3/4	3 3/8	3 3/8	4 5/8	6 1/4
T-18V23	12.00	95/105/125	115	500	4.5	2V	3	3 1/4	3 3/8	3 3/4	4 5/8	9



4E

LINE REGULATING AUTOTRANSFORMER

Provides for an increase or decrease of 7.5 volts. May be used on any A.C. line of 50-60 cycle frequency from 90V to 125V as a step-up or step-down transformer. Especially suitable for boosting line voltage for fluorescent lighting units. Fully enclosed (similar to 2H) and mounted on a 4" outlet box cover, allowing for complete enclosure of all wiring in a conduit or BX system.

T-18V26	\$5.25	90-125	7.5 Variation	1150	10	4	4 1/8	3 1/2	4 3/8	5 1/2
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THORDARSON OSCILLOSCOPE KIT

An accurately designed circuit using a 913 tube. Magnifying lens gives clear 2" image and small overall size of unit makes it ideal for relay rack of servicemen and for amateur and experimental uses.



No. 340 Manual

Type No.	List Price	Description
T-11K99	\$12.50	Foundation Unit (Consists of punched chassis, panel, light shield, etched panel, ventilated cabinet and 2" magnifying lens with retainer ring, and complete circuit with constructional and operating data.) In addition to the foundation unit, one T-12R33 power transformer (see below) and one T-74C30 filter choke are required.



Circuit diagram, description and complete parts list given in catalog sheet SD266

POWER TRANSFORMERS FOR CATHODE RAY TUBES

Type No.	List Price	Volts D.C.	M.A.	Rect. Fil.	Fil. No. 1	Fil. No. 2	Mtg. Fig.	Mtg. Centers		Dimensions			Wt. Lbs.
								Width	Depth	W.	D.	H.	
T-92R25 For 913 tube	\$2.25	500 tap—430	3	6.3V—.9A*			2F	2 3/8		2 3/4	2 3/4	2 3/8	1 1/2
T-92R33 For 913 tube	4.00	**500 tap—400	3	6.3V—.9A	6.3V—.6A	(No. 3 2.5V—1.4A)	2F	3 1/4		3 1/4	3 1/4	3 1/2	3 1/4



No. 333 Amateur Radio

**With half wave rectification. *For I-V rectifier and 913 filament.
 #340 Complete Transformer Manual — 35c postpaid — contains Sound Amplifier Guide, Transmitter Guide, Replacement Encyclopedia and Service Guide with catalogs. A popular book in every technical library.
 #333 Amateur Radio — a beginner's guide — 75c postpaid — one of the most comprehensive and clearly written books available for learning Amateur Radio. Cloth bound book, 160 pages, over 100 illustrations. A handy reference book for the experienced amateur.

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AEROVOX HI-FARAD ELECTROLYTIC CONDENSERS

UNIVERSAL MOUNTING CONDENSERS



TYPE E

Furnished with mounting rings for universal mounting. A wide selection of capacities in single, double, triple and quadruple section units for general service. Multiple section units contain individual sections with common negative

grounded to the can. Single-section unit also has negative-grounded can.

600v Surge Pk.—475v D.C. Work.
Type E475—Single Section

Cap. Mfds.	Can Dia.	Size-High	Ins.	List Price	Net Price
4	1 3/8	x 2 3/4		\$1.25	\$0.75
8	1 3/8	x 4 1/2		1.50	.90

525v Surge Pk.—450v D.C. Work.
Type E450—Single Section

Cap. Mfds.	Can Dia.	Size-High	Ins.	List Price	Net Price
4	1 3/8	x 2 3/4		\$0.85	\$0.51
8	1 3/8	x 3 1/2		1.05	.63
12	1 3/8	x 4 1/2		1.40	.84

Type E450—Double Section

Cap. Mfds.	Can Dia.	Size-High	Ins.	List Price	Net Price
5-15	2 1/2	x 4 1/2		\$2.30	\$1.38
8-8	2 1/2	x 4 1/2		1.80	1.08
8-16	2 1/2	x 4 1/2		2.35	1.41

Type E450—Triple Section

Cap. Mfds.	Can Dia.	Size-High	Ins.	List Price	Net Price
8-8-8	3	x 4 1/2		\$2.70	\$1.62
9-9-18	3	x 4 1/2		3.75	2.25

Type E450—Quadruple Section

Cap. Mfds.	Can Dia.	Size-High	Ins.	List Price	Net Price
8-8-8-8	3	x 1 3/8		\$3.60	\$2.16
8-8-16-16	3	x 4 1/2		4.50	2.70
9-9-18-18	3	x 4 1/2		5.25	3.15

COMPACT UNIVERSAL MOUNTING CONDENSERS TYPE 2E



Double section units designed for use in compact receivers. Hermetically sealed to prevent evaporation of moisture from electrolyte or absorption of moisture from air. Provided with two positive terminal lugs, common negative grounded to can.

525v Surge Pk.—450v D.C. Work.

Cap. Mfds.	Size-Inch.	Ins.	List Price	Net Price
4-4	1 3/8	x 3 1/2	\$1.30	\$0.78
8-8	1 3/8	x 4 1/2	1.60	.96

COMPACT INVERTED MOUNTING CONDENSERS TYPE 2G



Double section units designed for inverted mounting in compact sets. Hermetically sealed. May be used for grounded (negative) can mounting or insulated mounting with special insulating washer and can contact lug. Provided with two positive terminal lugs.

525v Surge Pk.—450v D.C. Work.

Cap. Mfds.	Size-Inch.	Ins.	List Price	Net Price
4-4	1 3/8	x 3 1/2	\$1.30	\$0.78
4-8	1 3/8	x 4 1/2	1.45	.87
8-8	1 3/8	x 4 1/2	1.60	.96
12-12	1 3/8	x 5 1/2	2.00	1.20

Type LW3 can contact lug and insulating washer—10c extra.



INVERTED MOUNTING CONDENSERS TYPES G and I

These standard size, inverted units are furnished in either grounded or negative mounting or insulated mounting. The latter, Type I, have an integral insulating boss cover and can lug.

600v Surge Pk.—475v D.C. Work.
Single Section

Type	Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
G475	1	1 3/8	x 2 3/4	\$1.25	\$0.75
	4	1 3/8	x 2 3/4	1.15	.87
	8	1 3/8	x 4 1/2	1.50	.90

Type I-475—Insulated Mounting

Type	Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
I-475	2	1 3/8	x 1 3/4	\$1.05	\$0.63
	4	1 3/8	x 2 3/4	1.25	.75
	6	1 3/8	x 2 3/4	1.45	.87
	8	1 3/8	x 4 1/2	1.50	.90

525v Surge Pk.—450v D.C. Work.
Single Section

Type	Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
G450	4	1 3/8	x 2 3/4	\$0.85	\$0.51
	6	1 3/8	x 2 3/4	1.00	.60
	8	1 3/8	x 3 1/2	1.05	.63
	10	1 3/8	x 4 1/2	1.25	.75
	12	1 3/8	x 4 1/2	1.40	.84
	16	1 3/8	x 4 1/2	1.55	.93

Type I-450—Insulated Mounting

Type	Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
I-450	2	1 3/8	x 1 3/4	\$0.75	\$0.45
	4	1 3/8	x 2 3/4	.85	.51
	6	1 3/8	x 2 3/4	1.00	.60
	8	1 3/8	x 3 1/2	1.05	.63
	10	1 3/8	x 4 1/2	1.25	.75
	12	1 3/8	x 4 1/2	1.40	.84
	16	1 3/8	x 4 1/2	1.55	.93

PRONG-BASE MIDGET CONDENSERS TYPE F



Compact, economical, simply mounted dry electrolytic for new assemblies and replacements. Base prongs slip into fibre (for insulated can) or metal (grounded can) elliptical washer riveted or electrolytically on chassis, and are bent over. Terminal lugs slip through hole in washer for soldered connections. Similar in appearance and dimensions to other makes, but incorporate the standard tried, tested and perfected electrolytic sections used in other AEROVOX electrolytics. No attempt made at ultra-etching or other practices to reduce bulk and cost at expense of performance and service life. Hermetically-sealed. Safety vent. Negative can. Metal or bakelite washer 5c each.

Type	Cap. Mfds.	D.C.	Size Inch.	List Price	Net Price
F2J	10x450	1x2	1.10	\$0.75	\$0.45
F4J	20x450	1x2	1.10	.66	
F8J	40x450	1x3	1.60	.96	
F22J	10-10x450	1x2	1.20	.72	
F44J	20-20x450	1x3	1.65	.99	
F222J	10-10-10x450	1x3	1.55	.93	
F16H	80x400	1x3	2.45	1.47	
F22F	10-10-250	1x2	1.05	.63	
F44F	20-20-250	1x2	1.10	.66	
F6D	30x150	1x2	.70	.42	
F44D	20-20x150	1x2	1.00	.60	
F66D	30-30x150	1x2	1.10	.66	
F64D4A	30-20x150				
		+20x25	1x2	1.15	.69
F33F4A	15-15x250				
		+20x25	1x2	1.10	.66
F22J4A	10-10x450				
		+20x25	1x3	1.30	.78

INVERTED MOUNTING WET ELECTROLYTIC CONDENSERS TYPE PG



High capacity in minimum bulk, ability to take severe punishment. Costs less than other types of electrolytics for given capacity, voltage rating and operating life. Ingenious and exclusive AeroVox vent provides instant escape of any gas pressure, yet effectively double-seals the metal container against leakage of liquid electrolyte.

Note: Trend in wet electrolytics is toward smaller sizes. Sizes listed are being adopted as rapidly as possible. Units may still come through in larger sizes until complete changeover is achieved.

600 Volts Peak—Type PG600

Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
4	1 3/8	x 3 1/2	\$1.35	\$0.81
8	1 3/8	x 4 1/2	1.50	.90
16	1 3/8	x 4 1/2	2.00	1.20

500 Volts Peak—Type PG500

Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
4	1 3/8	x 3 1/2	\$0.80	\$0.48
6	1 3/8	x 3 1/2	.85	.51
8	1 3/8	x 3 1/2	.95	.57
10	1 3/8	x 3 1/2	1.05	.63
12	1 3/8	x 3 1/2	1.15	.69
16	1 3/8	x 4	1.35	.81
18	1 3/8	x 4	1.50	.90
20	1 3/8	x 4 1/2	1.50	.90
25	1 3/8	x 4	1.65	.99
30	1 3/8	x 4 1/2	1.70	1.02
35	1 3/8	x 4 1/2	1.75	1.05
40	1 3/8	x 4 1/2	1.90	1.14

350 Volts Peak—Type PG350

Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
8	1 3/8	x 3 1/2	\$0.90	\$0.54
16	1 3/8	x 3 1/2	1.10	.66
20	1 3/8	x 3 1/2	1.40	.84
40	1 3/8	x 4	1.80	1.08

TYPE PGM

Similar in construction and appearance and function as PG units. Smaller diameter makes for more compact assemblies. High capacity in ultra-minimum bulk. Self-healing. Adequate venting. This small type becoming increasingly popular.

500 Volts Peak—Type PGM500

Cap. Mfds.	Size-Inch.	Ins.	List Price	Net Price
4	1	x 3 1/2	\$0.80	\$0.48
6	1	x 3 1/2	.85	.51
8	1	x 3 1/2	.95	.57
12	1	x 4	1.05	.63
16	1	x 4 1/2	1.15	.69
16	1	x 4 1/2	1.35	.81

350 Volts Peak—Type PGM350

Cap. Mfds.	Size-Inch.	Ins.	List Price	Net Price
8	1	x 3 1/2	\$0.90	\$0.54
16	1	x 4 1/2	1.10	.66
20	1	x 4 1/2	1.40	.84

250 Volts Peak—Type PGM250

Cap. Mfds.	Size-Inch.	Ins.	List Price	Net Price
8	1	x 3 1/2	\$0.80	\$0.48
16	1	x 4 1/2	.90	.54
24	1	x 4 1/2	1.00	.60
35	1	x 4 1/2	1.15	.69
40	1	x 4 1/2	1.20	.72

150 Volts Peak—Type PGM150

Cap. Mfds.	Size-Inch.	Ins.	List Price	Net Price
8	1	x 3 1/2	\$0.70	\$0.42
16	1	x 3 1/2	.80	.48
24	1	x 3 1/2	.90	.54
35	1	x 4 1/2	1.05	.63
40	1	x 4 1/2	1.15	.69

WIRE LEAD CONDENSERS TYPE GL



These inverted mounting, aluminum can condensers are made in single, double and triple section units with separate color-coded leads. Multiple section units have two leads brought out from each section.

800v Surge Pk.—600v D.C. Work.
Type GL600—Single Section

Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
4	1 3/8	x 4 1/2	\$1.85	\$1.11
8	1 3/8	x 4 1/2	2.60	1.56

600v Surge Pk.—475v D.C. Work.
Type GL475—Single Section

Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
4	1 3/8	x 3	\$1.25	\$0.75
8	1 3/8	x 4	1.50	.90
12	1 3/8	x 4	2.05	1.23
16	1 3/8	x 4 1/2	2.30	1.38

Type 2GL475—Double Section

Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
8-8	1 3/8	x 4	\$2.40	\$1.44

525v Surge Pk.—450v D.C. Work.
Type GL450—Single Section

Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
4	1 3/8	x 3	\$0.85	\$0.51
8	1 3/8	x 4	1.05	.63
10	1 3/8	x 4	1.25	.75
12	1 3/8	x 4	1.40	.84
16	1 3/8	x 4	1.55	.93
20	1 3/8	x 4	1.75	1.05
40	1 3/8	x 4	3.05	1.83
80	1 3/8	x 4	4.25	2.55

Type 2GL450—Double Section

Cap. Mfds.	Can Size-Inch.	Ins.	List Price	Net Price
4-4	1 3/8	x 4	\$1.30	\$0.78
4-8	1 3/8	x 4	1.45	.87
8-8	1 3/8	x 4	1.60	.96
8-16	1 3/8	x 4	2.00	1.20
10-10	1 3/8	x 4	1.95	1.17
16-16	1 3/8	x 4	2.30	1.38
20-20	1 3/8	x 4	2.75	

AEROVOX HI-FARAD ELECTROLYTIC CONDENSERS

DANDEES

Miniature Tubular Aluminum Can DRY ELECTROLYTICS



Type PRS Single Section

Genuine hermetically-sealed aluminum-can dry electrolytics for use where money- and space-saving considerations are paramount. Smallest proportions consistent with full-rated capacity and voltage, operating under normal-duty conditions.

Excellent for crowded assemblies. DANDEES are favorites for use in midget sets, AC-DC sets, auto-radios. Also many servicing jobs

where low cost is important. Electrically insulated with special varnished paper jacket. Ends spun over can rim, eliminating possibility of shorts if leads are bent close to unit. Polarity-indicating red end washer. Generous length tinned wire leads on single section units. DANDEES are the only miniature type electrolytics properly vented. Excessive gas pressure escapes, without fuss, bother, danger. DANDEES are thoroughly aged, ready for immediate use. Each unit is thoroughly tested. Individually packed with guarantee slip.

DANDEES

SINGLE-SECTION UNITS

Type PRS 450				Type PRS 150			
525v Surge Pk.—450v D.C. Work.				200v Surge Pk.—150v D.C. Work.			
Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price	Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price
4	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	\$0.55	\$0.33	4	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	\$0.40	\$0.24
8	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.60	.36	8	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.45	.27
12	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.75	.45	12	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.50	.30
16	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	.90	.54	16	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.55	.33
20	$1\frac{1}{8}$ " x $2\frac{1}{2}$ "	1.00	.60	24	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	.60	.36
				30	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.65	.39
				40	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	.70	.42
Type PRS 350				Type PRS 50			
400v Surge Pk.—350v D.C. Work.				75v. Surge Pk.—50v. D.C. Work.			
4	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	\$0.50	\$0.30	10	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	\$0.45	\$0.27
8	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.55	.33	12	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.55	.33
12	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	.70	.42	25	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.55	.33
16	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	.80	.48	50	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.80	.48
24	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	.90	.54	100	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	1.00	.60
Type PRS 250				Type PRS 25			
300v Surge Pk.—250v D.C. Work.				40v. Surge Pk.—25v. D.C. Work.			
4	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	\$0.45	\$0.27	10	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	\$0.40	\$0.24
8	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.50	.30	25	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.50	.30
12	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.65	.39	50	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.60	.36
16	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	.75	.45	100	$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.90	.54

DANDEES

DUAL-SECTION UNITS



Type PRS-A

Type PRS-A is a concentrically-wound, 3-lead unit (one lead is common) furnished with a riveting mounting strap at the center. Flexible leads are supplied on these units.



Type PRS-B

As small or smaller than other corresponding midget-type of electrolytics. Separate sections, 4 flexible leads. Permit independent use of either section and either common positive or common negative connections.

Type PRS-A 450				Type PRS-B 450			
525v Surge Pk.—450v D.C. Work.				525v Surge Pk.—450v D.C. Work.			
Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price	Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price
8-8	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$1.05	\$0.63	8-8	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$1.35	\$0.81
8-16	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	1.30	.78	8-16	$1\frac{1}{2}$ " x $3\frac{1}{2}$ "	1.90	1.14
Type PRS-A 200				Type PRS-B 250			
250v Surge Pk.—200v D.C. Work.				300v Surge Pk.—250v D.C. Work.			
8-8	$\frac{3}{8}$ " x $2\frac{1}{2}$ "	\$0.95	\$0.57	16-16	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$1.65	\$0.99
8-16	$\frac{3}{8}$ " x $2\frac{1}{2}$ "	1.00	.60				
10-16	$\frac{3}{8}$ " x $2\frac{1}{2}$ "	1.15	.69				
Type PRS-A 150				Type PRS-B 150			
200v Surge Pk.—150v D.C. Work.				200v Surge Pk.—150v D.C. Work.			
8-8	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	\$0.80	\$0.48	20-20	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$1.35	\$0.81
8-16	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	.85	.51				
20-20	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	1.05	.63				
Type PRS-A 50				Type PRS-B 50			
75v Surge Pk.—50v D.C. Work.				75v Surge Pk.—50v D.C. Work.			
10-10	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	\$0.80	\$0.48				
Type PRS-A 25				Type PRS-B 25			
40v Surge Pk.—25v D.C. Work.				40v Surge Pk.—25v D.C. Work.			
10-10	$\frac{1}{8}$ " x $2\frac{1}{2}$ "	\$0.70	\$0.42				

HIGH-CAPACITY LOW-VOLTAGE CONDENSERS

Miniature Tubulars



E12 & E25



A12

For use in filter circuits of "A" eliminator units. Ideal for replacements, also for use across field windings of low voltage dynamic speakers.

Type E12 — 12v. D.C. Working				Type E25 — 25v. D.C. Working			
Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price	Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price
500	$1\frac{1}{2}$ " x $4\frac{1}{4}$ "	\$2.38	\$1.43	500	$2\frac{1}{2}$ " x $4\frac{1}{4}$ "	\$3.76	\$2.26
1000	$2\frac{1}{2}$ " x $4\frac{1}{4}$ "	3.56	2.14	1000	$2\frac{1}{2}$ " x $4\frac{1}{4}$ "	6.56	3.94
2000	$2\frac{1}{2}$ " x $4\frac{1}{4}$ "	6.32	3.79	1500	$3\frac{1}{2}$ " x $4\frac{1}{4}$ "	9.48	5.69
4000	$3\frac{1}{2}$ " x $4\frac{1}{4}$ "	11.96	7.18				
Type A12 — 12v. D.C. Working							
1000	$5\frac{1}{4}$ " x $1\frac{1}{4}$ "	\$3.56	\$2.14				
2000	$5\frac{1}{4}$ " x $1\frac{1}{4}$ "	6.32	3.79				

TYPE PRS

For electric fence control, etc., calling for very high capacities at very low voltages. Metal can fully protected and insulated by paper sleeve with ends rolled over can edges to preclude shorting of leads. Supplied with centered mounting strap. *Unit similar to Type 2F, furnished with insulating tube and mounting ring.



Type PRS6—6v. D.C. Working				Type PRS12—12v. D.C. Working			
Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price	Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price
1000	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$2.00	\$1.20	1000	$1\frac{1}{2}$ " x $3\frac{1}{2}$ "	\$2.50	\$1.50
2000	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	3.25	1.95	2000**	$1\frac{1}{2}$ " x $4\frac{1}{4}$ "	3.25	1.95
3000**	$1\frac{1}{8}$ " x $4\frac{1}{4}$ "	4.00	2.40	3000**	$1\frac{1}{8}$ " x $4\frac{1}{4}$ "	4.00	2.40
Type PRS15—15v. D.C. Working							
1000	$1\frac{1}{2}$ " x $3\frac{1}{2}$ "	\$3.00	\$1.80	1000**	$1\frac{1}{2}$ " x $4\frac{1}{4}$ "	3.75	2.25
2000**	$1\frac{1}{2}$ " x $4\frac{1}{4}$ "	3.75	2.25				

COMPACT CAN-TYPE BYPASS CONDENSERS

TYPE MM

Especially suited as bypass or filter units. Provided with an aluminum mounting strap, riveted to side of can. Easily mounted beneath the chassis by means of screw holes at ends of strap.



350v. Surge Pk.—300v. D.C. Work			
Type MM300—Single Section			
Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price
4	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$0.80	\$0.48
8	$1\frac{1}{2}$ " x $3\frac{1}{2}$ "	1.00	.60
250v Surge Pk.—200v D.C. Work.			
Type MM200—Single Section			
2	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	\$0.65	\$0.39
4	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	.75	.45
200v Surge Pk.—150v D.C. Work.			
Type MM150—Single Section			
4	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$0.70	\$0.42
10	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	\$0.75	\$0.45
25	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	.90	.54
40v. Surge Pk.—25v. D.C. Work.			
Type MM25—Single Section			
5	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	\$0.60	\$0.36
10	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	.60	.36
25	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	.75	.45

COMPACT STUD-MOUNTING BYPASS CONDENSERS

TYPE SM

Stud-mounting. Hermetically sealed "1" can. Lug terminal at one end and screw stud at other. Latter permits mounting by means of single hole either above or below chassis. Only end of screw stud and nut remain exposed on outside of chassis. Negative grounded can.



250v Surge Pk.—200v D.C. Work.			
Type SM-200—Single Section			
Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price
2	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	\$0.65	\$0.39
8	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	.90	.54
150v Surge Pk.—100v D.C. Work.			
Type SM100—Single Section			
5	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$0.65	\$0.39
10	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	.80	.48
25	$1\frac{1}{2}$ " x $3\frac{1}{2}$ "	1.05	.63
75v. Surge Pk.—50v. D.C. Work.			
Type SM-50—Single Section			
10	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	\$0.75	\$0.45
20	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	.85	.51
25	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	.90	.54
40v. Surge Pk.—25v. D.C. Work.			
Type SM25—Single Section			
5	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	\$0.60	\$0.36
10	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	.60	.36
25	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	.75	.45

PLUG-IN ELECTROLYTICS



TYPE AEP

Quick change dry electrolytics. Facilitate testing and replacement in equipment where continuity of service is important. Install merely by plugging into standard octal socket. Unit can be inserted only the right way. Key of octal base fits octal socket. Ultra-compact due to use of etched foil for higher capacities in the small can sizes. Aluminum internal construction. Non-corrosive due to use of similar metals throughout. Fully vented for safety.

Max. 525v Surge, 450v D.C. Work.

Type AEP-450—Single Section			
Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price
10	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$1.25	\$0.75
20	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	1.75	1.05
40	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	3.05	1.83
80	$1\frac{1}{2}$ " x $4\frac{1}{4}$ "	4.25	2.55

Type AEP-450—Double Section			
Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price
10-10	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$1.95	\$1.17
20-20	$1\frac{1}{2}$ " x $3\frac{1}{2}$ "	2.75	1.65

Type AEP-450—Triple Section			
Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price
10-10-10	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$2.65	\$1.59

Type AEP-45025 450 x 25v. D.C. Working			
Cap. Mfd.	Size-Ins. Dia.-High	List Price	Net Price
10 x 10 x 450			
+20 x 25	$1\frac{1}{2}$ " x $2\frac{1}{2}$ "	\$2.65	\$1.59

AEROVOX HI-FARAD ELECTROLYTIC CONDENSERS

CARDBOARD TUBE CONDENSERS

Single and Double Section Units

TYPE PR

Single and double-section dry electrolytic units encased in sturdy cardboard tube containers. Completely sealed in. Bare wire leads 2 1/2 inches long. Polarity-indicating markings on tubular case. Two leads single section; three leads double section. Used in preference to cardboard case type for point-to-point wiring jobs where unit is supported by own connections.

525v. Surge Pk.—450v. D.C. Work.

Type PR-450—Single Section				
Cap. Mfda.	Size-Ins. Dia.-High	List Price	Net Price	
2	3/8 x 2 1/4	\$0.65	\$0.39	
4	3/8 x 2 1/4	.75	.45	
8	3/8 x 2 1/4	.95	.57	
10	3/8 x 2 1/4	1.15	.69	
16	1 1/8 x 2 3/8	1.45	.87	

250v. Surge Pk.—200v. D.C. Work.

Type PR-200—Single Section				
Cap. Mfda.	Size-Ins. Dia.-High	List Price	Net Price	
2	3/8 x 2 1/4	\$0.55	\$0.33	
4	3/8 x 2 1/4	.65	.39	
8	3/8 x 2 1/4	.80	.48	
10	3/8 x 2 1/4	.90	.54	

150v. Surge Pk.—100v. D.C. Work.

Type PR-100—Single Section				
Cap. Mfda.	Size-Ins. Dia.-High	List Price	Net Price	
5	3/8 x 2 1/4	\$0.55	\$0.33	
10	3/8 x 2 1/4	.70	.42	
20	3/8 x 2 1/4	.90	.54	
25	3/8 x 2 1/4	.95	.57	

Type PR-100—Double Section				
Cap. Mfda.	Size-Ins. Dia.-High	List Price	Net Price	
5-5	1 x 2 1/4	\$0.75	\$0.45	

75v. Surge Pk.—100v. D.C. Work.

Type PR-50—Single Section				
Cap. Mfda.	Size-Ins. Dia.-High	List Price	Net Price	
5	3/8 x 2 1/4	\$0.50	\$0.30	
10	3/8 x 2 1/4	.65	.39	
20	3/8 x 2 1/4	.75	.45	
25	3/8 x 2 1/4	.80	.48	
50	3/8 x 2 1/4	1.20	.72	

Type PR-50—Double Section				
Cap. Mfda.	Size-Ins. Dia.-High	List Price	Net Price	
5-5	3/8 x 2 1/4	\$0.75	\$0.45	

40v. Surge Pk.—25v. D.C. Work.

Type PR-25—Single Section				
Cap. Mfda.	Size-Ins. Dia.-High	List Price	Net Price	
5	3/8 x 2 1/4	\$0.50	\$0.30	
10	3/8 x 2 1/4	.50	.30	
20	3/8 x 2 1/4	.60	.36	
25	3/8 x 2 1/4	.65	.39	
50	1 1/8 x 2 3/8	.95	.57	

Type PR-25—Double Section				
Cap. Mfda.	Size-Ins. Dia.-High	List Price	Net Price	
5-5	3/8 x 2 1/4	\$0.75	\$0.45	
10-10	3/8 x 2 1/4	.75	.45	

CARDBOARD CONTAINER CONDENSERS



TYPE PBM

Heavy-duty units similar to Type PB but provided with cardboard mounting flanges for flat mounting. Made in double section, each section having two color-coded leads 8 inches long.

525v. Surge Pk.—450v. D.C. Work.

Type PBM450—Double Section				
Cap. Mfda.	Size-Ins. D.—W.—L.	List Price	Net Price	
4-4	1 1/2 x 1 1/2 x 4 1/2	\$1.20	\$0.72	
4-8	1 1/2 x 1 1/2 x 4 1/2	1.35	.81	
8-8	1 1/2 x 1 1/2 x 4 1/2	1.50	.90	

SPACE-SAVER MIDGET CONDENSERS

with Aerovox "ADJUSTIMOUNT" Mounting Flanges

TYPE PBS—Single Section—2 Leads; Double Section—4 Leads
Triple Section—6 Leads



Single Section



Double Section

25 to 600v. D.C. Working, made possible in this small size by a tried, tested and perfected process, whereby far greater capacity is attained from a given bulk without impairing the working voltage or service life. Units encased in heavy cardboard containers, thoroughly impregnated and fully sealed. Wire leads color-coded for polarity.

The "Adjustimount" feature comprises a swivel mounting flange with slotted holes to fit any mounting hole spacings. The condenser may be mounted flat or upright depending on space. Also, two or three condensers may be stacked by overlapping the metal flanges.

800v. Surge Pk.—600v. D.C. Work.

Type PBS600—Single Section				
Cap. Mfda.	Size-Ins. D.—W.—L.	List Price	Net Price	
4	1 1/2 x 1 1/2 x 2 1/2	\$1.75	\$1.05	
8	1 1/2 x 1 1/2 x 3 1/2	2.45	1.47	

525v. Surge Pk.—450v. D.C. Work.

Type PBS450—Single Section				
Cap. Mfda.	Size-Ins. D.—W.—L.	List Price	Net Price	
2	1 1/2 x 1 1/2 x 2 1/2	\$0.65	\$0.39	
4	1 1/2 x 1 1/2 x 2 1/2	.75	.45	
6	1 1/2 x 1 1/2 x 2 1/2	.90	.54	
8	1 1/2 x 1 1/2 x 2 1/2	.95	.57	
10	1 1/2 x 1 1/2 x 3 1/2	1.15	.69	
12	1 1/2 x 1 1/2 x 3 1/2	1.30	.78	
16	1 1/2 x 1 1/2 x 3 1/2	1.45	.87	

250v. Surge Pk.—200v. D.C. Work.

Type PBS250—Single Section				
Cap. Mfda.	Size-Ins. D.—W.—L.	List Price	Net Price	
4-4	1 1/2 x 1 1/2 x 2 1/2	\$1.20	\$0.72	
4-8	1 1/2 x 1 1/2 x 2 1/2	1.35	.81	
8-8	1 1/2 x 1 1/2 x 2 1/2	1.50	.90	
8-16	1 1/2 x 1 1/2 x 3 1/2	1.90	1.14	

PAPER-WOUND REPLACEMENTS FOR ELECTROLYTIC CONDENSERS

TYPE PWP



TYPE PWC



High-grade paper sections in standard inverted screw mounting aluminum can (PWC) or cardboard case (PWP) similar in appearance to electrolytics. Used as replacements for standard electrolytics indicated; applications subjected to high AC component or ripple particularly in first stage of filter circuit; or where excessive surges are encountered. No polarity to be observed. Actual capacity indicated in each case. Capacity is less than electrolytic being replaced but will be found adequate in most filter circuits since filtering capacity in electrolytics is more than generous. PWP has cardboard mounting flanges; PWC similar to GL dry type.

800v. Surge Pk.—600v. D.C. Work

Type PWC600—Single Section

Repl'g. Mfda.	Act. Mfda.	Size-Ins. D. L.	List Price	Net Price
4	2	1 3/4 x 4 1/2	\$1.35	\$0.81
8	2.75	1 3/4 x 4 1/2	1.75	1.05

Type PWC600—Double Section

8-8	1.75-1.75	1 1/2 x 4 1/2	2.80	1.68
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800v. Surge Pk.—600v. D.C. Work.

Type PWP600—Single Section

Repl'g. Mfda.	Act. Mfda.	Size-Ins. L. W. D.	List Price	Net Price
4	2	4 1/2 x 1 3/4 x 1 1/2	\$1.20	\$0.72
8	2	4 1/2 x 1 3/4 x 1 1/2	1.60	.96

CARDBOARD CONTAINER CONDENSERS

TYPE P

Largest-sized cardboard-case dry electrolytics for heavy-duty service. Sections housed in wax-impregnated containers provided with Adjustimount Flanges to fit any mounting hole spacing. Polarity-indicating colored flexible leads, 8 inches long. Two leads single section units; three leads double-section units, common negative.



600v. Surge Pk.—475v. D.C. Work.

Type P475—Single Section

Cap. Mfda.	Size-Ins. D.—W.—L.	List Price	Net Price
1	3/4 x 1 1/2 x 2 3/8	\$0.85	\$0.51
2	3/4 x 1 1/2 x 2 3/8	.95	.57
4	3/4 x 1 1/2 x 2 3/8	1.15	.69
6	3/4 x 1 1/2 x 2 3/8	1.30	.78
8	3/4 x 1 1/2 x 2 3/8	1.35	.81

525v. Surge Pk.—450v. D.C. Work.

Type P450—Single Section

Cap. Mfda.	Size-Ins. D.—W.—L.	List Price	Net Price
1	3/4 x 1 1/2 x 2 3/8	\$0.55	\$0.33
2	3/4 x 1 1/2 x 2 3/8	.65	.39
4	3/4 x 1 1/2 x 2 3/8	.75	.45
6	3/4 x 1 1/2 x 2 3/8	.90	.54
8	3/4 x 1 1/2 x 2 3/8	.95	.57
10	1 1/8 x 1 1/2 x 2 3/8	1.15	.69
12	1 1/8 x 1 1/2 x 2 3/8	1.30	.78
16	1 1/8 x 1 1/2 x 2 3/8	1.45	.87

Type P450—Double Section

4-4	3/4 x 1 1/2 x 4 1/2	\$1.20	\$0.72
4-8	1 1/8 x 1 1/2 x 4 1/2	1.35	.81
8-8	1 1/8 x 1 1/2 x 4 1/2	1.45	.87
8-8	1 1/8 x 1 1/2 x 4 1/2	1.50	.90

COMPACT CARDBOARD BOX CONDENSERS

TYPE PM—Single, Double and Triple Section Units



Convenient size dry electrolytic condensers. Double section units provided with three leads, common negative, and triple section units with four leads, common negative.

600v. Surge Pk.—475v. D.C. Work.

Type PM475—Single Section

Cap. Mfda.	Size-Ins. D.—W.—L.	List Price	Net Price
1	5/8 x 1 1/2 x 2 1/4	\$0.85	\$0.51
2	5/8 x 1 1/2 x 2 1/4	.95	.57
4	5/8 x 1 1/2 x 2 1/4	1.15	.69
6	1 1/8 x 1 1/2 x 2 1/4	1.30	.78
8	1 1/8 x 1 1/2 x 2 1/4	1.35	.81

525v. Surge Pk.—450v. D.C. Work.

Type PM450—Single Section

Cap. Mfda.	Size-Ins. D.—W.—L.	List Price	Net Price
1	3/4 x 1 1/2 x 2 1/4	\$0.55	\$0.33
2	3/4 x 1 1/2 x 2 1/4	.65	.39
4	3/4 x 1 1/2 x 2 1/4	.75	.45
6	1 1/8 x 1 1/2 x 2 1/4	.90	.54
8	1 1/8 x 1 1/2 x 2 1/4	.95	.57

Type PM450—Double Section

4-4	1 1/2 x 1 1/2 x 4 1/2	\$1.20	\$0.72
4-8	1 1/2 x 1 1/2 x 4 1/2	1.35	.81
8-8	1 1/2 x 1 1/2 x 4 1/2	1.50	.90

Type PM450—Triple Section

4-4-4	1 1/2 x 1 1/2 x 4 1/2	\$1.80	\$1.08
8-8-8	1 1/2 x 1 1/2 x 4 1/2	2.20	1.32

AEROVOX

EXACT DUPLICATE

Replacement Condensers

Having pioneered the Exact-Duplicate idea for years, AEROVOX is happy indeed to have it universally accepted today. And doubly so because, having refused to take the easier way of so-called general-utility types, and sometimes called "Universal" replacements, AEROVOX has built up a really complete line backed by the most extensive listings in use.

FIT Right! . . .

Because exact needs of standard sets in use have been critically studied, AEROVOX Exact-Replacement units readily fit in place of the original condensers. No jamming. No taping. No sloppy wiring. Saves time and trouble.

WORK Right! . . .

Because electrical as well as mechanical considerations have received thorough attention, AEROVOX replacements not only duplicate but usually excel the performance of the replaced units.

LOOK Right! . . .

Last but not least, an AEROVOX replacement restores the radio chassis to its original "new" status. Set owner is satisfied the job has been done right.



EXACT-DUPLICATE PAPER-WOUND REPLACEMENT CONDENSERS



Atwater-Kent



Sparton

These units are the finest replacement condensers obtainable, embodying AEROVOX high quality construction throughout.

They are carefully engineered and built to give long lasting service in the sets for which they are designed.

ATWATER-KENT	Cap. Mfda.	List Price	Net Price
37 Filter	.5	\$0.90	\$0.54
37 Bypass	.25-.25-.25	1.35	.81
37 Block		9.00	5.40

SPARTON	Cap. Mfda.	D. C. W. V.	List Price	Net Price
5031	.5	400	\$0.90	\$0.54
5032	1.	200	.90	.54
5033	.25	600	.90	.54

CROSLEY	Cap. Mfda.	List Price	Net Price
W4013B	1.	\$0.85	\$0.51
W4232B	.5-.5	1.05	.63
W4233	.5	.65	.39
W4313B	.5	.65	.39
W4381	.06-.06	.75	.45
W4381B	1.-1.	.80	.48
W4919	.5	.80	.48
W4968	.5	.65	.39
W5862	1.-1.	1.70	1.02
W5863	.5-.5	1.65	.99
W5943	.1	.80	.36
W8428	.5-.5	1.05	.63
W8471	.1	.55	.33
W7753B	1.-5-.1	1.25	.75
W20186	3.-25-.25	1.25	.75
W20187	.1	.60	.36
W20188	.1	.60	.36
W20446A	1.-5-.1	1.25	.75
W20447	.1	.60	.36
W20448	.1	.55	.33
W20449	.5-.1	.85	.51
W22412	1.-1.-1.-1	1.15	.69
W22815	1.-5	.90	.54
W22985	1.-5	.90	.54
W23736	.6-.25-.25	1.25	.75
W24333	.6-.5	1.05	.63
W27204	.02-.02	.35	.21

GENERAL MOTORS	Cap. Mfda.	List Price	Net Price
T204221	1.166	\$2.00	\$1.20
T204757	1.-1.-1.-1	1.50	.90
T206156	1.0-3.0	4.00	2.40
T206397	1.-1	.65	.39
T206834	.5.-1.-1	1.20	.72
T207239	1.0	.90	.54

TUBULAR CARDBOARD REPLACEMENTS

A line of handy universal replacement electrolytics in cardboard tubes, with two spade lugs for mounting and separate wire leads for each section. Inexpensive. Attractive in appearance. Popular as general-utility replacements.



A-C D-C REPLACEMENTS

				List Price	Net Price
88	Spade Lug Type	8-8	450	⊕ 1 7/8x3 3/4	\$1.35 \$0.81
1218	Spade Lug Type	12-16	200	⊕ 1 7/8x2 3/4	1.55 .93
816	Spade Lug Type	8-16	450	⊕ 1 7/8x4 1/4	1.65 .99
148	Spade Lug Type	14-8x10-10	200x25	⊕ 1 7/8x4 1/4	2.05 1.23
168	Spade Lug Type	16-8x10-10	200x25	⊕ 1 7/8x3 3/4	2.05 1.23
1812	Spade Lug Type	16-12x10-10	200x25	⊕ 1 7/8x4 1/4	2.15 1.29
2020	Spade Lug Type	20-20	200	⊕ 1 7/8x4 1/4	2.25 1.35
1212		12-12x5-5	200x25	⊕ 1 x1 3/4x2 3/4	1.95 1.17
		(Same as Bosch Part CE-0520)			
88855		8-8x5-5	200x25	⊕ 1 1/4x1 1/2x3	2.50 1.50
18188		16-16-8x5-5	150x25	⊕ 1 1/2x1 1/4x3	2.45 1.47
8820		8-8-20	200	⊕ 1 3/4x1 1/4x2 3/4	2.10 1.26

Type Container—⊕ Cardboard Box; ⊕ Rectangular Can; ⊕ Universal Can; ⊕ Inverted Can; ⊕ Inverted Can (Wet); ⊕ Cartridge; ⊕ Inverted Can (Insulated Cover); ⊕ Cardboard Tube; ⊕ Cardboard Tube (Spade Lug Mounting); ⊕ Metal Can; ⊕ Round Can Special.

AEROVOX

EXACT DUPLICATE Replacement Condensers

INSIST UPON GETTING GENUINE AEROVOX EXACT DUPLICATE ELECTROLYTIC REPLACEMENT CONDENSERS

When you MUST use identical replacements, simply remember to ask for AEROVOX EXACT DUPLICATE REPLACEMENTS. Designed specifically for most all standard sets . . . finest replacement units obtainable . . . embodying AEROVOX high-quality construction throughout.



Model of Set	Part No.	Cap. Mfd.	D.C. Work Voltage	Size—Inches	List Price	Net Price
AIR KING						
15, 16, 21, 22, 26, 29, 42, 48, 61, 221, 222, 250, 522, 699	10105	10-10-5	150	① 1x1½x3	\$1.70	\$1.02
ANSLEY						
		16-16-16	200	② 1½x4¼	1.90	1.14
ATWATER KENT						
155 (1 & 2) 155 (3) 275, 825 376	24602 24955 26158 27592	8-8-8 8-8-8 8-14-8 4-8-10	150 150 100 450-450-25	① 1½x1½x3¼ ① 1½x1½x3¼ ② 1¼x1½x3¾ ③ 1½x4¼	1.65 1.65 1.95 1.90	.99 .99 1.17 1.14
ALL STAR JUNIOR						
PM5-444		4-4-4	450	① 1½x1½x4½	1.75	1.05
BOSCH						
117, 127, (new) 360-375, 440-470 (old) 04 350, 500 501, 502 310A 250, 251	CE954 105237 CE3520 SA-105772 SA-104422 SA-1C3950	4-8x20 4-4-4 12-12x5-5 4-12-8x4 8-8x4 8-8x4-4	450-450-25 450-450-25 200x25 200x25 475-300 450-450-450x300	④ 1½x4¼ ① 1x1½x2¾ ① 1x1½x2¾ ② 1½x2¼x4¾ ③ 1½x2¼x4¾	2.10 1.95 2.15 3.00 2.75	1.26 1.17 1.29 1.80 1.65
139, Types H, L, HT, LT, CE-9510 early HC, LC, HTC CE-9510 later LTC		4-4 4-4	350 350	④ 1½x1½ ④ 1½x2¼	1.15 1.15	.69 .69
BELMONT						
(Freshman) 545	C-525-B	5-25-5	100	① 1½x1½x2¾	1.60	.98
	103-4	16	500	④ 1½x4	1.35	.81
	103-6	8	500	④ 1½x3½	.95	.57
	103-7	8	350	④ 1½x3½	.90	.54
	103-8	16	500	④ 1½x4	1.35	.81
425	A11093-1	5-25-5	200	① 7⁄8x2¾x2¼	1.95	1.17
Same as Spartan part No. A11093-1 for Models 65, 65T, 66, 66T, 506						
505A Series	119-249	5-5	200	① 1½x3¼	.90	.54
650	C525C	5-25	100	① 1½x1½x2¾	1.25	.75
CLARION (TCA)						
G422	P4717	16-4	150	① 1½x1½x2¾	1.10	.66
COLONIAL						
122, 125	R-8730-C	8-4	300-150	① 2½x1½x1½	1.05	.63
	D-4758-P	8	500	④ 1½x3½	.95	.57
	R-7236	16	500	④ 1½x4	1.35	.81
	R-12451	8	350	④ 1½x3½	.90	.54
	R-12478	16	500	④ 1½x4	1.35	.81
250	R-8053	8x8x8	200	① 1½x1½x2¾	1.90	1.14
1850, 1951 1882 (Sears Roebuck)	R-10673	6-6x25	150x25	① 1½x1½x2¾	1.50	.90
CROSLEY						
122, 152	W-23801	6-8	450	① 2¼x1½x4¼	1.45	.87

Model of Set	Part No.	Cap. Mfd.	D.C. Work Voltage	Size—Inches	List Price	Net Price
CROSLEY—Continued						
93, 163	W25857B	8-8	200-25	① 1½x1½x2¼	\$1.00	\$0.60
129-1, 130, 131-1, 132-1	W26119	8-4	150-300	① 1½x1½x2¾	1.05	.63
132-1, 146	W26194B	12	475	① 1½x4¼	2.05	1.23
96, 130, 155, 163	W26870	10	25	③ 5⁄8x2¾	.45	.27
146	W26896	12-6	300-25	① 4⁄8x1³⁄8x¼	1.35	.81
148, 1467	W27488A	8-6	25-300	① 1½x1½x2¼	.95	.57
147	W27677A	8-8	100	① 1x1x2¼	.75	.45
163, 400, 402	W28068	12	200	① 1½x1½x2¼	.80	.48
160	W28468	8-12	350-475	① 1½x5¼	2.25	1.35
164, 170, 171	W29097B	8-8-8	450-450-250	④ 1½x5¼	2.15	1.29
169	W29150B	6-7-8	450-450-25	④ 1½x4¼	1.90	1.08
166, 172	W29264A	16-16-8	125-100-20	④ 1½x3¼	2.00	1.20
174	W29804A	8-16-16	150	④ 1½x5¼	1.85	1.11
102, 103	W29808	12	300	③ 1½x2¾	.95	.57
129, 134, 135 137, 141, 150 158	B30017	4-8	450	④ 1½x4¼	1.30	.78
129-1, 130-1, 132, 136-1, 157	B30018	8-8	450	④ 1½x5¼	1.40	.84
175	W30059A	8-8-8	450-250-450	④ 1½x6¾	1.95	1.17
173, 173-5	W30124	16-16-8	100-125-125	④ 1½x4¼	1.85	1.11
133	W30419	8-8	20-250	④ 1x3¾	1.00	.60
152	W30962	8-25	125	④ 1½x1½x3½	1.45	.87
(Same as United Motors condenser part A-443341 for Model 4052)						
175	W32374	8-8-8	450-250-450	④ 1½x6¾	1.95	1.17
(Same as Crosley W-30059A)						
555, 915, 1055, 1155, 6615, 6625	W36057	40	350	④ 1½x4	1.80	1.08
(Standard Aerovox Type PG350-40)						
555, 715, 725 855, 865, 915, 955, 1055, 6625	W36055	30	500	④ 1½x4½	1.70	1.02
(Standard Aerovox Type PG500-30)						
DETROLA						
1460		4-8-20	150	① 1½x1½x3¾	1.65	.99
J-312		8-8-8-4	150	① 1½x1½x3¾	1.80	1.08
ERLA						
2272		8-20	150	① 1½x1½x2¼	1.20	.72
9442		4-10x7-7	150	① 1½x1½x3¾	2.00	1.20
9982		8-20-8	150	① 1½x1½x2¾	1.65	.99
EMERSON						
Chassis No.	Part No.	Cap. Mfd.	D.C. Work Voltage	Size—Inches	List Price	Net Price
20A, 25, 25A	G4	HC-31	4-4	200	④ 1x1x2½	\$0.90 \$0.54
20A, 25, 25A	G4	HC-32	5-5	35	④ 7⁄8x1x1½	.75 .45
250	H5	KC-56	8-8	200	④ 1x1½x3	1.15 .69
250W	H5S	KC-68	4-8-16	175	④ 1x1½x4	1.80 1.08
32	U5S	GGC-137	8-16x5-5	150-25	④ 1x1½x4	2.05 1.23
19	UV4	KKC-143	12-8	150	④ 1½x1½x2¾	1.25 .75
31B5	UV5	UUC-179	12-8x5-5	150-25	④ 1x1½x4	1.95 1.17
	U6A	ZZC-192A	4-8-16	150	④ 1x2½x3¾	1.90 1.14
	U6B	ZCC-194	8-16	150	④ 3⁄4x2½x3¾	1.45 .87
108, 110	U5A	Z7C-Z73	9-16	150	④ 1x2x2¾	1.35 .81
106	U6B	ZCC-222	12-12	150	④ 3⁄4x2½x3¾	1.75 1.05
38	U6D-U6	GCC-125C	4-8-16	150	④ 1½x3¾	1.90 1.14

Type Container—① Cardboard Box; ② Rectangular Can; ③ Universal Can; ④ Inverted Can; ⑤ Inverted Can (Wet); ⑥ Cartridge; ⑦ Inverted Can (Insulated Cover); ⑧ Cardboard Tube; ⑨ Cardboard Tube (Spade Lug Mounting); (10) Metal Can; (11) Round Can Special.

AEROVOX EXACT DUPLICATE Replacement Condensers

EMERSON—Continued		Cap. Mfd.	D.C. Work. Voltage	Size—Inches	List Price	Net Price	
409, 410, 411 (Mickey Mouse)	U4B 2WC-239	8-5x5	150-25	⊙ 1½x ¾x2½	\$1.45	\$0.87	
Mod. 45	6GD EEC-129	8-8-4	150	⊙ 1½x4¼	1.50	.90	
107	U6F 2LC-224	16-4-8	150	⊙ 1½x4	1.85	1.11	
965	ZC-123	6-10	350	⊙ 1½x1½x2½	1.40	.84	
BA-199	4DC-345	16-16	150	⊙ 1x3½	1.40	.84	
375	W6 TC-89	4x12x16	150	⊙ 1x1½x3	1.70	1.02	
36	TTC-159	6-8-12	450-450-25	⊙ 1½x4¼	2.25	1.35	
	AX-211 4HC-348B	20-20	150	⊙ ¾x2½	1.15	.69	
Model of Set	Part No.	Cap. Mfd.	D.C. Work. Voltage	Size—Inches	List Price	Net Price	
FADA							
RN	4-1362-MS	8-16	200	⊙ 1½x3¼	\$1.45	\$0.87	
	4-1380-MS	8-8	250	⊙ 1 x4½	1.20	.72	
RU	4-1450-MS	8-9-16	250-150-250	⊙ 1½x4¾	1.95	1.17	
	4-1451-MS	8	150	⊙ 1½x3¼	.65	.39	
GALVIN (See Motorola)							
GE Mod.	RCA Models	Part No.	Cap. Mfd.	D.C. Work. Voltage	Size—Inches	List Price	Net Price
G. E. and RCA-VICTOR							
K40, K40A	R27, R17M, R18W, M105, 330, 331	3536 (new) 66140-2 (old)	5-5	35	⊙ ¾x2½	.75	.45
K40A	R27, R17, R18W	3538 (new) 66140 (old)	4-4	200	⊙ ¾x3½	.95	.57
K60, K65, K63	R37, R38, R37P, R38P, 120	6487 (new) 66155 (old)	4-4-10-4	300-300-150-25	⊙ 1½x1½x3¾	2.05	1.23
B52	M34, M1C5	6492 (new) 66140-4 (old)	3.6-1	100-200	⊙ ¾x2½	.80	.48
L50	R22	6511 (new) 66160-2 (old)	8-4-10	150-100-25	⊙ 1½x1½x3¾	1.30	.78
L50	R22	6518 (new) 66160 (old)	8-8	250-175	⊙ 1½x1½x3¾	1.15	.69
K40A	R18W	6535	4-4	150-300	⊙ 1x3½	.90	.54
K78, K79	330, 331	6555 (new) 66143-2 (old)	10-4	300-150	⊙ 1½x1½x3¾	1.20	.72
C-30, K43	100, 101, 103, T-48, T-49	6661 (new) 66185-2 (old)	8-8-5-5	450-450-50-50	⊙ 1½x1½x4½	2.20	1.32
K66, K66N	220, 222	6691 (new) 66189-2 (old)	8-4-4-4	350-150-300-25	⊙ 1½x1½x3¾	2.05	1.23
K64, M65, M68	121, 122, 321	6703 (new) 66189-1 (old)	8-4-4	350-150-300	⊙ 1½x1½x3¾	1.65	.99
L53	114	6723 (new) 66171-1 (old)	8x8x8 -4-8-10	200-200-250-25	⊙ 1½x2½x3¾	3.60	2.16
K52, K53, K58	R28, R26P, R28BW, RE40, RE40P, T5-2, 110, 111, 115, 117, 118, 119, 128, 128E, 210, 211, 224E, 228, 310	7589 (new) 66143 (old)	4-4	150-450	⊙ 1x1½x3¾	1.05	.63
	CB-2, C7-6, CB-15, CB-17, C9-4, C9-6, C11-1, C13-2, C15-3, D7-7, D9-19, D11-2, D22-1, T8-1, T8-9, T7-6, T8-14, T8-16, T8-9	5512 (new) 68597-3 (old)	20	350	⊙ 1½x3½	1.40	.84
					(Standard Aerovox Type PG350-20)		

GE Mod.	RCA Models	Part No.	Cap. Mfd.	D.C. Work. Voltage	Size—Inches	List Price	Net Price
	C6-2, C8-15, C8-17, C9-4, C9-6, D7-7, D9-19, T8-1, T8-9, T7-6, T8-14, T8-16, T8-9	11240 (new) 68597-6 (old)	12	500	⊙ 1½x3½	\$1.15	\$0.69
					(Standard Aerovox Type PG500-12)		
	C11-1, C13-2, C14-3, D11-2, D22-1	11203 (new) 68597-6 (old)	12	500	⊙ 1½x3½	1.15	.69
					(Standard Aerovox Type PG500-12)		
		66122-2	4-4	250	⊙ 1½x1½x2½	.90	.54
Model of Set	Part No.	Cap. Mfd.	D.C. Work. Voltage	Size—Inches	List Price	Net Price	
GENERAL ELECTRIC (See also G. E. and RCA-VICTOR)							
F63-F65	K12J6	12-8	450	⊙ 1½x4½	1.55	.83	
F70-F75	K12J11	12-8-8-10	450-450-350-25	⊙ 1½x5½	2.20	1.32	
A63-A65	RC507	4-8x4	25-25x450	⊙ 1½x1½x2½	1.15	.69	
GENERAL MOTORS							
	1203346	4-4	450	⊙ 1½x5½	1.40	.84	
GRUNOW							
501, 550	Chassis 5B	27151	4-8-20-4	25-150-150-150	⊙ 1½x2½x1½	2.20	1.32
670, 671	Chassis 6D	30091-1	8-8x8x12-12	450-475-25	⊙ 1½x2½x2½	3.20	1.92
625		34119-6	5-5x10-10	60-350	⊙ 1x2½x3½	2.35	1.41
		30326	8-8-12	350-350-25	⊙ 1½x1½x2½	1.80	1.08
INTERNATIONAL							
	A-407	4-4	150	⊙ ¾x1x3	.85	.51	
Kadette (Standard)	A-408	5-5	35	⊙ ¾x ¾x1½	.75	.45	
ES19, ES20, ES25, ES30, 60, 65, 80, 85	A-412	8-30	150	⊙ ¾x1½x3½	1.55	.93	
40, 41, 42, 46	A-421	3.5-3.5-3.5	150-150-25	⊙ ¾x1½x2¾	1.30	.78	
Kadette A and B (A-430) (A-428)	A-424	4-10-10	150	⊙ 1 x1½x3¾	1.65	.99	
	A-426	2-7	100	⊙ ¾x1½x2¾	.95	.57	
	A-427	3.5-3.5-3.5	100-100-25	⊙ ¾x1½x2¾	1.20	.72	
A and B	A-425	10-10-4	150	⊙ 1½x ¾x2¼	1.55	.93	
66, 66X	A-422 (old) A-443 (new)	8-30	150	⊙ 1½x3¾	1.15	.69	
Kadette A and B (A-424) (A-428)	A-430	4-10-10	150	⊙ 1 x1½x3¾	1.65	.99	
1019	A-468	8-8x8-8	150x250	⊙ 1½x3¾	2.30	1.38	
LE WOL							
LW4		25-10	150	(10) 1x2x3¼	1.40	.84	
		4-4-4	150	(10) 1½x1½x3¾	1.30	.78	
MAJESTIC							
211, 214, 215, 221, 223, 251-B, 253-B, 254-B, 351, 353	4713	8	450	⊙ 1½x1½x4½	.95	.57	
151, 153, 154, 155, 156, 251, 253, 254	5414	8	450	⊙ 1½x1½x4½	.80	.48	
201, 203, 204	6277	8-4-4	450	⊙ 1½x2½x4½	2.00	1.20	
11	6433	4-8	450	⊙ 1½x1½x4½	1.25	.75	
56, 57, 58	6501	8-8	450	⊙ 1x3¼x4	1.40	.84	
291, 293							
294	7173	8	450	⊙ ¾x1½x4½	.80	.48	
291, 293							
294	7278	7-10	150-6	⊙ 1½x1½x2¼	1.00	.60	

Type Container—⊙ Cardboard Box; ⊕ Rectangular Can; ⊕ Universal Can; ⊕ Inverted Can; ⊕ Inverted Can (Wet); ⊕ Cartridge; ⊕ Inverted Can (Insulated Cover); ⊕ Cardboard Tube; ⊕ Cardboard Tube (Spade Lug Mounting); (10) Metal Can; (11) Round Can Special.

AEROVOX

EXACT DUPLICATE Replacement Condensers

Model of Set	Part No.	Cap. Mfd.	D.C. Work Voltage	Size—Inches	List Price	Net Price
MAJESTIC—Continued						
303, 304, 307, 324	7402	10	6	⊕ $1\frac{1}{2} \times 2\frac{1}{4}$	\$0.45	\$0.27
311, 314, 315	7489	16	450	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 4\frac{1}{2}$	1.15	.69
324, 344, 363	7824	8-16	300-450	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 4\frac{1}{2}$	1.55	.93
311, 314, 315, 331, 336-77, 344, 363, 393	7988	7	150	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	.60	.36
Chassis 114 Auto	8118	20	30	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	.60	.36
15, 153, 154, 155, 156	8286	5	6	⊕ $1\frac{1}{2} \times 2\frac{1}{4}$	.45	.27
77, 331, 336	8385	8-8	450	⊕ $1\frac{1}{2} \times 2\frac{1}{2} \times 4\frac{1}{2}$	1.40	.84
331, 336-77, 344, 393	8721	16	450	⊕ $1\frac{1}{2} \times 4$	1.25	.75
381	8722	8	450	⊕ $1\frac{1}{2} \times 3\frac{1}{2}$	.85	.51
381	8755	4-8	450	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 4\frac{1}{2}$	1.25	.75
381	8774	10	25	⊕ $1\frac{1}{2} \times 2\frac{1}{4}$	.45	.27
344, 363	9019	10	25	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	.45	.27
371, 373	9219	8-8	450	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 4\frac{1}{2}$	1.35	.81
411, 411A, 413, 413A	9661	8-10-16	150-25-150	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 4$	1.80	1.08
66X Chassis 116A Auto	9979	8-8	350	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{4}$	1.40	.84
118	10369	8-8	400	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{4}$	1.35	.81
40, 49, 194 Chassis 440	10536	10-4-6	25-300-350	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 4\frac{1}{2}$	1.70	1.02
55, 59, 75, 195, 560, 556	10827	10-8-8	25-350-350	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 5\frac{1}{2}$	1.85	1.11
77, 331, 336, Chassis 330	8721	16	450	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	1.55	.93
MONTGOMERY WARD (Air Line Radio)						
62-96, 62-98	80944-A (old) 4-12-16	150		⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	1.65	.99
	80944-E (new) 4-12-16	150		⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 3$	1.65	.99
(Same as Wells Gardner condenser for Model 05A, 05B, 05AA, 05BA)						
MOTOROLA (Galvin)						
100	1388	8-8x25	350x25	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	2.00	1.20
75 (Early)	1465	6-6	350	⊕ $1 \times 1\frac{1}{2} \times 2\frac{3}{4}$	1.15	.69
75 (Later)	1468	6-4x6	200x12	⊕ $1 \times 1\frac{1}{2} \times 2\frac{3}{4}$	1.40	.84
60, 80	2185	8-8x25	300x25	⊕ $1\frac{1}{2} \times 3\frac{1}{4}$	1.80	1.08
34	34	3-6-10	200-200-12.5	⊕ $1 \times 1\frac{1}{2} \times 4\frac{1}{2}$	1.40	.84
34	8426	4-8x5	350x200	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$	1.70	1.02
44	8123	8-12	200	⊕ $1\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{3}{4}$	1.25	.75
44, 66, 77A	4-8200	4-8	200	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{4}$	1.05	.63
57 (Early)	1424	2-4	250	⊕ $2 \times 1\frac{1}{2} \times 1\frac{1}{2}$	1.10	.66
57 (Later)	1540	3-5x6	200x25	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$	1.35	.81
Dual 6 & Dual 8	8825	8-8-25	350-350-25	⊕ $2 \times 2 \times 2\frac{1}{2}$	1.75	1.05
9-A, 6-2, 8-1, 10-1, 12-1	14-H37275	16-2-2-25	450-450-450-25	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	2.30	1.38
PILOT						
63	71106TJ	8-8x2-2	475x475	⊕ $1\frac{1}{2} \times 2\frac{1}{2} \times 3\frac{1}{4}$	3.45	2.07
PEERLESS E250						
Model V		4-20	150	⊕ $1\frac{1}{2} \times 2 \times 3$	1.70	1.02
Model 4Z		15-8x5-5	150x25	⊕ $1 \times 1\frac{1}{2} \times 3$	1.55	.93
RADIO KEG						
RCA. (See G. E. and RCA-VICTOR)						
SILVERTONE						
7110	148	10-10x8-14	25x150	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	1.95	1.17
SIMPLEX						
PR		4-4	450	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 4\frac{1}{2}$	1.20	.72
(Standard Aeroxox Type PBM450-4-4)						
Model V		4-20	150	⊕ $1 \times 1 \times 4\frac{1}{2}$	1.40	.84
Model 4Z		15-8x5-5	150x25	⊕ $1 \times 1 \times 4\frac{1}{2}$	1.90	1.14
STEWART WARNER						
10-20	81698	5-5	25	⊕ $3\frac{1}{4} \times 3\frac{1}{4} \times 1\frac{1}{2}$	.75	.45
R-115, R-116	81959	4-13-7	150	⊕ $3\frac{1}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$	1.65	.99
R-112	83111	8-8-5-5	250-250-25-25	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{2}$	1.95	1.17
	83394	12	150	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	.65	.39

Model of Set	Part No.	Cap. Mfd.	D.C. Work Voltage	Size—Inches	List Price	Net Price
STEWART-WARNER—Continued						
85430		16	350	⊕ $1\frac{1}{2} \times 3\frac{1}{2}$	1.10	.66
(Standard Aeroxox Type PG350-16)						
85431		16	500	⊕ $1\frac{1}{2} \times 4$	1.35	.81
85792						
85793						
(Standard Aeroxox Type PG500-16)						
	83962	10-5	25-350	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	1.35	.81
SPARTON A-9550						
71, 71B, 72-78	A-9754	5-25-5	200	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	1.90	1.14
	A-9308	20	25	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	1.60	.96
(Standard Aeroxox Type 2G450-8-8)						
65, 65T, 66, 66T, 506	A-11093-1	5-25-5	200	⊕ $1\frac{1}{2} \times 2\frac{3}{4} \times 2\frac{3}{4}$	1.95	1.17
(Same as Belmont for Model 425)						
UNITED MOTORS (Delco)						
	6508	8-8-4-4	350-350-25-25	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	2.05	1.23
	4038	10-10	300	⊕ $1\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{3}{4}$	1.55	.93
4048	6201	4-4-12	200	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	1.70	1.02
(Same as Apex Condenser (U. S. Radio & Tel) for Model 5 Part 6201)						
4052	A-443341	8-25	125	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{2}$	1.45	.87
(Same as Crosley part W-30962 for Model 182)						
982008 Oldsmobile 1936	R13183 (new) 1210514 (old)	8-8-12	250-250-20	⊕ $1\frac{1}{2} \times 2 \times 2\frac{3}{4}$	1.80	1.08
980509 (Buick 1936)	1210885	8-8x12x5	350x25x50	⊕ $1 \times 2\frac{3}{4} \times 3$	2.15	1.29
626, 627, Chev. 601662	1209285	12x8-8	25x350	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	1.95	1.17
1934-35-Buick, Chev., Olds., Pont.	1209047	12x8-8	25x350	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	1.75	1.06
U. S. RADIO & TEL.						
Apex-5	6201	4-4-12	200	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	1.65	.99
(Same as United Motors (Delco) for Model 4048)						
Apex (1001 Chassis) 10B-200 President	2719	8	300	⊕ $3\frac{1}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$	.75	.45
WARE						
S-76 (MB78)		4-4x4-8	450x450	⊕ $1\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$	2.50	1.50
WELLS-GARDNER						
05A, 05BA, 05AA	80944-A (old) 4-12-16	150		⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	1.85	1.11
	80944-E (new) 4-12-16	150		⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 3$	1.85	1.11
(Same as Montgomery Ward Air Line Models 62-96, 62-98)						
	81042	16	500	⊕ $1\frac{1}{2} \times 4$	1.35	.81
(Standard Aeroxox Type PG500-16)						
	81043	20	350	⊕ $1\frac{1}{2} \times 3\frac{1}{2}$	1.40	.84
(Standard Aeroxox Type PG350-20)						
WEBSTER S-3888						
		40	100	⊕ $1 \times 4\frac{1}{2}$	.95	.57
WURLITZER (Lyric)						
SA-5	35-3715	8-8-10	450-450-25	⊕ $1\frac{1}{2} \times 5\frac{1}{4}$	1.80	1.08
C4-M4	37-3773	4-8x10	250-25	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 4$	1.50	.90
SU-5		12-16x10	150-25	⊕ $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{3}{4}$	1.70	1.02
ZENITH						
22-125		8	450	⊕ $1\frac{1}{2} \times 3\frac{1}{4}$	1.05	.63
(Standard Aeroxox Type G450-8)						
	22-217	8-8	450	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	1.60	.96
(Standard Aeroxox Type 2G450-8-8)						
	22-230	8-8	450	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	1.60	.96
(Standard Aeroxox Type 2E450-8-8)						
	22-236	8-8-10	300-300-25	(11) $1\frac{1}{2} \times 2\frac{3}{4}$	1.70	1.02
	22-125	8	500	⊕ $1\frac{1}{2} \times 3\frac{1}{2}$	.85	.57
	22-331					
(Standard Aeroxox Type PG500-8)						
7D126	22-484F	4-16-8-4	250	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	2.70	1.62
Chassis 5401, 4P26, 4T26						
4P51, 4T51	22-407B	2-4-8	450	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	1.95	1.17
7S-28, 7S-30, 7S-53, Chassis 5704	22-416F	8-8-2	450	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	2.00	1.20
Chassis 5903, 9S30, 9S54, 9S55	22-412C	2-4-16	475	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	2.50	1.50
Chassis 5633, 6D116, 6D117, 6D118	22-481F	4-8-16	150	⊕ $1\frac{1}{2} \times 3 \times 3\frac{3}{8}$	1.85	1.11
5639, 6D-219	22-560	35-16-10	150-150-25	⊕ $1\frac{1}{2} \times 4\frac{1}{2}$	1.50	.90

Type Container—⊕ Cardboard Box; ⊕ Rectangular Can; ⊕ Universal Can; ⊕ Inverted Can; ⊕ Inverted Can (Wet); ⊕ Cartridge; ⊕ Inverted Can (Insulated Cover); ⊕ Cardboard Tube; ⊕ Cardboard Tube (Spade Lug Mounting); ⊕ Metal Can; ⊕ Round Can Special.

AEROVOX INTERFERENCE ANALYZER TYPE ANL-37



Plugs between interfering device and outlet. Selector switch adjusted until noise is eliminated or minimized. Dial indicates which type filter to use. Hand-some. Sturdy metal cabinet. Compartment contains necessary test leads and attachment plugs and clips. Size 5 1/2 x 5 1/2 x 8 inches.

TYPE ANL-37
Dealers' and Servicemen's
Net Price \$7.00

AEROVOX Type IN-23



Especially for elimination of interference caused by fractional horsepower motors. Mounting bracket for attaching to frame of motor. Flexible leads for connecting across motors such as in hairdriers, fans, mixers, etc. .5-.5 mfd. 1 x 2 1/4 in.

TYPE IN-23
List Price \$0.75... Net Price \$0.45

AEROVOX Type IN-24



Designed for use in the most serious cases of radio interference from power lines and appliances. Provided with inductance as well as capacitance for thorough filtering action. Plugs into electric outlet. Radio set or interfering device plugs into receptacle of the filter. Especially desirable between device and line. Measures 4 x 2 1/2 x 3 1/4 in. 110-220v. A.C.

TYPE IN-24
List Price \$4.75... Net Price \$2.85

AEROVOX Type IN-27



Simple, inexpensive noise filter. Inserted between set and outlet when interference is slight. Also used with appliance causing low-intensity interference. Keeps troublesome noises out of house wiring and power line. Size 1 3/4 x 1 1/2 inches.

TYPE IN-27
List Price \$0.65... Net Price \$0.39

AEROVOX Type IN-28



Intended for cases where ground is considerable distance from point of application. Most efficient when mounted directly on interfering device by bracket. Size 1 3/4 x 2 inches.

TYPE IN-28
List Price \$0.95... Net Price \$0.57

AEROVOX Type IN-29



Provides additional filtering action over IN-27 and IN-28. Especially effective for local sources of interference of variable character but strong intensity. Very effective for electric razor and other vibrating devices. Plugs between device and line. Size 1 3/4 x 3 inches.

TYPE IN-29
List Price \$0.75... Net Price \$0.45

AEROVOX Type IN-30



Similar to IN-29 but with additional inductance. Handles more severe interference. Plugs between set and outlet, or preferably between noisy appliance and outlet. Size 1 3/4 x 3 inches.

TYPE IN-30
List Price \$1.25... Net Price \$0.75

AEROVOX Type IN-31



Plugs in between attachment cord and electric outlet, either of set or preferably at appliance. Additional inductance for better filtering. Works best mounted by bracket directly on interfering appliance. Size 1 3/4 x 3 inches.

TYPE IN-31
List Price \$1.50... Net Price \$0.90

ANTENNA SUBSTITUTE



Plugs into outlet or light socket. Flexible lead connects with set antenna post. Provides good aerial substitute under average wiring conditions. Size 1 3/4 x 2 inches.

TYPE ANT-32
List Price \$1.00... Net Price \$0.60

AUTO-RADIO CONDENSERS



Suppressor Condensers
Type 1120 — 1.0 Mfd.
List Price \$0.75
Net Price45
Type 1140 — 0.5 Mfd.
List Price \$0.50
Net Price30

Dual Section Suppressor Condenser

Type 1141 — .5-.5 Mfd.
List Price \$0.75
Net Price45



MOTOROLA Replacement Condenser

For Models
65 and 70
(Part No. 3321)
(2) Type 1466 — .0008 Mfd.
2500v. D.C. Test
List Price \$0.50
Net Price30



SUPPRESSOR CONDENSERS FOR FORD AUTO RADIOS

Type 1144-Cap. .5 Mfd.
List Price \$0.50
Net Price30



FOR 1936 MODELS

Type 1150-Cap. .5 Mfd.
List Price \$0.50
Net Price30



OIL-IMPREGNATED OIL-FILLED TUBULAR CONDENSERS



2000v. D.C. Working

Type 2089 oil-impregnated, oil-filled tubular condensers completely sealed from moisture or oil leakage and are ideal for vibrator applications, coupling condensers and transmitters, or high-voltage amplifiers and test equipment. All 2089 units are housed in a brass cadmium-plated can electrically insulated by special varnished-paper jacket. Ends of jacket spun over can rim eliminate possibility of shorts if leads are bent close to unit. Provided with mounting strap for additional connection.

Type No.	Cap. Mfd.	Size-Ins. D. L.	List Price	Net Price
2089	.0075	1 1/2 x 2 1/4	\$.75	\$.45
2089	.01	1 1/2 x 2 1/4	.80	.48
2089	.015	1 1/2 x 2 1/4	.80	.48
2089	.02	1 1/2 x 2 1/4	.85	.51
2089	.03	1 1/2 x 2 1/4	.85	.51
2089	.04	1 1/2 x 2 1/4	.90	.54
2089	.05	1 1/2 x 2 1/4	.95	.57

Oil-impregnated Metal-Case VIBRATOR CONDENSERS



Type	Cap.	List Price	Net Price
Type 1130 — One Lead	.007 Mfd.	\$.04	\$.01
Type 1131 — Two Leads	.01 Mfd.	\$.05	\$.01
	.02 Mfd.	\$.06	\$.02
	.03 Mfd.	\$.07	\$.02

Any Capacity, Each
List Price \$0.45 Net Price \$0.27

Oil-impregnated Vibrator Condensers



Type	Cap.	List Price	Net Price
1135	.01	\$0.60	\$0.36
1135	.5	.65	.39

Tubular Paper Vibrator Condensers Type 1684 — 1600 V.D.C.W.



Type	Cap.	List Price	Net Price
1684	.005 Mfd.	\$.35	\$.21
1684	.007 Mfd.	.35	.21
1684	.01 Mfd.	.35	.21
1684	.02 Mfd.	.35	.21

Oil-impregnated Tubular Vibrator Condensers

Hermetically sealed oil condenser in metal tubes, with an outer cardboard tube as an insulating cover.

Type	Cap.	List Price	Net Price
1686	.005 Mfd.	\$.45	\$.27
1686	.007 Mfd.	.45	.27
1686	.007 Mfd.	.55	.33
1686	.008 Mfd.	.60	.36

Gas-Gauge Filter Condenser

Type 1143-G
.05 mfd.

List Price \$0.50
Net Price30



"Hash" Condenser

Type 1122-Cap. .5 Mfd.
List \$0.40... Net \$0.24



Dome Light Filter Condenser TYPE 1180

List Price \$0.80
Net Price48



Oil-Gauge Filter Condenser Type 1142-0

.25 mfd.
List Price \$0.50
Net Price30



Ammeter Condensers



Type	Cap.	List Price	Net Price
1160	.5	\$0.45	\$0.27
1170	1.0	.65	.39

AEROVOX Paper Condensers Mica Condensers

TUBULAR PAPER CONDENSERS



Aerovox cartridge condensers are especially desirable for use where high grade units are required at low cost. They are compact, non-inductively wound and sealed in wax impregnated paper tubes with wax filled ends for longer life and protection against moisture.

Types and D.C.W. Voltages			484-400		684-600	
Cap. Mfd.	List Price	Net Price	List Price	Net Price	List Price	Net Price
.001			\$0.15	\$0.09		
.002			.15	.09		
.003			.15	.09		
.004			.15	.09		
.005			.15	.09		
.006			.15	.09		
.01	\$0.15	\$0.09	.15	.09		
.015			.15	.09		
.02	.15	.09	.15	.09		
.03	.15	.09	.20	.12		
.04	.15	.09	.20	.12		
.05	.15	.09	.20	.12		
.06	.20	.12	.25	.15		
.1	.20	.12	.25	.15		
.25	.25	.15	.35	.21		
.5	.35	.21	.60	.30		
1.0	.50	.30				

1084-1000			1684-1600	
Cap. Mfd.	List Price	Net Price	List Price	Net Price
.001	\$0.20	\$0.12		
.002	.20	.12		
.003	.20	.12		
.004	.20	.12	\$0.35	\$0.21
.005	.20	.12		
.006	.20	.12		
.007			.35	.21
.01	.30	.18	.35	.21
.02	.30	.18	.35	.21
.03			.40	.24
.04			.40	.24
.05	.35	.21	.45	.27
.1	.50	.30		

STAMPED METAL CASE PAPER CONDENSERS



200 Volts D.C. Working

Type	Cap. Mfd.	List Price	Net Price
260	.05	\$0.50	\$0.30
260	.1	.55	.33
260	.25	.70	.42
260	.5	.80	.48
260	1-1	.75	.45
260	.25-25	.95	.57
260	1-1-1	1.00	.60
261	1.0	1.05	.63
261	.5-.5	1.15	.69
261	.25-.25-.25	1.25	.75

400 Volts D.C. Working

Type	Cap. Mfd.	List Price	Net Price
460	.05	\$0.55	\$0.33
460	.1	.65	.39
460	.25	.75	.45
460	.5	.95	.57
460	1-1	.80	.48
460	1-1-1	1.05	.63
461	.25	.75	.45
461	1.0	1.25	.75
461	.25-25	1.00	.60
461	.5-.5	1.25	.75
461	.25-.25-.25	1.30	.78

MICA CONDENSERS

Providing a wide choice of designs, sizes, mountings and terminals, AEROVOX molded mica receiving condensers offer the correct unit for every application, as listed.

Despite low cost, each unit is built of selected mica and foil, with the clamped section finally imbedded in a molded bakelite casing that is impervious to moisture, heat and mechanical damage. Capacity values are closely maintained by micrometer test for thickness of every sheet of mica used. As a result, values are precisely maintained through years of service.

Capacity values are indicated on the units.

Type 1450



High voltage, 1,000 volts D.C. test. Size 1 1/4 x 1 1/4 in.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.0001	\$0.35	\$0.21	.003	\$0.55	\$0.33
.0002	.35	.21	.004	.55	.33
.00025	.35	.21	.005	.55	.33
.0004	.35	.21	.006	.65	.39
.0005	.35	.21	.01	.80	.48
.001	.40	.24	.02	1.20	.72
.002	.45	.27			

Type 1460



Popular type mica condenser. Size 1 1/2 x 5/8 in. Two soldering lug terminals. Test volts 1000.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00004	\$0.15	\$0.09	.00025	\$0.20	\$0.12
.00005	.15	.09	.0005	.20	.12
.0001	.15	.09	.001	.25	.15
.00015	.15	.09	.002	.30	.18
.0002	.15	.09			

SILVER MICA CONDENSERS



Type 1464

For most critical applications where precise capacity values must be attained and maintained, AEROVOX silvered mica units are generally available. Encased in red molded AM bakelite. Similar in external appearance to standard bakelite molded mica units.

Unique construction. Only plus .0022 per degree F.—a remarkably low temperature coefficient. Excellent retrace characteristics. Practically no capacity drift with time. Exceptionally high "Q". Mechanically protected against physical damage and changes in electrical characteristics due to varying atmospheric conditions. Wax impregnated externally. Ideal for use in circuits where inductance and capacity product must remain constant under all operating conditions. Specifically designed for use in push-button tuning where accuracy and stability are of prime importance.

Standard tolerance ±5%. For ±20% deduct 10% from price. For ±10% deduct 5%. For ±3% add 10%. For ±2% add 15%. For ±1% add 25%.

Type 1467



Compact, size 3/8 in. square, provided with wire leads. Test volts 1000.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00004	\$0.15	\$0.09	.0002	\$0.15	\$0.09
.00005	.15	.09	.00025	.20	.12
.00007	.15	.09	.0005	.20	.12
.00075	.15	.09	.001	.25	.15
.0001	.15	.09	.002	.30	.18
.00015	.15	.09	.0025	.35	.21

MIDGET MICA CONDENSERS

Type 1468 With Wire Leads



Midget size 3/8 x 3/8 in. provided with wire leads. Test volts 1000.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00004	\$0.15	\$0.09	.00015	\$0.15	\$0.09
.00005	.15	.09	.0002	.15	.09
.00007	.15	.09	.00025	.20	.12
.00075	.15	.09	.0005	.20	.12
.0001	.15	.09			

TYPE 1464—1000v. D.C. TEST

Size 3/8 in. square. Provided with wire leads.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00075	\$1.00	\$0.60	.0025	\$2.00	\$1.20
.001	1.25	.75	.003	2.25	1.35
.0015	1.50	.90	.004	2.35	1.41
.002	1.50	.90	.005	2.50	1.50

Type 1469



TYPE 1469—1000v. D.C. TEST

Size 1/4 in. x 1/4 in. Provided with wire leads.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.000005	\$0.50	\$0.30	.00015	\$0.50	\$0.30
.00001	.40	.24	.0002	.50	.30
.000025	.40	.24	.00025	.50	.30
.00004	.40	.24	.0003	.75	.45
.00005	.40	.24	.00035	.75	.45
.00007	.40	.24	.0004	.75	.45
.000075	.40	.24	.0005	.75	.45
.0001	.40	.24			

UNCASED

PAPER CONDENSERS



Non-inductively wound high grade uncase sections, neatly shaped and wrapped in black varnish paper with ends sealed with pitch and provided with insulated wire leads, eight inches long. Designed for replacement use in filter block repair work.

TYPE UC200-200 V.D.C.W.

Cap. Mfd.	Size-In. L. x W. x D.	List Price	Net Price
.1	2 x 3/4 x 1/4	\$0.30	\$0.18
.25	2 x 1 x 3/8	.30	.18
.5	2 x 1 x 3/8	.40	.24
1.0	2 x 1 1/2 x 3/8	.60	.36

TYPE UC400-400 V.D.C.W.

Cap. Mfd.	Size-In. L. x W. x D.	List Price	Net Price
.1	2 x 1 1/4 x 1/4	\$0.35	\$0.21
.25	2 x 1 1/2 x 3/8	.40	.24
.5	2 x 1 3/8 x 3/8	.50	.30
1.0	2 x 1 7/8 x 3/8	.75	.45
2.0	3 1/4 x 1 7/8 x 1/2	1.15	.69
4.0	4 3/8 x 1 7/8 x 1 1/8	2.00	1.20

TYPE UC600-600 V.D.C.W.

Cap. Mfd.	Size-In. L. x W. x D.	List Price	Net Price
.1	2 x 1 1/2 x 3/8	\$0.40	\$0.24
.25	2 x 1 3/4 x 3/8	.50	.30
.5	2 x 1 7/8 x 3/8	.60	.36
1.0	3 1/4 x 1 7/8 x 3/8	.90	.54
2.0	3 7/8 x 1 7/8 x 1 1/8	1.35	.81
4.0	4 3/8 x 1 7/8 x 1 1/8	2.70	1.62

TYPE UC1000-1000 V.D.C.W.

Cap. Mfd.	Size-In. L. x W. x D.	List Price	Net Price
.25	2 x 1 3/4 x 3/8	\$0.75	\$0.45
.5	2 x 1 7/8 x 3/8	1.00	.60
1.0	3 1/8 x 1 7/8 x 1	1.50	.90
2.0	3 3/8 x 2 1/8 x 1 1/8	2.50	1.50

BAKELITE-CASE PAPER CONDENSERS



TYPE 250-200 V.D.C.W.

Cap. Mfd.	Size-In. L. x W. x D.	List Price	Net Price
.05	1 1/2 x 1 1/4 x 3/8	\$0.80	\$0.48
.1	1 1/2 x 1 1/4 x 3/8	.90	.54
.25	1 1/2 x 1 1/4 x 3/8	.95	.57
.5	1 1/2 x 1 1/4 x 3/8	1.05	.63
1.0	1 3/4 x 1 1/4 x 3/8	1.45	.87

TYPE 450-400 V.D.C.W.

Cap. Mfd.	Size-In. L. x W. x D.	List Price	Net Price
.05	1 1/2 x 1 1/4 x 3/8	\$0.95	\$0.57
.1	1 1/2 x 1 1/4 x 3/8	1.00	.60
.25	1 1/2 x 1 1/4 x 3/8	1.05	.63
.5	1 3/4 x 1 1/4 x 3/8	1.50	.90
.8	1 3/4 x 1 1/4 x 3/8	2.00	1.20

COMPLETE



CATALOG

NOTE.—WE CAN SUPPLY ANY AEROVOX CONDENSER NOT LISTED IN THESE PAGES. SEND FOR COMPLETE AEROVOX CATALOG.

AEROVOX Transmitting

CONDENSERS RESISTORS

AEROVOX "HYVOL" TELEVISION CONDENSERS OIL-IMPREGNATED OIL-FILLED

"12" Series

Careful checking of operating conditions for television receivers already in use has created a wholesome respect for high voltages, peaks, surges and general strain on condensers in such assemblies. To meet such requirements, AEROVOX has developed this high-voltage oil-filled paper condenser.

Type 12 design includes new high-voltage molded cover, eliminating leakage and flashover. Oil-impregnated oil-filled paper section fully insulated from can. Generous specifications—more paper dielectric than usually considered necessary.

Type 2012-2000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
1.0	2 1/4 x 3 3/4	\$5.00	\$3.00	
2.0	2 1/4 x 5 1/4	8.50	5.10	

Type 3012-3000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
.05	2 1/4 x 2 1/4	\$5.75	\$3.45	
.1	2 1/4 x 2 1/4	6.25	3.75	
.25	2 1/4 x 3 1/4	7.50	4.50	
.5	2 1/4 x 3 3/4	9.00	5.40	
1.0	2 1/4 x 5 1/4	12.00	7.20	

Type 4012-4000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
.05	2 1/4 x 2 3/4	\$7.50	\$4.50	
.1	2 1/4 x 3 3/4	8.25	4.95	
.25	2 1/4 x 5 1/4	9.00	5.40	

Type 6012-6000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
.03	2 1/4 x 2 3/4	8.00	4.80	
.05	2 1/4 x 3 1/4	9.00	5.40	
.1	2 1/4 x 4 1/4	10.00	6.00	

Type 7512-7500v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
.01	2 1/4 x 3 1/4	\$7.50	\$4.50	
.02	2 1/4 x 3 1/4	8.25	4.95	
.03	2 1/4 x 3 3/4	9.00	5.40	
.05	2 1/4 x 3 3/4	10.00	6.00	
.1	2 1/4 x 4 1/4	12.50	7.50	

"14" Series

Particularly applicable for use in high-voltage filter circuits such as cathode-ray tube power supplies, high-voltage by-pass circuits in transmitters and high-powered public address equipment. Type 14 units are made in the standard 1 3/8" diameter. Grounded can unit with single high-voltage insulator terminal. Offered in a choice of popular capacities. Generous specifications.

Grounded Can—Single Insulator Type 3014-3000v. D.C.W.

Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price
.01	1 3/8 x 2 1/4	\$4.60	\$2.76
.05	1 3/8 x 2 1/4	4.75	2.85
.1	1 3/8 x 2 3/4	5.00	3.00

AEROVOX "HYVOL" OIL-IMPREGNATED OIL-FILLED CONDENSERS In Rectangular Metal Cans "09" Series

With NEW Universal Adjustable Mounting Bracket



Selected paper section condensers filled and impregnated with "Hyvol," the new super-dielectric oil. Hermetically-sealed in sturdy welded-steel aluminum-finished can, leak-proof and seepage-proof. High tension

pillar terminals fitted with lock-nuts and soldering lugs. Exceptionally compact dimensions for given capacity, working voltage—and safety factor due to use of "Hyvol." Intended for heavy-duty continuous service in transmitters, amplifiers, etc. Provided with the new universal adjustable mounting bracket for mounting any height above or below chassis platform.

Type 609-600v. D.C.W.

Cap. Mfds.	Size-Ins. W. x D.	List Price	Net Price
1	2 3/8 x 1 3/8 x 1 1/8	\$3.50	\$2.10
2	3 1/4 x 1 3/8 x 1 1/8	4.25	2.55
4	3 3/4 x 2 3/8 x 1 1/8	5.50	3.30

Type 1009-1000v. D.C.W.

Cap. Mfds.	Size-Ins. W. x D.	List Price	Net Price
1	2 3/8 x 1 3/8 x 1 1/8	\$3.75	\$2.25
2	3 3/8 x 1 3/8 x 1 1/8	5.00	3.00
4	4 3/8 x 2 3/8 x 1 1/8	6.25	3.75

Type 1509-1500v. D.C.W.

Cap. Mfds.	Size-Ins. W. x D.	List Price	Net Price
1	4 x 1 3/8 x 1 1/8	\$4.50	\$2.70
2	4 1/8 x 2 3/8 x 1 1/8	6.25	3.75
4	4 3/8 x 3 3/4 x 1 1/4	8.50	5.10

Type 2009-2000v. D.C.W.

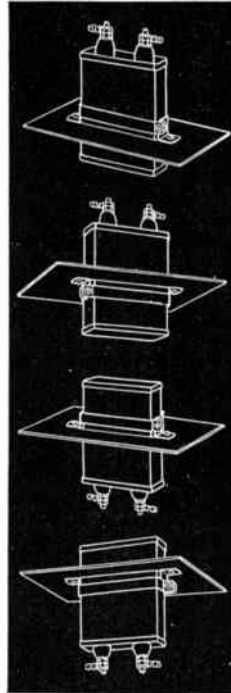
Cap. Mfds.	Size-Ins. W. x D.	List Price	Net Price
1	3 1/4 x 2 3/8 x 1 3/8	\$5.50	\$3.30
2	3 3/8 x 3 3/4 x 1 3/8	6.50	3.90
4	3 3/8 x 3 3/4 x 2 1/4	9.00	5.40

Type 2509-2500v. D.C.W.

Cap. Mfds.	Size-Ins. W. x D.	List Price	Net Price
1	3 3/4 x 3 3/4 x 1 3/4	\$8.00	\$4.80
2	4 3/8 x 3 3/4 x 1 3/4	13.00	7.80

Type 3009-3000v. D.C.W.

Cap. Mfds.	Size-Ins. W. x D.	List Price	Net Price
1	3 3/8 x 3 3/4 x 2 1/4	\$12.00	\$7.20
2	4 1/4 x 3 3/4 x 3 3/8	15.00	9.00



Type 4009-4000v. D.C.W.

Cap. Mfds.	Size-Ins. W. x D.	List Price	Net Price
1	5 1/8 x 3 3/4 x 2 1/4	\$22.00	\$13.20
2	5 3/8 x 4 3/8 x 3 3/4	28.00	16.80

Type 5009-5000v. D.C.W.

Cap. Mfds.	Size-Ins. W. x D.	List Price	Net Price
1	4 3/8 x 4 3/8 x 3 3/4	\$25.00	\$15.00
2	6 3/8 x 4 3/8 x 3 3/4	32.00	19.20

AEROVOX "HYVOL"

OIL-IMPREGNATED OIL-FILLED CONDENSERS In Round Aluminum Cans

"05" Series



Pure linen paper dielectric, impregnated and filled with the new super-dielectric oil, "Hyvol." Convenient round can, provided with ring mounting. High-voltage insulator pillar terminals. Hermetically sealed in leak-proof containers. Very conservative ratings for continuous operation, and therefore larger than the "10" Series inverted screw-mounting units.

Type 605-600v. D.C.W.

Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price
1	2 x 2 3/4	\$2.50	\$1.50
2	2 x 2 3/4	3.25	1.95
4	2 x 3 3/4	4.50	2.70

Type 1005-1000v. D.C.W.

Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price
1	2 x 5 1/4	\$2.75	\$1.65
2	2 x 5 1/4	3.75	2.25
4	2 1/2 x 5 1/4	4.75	2.85

Type 1505-1500v. D.C.W.

Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price
1	2 x 5 1/4	\$3.50	\$2.10
2	2 x 5 1/4	4.75	2.85
4	2 1/2 x 5 1/4	6.00	3.60

Type 2005-2000v. D.C.W.

Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price
1	2 x 4 3/4	\$4.50	\$2.70
2	2 1/2 x 5 1/4	5.00	3.00

Type 2505-2500v. D.C.W.

Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price
1	2 x 5 1/4	\$6.00	\$3.60
2	2 1/2 x 5 1/4	10.00	6.00

Type 3005-3000v. D.C.W.

Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price
1	2 1/2 x 5 1/4	\$9.00	\$5.40
2	8 x 5 1/4	11.00	6.60

AEROVOX "HYVOL" OIL-IMPREGNATED OIL-FILLED CONDENSERS In Round Aluminum Cans—Inverted Mounting



"10" Series

Designed for inverted screw mounting with can grounded. With insulating washer, can may be insulated from metal chassis if preferred. Extremely compact for use in crowded assemblies. Hermetically sealed. Leakage-proof. Used extensively in filter circuits of power supplies, high-gain, high-fidelity amplifiers, television circuits, transceivers, etc.

Type 610-600v. D.C.W.

Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price
2	1 3/8 x 3 3/4	\$2.75	\$1.65
3	1 3/8 x 4 1/4	3.25	1.95
4	1 3/8 x 5 1/4	3.75	2.25

Type 1010-1000v. D.C.W.

Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price
1	1 3/8 x 2 3/4	\$2.50	\$1.50
2	1 3/8 x 4 1/4	3.25	1.95

Type 1510-1500v. D.C.W.

Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price
.5	1 3/8 x 2 3/4	\$3.00	\$1.80
1	1 3/8 x 4 1/4	3.25	1.95

Hermetically-Sealed Tubular Condensers OIL-IMPREGNATED OIL-FILLED Type 89



Genuine oil-impregnated oil-filled tubular condensers. Completely sealed for moisture or oil leakage. Ideal for vibrator applications, coupling condensers and transmitters, or high-voltage amplifiers and test equipment. In brass cadmium-plated can. Electrically insulated by special varnished-paper jacket. Ends spun over rim eliminate possibility of shorts if leads are bent close to unit. Provided with mounting strap for added connection.

Types and D.C.W. Voltages

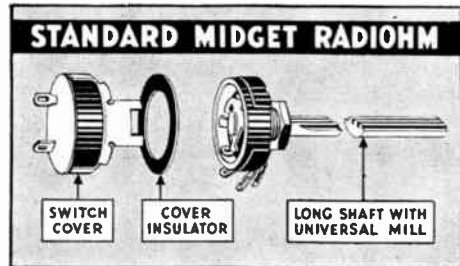
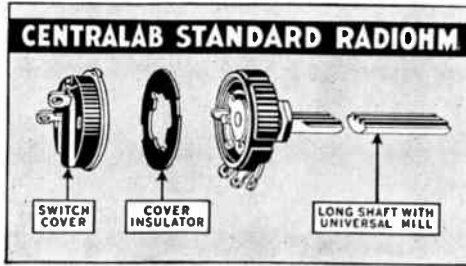
Cap. Mfd.	489-400		689-600	
	List Price	Net Price	List Price	Net Price
.006	\$0.35a	\$0.21	\$0.40a	\$0.24
.007	.35a	.21	.40a	.24
.0075	.35a	.21	.40a	.24
.008	.35a	.21	.40a	.24
.01	.40a	.24	.50a	.30
.015	.40a	.24	.50b	.30
.02	.40b	.24	.50b	.30
.03	.50b	.30	.60b	.36
.04	.50b	.30	.60c	.36
.05	.60c	.36	.70d	.42
.1	.70d	.42	.80g	.48
.25	.85e	.51	.90e	.54
.5	1.00f	.60	.....	.....

Cap. Mfd.	1089-1000		2089-2000	
	List Price	Net Price	List Price	Net Price
.006	\$0.50a	\$0.30	\$0.75g	\$0.45
.007	.50a	.30	.75g	.45
.0075	.50a	.30	.75g	.45
.008	.50a	.30	.80g	.48
.01	.60b	.36	.80g	.48
.015	.60b	.36	.80h	.48
.02	.60b	.36	.85h	.51
.03	.70c	.42	.85h	.51
.04	.70c	.42	.90h	.54
.05	.80c	.48	.95h	.57
.1	.90g	.54	.....	.....

Sizes—Type 89			
a—1 3/8 x 1 3/8	f—1 3/8 x 2 3/4		
b—3/8 x 1 3/8	g—3/8 x 2 3/4		
c—3/8 x 1 3/8	h—3/8 x 2 3/4		
d—3/8 x 2 3/4			

Centralab

Quality Controls • Resistors • Selector Switches



WALL TYPE RESISTOR hugs inner circumference of black molded bakelite case. Exclusive non-rubbing contact band assures quiet, smooth rotation and long life. Case dimensions: 1 3/8" diameter x 9/16" deep. Soft aluminum shaft extends 3 3/8" from case; milled full length for push-on or set screw knob.

Companion to the Standard Radiohm, the Midget is necessary to replace original controls in many current models using small controls for space savers. Molded bakelite case, 1 1/8" diameter. 1/4" soft aluminum shaft 3 3/8" long.

CENTRALAB STANDARD RADIOHM WITHOUT TAP LESS SWITCH.....\$1.00 WITH SWITCH.....\$1.50

Catalog Number		Usual Circuit Location	Resistance	
Without Switch	With Switch		Ohms	Curve
72-118	62-118	Voltage Divider	500	1
72-107	62-107	Voltage Divider	1000	1
72-101	62-101	Voltage Divider	2000	1
72-108	62-108	Voltage Divider	3000	1
72-109	62-109	Voltage Divider	4000	1
72-110	62-110	Voltage Divider	5000	1
70-204	52-204	Antenna Shunt	5000	6
72-139	62-139	Voltage Divider	7500	1
72-114	62-114	Antenna, C-bias	10000	1
72-113	62-113	Antenna, C-bias of One Tube	10000	3
70-205	52-205	Antenna, C-bias of Two Tubes	10000	4
72-100	62-100	Antenna Shunt	10000	6
72-115	62-115	Antenna, C-bias	15000	3
79-006	99-006	Antenna, C-bias	15000	4
72-119	62-119	Antenna, C-bias	20000	3
72-111	62-111	Voltage Divider	25000	1
70-206	52-206	C-bias	25000	4
72-102	62-102	Antenna Shunt	25000	3
72-103	62-103	Voltage Divider	50000	1
72-117	62-117	Tone Control	50000	6
72-123	62-123	Tone Control	75000	6
70-202	52-202	C-bias	75000	4
72-104	62-104	Voltage Divider	100000	1
72-122	62-122	Audio Grid or Tone	100000	6
72-136	62-136	Audio Grid or Tone	150000	6
72-120	62-120	Audio Grid or Tone	200000	1
72-131	62-131	C-bias	200000	4
72-121	62-121	Audio Grid or Tone	250000	6
72-105	62-105	Audio Grid or Tone	500000	6
72-106	62-106	Voltage Divider	500000	1
70-203	52-203	Series in R. F. Plate	500000	4
72-140	62-140	Audio Grid or Tone	750000	6
72-116	62-116	Audio Grid or Tone	1 Meg	6
72-137	62-137	Audio Grid or Tone	2 Megas	6
72-132	62-132	Audio Grid or Tone	3 Megas	6

TAPPED STANDARD RADIOHM LESS SWITCH.....\$1.50 WITH SWITCH.....\$2.00

Cat. No.	Circuit	Resistance	Curve
72-138	62-138	Tapped Audio Grid	250000 10
72-134	62-134	Tapped Audio Grid	500000 10
72-135	62-135	Tapped Audio Grid	1 Meg 10
72-142	62-142	Tapped Audio Grid	2 Megas 10

CENTRALAB MIDGET RADIOHM WITHOUT TAP LESS SWITCH.....\$1.00 WITH SWITCH.....\$1.50

Catalog Number		Usual Circuit Location	Resistance	
Without Switch	With Switch		Ohms	Curve
NF-106	PF-106	Voltage Divider	500	1
NF-107	PF-107	Antenna, C-bias	10000	1
NF-100	PF-100	Antenna, C-bias of One Tube	10000	3
NF-108	PF-108	Antenna, C-bias of Two Tubes	10000	4
N-109	P-109	Antenna Shunt	10000	6
NF-110	PF-110	Antenna, C-bias of One Tube	15000	3
NF-111	PF-111	Antenna, C-bias of Two Tubes	15000	4
NF-112	PF-112	Antenna, C-bias	20000	3
NF-113	PF-113	Voltage Divider	25000	1
NF-101	PF-101	Antenna, C-bias	25000	3
N-114	P-114	Voltage Divider	50000	1
N-115	P-115	Tone Control	50000	6
N-116	P-116	Voltage Divider	100000	1
N-117	P-117	Audio Grid or Tone	100000	6
N-102	P-102	Audio Grid or Tone	250000	6
N-118	P-118	Voltage Divider	500000	1
N-103	P-103	Audio Grid or Tone	500000	6
N-134	P-104	Audio Grid or Tone	1 Meg.	6

TAPPED MIDGET RADIOHM

LESS SWITCH.....\$1.50 WITH SWITCH.....\$2.00

Catalog Number		Maximum Resistance	Tap Resistance
Without Switch	With Switch		
NT-119	PT-119	250M	75M
NT-147	PT-147	250M	125M
NT-148	PT-148	350M	75M
NT-120	PT-120	500M	150M
NT-149	PT-149	500M	250M
NT-150	PT-150	1 Meg.	200M
NT-121	PT-121	1 Meg.	300M
NT-151	PT-151	2 Megas.	200M
NT-152	PT-152	2 Megas.	400M
NT-122	PT-122	2 Megas.	600M
NT-153	PT-153	2 Megas.	1 Meg.
NT-154	PT-154	2 Megas.	1 Meg.

ATTACHABLE SWITCH COVERS

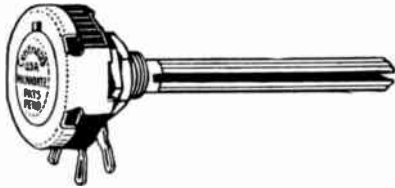
FOR STANDARD AND WIRE WOUND RADIOHMS

Cat. No.	Circuit	Price
K-10	Single Pole Single Throw	\$0.50
K-11	Single Pole Double Throw	.60
K-12	Double Pole Single Throw	.60
K-15	Four Point	.60
K-16	Single Pole Double Throw (Operates at clockwise position)	.60
K-17	Single Pole Single Throw (With Dummy Lug)	.60

FOR MIDGET RADIOHMS

Cat. No.	Circuit	Price
K-155	Single Pole Single Throw	\$0.50
K-155	Single Pole Double Throw	.60
K-157	Double Pole Single Throw	.60
K-158	Four Point	.60
K-169	Single Pole Single Throw (With Dummy Lug)	.60

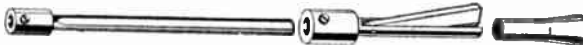
UNIVERSAL SPLIT-KNURL REPLACEMENT CONTROLS



Many 1938-39 and 40 radio sets use split-knurl shafts and the knobs will not fit the usual flatted shaft. These new Centralab replacements will fit simply by cutting the shaft to proper length. Shaft is brass, $3\frac{3}{8}$ " long from mounting surface, and easily cut. For switch type, add Midget Radiohm switch covers K-155, K-156, K-157, or K-158.

Cat. No.	Ohms	Type	Price
NK-139	250M	Plain	\$1.00
NK-140	500M	Plain	1.00
NK-141	1 Meg.	Plain	1.00
NK-142	2 Meg.	Plain	1.00
NK-143	500M	Tapped	1.50
NK-144	1 Meg.	Tapped	1.50

EXTENSION SHAFTS



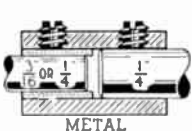
REGULAR Pat. No. 2157662 AUTO TYPE

Use with replacement controls or selector switches where long shafts are required. The auto type extension replaces any slotted or tongue type original auto control shaft.

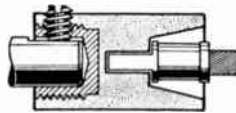
K-181—Extension shaft (4" x 1/4" dia. x 1/32" flat).....	.30
K-182—Extension shaft (4" x 1/4" dia. x 3/32" flat).....	.30
K-183—Extension shaft (4" x 3/16" dia. x 1/64" flat).....	.30
K-159—Auto type (3" x 1/4" dia.; 3/32" tongue and slot).....	.50

SHAFT COUPLERS

K-161: for coupling two 1/4" shafts or one 1/4" and one 3/16" shaft. Steel, 3/4" long, 7/16" diameter. Price \$.25



METAL

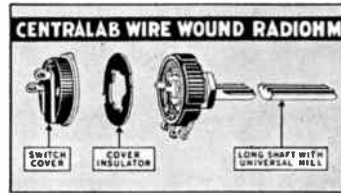


INSULATED

K-184: Bakelite insulating auto control coupling. 1/4" diameter hole for control shaft; opposite end cone shaped and slotted to take most remote cable coupling. Price \$.25

K-168: Same as K-184 but with square hole for Motorola receivers. Price \$.25

WIRE WOUND RADIOHMS



Dimensions identical to Standard Radiohm. Only plain controls are listed — converted to switch type with Standard Radiohm switch covers.

Insulated soft aluminum shaft extends $3\frac{3}{8}$ " from case, milled full length for push-on or set screw knob. Rating 3 watts. All controls have linear relation of resistance to rotation.

Price—All Types \$1.00 (Less Switch)

Cat. No.	Ohms	Cat. No.	Ohms
V-100	2	V-121	100
V-102	4	V-123	200
V-104	6	V-125	300
V-106	8	V-126	400
V-108	10	V-127	500
V-109	15	V-128	750
V-110	20	VF-129	1000
V-111	25	VF-131	2000
V-112	30	VF-133	3000
V-114	40	VF-134	4000
V-116	50	VF-135	5000
V-117	60	VF-136	7500
V-118	75	VF-137	10000

UNIVERSAL AUTO REPLACEMENT



Pat. No. 2157662

Replaces controls having slotted or tongue type shafts. 1/4" shaft 3" long slotted with hinged insert, complete with guide funnel. Plain units furnished with slip clutch. Separate switches cannot be attached to plain controls. Order plain or switch type as required. Tone compensation tap on all controls can be omitted if desired. Switches D.P.S.T. type.

LESS SWITCH.....\$1.50 WITH SWITCH.....\$2.00

NA-123	PA-123	Tapped Audio Grid	250000	10
NA-105	PA-105	Tapped Audio Grid	500000	10
NA-124	PA-124	Tapped Audio Grid	1 Meg.	10
NA-125	PA-125	Tapped Audio Grid	2 Megs.	10

TWIN REPLACEMENT RADIOHMS

Two resistance elements completely insulated from each other and from the shaft and bushing. Sections are Standard Radiohm bases, 1 3/8" diameter, both rotated by a single aluminum shaft 3" long.

Cat. No.	Resistance		Price
	Front Base	Back Base	
74-601	10,000	25,000	\$2.50
74-602	10,000	50,000	2.50
4010805	100,000	100,000	2.50
4010807	250,000	250,000	2.50
4010804	500,000	500,000	2.50

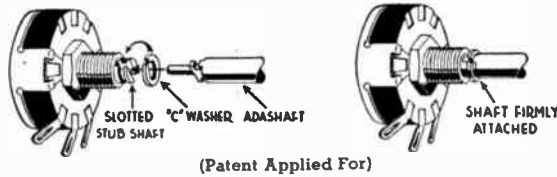
PHONOHM

A compact portable headphone volume control in "L" pad or potentiometer type enclosed in black molded bakelite case furnished with arrow knob. All types furnished less cords.

Cat. No.	Type	Resis. Ohms	Price
MP-149	Potentiometer	5M	\$1.50
MP-150	Potentiometer	10M	1.50
MP-151	Potentiometer	100M	1.50
ML-152	"L" Pad	5M	2.00
ML-153	"L" Pad	10M	2.00
ML-154	"L" Pad	100M	2.00

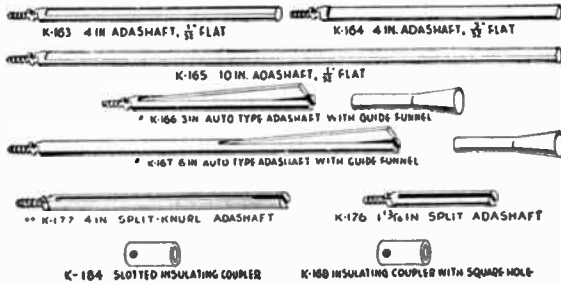
OVER 350 SPECIAL REPLACEMENT CONTROLS ARE LISTED IN THE CENTRALAB VOLUME CONTROL GUIDE

● ADASHAFT MIDGET RADIOHM



(Patent Applied For)

By merely adding any one of the shafts illustrated below the simple Adashaft construction permits a maximum of replacement possibilities with a minimum of stock. One K-163 shaft is included with each control listed in this group and additional parts are available upon request. The illustration above indicates the method of attaching the shaft to the control and by firmly clinching the "C" washer, the shaft is held in place without wobble or play.



Adashaft Midget Radiohms are supplied without switch. To convert any control to switch type, use Midget switch covers listed on page L-5. Available resistance values and tapers are listed below.

Price, Less Tap, \$1.00

Catalog Number	Usual Circuit Location	Resistance Ohms	Curve
NF-126	Antenna, C-Bias	10M	3
NF-146	Antenna, C-Bias	25M	4
N -127	Tone Control	50M	6
N -128	Audio Grid or Tone	250M	6
N -129	Audio Grid or Tone	500M	6
N -130	Audio Grid or Tone	1 Meg.	6
N -131	Audio Grid or Tone	2 Meg.	6
N -145	Audio Grid or Tone	3 Meg.	6

● TAPPED ADASHAFT MIDGET RADIOHMS

Price, With Tap, \$1.50

Catalog Number	Usual Circuit Location	Resistance Ohms	Curve
NT-132	Tapped Audio Grid	250M	10
NT-133	Tapped Audio Grid	500M	10
NT-134	Tapped Audio Grid	2 Meg.	10
NT-135	Tapped Audio Grid	2 Meg.	10

● ADASHAFT FOR CONTROLS LISTED ABOVE

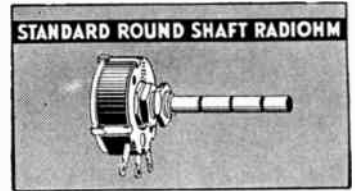
Catalog Number	Description	Price Each
K-163	4" Adashaft; 1/16" flat full length	\$.25
K-164	4" Adashaft; 3/32" flat full length	\$.25
K-165	10" Adashaft; 1/16" flat full length	\$.25
K-167	6" Auto Type Adashaft with Guide Funnel	\$.35
K-166	3" Auto Type Adashaft with Guide Funnel	\$.35
K-177	4" Split Knurl Adashaft	\$.25
K-176	1 1/2" Split Adashaft	\$.25

● STANDARD ROUND SHAFT RADIOHM

Shaft has no milled flat, so that a pointer type knob can be located in any desired relation to the slider. Useful for many commercial applications. This unit is identical to the Standard Radiohm except that the shaft is 1/4" round steel cadmium plated length, 2 1/4" from the face of the unit, with grooves every half inch for breakoff purposes. Below are listed the available types less switch. These may be converted into switch type by using any of the standard switches listed on this and previous page.

Price, All Types (Less Switch), \$1.00

Catalog Number	Resistance	Curve
AS-139	10M	1
AS-140	25M	1
AS-141	50M	1
AS-142	100M	1
AS-143	100M	6
AS-144	250M	1
AS-145	250M	6
AS-146	500M	1
AS-147	500M	6
AS-148	1 Meg.	6
AS-149	5 Megs.	6
AS-150	10 Megs.	6

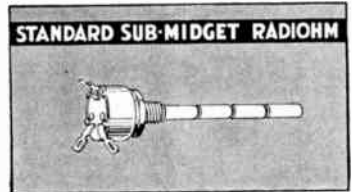


● STANDARD SUB-MIDGET RADIOHM

A small diameter control with many of the characteristics of larger units, the standard sub-midget radiohm is ideal for use in small equipment and spaces where other control will not fit. It is especially aptable in the construction of hearing aids and to the requirements of experimenters, home set builders or "hams" for use in portable equipment. Case dimensions are 3/8" depth by 3/4" diameter. Round steel shaft extends 2 3/8" beyond face of unit, and is grooved every half inch from end of bushing. Features the wall type resistor which hugs the inner circumference of a metal case. The Standard Submidget Radiohm is not available with switch. Below are listed the available types.

Price, All Types, \$1.00

Catalog Number	Resistance	Curve
NS-10	1M	1
NS-11	5M	1
NS-12	10M	1
NS-13	25M	1
NS-14	50M	1
NS-15	100M	6
NS-16	250M	6
NS-19	500M	1
NS-17	500M	6
NS-18	1 Meg.	6



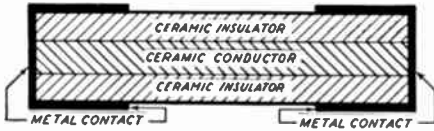
● ADASHAFT DEALER KIT



Kit consists of twelve controls listed on this and previous page, an assortment of twelve shafts, five K-155 and one K-157 switches, and two couplers. An attractive and sturdy metal box finished in Centralab blue offers a handy method of carrying and maintaining a complete supply of adashaft controls and accessories.

Catalog No. 418 — Price \$17.60

● CENTRALAB FIXED RESISTORS



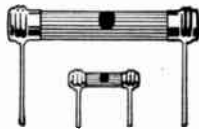
Pat. No. 1,978,163; 2,083,339; 2,084,840; 2,188,667

This magnified cross section illustrates important and exclusive features of Centralab resistor design. These are:

1. Center core of resistance material is surrounded by a dense shock-proof ceramic providing strength and protection against humidity.
2. Core and jacket are fired together at 2500 degrees F. into a single solid unit, hard and durable as stone.
3. Pure copper covers the resistor ends for wire lead contact. Contact to the resistance material is at the extreme ends only, providing uniform resistance and load distribution over ENTIRE length. End contacts do not short circuit part of resistance as in other types.
4. Because resistance is small in diameter and uniformly distributed for entire length, Centralab's specific resistance per unit length is low. The result is low noise level and constant value over a wide range of frequency and voltage. In ordering, specify both type and desired resistance. All resistors have flexible wire leads 1 1/2" long, and are R.M.A. color coded. Type 316 and 314 individually labeled and packed in cartons of ten. Type 710 and 714 packed live of one value to a card, ten cards in a package.

● RADIAL LEAD RESISTORS

- Type 310—Size 1/8" x 3/8", rating .5 watt\$0.12
 Type 314—Size 1/4" x 1" rating 1 watt\$0.18
 Type 316—Size 1/4" x 1 1/4", rating 2 watts\$0.20



● AXIAL LEAD RESISTORS



- Type 710 — Size 1/8" x 3/8", rating .5 watt\$0.17
 Type 714—Size 1/4" x 1", rating 1 watt, \$0.20

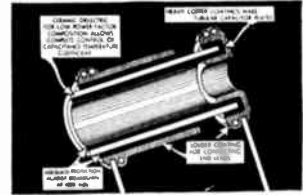
STOCK RESISTANCE VALUES

10	750	2,500	12,000	50,000	300,000
25	800	3,000	13,000	55,000	400,000
50	900	3,500	14,000	60,000	500,000
75	1,000	4,000	15,000	70,000	750,000
100	1,100	5,000	17,000	75,000	1 Meg.
200	1,200	6,000	20,000	100,000	1.5 Meg.
300	1,300	7,500	25,000	125,000	2 Meg.
400	1,400	8,000	30,000	150,000	3 Meg.
500	1,500	9,000	40,000	200,000	4 Meg.
600	2,000	10,000	45,000	250,000	5 Meg.

Note: 10 ohm and 25 ohm values not available in types 710 and 714.

● CENTRALAB CERAMIC CAPACITORS

Small special purpose capacitors for high frequency circuits and where temperature compensation, low power factor, or absolute permanence are important. Capacitors consist of a thin wall ceramic tube of special composition spacing two tubular condenser plates, one inside and one outside the ceramic. Remains permanent under all life and aging tests because the metal is actually electroplated on ceramic and no mechanical movement or warping that might change the distance between plates is possible.



General specifications include voltage rating 1000 volts D.C. with leakage resistance of more than 10,000 megohms. Power factor less than .1%. No capacity change after 100 hours at 90% humidity, the power factor continuing to measuring less than .1%. Standard capacitor tolerance is $\pm 2\frac{1}{2}\%$ (minimum tolerance below .000025 mfd is $\pm .5$ mmfd). Negative compensating capacitors have a uniform capacity change with temperature of .00074 mmf/mml c° and are particularly useful in balancing the positive temperature drift of most circuit components. For details write for special Centralab Bulletin. Below are listed available types and capacities.

● ZERO COEFFICIENT CAPACITORS

- Used where no change with temperature is desired.
 Type 813Z—Size 1/8" x 3/8" long. Standard capacities .000005, .00001, .000025, .00004, and .00005 mfd. Price \$0.60
 Type 810Z—Size 1/8" x 3/8" long. Standard capacities .000075, and .0001 mfd. Price .60
 Type 814Z—Size 1/4" x 1" long. Standard capacities .000125, .00015, .000175, and .002 mfd. Price .80
 Type 816Z—Size 1/4" x 1 1/4" long. Standard capacities .00025, .0003, and .00035 mfd. Price 1.00

● NEGATIVE TEMPERATURE COMPENSATING CAPACITORS

- Type 813N—Size 1/8" x 3/8" long. Standard capacities .00001, .00002, .000025, .00004, .00005, and .0001 mfd. Price \$0.60
 Type 810N—Size 1/8" x 3/8" long. Standard capacities .00015, .0002, and .00025 mfd. Price .60
 Type 814N—Size 1/4" x 1" long. Standard capacities .0003, .00035, .0004, and .00045 mfd. Price .80
 Type 816N—Size 1/4" x 1 1/4" long. Standard capacities .0005, .0006, .0007, and .0008 mfd. Price 1.00

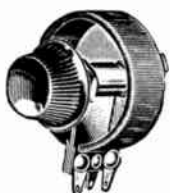
● AUTO RADIO NOISE SUPPRESSORS

The standard resistance is 10,000 ohms with the exception that the Ford special is furnished with a resistance of 20,000 ohms. Resistances of 5,000, 20,000 or 30,000 ohms are available at no extra charge in all types.

- Part No. 413—Screw on plug type. Will fit most popular cars Price \$0.30
 Part No. 304—Snap on plug type. Snaps on plug at any angle Price .30
 Part No. 409—Distributor type. Placed in series with center distributor cable Price .30
 Part No. 405—Bracket type. For older types of cars Price .30
 Part No. 338—Cable type. To be inserted in cable near spark plug Price .30

Centralab Power Rheostats

Work at High Temperatures Without Damage



25 Watt Rheostat
 Ideal for many commercial applications, such as small motor speed controls, charging rate adjusters, or soldering iron temperature regulators. Give maximum dissipation for size because of complete air circulation. All metal frame and core, insulated with treated asbestos. Practically indestructible. Made in three sizes, all two inches in diameter. Bushing 3/8" x 1/2" long. Shaft 1/4" x 1/2" long. Depth behind panel—25 watt, 3/4"; 50 watt, 1 1/4"; 75 watt, 1 3/4".
 All sizes furnished with Bakelite knob and panel insulating washers.

25 WATT RHEOSTATS

Part No.	Resistance, Ohms	Price
48-002	2	\$2.00
48-006	6	2.00
48-010	10	2.00
48-015	15	2.00
48-026	25	2.00
48-042	40	2.00
48-050	50	2.00
48-100	100	2.00
48-150	150	2.00
48-200	200	2.00
48-250	250	2.00
48-300	300	2.00
48-400	400	2.00
48-500	500	2.00
48-810	1000	2.00
48-815	1500	2.00
48-850	5000	2.00

50 WATT RHEOSTATS

Part No.	Resistance, Ohms	Price
48-003	2	\$2.50
48-025	25	2.50
48-060	60	2.50
48-151	150	2.50
48-201	200	2.50
40-301	300	2.50
48-501	500	2.50
48-811	1000	2.50
48-835	2500	2.50
48-851	5000	2.50

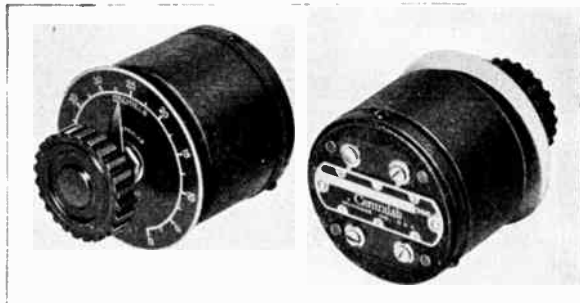
75 WATT RHEOSTATS

Part No.	Resistance, Ohms	Price
47-277	50	\$3.00
47-278	150	3.00
47-279	300	3.00
47-28G	500	3.00
47-281	1000	3.00

Centralab

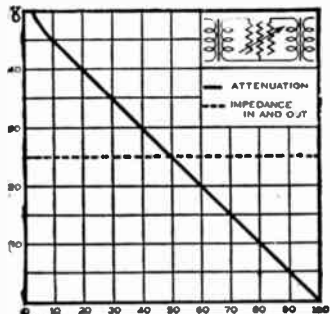
Quality Controls • Resistors • Selector Switches

SOUND PROJECTION CONTROLS FOR EVERY APPLICATION



● CENTRALAB SERIES II

Controls are the finest for input circuits in broadcast stations, public address systems, and recording apparatus of new or old design. Will prove faultless in the most critical service.



The curve chart shows the change in impedance and attenuation plotted against clockwise rotation for a "T" pad attenuator. The impedance characteristic (dotted line) is substantially the same at any setting. The attenuation curve (solid line) varies from infinity at zero rotation to zero Db. at full rotation. No insertion loss.

Electrostatic and electromagnetic shielding provided by a black finished steel case. Bakelite screw type terminal strip on back of case. All resistance elements insulated from shaft and bushing. Single hole mounting. Mounting bushing 3/4" long with 2 locknuts and lockwashers. Case diameter 2 3/4". Depth back of panel "T" Pad — 2 3/8"; Gain Control — 1 3/8". Maximum load dissipation 1 watt.

For detailed information, write for technical booklet.

	Line Impedance	Resistance	Resistance Each Side of Center	Part Number	Price*
"T" Pad Attenuator	500 Ohms	Constant Impedance to Both Input and Output		7-010-852	\$10.00
	200 Ohms			7-010-851	10.00
	50 Ohms			7-010-850	10.00
"T" Pad Fader	500 Ohms	Two Constant Impedance Legs on Both Sides		7-210-852	\$15.00
	200 Ohms			7-210-851	15.00
	50 Ohms			7-210-850	15.00
"L" Pad Attenuator	500 Ohms	Constant Impedance to One Side Only		4-010-852	\$ 5.00
	200 Ohms			4-010-851	5.00
	50 Ohms			4-010-850	5.00
Gain Control	Attenuation 50 Decibels for Each Control	250MOhms	_____	1-010-852	\$ 4.00
		500MOhms	_____	1-010-851	4.00
		1 Megohm	_____	1-010-850	4.00
Straight Fader	For Crystal or High Impedance Pickups	500,000	_____	1-210-852	\$ 5.00
		100,000	_____	1-210-851	5.00
		50,000	_____	1-210-850	5.00

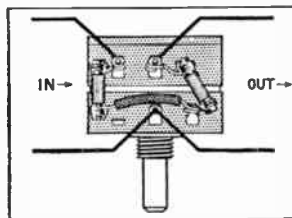
● KNOBS AND DIALS

All controls listed above are furnished with knobs and dials. When additional knobs and dials are required, order from list below:

K-112 Dial "T" and "L" Pad, Gain control.....	\$0.75
K-113 Dial "T" Pad Fader .....	.75
K-114 Knob All Series II Controls .....	.75

● ECONOMY P/A CONTROLS

These controls are intermediate to the Series II line and the older Series I types. As their name implies, they are economy controls, designed primarily for inexpensive sound equipment, where original cost is a limiting factor. They are designed for all types of fading and mixing systems.



All units have 3/8" diam. brass bushing, 3/8" long, 1/4" aluminum shaft 2 1/4" long — no mill. Two mounting nuts and lock-washers supplied on bushing. Small diameter bakelite case same dimensions as Standard Radiohm. Non-rubbing contact for smooth, quiet operation. Limited to input applications. Maximum

power rating for all units 1 watt.

Sketch illustrates connections to "Delta T" Pad. Resistance listed for these units is line impedance.

Catalog No.	Description	Resistance Ohms	Price Each
M-140	Gain Control	250M	\$1.75
M-141	Gain Control	500M	1.75
M-142	Gain Control	1 Meg.	1.75
M-143	Gain Control	2 Meg.	1.75
MT-144	Straight Fader	500M	2.00
MT-145	Straight Fader	1 Meg.	2.00
MX-146	"Delta-T" Pad	50	3.50
MX-147	"Delta-T" Pad	200	3.50
MX-148	"Delta-T" Pad	500	3.50

● KNOBS AND DIALS

K-120 Bar Knob, all controls	\$0.15
K-117 Dial, Gain Controls and Attenuators .....	.15
K-160 Dial, Faders .....	.15

● CENTRALAB SERIES I

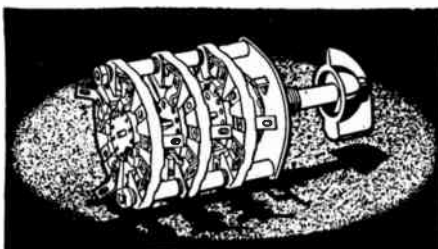
Constant impedance attenuators that are wire wound in the 10 watt or 50 watt "L" Pads, wire for the series and carbon for the shunt resistors in the 1 watt "T" Pad and C.I. Faders, also 4 watt "L" Pads. All carbon resistance in the 1 watt "L" Pad. Bakelite housing 3 1/2" x 1 3/4" deep single or 3 hole mounting for 10 watt "L" Pad, 1 watt "T" Pad, and C.I. Fader. 4 watt "L" Pad bakelite housing 2 1/4" x 7/8" deep. All furnished with insulating washers for bushings. One watt "L" Pad mounted in bakelite case 1 3/8" x 1-1/16" deep. Priced without knob or dial.

Impedance Matching Resistance	1 Watt "L" Pad Part No.	4 Watt "L" Pad Part No.	10 Watt "L" Pad Part No.	50 Watt "L" Pad Part No.	1 Watt "T" Pad Part No.	1 Watt C.I. Fader Part No.
10,000 Ohms	74-544	96-003	_____	_____	_____	_____
5,000 "	74-543	96-002	94-006	_____	93-008	83-006
1,500 "	_____	_____	_____	_____	93-001	83-002
500 "	_____	96-007	94-005	_____	93-002	83-003
200 "	_____	96-006	94-004	_____	93-003	83-004
100 "	_____	_____	94-003	_____	93-004	_____
50 "	_____	96-005	94-002	47-209	93-005	83-005
15 "	_____	96-001	94-001	47-208	93-006	_____
8 "	_____	_____	94-007	47-930	_____	_____

OVER 350 SPECIAL REPLACEMENT CONTROLS ARE LISTED IN THE CENTRALAB VOLUME CONTROL GUIDE

ASSEMBLED SELECTOR SWITCHES

Centralab switches employ a double jawed "biting" contact clip that maintains noiseless contact after standing for months in humidity or corrosive atmosphere as well as on original life test. Switch sections are available with Bakelite or Isolantite insulation. Bakelite is commonly used, but Isolantite is recommended for all



high frequency applications because of its low power factor.

Switches have single hole mounting on 3/8" diameter bushing. Aluminum shaft 2 1/4" long from mounting surface. Adjustable stop index permits choice of from two to eleven positions. Each switch complete with bar knob.

WITH BAKELITE INSULATION						WITH ISOLANTITE INSULATION				
Part Number		Description			Price	Part No.	Gangs	Poles	Positions	Price Each
Shorting	Non-Shorting	Gangs	Poles	Positions	Each					
1400	1401	1	1	2 to 6	\$1.00	2501	1	1	2 to 6	\$1.70
1402	1403	1	1	2 to 11	1.15	2503	1	1	2 to 11	1.70
1404	1405	1	2	2 to 5	1.25	2505	1	2	2 to 5	1.70
1406	1407	1	3	2 to 3	1.35	2507	1	3	2 to 3	1.70
1408	1409	1	4	2	1.45	2511	2	2	2 to 6	2.70
1410	1411	2	2	2 to 6	1.60	2513	2	2	2 to 11	2.70
1412	1413	2	2	2 to 11	1.75	2515	2	4	2 to 5	2.70
1414	1415	2	4	2 to 5	2.00	2517	2	6	2 to 3	2.70
1416	1417	2	6	2 to 3	2.10	2521	3	3	2 to 6	3.90
1418	1419	2	8	2	2.25	2523	3	3	2 to 11	3.90
1420	1421	3	3	2 to 6	2.20	2525	3	6	2 to 5	3.90
1422	1423	3	3	2 to 11	2.35					
1424	1425	3	6	2 to 5	2.50					
1426	1427	4	4	2 to 6	2.75					
1428	1429	4	4	2 to 11	3.00					
1430	1431	4	8	2 to 5	3.50					

Any bakelite or Isolantite selector switch can be assembled from SWITCHKIT PARTS. See page P-3 for complete list of parts to assemble these and similar switches.

TRANSMITTER SWITCHES FOR AMATEURS

Isolantite sections with four positions, 90 degrees apart for greater spacing between contacts. Adjustable stop will limit rotation to 2 or 3 positions if required. Contact will operate in transmitters rated up to 100 watts and at potentials up to 1000 volts D.C. One pole per section in all types, 1/2" spacing between sections. 2 1/4" aluminum shaft can be easily cut to length required. Attractive bar knob included with each switch.

Cat. No.	Poles	Positions	Sections	List Price
2542	1	2 to 4	1	\$1.70
2543	2	2 to 4	2	2.70
2544	3	2 to 4	3	3.90
2545	4	2 to 4	4	4.90
2546	5	2 to 4	5	6.10

Dial Plate . . . Special, numbered 1 - 4 to agree with 90 degree index on switches listed above.

Cat. No. K-162. Price each \$0.20

UNIVERSAL FLAT SWITCH



A compact inexpensive switch for many circuit applications. May be used as single pole single throw, single pole double throw, double pole single throw, double pole double throw, three pole single throw, three pole double throw, four pole single throw, four pole double throw. Non-shorting teeth. Flat construction requires only 5/8" overall back of mounting surface. Supplied with aluminum shaft 2 1/4" overall. Standard bar knob included.

Catalog No. 1450

Price \$0.75

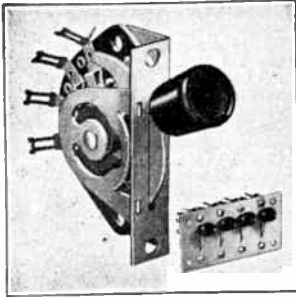
STONE SWITCHES

Catalog No. 1460—S.P.D.T. Price \$0.50
 Catalog No. 1461—Single Pole, Three Pos. .60
 Catalog No. 1462—D.P.D.T. .60
 Catalog No. 1465—Like 1461 plus snap switch 1.00

Centralab

Quality Controls • Resistors • Selector Switches

LOW CAPACITY LEVER ACTION SWITCHES



Used singly or in groups, these space saving switches are particularly adapted to broadcasting, receiving, public address, test instruments and industrial use. Available in ten different combinations including positive and spring return action with either shorting or non-shorting contacts. Use the shorting type contact for circuit switching where contacting the new circuit before breaking the old circuit will avoid noise. Further uses for this type of switch can be found in any application where multiple con-

tact low capacity switches are required to operate at low voltage and current. Dimensions of single switch are 3/8" width x 1 1/8" height x 1 1/2" depth behind panel. Below are listed the various types, all furnished with black knob and nuts and bolts for panel mounting.

Price, All Types — \$1.00

Contacts		Description		Type of Index
Shorting	Non-Shorting	Poles	Positions	
1452	1454	2	3	Positive
1453	1455	2	3	Spring Return
1456	1457	4	2	Spring Return
1459	1458	4	2	Positive
1466	1467	2	3	Positive and Spring Return

LEVER ACTION SWITCHES WITH SNAP SWITCH

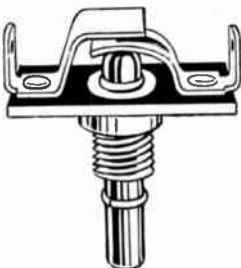
Similar in size and construction to the switches listed above, the two switches noted below differ in that the switch action consists of an underwriter approved snap switch either S.P.S.T. or D.P.S.T. Rated 1 amp. at 250 volts or 3 amp. at 125 volts. Can be mounted singly or in groups when used with mounting plates listed below.

Catalog No. 1468—S.P.S.T. Price \$0.60
 Catalog No. 1469—D.P.S.T. Price .75

MOUNTING PLATES

Part No.	No. of Switches	Mounting Holes	Price
P1755	1	Vertical	\$0.20
P1756	2	Vertical	.30
P1757	3	Vertical	.35
P1758	4	Vertical	.45
P1759	5	Vertical	.50
P1760	2	Horizontal	.30
P1761	3	Horizontal	.40
P1762	4	Horizontal	.50
P1763	5	Horizontal	.55

MOMENTARY PUSH SWITCHES



Centralab momentary open circuit switches may be used for many light duty applications such as meter insertion, record rejection or selection, test equipment, call bell, buzzer or annunciator systems, solenoid door check release, miniature lamp signals, small motor uses, and simple on-off switch. Rated 1 amp. at 110V A.C., contacts are phosphor bronze silver plated. Designed for panel mounting. Insulated 3/8" bushing, 3/8" long. Push button protrudes 3/8" from end of bushing.

Catalog No. 1470—Momentary opened Price \$0.50
 Catalog No. 1471—Momentary closed Price \$.50

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23 POSITION SELECTOR SWITCH

For test instruments and laboratory use. One common terminal contact twenty-three clips mounted on one section. Double wiping low capacity contact insures long life. Contact resistance averages .002 ohms. Furnished with shorting type contact only. Non-shorting contact cannot be supplied. 1/4" aluminum shaft 2 1/4" long can easily be cut to required length. 3/8" brass bushing. Bar knob furnished with each switch. Switch cannot be supplied with adjustable stop.



Catalog No. 1443 Price \$2.50
 Dial Plate numbered 1, 2, 3 for above switch.
 Catalog No. K-173 Price .20

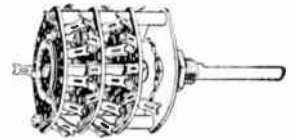
SPRING RETURN SWITCHES

Replacements for intercommunicator talk-back switches. All are two positions. Shaft returns to original position when knob is released. Rotation against spring in clockwise position. Normal position is counter-clockwise. All have long shaft that can be cut to length.

Catalog Number Description Price
 Cat. No. 1463—1 Pole 2 Position \$0.65
 Cat. No. 1464—2 Pole 2 Position .75
 Cat. No. 1451—4 Pole 2 Position 1.00

METER INSERTION SWITCH

Twelve positions continuous rotation. Inserts millimeter in any one of twelve different circuits, keeping remaining eleven circuits closed. Aluminum shaft 2 1/4" long. 3/8" brass bushing. Bar knob included with each switch. Complete wiring instructions included.



Catalog No. 1442 Price \$4.50

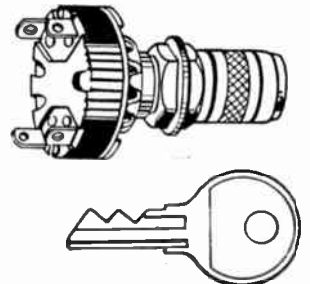
ROTARY LINE AND TONE SWITCH

A compact and sturdy rotary type switch in a molded bakelite case, underwriters approved. Available in three types listed below, all furnished with long steel shaft milled for push-on knob.

No. 1447	SPST	Price \$0.50
No. 1448	DPST	.60
No. 1449	Tone Type	.60

KEY OPERATED SWITCH

Prevents unauthorized use or adjustment of equipment. Only key of proper shape will operate switch. Key furnished with each switch. Numerous uses include coin phonographs, electronic eye apparatus, power, timer or test recording equipment, electric door opener, temperature and humidity control regulators, laboratory setups, etc. Available in D.P.S.T. which can also be used as S.P.S.T. Rating of either switch 1 amp. at 250 volts A.C., 3 amp. at 125 volts A.C., or 15 amp. at 12 volts.



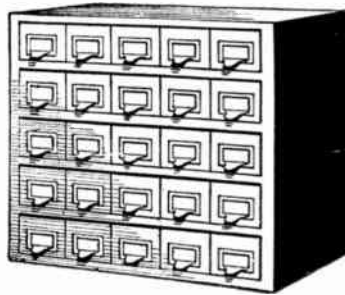
Catalog No. 1472—S.P.S.T. or D.P.S.T. Price \$1.00

Centralab

Quality Controls • Resistors • Selector Switches

THE CENTRALAB SWITCHKIT PROVIDES COUNTLESS SWITCH ASSEMBLIES

THE demand for selector switches includes so many different types that it is virtually impossible to maintain a complete stock of assembled switches. Selector switches are usually assembled with standard sections. The difficulty arises from the number of different ways that a small group of sections can be put together. To simplify stocking selector switches, Centralab has two switchkit assortments of sections, hardware, and accessories available. One of these includes bakelite sections and hardware; the other Iso-



lantite sections and hardware. The parts included in each are tabulated below.

Each switchkit assortment is packed in an attractive sturdy steel cabinet identified with a Centralab decalcomania. Drawer pulls include identification

cards to show location of parts.

Cabinet contains 25 drawers, 3" x 2 1/2" x 8" inside. Cabinet 19" wide, 17 3/4" high, 9 1/4" deep overall. Finished in neutral green lacquer. Cabinet supplied FREE with either assortment listed below. Shipped F.O.B. Milwaukee, Wisconsin.

No. 414 KIT -- includes assortment of bakelite sections, index assemblies and accessories listed below. Price \$100.00.

No. 419 KIT -- includes assortment of Isolantite sections, index assemblies and accessories listed below. Price \$100.00

PARTS INCLUDED IN BAKELITE SWITCHKIT

SECTIONS WITH BAKELITE INSULATION

Quantity	Catalog Number	Poles	Positions	Contact	Price Each
12	A	1	6	Shorting	\$.40
17	B	1	11	Shorting	.55
4	C	2	5	Shorting	.65
4	D	3	3	Shorting	.75
4	F	4	2	Shorting	.85
4	F*	1	5	Shorting	.60
4	G**	1	17	Shorting	.75
12	H	1	6	N. S.	.40
17	J	1	11	N. S.	.55
4	K	2	5	N. S.	.65
4	I	3	3	N. S.	.75
4	M	4	2	N. S.	.85
3	N	Use Together in			.50
3	P	Resistance Decade			.50
3	Q	Condenser Decade			.60
5	R***	2	5	Shorting	1.00
4	S***	3	3	Shorting	1.00

*Unused contacts shorted out on one side of common.

**All unused contacts shorted out.

***Isolantite Insulation.

INDEX ASSEMBLIES — COMPLETE WITH HARDWARE

Quantity	Catalog Number	Description	Price Each
20	K-121	To assemble 1 or 2 gang switches	\$.55
10	K-122	To assemble 3 or 4 gang switches	.75
5	K-123	To assemble 5 or 6 gang switches	.95

DIAL PLATES AND KNOBS

Quantity	Catalog Number	Description	Price Each
25	K-120	Bar Knob	\$.15
10	K-119	Arrow Knob	.15
10	K-115	Dial Plate: 1-5	.15
10	K-116	Dial Plate: 1-6	.15
10	K-117	Dial Plate: 1-10	.15
10	K-118	Dial Plate: 1-11	.15

PARTS INCLUDED IN ISOLANTITE SWITCHKIT

SECTIONS WITH ISOLANTITE INSULATION

Quantity	Catalog Number	Poles	Positions	Contact	Price Each
5	T	1	6	Shorting	\$1.00
10	U	1	11	Shorting	1.00
4	R	2	5	Shorting	1.00
4	S	3	3	Shorting	1.00
4	V	4	2	Shorting	1.00
4	X	1	6	N. S.	1.00
4	Y	1	11	N. S.	1.00
4	RH	2	5	N. S.	1.00
4	SS	3	3	N. S.	1.00
4	Z	4	2	N. S.	1.00
6	GC*	1	10	Shorting	1.00
15	XX**	1	4	N. S.	1.00

*All unused contacts shorted out.

**90 Degrees between positions—for transmitter switches.

INDEX ASSEMBLIES — COMPLETE WITH HARDWARE

Quantity	Catalog Number	Description	Price Each
10	K-121	For 1 or 2 Gang Selector Sw.	\$.55
10	K-170	For 1 or 2 Gang Trans. Sw.	.55
5	K-122	For 3 or 4 Gang Selector Sw.	.75
5	K-171	For 3 or 4 Gang Trans. Sw.	.75
3	K-123	For 5 or 6 Gang Selector Sw.	.95
3	K-172	For 5 or 6 Gang Trans. Sw.	.95

DIAL PLATES AND KNOBS

Quantity	Catalog Number	Description	Price Each
25	K-120	Bar Knob	\$.15
10	K-119	Bar Knob	.15
5	K-115	Dial Plate: 1-5	.15
10	K-117	Dial Plate: 1-10	.15
5	K-118	Dial Plate: 1-11	.15
12	K-162	1-4 Dial: 90 degree Index	.20

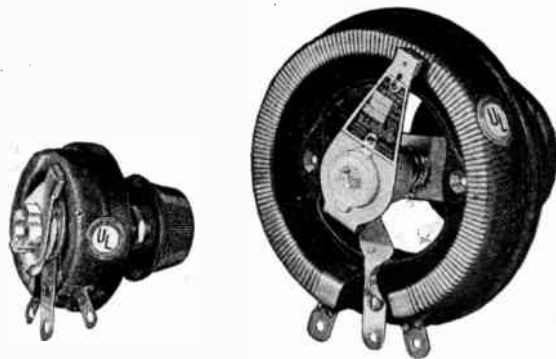
BE RIGHT WITH OHMITE

RHEOSTATS
RESISTORS
SWITCHES
CHOKES

OHMITE RHEOSTATS

All-Porcelain—Vitreous-Enameled

The design and construction of these sturdy, compact Ohmite Rheostats insure permanently smooth, gradual, close control. The wire is wound over a porcelain core, bonded to porcelain base, and permanently locked in place by special Ohmite Vitreous Enamel. Nothing to smoke, char, shrink, or shift. Dissipates heat rapidly. Insulated shafts and bushings. Copper graphite contacts. Ratings are for "free air" use. Time-proved through long trouble-free service in countless installations the world over. Underwriters' Laboratories Listed.



MODEL "H" 25 Watt

Diameter 1 1/8". Depth behind panel 1 1/8"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0140	1	5,000	\$4.50	0152	125	445	\$4.00
0141	2	3,450	4.00	0153	175	375	4.00
0142	3	2,880	4.00	0154	250	315	4.00
0143	6	2,040	4.00	0155	350	267	4.00
0144	8	1,770	4.00	0156	500	222	4.00
0145	10	1,580	4.00	0157	750	173	4.00
0146	15	1,290	4.00	0158	1,000	155	4.50
0147	25	1,000	4.00	0159	1,500	129	4.50
0148	35	845	4.00	0160	2,500	100	4.50
0149	50	709	4.00	0161	3,500	84	4.75
0150	75	575	4.00	0162	5,000	70	4.75
0151	100	500	4.00				

MODEL "J" 50 Watt

Diameter 2 1/8". Depth behind panel 1 3/8"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0308	0.5	10,000	\$5.00	0321	150	575	\$4.50
0309	1	7,070	5.00	0322	225	470	4.50
0310	2	5,000	5.00	0323	300	405	4.50
0311	4	3,500	4.50	0324	500	315	4.50
0312	6	2,880	4.50	0325	800	250	4.75
0313	8	2,500	4.50	0326	1,000	220	4.75
0314	12	2,040	4.50	0327	1,600	176	4.75
0315	16	1,760	4.50	0328	2,500	140	4.75
0316	22	1,500	4.50	0329	3,500	119	5.00
0317	35	1,190	4.50	0330	5,000	100	5.00
0318	50	1,000	4.50	0331	8,000	79	5.00
0319	80	790	4.50	0332	10,000	70	5.00
0320	125	630	4.50				



OHMITE SPECIAL RHEOSTATS for Soldering Iron Control

Adjusts heat of the soldering iron or melting pot for best work and economical operation.

Wattage of Soldering Iron or Pot to be Controlled	Volts	Rheostat Control Stock No.	Cage Dimensions Diam. Hgt.	List Price Each
40-65	115	SRC65	3 1/2" 2"	\$ 7.25
85-100	115	SRC100	3 1/2" 2"	7.25
120-150	115	SRC150	3 3/4" 2 3/8"	9.15
175-220	115	SRC220	3 3/4" 2 3/8"	10.00
300-350	115	SRC350	4 1/2" 2 3/8"	11.70
430-500	115	SRC500	7 1/2" 3 1/4"	17.00

MODEL "K" 100 Watt

Diameter 3 1/8". Depth behind panel 1 3/8"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0440	0.5	12,500	\$7.50	0452	200	707	\$7.00
0441	1	10,000	7.50	0453	300	575	7.00
0442	2	7,070	7.50	0454	400	500	7.00
0443	3	5,750	7.50	0455	500	445	7.00
0444	5	4,450	7.50	0456	750	365	7.00
0445	7.5	3,650	7.00	0457	1,000	315	7.50
0446	10	3,150	7.00	0458	1,500	258	7.50
0447	16	2,500	7.00	0459	2,000	224	7.50
0448	25	2,000	7.00	0460	2,500	200	7.50
0449	50	1,420	7.00	0461	5,000	141	8.00
0450	75	1,150	7.00	0462	7,500	115	8.50
0451	100	1,000	7.00	0463	10,000	100	9.00

MODEL "L" 150 Watt

Diameter 4". Depth behind panel 1 3/4"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0524	0.5	15,000	\$9.50	0537	150	1,000	\$9.00
0525	1	12,500	9.50	0538	200	865	9.00
0526	2	8,650	9.50	0539	250	775	9.00
0527	3	7,070	9.50	0540	350	655	9.00
0528	5	5,480	9.50	0541	500	548	9.00
0529	7.5	4,470	9.50	0542	750	447	9.50
0530	10	3,880	9.00	0543	1,250	346	9.50
0531	15	3,163	9.00	0544	1,800	288	10.00
0532	25	2,450	9.00	0545	2,250	259	10.00
0533	35	2,070	9.00	0546	3,000	224	10.00
0534	50	1,735	9.00	0547	4,500	182	10.50
0535	75	1,415	9.00	0548	7,500	141	11.50
0536	100	1,225	9.00	0549	10,000	122	12.00

MODEL "N" 300 Watt

Diameter 6". Depth behind panel 2 1/8"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0650	1	17,250	\$13.50	0661	100	1,730	\$13.50
0651	2	12,240	13.50	0662	150	1,410	13.50
0652	3	10,000	13.50	0663	200	1,220	13.50
0653	4	8,660	13.50	0664	300	1,000	13.50
0654	5	7,750	13.50	0665	400	866	13.50
0655	7.5	6,320	13.50	0666	700	655	13.50
0656	10	5,480	13.50	0667	900	578	13.50
0657	15	4,470	13.50	0668	1,200	500	13.50
0658	25	3,460	13.50	0669	1,500	449	13.50
0659	50	2,450	13.50	0670	1,750	414	13.50
0660	75	2,000	13.50	0671	2,500	346	13.50

OTHER OHMITE RHEOSTATS

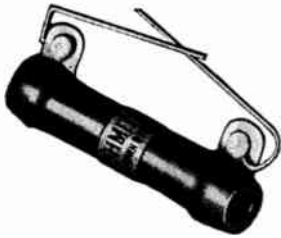
Ohmite Rheostats are also available in Model G, 75 Watt; Model P, 225 Watt; Model R, 500 Watt; and Model U, 1,000 Watt units, in many resistance values. Special Rheostats with tapered windings, etc., can be supplied; also Special Rheostats for Model Train Control. Cages and other accessories also available.

For more complete information on OHMITE PRODUCTS, ask for Ohmite Catalog 17.

BE RIGHT WITH OHMITE

RHEOSTATS
RESISTORS
SWITCHES
CHOKES

Popular OHMITE "BROWN DEVIL" RESISTORS



High quality, small size, wire wound resistors ideal for voltage dropping, bias units, bleeders, etc. They're extra-sturdy, all-porcelain, vitreous enameled. They give time-proved protection against shock, vibration, heat and humidity. Their long record of continuous trouble-free service—their wide use in all climates of the world—prove their complete reliability and economy. All units have 1½" tinned wire leads.

OHMITE "WIREWATT"



1 Watt wire-wound Resistor

Wire-wound on porcelain and insulated with low temperature enamel. Ends of the wire are mechanically locked and then brazed to terminal lugs to insure freedom from noise. 1½" tinned wire leads. RMA color coded, and labeled with the resistance. Size 1¾"x¼".

Ohms	Mils.	Volts	Ohms	Mils.	Volts
100	100	10	2,250	21	46
125	89	11	2,500	20	50
150	81	12	3,000	18	54
200	70	14	3,500	16	56
250	63	15	4,000	15	60
300	57	17	4,500	14	63
350	53	18	5,000	14	70
400	50	20	6,000	12	72
500	44	22	7,000	11	77
600	40	24	7,500	11	82
700	37	26	8,000	11	88
750	36	27	9,000	10	90
800	35	28	10,000	10	100
900	33	29	12,500	9	110
1,000	31	31	15,000	8	120
1,100	30	33	16,000	7	112
1,200	28	33	17,500	7	122
1,250	28	35	18,000	7	126
1,500	25	37	20,000	7	140
1,750	23	40	22,500	6	135
2,000	22	44	25,000	6	150

List Price\$0.25



OHMITE "CORDOHM"

Line Cord Resistors

Replaces internal voltage dropping resistors in AC-DC radio sets. A resistance element is incorporated in the line cord.

Stock No.	Voltage Drop	Ohms
C-350	12.0 to 17.0	350
C-330	18.0 to 24.0	330
C-290	25.0 to 31.5	290
C-250	31.0 to 44.5	250
C-220	45.0 to 62.0	220
C-180	53.0 to 61.0	180
C-160	62.0 to 68.9	160
C-135	69.0 to 75.2	135

List Price, any above value\$0.75

C-165-P	For 5 tube sets (3 x 6.3 + 165-Tap 2 x 25) 0.15 A. pilot lamp..	at 22.5
C-187-P	For 4 tube sets (2 x 6.3 + 187.5-Tap 2 x 25) 0.15A. pilot lamp..	at 22.5
C-190-P	For 4 tube sets (2 x 6.3 + 190-Tap 2 x 25) 0.25A. pilot lamp..	at 40

List Price, any above value\$1.00

X-320 Line Drop Cord, 220 Volts to 110 Volts at 0.36 Amps. 320 Ohms—\$1.50

10 Watt—1¾"x¾"						20 Watt—2"x½"					
Ohms	Mils.	Ohms	Mils.	Ohms	Mils.	Ohms	Mils.	Ohms	Mils.	Ohms	Mils.
1	3,150	350	169	6,000	36	5	2,000	700	169	2,750	85
2	2,230	400	158	7,000	33	10	1,415	750	163	3,000	81
3	1,825	450	149	7,500	32	25	895	800	158	3,500	75
4	1,580	500	141	8,000	31	50	633	850	153	4,000	70
5	1,415	600	129	8,500	30	75	517	1,000	141	4,500	66
7.5	1,155	700	119	10,000	24	100	448	1,200	129	5,000	63
10	1,000	750	115	11,000	22	150	365	1,250	126	6,000	57
12	910	800	111	12,000	20	200	316	1,500	115	7,000	53
15	815	900	105	12,500	20	250	283	1,750	107	7,500	51
20	707	1,000	100	13,500	19	300	258	1,850	104	8,000	50
25	630	1,100	95	14,300	18	350	239	2,000	100	10,000	43
30	575	1,200	91	15,000	18	400	223	2,250	94	12,500	39
35	535	1,250	89	16,000	17	500	200	2,400	91	15,000	33
40	500	1,500	79	17,500	17	650	175	2,500	89		
50	447	1,750	74	18,000	16						
75	365	2,000	69	20,000	15						
100	315	2,250	64	22,500	15						
125	283	2,500	61	25,000	14						
150	258	3,000	56	*30,000	8						
200	223	3,500	51	*35,000	7						
225	217	4,000	47	*40,000	7						
250	200	4,500	44	*45,000	6						
300	182	5,000	40	*50,000	6						

List Price, any 10 watt unit above \$0.40

List Price, any 20 watt unit above \$1.00

*The units marked with an asterisk are coated with a low temperature enamel.

OHMITE CENTER-TAPPED RESISTORS

Compact, Accurate, Convenient



"Wirewatt" and "Brown Devil" center-tapped resistors especially designed for use across radio transmitter tube filaments to provide an electrical center for the grid and plate returns. Should be connected as closely as possible to the tube socket. Center tap accurate to plus or minus 1%.

"WIREWATT" 1 Watt				"BROWN DEVIL" 10 Watt			
Res. Ohms	For Heater or Filament Voltage up to	Max. Volts	List Price	Res. Ohms	For Heater or Filament Voltage up to	Max. Volts	List Price
10	2.5	3.15	\$0.35	10	6.3	10.0	\$0.50
15	2.5	3.85	.35	15	6.3	12.5	.50
*20	2.5	4.4	.35	*20	7.5	14.0	.50
25	2.5	5.0	.35	25	7.5	15.5	.50
30	2.5	5.3	.35	30	7.5	17.2	.50
40	2.5	6.3	.35	40	10.0	20.0	.50
*50	5.0	7.0	.35	*50	10.0	22.3	.50
75	5.0	8.5	.35	75	10.0	27.3	.50
*100	6.3	10.0	.35	*100	12.0	31.5	.50
200	6.3	14.0	.35	200	12.0	44.5	.50

*Shows most popular sizes.

For more complete information on OHMITE PRODUCTS, ask for Ohmite Catalog 17.

BE RIGHT WITH OHMITE

RHEOSTATS
RESISTORS
SWITCHES
CHOKES

OHMITE DIVIDOHM RESISTORS



All-Porcelain
Vitreous-Enameled

OHMITE FIXED RESISTORS



You can adjust the resistance or secure odd resistance values quickly with these Dividohms; easily put on more taps where needed. Ideal voltage dividers. With one adjustable lug and with mounting brackets.

Extra-sturdy, wire-wound, all-porcelain resistors with the permanent protection of Ohmite Vitreous Enamel. Widely used for heavy duty applications to assure continuous trouble-free service. With mounting brackets.

10 WATTS

Size 1 3/4"x3 3/8" Mounting Centers 2 1/4"

Adjustable Res.			Adjustable Res.		
Res. Ohms	Max. Mils.	Stock No.	Res. Ohms	Max. Mils.	Stock No.
1	3.150	1001	750	115	1021
2	2.230	1002	800	111	1022
3	1.825	1003	1,000	100	1023
5	1.415	1004	1,250	89	1024
7.5	1.155	1005	1,500	79	1025
10	1.000	1006	2,000	69	1026
15	815	1007	2,250	64	1027
20	707	1008	2,500	61	1028
25	630	1009	3,000	56	1029
50	447	1010	3,500	51	1030
75	365	1011	4,000	47	1031
100	315	1012	4,500	44	1032
150	258	1013	5,000	40	1033
200	223	1014	6,000	36	1034
250	200	1015	7,000	33	1035
300	182	1016	7,500	32	1036
350	169	1017	8,000	31	1037
400	158	1018	8,500	30	1038
500	141	1019	9,000	26	1039
600	129	1020	10,000	24	1040

List Price, any above unit..... \$0.60

75 WATTS

Size 6"x1 1/2" Mounting Centers 6 3/4"

Adjustable Res.			Adjustable Res.		
Res. Ohms	Max. Mils.	Stock No.	Res. Ohms	Max. Mils.	Stock No.
5	3,870	0769	5,000	122	0783
10	2,730	0770	6,000	112	0783B
15	2,230	0771	7,000	103	0783C
25	1,730	0772	7,500	100	0784
50	1,220	0773	8,000	98	0784B
100	865	0774	9,000	92	0784C
200	612	0774B	10,000	86	0785
250	545	0775	12,000	79	0785B
300	500	0775B	15,000	70	0786
400	424	0775C	20,000	61	0787
500	387	0776	25,000	52	0788
750	316	0777	30,000	47	0789
1,000	274	0778	35,000	38	0790
1,250	245	0778B	40,000	36	0791
1,500	223	0779	45,000	28	0792
2,000	193	0780	50,000	26	0793
2,500	173	0781	60,000	19	0794
3,000	158	0781B	80,000	17	0795
3,500	146	0782	100,000	13	0796
4,000	137	0782B			

List Price, 5 to 5,000 ohms.....\$1.75
List Price, 6,000 to 25,000 ohms..... 2.00
List Price, 30,000 to 50,000 ohms..... 2.25
List Price, 60,000 to 100,000 ohms..... 2.50

160 Watt Resistors — Size 8 1/2"x1 1/4", Mounting Centers 9 3/8" — available in same resistances as the 200 Watt Resistors.

Ohms	Fixed Res. List Price	Adj. Res. List Price
5 to 10,000	\$2.00	\$2.50
15,000 to 50,000	2.40	2.90
60,000 to 100,000	2.70	3.25

ADJUSTABLE LUGS

Bakelite Knob			Screw Driver Type		
Res. Dia.	Stock No.	List Price	Res. Dia.	Stock No.	List Price
1 1/4"	0359	\$0.15	3/8"	1058	\$0.10
7/8"	1959	.25	1/2"	0358	.10
1 1/4"	2159	.25	7/8"	1958	.15
			1 1/4"	2158	.15

25 WATTS

Size 2"x1 1/2" Mounting Centers 2 3/4"

Fixed Resist.		Adj. Resist.	
Res. Ohms	Max. Mils.	Stock No.	List Price
1	5,000	0360	\$0.85
2	3,540	0360B	.85
3	2,890	0361	.85
5	2,240	0200A	\$0.75
7.5	1,890	0362	.85
10	1,580	0200B	.75
15	1,290	0362B	.85
20	1,140	0363	.85
25	1,000	0200C	.75
50	707	0200D	.75
75	577	0200E	.75
100	500	0200F	.75
150	410	0200G	.75
200	354	0200H	.75
250	316	0201	.75
300	289	0371B	.85
400	250	0371C	.85
500	224	0202	.75
750	182	0203	.75
800	177	0204	.75
1,000	158	0205	.75
1,250	141	0375B	.85
1,500	129	0206	.75
2,000	112	0207	.75
2,250	105	0377B	.85
2,500	100	0208	.75
3,000	91	0209	.75
3,500	84	0210	.75
4,000	79	0211	.75
4,500	74	0381B	.85
5,000	70	0212	.75
6,000	64	0213	.85
7,000	60	0383B	.95
7,200	59	0383C	.95
7,500	57	0214	.85
8,000	56	0384B	.95
9,000	53	0384C	.95
10,000	50	0215	.85
12,000	44	0216	.85
15,000	34	0217	.85
20,000	26	0218	1.00
25,000	23	0219	1.00
40,000	14	0222	1.00
50,000	12	0224	1.00
100,000	7	0229	1.75

100 WATTS

Size 6 1/2"x7/8" Mounting Centers 7 1/4"

Fixed Resist.		Adj. Resist.	
Res. Ohms	Max. Mils.	Stock No.	List Price
5	4,470	0600A	\$1.50
10	3,160	0600B	1.50
25	2,000	0601	1.50
50	1,414	0602	1.50
75	1,155	0603	1.50
100	1,000	0604	1.50
150	815	0605	1.50
250	632	0606	1.50
500	447	0607	1.50
750	365	0608	1.50
1,000	316	0609	1.50
1,500	258	0610	1.50
2,000	223	0611	1.50
2,500	200	0612	1.50
3,000	182	0613	1.50
5,000	141	0614	1.50
7,500	115	0615	1.75
10,000	100	0616	1.75
15,000	81	0617	1.75
20,000	70	0618	1.75
25,000	56	0619	1.75
30,000	51	0620	2.00
40,000	38	0621	2.00
50,000	28	0622	2.00
60,000	22	0623	2.25
75,000	16	0624	2.25
100,000	14	0625	2.50

50 WATTS

Size 4"x1 1/2" Mounting Centers 4 3/4"

Fixed Resist.		Adj. Resist.	
Res. Ohms	Max. Mils.	Stock No.	List Price
5	3,160	0400A	\$1.10
10	2,240	0400B	1.10
25	1,420	0400C	1.10
50	1,000	0400D	1.10
75	815	0400E	1.10
100	707	0400F	1.10
150	577	0400G	1.10
200	500	0400H	1.10
250	447	0401	1.10
300	408		0568B
400	354		0568C
500	316	0402	1.10
750	258	0403	1.10
1,000	224	0405	1.10
1,250	200		0572B
1,500	183	0406	1.10
2,000	158	0407	1.10
2,500	142	0408	1.10
3,000	129	0409	1.10
3,500	120		0576B
4,000	112	0410	1.10
4,500	105		0577B
5,000	100	0411	1.10
6,000	91		0578B
7,000	84		0578C
7,500	81	0412	1.25
8,000	79	0413	1.25
9,000	74		0580B
10,000	70	0414	1.25
12,000	64	0415	1.25
15,000	57	0416	1.25
20,000	48	0417	1.25
25,000	43	0418	1.25
30,000	41		0586
35,000	33	0419	1.45
40,000	35		0587
50,000	25	0420	1.45
60,000	20		0589
75,000	16	0421	1.45
80,000	15		0590
100,000	12	0422	1.45

200 WATTS

Size 10 1/2"x1 1/4" Mounting Centers 11 3/8"

Fixed Resist.		Adj. Resist.	
Res. Ohms	Max. Mils.	Stock No.	List Price
5	6,310	0900A	\$2.50
10	4,470	0900B	2.50
25	2,830	0901	2.50
50	2,000	0902	2.50
75	1,635	0903	2.50
100	1,414	0904	2.50
150	1,150	0905	2.50
250	894	0906	2.50
500	632	0907	2.50
750	515	0908	2.50
1,000	447	0909	2.50
1,500	364	0910	2.50
2,000	316	0911	2.50
2,500	283	0912	2.50
3,000	258	0913	2.50
5,000	200	0914	2.50
7,500	163	0915	2.50
10,000	141	0916	2.50
15,000	115	0917	3.00
20,000	100	0918	3.00
25,000	89	0919	3.00
30,000	81	0920	3.00
40,000	63	0921	3.00
50,000	49	0922	3.00
60,000	40	0923	3.00
75,000	30	0924	3.00
100,000	20	0925	3.00

For more complete information on OHMITE PRODUCTS, ask for Ohmite Catalog 17.

BE RIGHT WITH OHMITE

RHEOSTATS
RESISTORS
SWITCHES
CHOKES

OHMITE DUMMY ANTENNA

To Check R.F. Power and Tune Up to Peak Efficiency



For the first time, a compact, high-wattage resistor suitable for high radio-frequency measurements. Non-inductive, non-capacitive, constant in resistance. Provides a simple, accurate, direct means of measuring R. F. power in all transmitter stages for the purpose of tuning up to maximum efficiency. Used to determine transmission line losses—to check line to antenna impedance match—to keep signal off the air while tuning up—to eliminate unnecessary interference—and generally useful as a non-inductive resistor in other R. F. Circuits.

Space-wound resistance element of unusual design, mounted in a glass bulb, evacuated and gas filled. Four-prong steatite standard tube base. Several units can be connected in various ways for higher wattages.

Model D-100. 100 Watt rating. In popular 73 ohm and 600 ohm resistance values. Also in 13, 18, 34, 64, 100, 146, 219, 300, 400, 500 ohm values. Diameter 3 1/8". Height (from bottom of base) 4 3/8".

List Price.....\$5.50
Model D-250. 250 Watt rating. In 73 ohm and 600 ohm stock resistances. Diameter of bulb 2 1/2". Height 9" (from bottom of base).

List Price.....\$11.00

Non-Inductive Vitreous-Enamelled Resistors also available. See Ohmite Catalog 17.



RITEOHM "81"

Precision Resistors

High quality, 1% accurate, 1 watt, non-inductive, pie-wound Precision Resistors for voltmeter multipliers, laboratory equipment, radio and electrical test sets, attenuation pads, etc. Special Ohmite vacuum-type impregnation provides complete protection. Size 9/16" x 1 3/4". Equipped with soldering lugs and threaded stud terminals.

Available in many stock resistance values from 0.1 ohm to 2 megohms. For complete listing, see Ohmite Catalog 17. (Also available in closer tolerances.)

Riteohm "71" Vitreous-Enamelled Precision Resistors and Riteohm Series "90" Hermetically-Glass-Sealed Precision Resistors are also available.

OHMITE PARASITIC SUPPRESSOR



Designed to prevent unwanted ultra-high-frequency parasitic oscillations which occur in the plate and grid leads of push-pull and parallel tube circuits. The parasitics are suppressed, without loss of driving power.

The P-300 is a non-inductive, vitreous-enamelled resistor combined with a choke into one small integral unit. Only 1 3/4" long overall and 5/8" diameter.

Model P-300 List Price.....\$1.50

OHMITE R.F. PLATE CHOKES

Built to Carry 1,000 M.A.



High frequency solenoid chokes designed to avoid fundamental or harmonic resonance in the amateur bands. Single-layer wound on low power factor steatite core—insulated and protected by moisture-proof coating. No portion can resonate independently of any other portion. Designed also to prohibit breakdown from high R. F. potentials. Ample space allowed at the ends to prevent flashover to ground. Non-magnetic mounting brackets furnished with the three larger sizes. Rated at 1000 milliamperes. May be used in diathermy and therapeutic equipment as well as in radio transmitters.

Stock No.	Amateur Band, Meters	Micro-henries	Current Rating (D.C.)	D.C. Resistance Ohms	Lgth.	Tube Dia.	List Price
Z-1	5	5.4	1,000 M.A.	0.85	1 3/4"	1/4"	\$0.25
Z-2	10 and 20	35	1,000 M.A.	2	3"	3/8"	.75
Z-3	20 and 40	95	1,000 M.A.	5	6"	1/2"	1.10
Z-4	20, 40, 80 and 160	220	1,000 M.A.	9	6 1/2"	3/4"	1.50

OHMITE POWER LINE CHOKES



Prevents high-frequency currents of radio transmitters, diathermy and therapeutic equipment from going out over the power lines and interfering with nearby radio receiving sets. Used as a filter in connection with two grounding condensers of 0.1 microfarad capacity each. The Z-20 Choke is also used at radio receivers to keep out interference. All chokes consist of two single-layer windings on a single ceramic core—insulated and protected by moisture-proof coating. Recommended for use in suppressing radio (not audio) frequency interference.

Stock No.	Micro-henries	Current Rating	Total D.C. Resistance Ohms	Lgth.	Tube Dia.	List Price
Z-20	13.5	5 Amperes	0.15	4"	3/8"	\$1.50
Z-21	14	10 Amperes	0.07	6 1/2"	3/4"	2.50
Z-22	16.5	20 Amperes	0.045	8 1/2"	1 1/8"	3.60

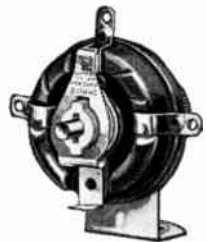
OHMITE BAND SWITCH

For Rigs up to 1 K.W.

Instant, easy change from one frequency to another by front-of-panel knob control, with really low-loss efficiency. Band changing may be provided in all stages of the transmitter, and "ganged" for single-control. Low-loss porcelain construction, vitreous-enamelled.

Model BC-3. Complete with Knob and Mounting Bracket.

List Price.....\$3.00



For more complete information on OHMITE PRODUCTS, ask for Ohmite Catalog 17.

**CONNECTORS
SOCKETS**

AMPHENOL

**ADAPTERS
PLUGS**

**REPLACEMENT
SOCKETS**



Regular "S" sockets and "CP" plugs (listed to the right) assembled with No. 4 retainer ring to nickel plated steel mounting plate with slotted mounting holes to fit riveting centers from 1 1/2" to 1 3/4". Extensively used by servicemen to replace water type sockets.

Socket	Plug	Contacts	Net
RS-4	RCP-4	4-contact	7c
RS-5	RCP-5	5-contact	7c
RS-6	RCP-6	6-contact	7c
RS-7S	RCP-7S	7-small	7c
RS-7L	RCP-7L	7-large	7c
RS-7C	RCP-7L & S		9c
RS-8	RCP-8	8-octal	9c
RS-9	RCP-9	9-contact	11c
RS-11	RCP-11	11-contact	16c
RS-8L	LOKTAL		11c

*Fits both 7 large and 7-small

**110-250 VOLT PLUGS
AND RECEPTACLES**

Receptacles and plugs listed to the right assembled to the mounting plate illustrated above. For mounting on walls, panels, chassis, etc.

Model	Contacts	Net
61-FI	2 pole universal	17c
60-FI	3 pole polarized	23c
61-MI	2 pole standard	17c
61-MPI	2 pole polarized	17c
60-MI	3 pole polarized	23c

VIBRATOR SOCKETS

Molded black bakelite sockets for most vibrators carried in stock. Supplied complete with mounting plate and No. 4 retainer ring; can be used for replacing water or single hole mounting sockets. When ordering send in old socket or diagram of vibrator pin spacings.

LOW-LOSS SOCKETS

Any socket listed on this page available molded from Mica-Filled bakelite. Provides 50% better power factor and 33% better dielectric constant. Especially recommended for high frequency use. When ordering add the letter "M" to part number and 8c to Net Price.

TUBE SHIELD BASE

1-19/32" for stand ard tube shields. Mounts under "S" or "RS" type sockets, held firmly in place without screws or rivets. Has soldering lug for grounding.



No.	Net
LD-1 for small sockets	\$6.00
LD-2 for large sockets	6.00
LD-3 mike connectors	1.80

**SOCKET
PUNCHES**

Special dies for punching key hole chassis holes for "S" type sockets, "CP" type plugs and "61" power plugs and receptacles. Used by laboratory men, amateurs and radio parts jobbers. Made of tool steel, properly hardened.

Amphenol Sockets and Plug Assemblies are used in most of the better radio receivers, transmitters and test instruments throughout the world. Constructed of the best materials obtainable, molded from high dielectric black bakelite, designed perfectly for the purpose for which they are intended, yet priced so that they may be used by all servicemen, custom set builders, soundmen and amateurs. There is an Amphenol Socket or Plug Assembly for every radio or sound job.

RETAINER RING MOUNTING

**"S" TYPE SOCKETS
"CP" TYPE PLUGS**



Extremely compact sockets and plugs, requiring less chassis area than the tubes they serve. Held firmly in place by the patented Amphenol No. 4 retainer ring.

Socket	Plug	Contacts	Net
S1	CP4	4-contact	6 1/2c
S5	CP5	5-contact	6 1/2c
S6	CP6	6-contact	6 1/2c
S7S	CP7S	7-small	6 1/2c
S7L	CP7L	7-large	6 1/2c
S7C	RCP-7L & S		8 1/2c
S8	CP8	8-octal	8 1/2c
S9	CP9	9-contact	10c
S11	CP11	11-contact	14 1/2c
78-8L	LOKTAL		10c

*Fits both 7 large and 7-small

**110-250 VOLT PLUGS
AND RECEPTACLES**



Compact receptacles and plugs, molded from high dielectric black bakelite. Mount without screws or rivets. Held firmly in place with the patented No. 4 retainer ring.

Model	Contacts	Net
61-F	2-pole universal	15c
60-F	3-pole polarized	21c
61-M	2-pole standard	15c
61-MP	2-pole polarized	15c
60-M	3-pole polarized	21c

FOR ABOVE SURFACE



Above sockets, plugs, 110-250 volt plugs and receptacles are available mounted in a light weight aluminum shell which raises the unit 13/16" above or below surface. Four knockouts in side of shell for wire entrance. Ideal for mounting on work benches, breadboard radios, etc. Add 6c to the net price of the unit ordered. Specify "with ACS Shell."

EXTENDED TYPE



For extending a socket, plug, 110-250 volt receptacle, etc. or plug through a wall, work bench, etc. Supplied with any of the units listed at the top of this page. Add 12c to net price of unit selected. Specify "with 3-20A Cap."

FLUSH MOTOR SHELL



Above sockets, plugs, 110-250 volt receptacles and plugs are supplied in this drawn steel shell, finished in burnished nickel. For below surface mounting on all types of radio and electrical apparatus. Add 6c to the net price of the unit selected. Specify "with 61 61 Shell."

SIDE MOUNTING



A versatile outlet for radio and electrical work. Mounts on side of wall, work bench, etc. Supplied with any socket, plug, 110-250 volt receptacle or plug listed above. Add 12c to net price of unit selected. Specify "with 3-20A Cap."

MINIATURE SOCKETS

FOR RCA



For RCA miniature tubes, 184, 185, 1T4 and 1T5. Mounts in a 3/8" hole, held firmly in place with the No. 2-9 retainer ring. Has center grounding shield.

78-7P	7-contact	10c
78-5P	5-contact	10c
54-7P		21c

BANTAM JR.



For Hytron Bantam Jr. tubes, 1Y113, 1Y115 and 1Y125. Mounts in a 3/8" round hole. Held firmly in place with the No. 2-9 retainer ring. Extensively used in hearing aids.

78-5H	5-contact	10c
51-5H		21c

RAYTHEON



For the tiny Raytheon hearing aid tubes, such as CK501, CK502, CK503 and CK504. Mounts in a 3/8" hole. Held firmly in place by the No. 2-10 retainer ring.

78-5P	5-contact	10c
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PHOTOCELL



For RCA Pee Wee and Cetron CE-5BR and CE-20 photo cells. Mounts in a 3/8" round hole. Held firmly in place by the No. 2-9 retainer ring.

S3S	3-contact	8 1/2c
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**MIP SOCKETS
(Molded-in-Plate)**



World's strongest socket. Sturdy steel mounting plate molded directly into bakelite body, cannot come loose or vibrate. 1 1/2" mounting centers. Mounts in 1 1/2" hole (MIP20 in 1-9/32" hole). Molded from high dielectric black bakelite.

MIP4	4-contact	6c
MIP5	5-contact	6c
MIP6	6-contact	6c
MIP7S	7-small	6c
MIP7L	7-large	7c
MIP8	8-octal	7c
MIP9	9-contact	9c
MIP11	11-contact	12c
MIP12	12-contact	15c
MIP20	20-contact	30c

MIP LOKTAL

Molded-in plate socket for loktal tubes. Identical to standard MIP sockets but is smaller in size and has 1-5/16" mounting centers. Mounts in 1-1/16" hole.

88-8X	Loktal Socket	10c
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MIDGET OCTAL

Has all the features of the standard MIP sockets, but is smaller in size. For building compact radios and as the companion socket for the above loktal. Mtg. centers, 1-5/16". Mounts in 1-1/16" hole.

88-8	Midget Octal	7c
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STEATITE SOCKETS



Recommended for high frequency work where high temperatures are encountered such as in transmitters, amplifiers having high output, etc. Slotted mounting holes fit riveting centers from 1 1/2" to 1 3/4".

RSS1	1-contact	24c
RSS5	5-contact	24c
RSS6	6-contact	24c
RSS7S	7-small	24c
RSS7L	7-large	30c
RSS8	8-octal	24c

PLUGS

RCP56	6-prong plug	12c
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**U.H.F. SOCKETS
(Polystyrene)**



Body molded from transparent Amphenol "912-A" (polystyrene). Remarkable LOW LOSS properties provide greater efficiency for ultra high frequency work than has ever before been possible. Caution: solder fast! Do not heat beyond 200° F. Requires 1 1/8" hole; 1 1/2" mounting centers.

54-8	Octal	24c
54-8L	Loktal	27c

Amphenol Radio Tube Sockets are patented under U. S. No. 2,087,784 — also foreign patents. Other patents pending.

CONNECTORS SOCKETS

AMPHENOL

ADAPTERS PLUGS

110-250 VOLT CONNECTORS



The most practical of all plugs and cable connectors for use on power lines. Molded bakelite receptacles and plugs described on the preceding page, encased in drawn steel caps, making unbreakable cable terminals that are fully shielded. The cap snaps on and fits securely, but may be removed easily. Cable entrance accommodates cables up to 7/16" in diameter. Rubber grommet protects cables against abrasion. Cable clamp listed below may be used in place of rubber grommet to relieve all strain on connections.

No.	Net
61-F-1 2-Pole Receptacle	21c
61-M-1 2-Pole Standard Plug	21c
61-MP-1 2-Pole Polarized Plug	21c
60-F-1 3-Pole Receptacle	27c
60-M-1 3-Pole Polarized Plug	27c

CABLE CLAMP



Designed primarily for use with "PF" and "PM" Connectors and 110 250 volt connectors described above. Simply remove rubber grommet of connector and slip this grip into place. Relieves soldered connections of all strain. Also used on panels and chassis, to anchor cables firmly in place. Slips easily into any shape hole from 7/16" to 5/8". No screws or rivets required.

CC-4—Cable Clamp 6c Net

RUBBER PLUG HANDLE



"PF" or "PM" Connectors and 110 250 volt connectors snap into this rubber handle and are held securely in place by an inner molded shoulder. For easy removal of connectors plugged into recessed or hard to get at places. Molded from black rubber.

Illustration is cut away to show how connector is gripped by plug handle.

RPH—Rubber Plug Handle 9c Net

LOCKING SHELLS



Cadmium-plated steel covers which can be slipped over "PF" and "PM" Connectors and 110 250 volt Connectors. Locks connectors firmly together, preventing accidental pull-aparts. Especially suited for public address work. Also used extensively in shops, etc., for connecting power cords. Set consists of one male and one female threaded shells.

C-CAB—Per Set 15c Net

CHASSIS TYPE



Set consists of one threaded shell which fits under "S" type sockets or receptacles listed on preceding page, and one shell which slips over the cable connector.

C-CHA—Per Set 15c Net

MULTI-WIRE CABLE CONNECTORS



Made of regular "AMPHENOL" "S" type tube sockets and "CP" plugs, snugly covered by a steel cap that fits tightly but may be removed with an ordinary screw driver. Cover is 1" in height, black japanned. A rubber grommet protects cable from abrasions. Metal cover shields connections and provides an unbreakable cable terminal. Small and sturdy. Accommodates cables to 7/16".

Female	Male	Net
PF4	PM4	4-contact 15c
PF5	PM5	5-contact 15c
PF6	PM6	6-contact 15c
PF7S	PM7S	7-small 15c
PF7L	PM7L	7-large 15c
PF8	PM8	8-contact 15c
PF9	PM9	9-contact 17c
PF11	PM11	11-contact 21c

MINIATURE SOCKETS



Small compact sockets which have many uses — For connecting speakers, carbon microphones, doublet antennas, etc. Used wherever space is at a premium.



Mount in a plain round hole 5/8" in diameter. No screws or rivets required. Use male cable plugs described below.

SSS—3-contact socket	8 1/2c Net
SSS—4-contact socket	8 1/2c Net
78-5H—5-contact socket	10c Net
78-6H—6-contact socket	10c Net

PHOTO CELL SOCKET

Use SSS listed above as the receptacle for RCA Pee-wee and Cetron CE 511B a CE-20 Photo cells.

SHIELDED PLUGS



For use where shielded plugs are desired. Male may also be used for making connection to miniature sockets described above.

For use where shielded plugs are desired. Male may also be used for making connection to miniature sockets described above.

Male	Female	Prongs	Nete
MPM3S	MPF3S	3	18c
MPM4S	MPF4S	4	20c
MPM5S	MPF5S	5	22c
MPM6S	MPF6S	6	22c

MINIATURE PLUGS



CABLE TYPE

Extremely compact plugs, used extensively for speaker connections in compact midgets. Also ideal for all plug-in connections where space is limited.

Plated brass prongs are deeply recessed in individually molded sockets, preventing shorts due to insulation pulling back. With molded finger grip.

CHASSIS TYPE

Mounts in a plain round hole. 5/8" in diameter. No screws or rivets required. Held firmly in place by the #2-9 tempered steel retainer ring. Use with female Miniature Connectors (MPF3L type) at right above.

Chassis	Cable	Prongs	Net
CP-3S	71-3S	3	8c
CP-4S	71-4S	4	8c
CP-5S	71-5S	5	10c
CP-6S	71-6S	6	10c

2-POLE MINIATURE POWER PLUGS



62-F
Rated at 15 Amps., 115 Volts
10 Amps., 250 Volts

New small power connectors for compact electrical and radio apparatus, such as small motors, home and power sewing machines, drink mixers, etc. Used in radio for connecting phono pick-ups, recorders and other accessories. Ideal for connecting P.M. speakers in public address work. Panel type mounts in 1" round hole with 1 5/16" riveting centers. Has bakelite element, recessed in nickel plated steel shell. Cable type is 2-piece molded bakelite, assembled with two machine screws. Female units accept either standard or polarized male units. All have convenient solder lugs, no binding screws.

CABLE UNITS

Male	Female	Standard	Net
62-M	62-F	Standard	21c
62-MP	62-FP	Polarized	21c

PANEL RECEPTACLES

Male	Female	Standard	Net
62-M	62-FI	Standard	21c
62-MPI	62-FPI	Polarized	21c

MINIATURE CONNECTORS



Molded bakelite connectors housed in cadmium plated brass shells. Only 1 1/2" long and 5/8" O.D. Bakelite element held in place by side set screw. Screw holes in two positions, permit inserting male prongs when used as cable connectors. Accommodates cables up to 5/16". When used with shielded cables, shield can be soldered directly to the cadmium plated shell. Use also with chassis units listed below.

Female	Male	Prongs	Net
MPF3L	MPM3L	3-contact	18c
MPF4L	MPM4L	4-contact	20c
MPF5L	MPM5L	5-contact	22c
MPF6L	MPM6L	6-contact	22c

CHASSIS UNITS



Newly designed chassis connectors which combine Amphénol quality with economy. Ideal for all applications where a compact shielded connector is required. These chassis connectors are ruggedly built. High quality dielectric and low resistance contacts makes it possible to use them in photo cell circuits, etc., where minute currents are handled. For cable connector use Miniature Connectors (MPM3L and MPF3L type) listed above. Mfg. Crs. 1 1/2".

Female	Male	Prongs	Net
PCG3M	PCG3F	3-contact	18c
PCG4M	PCG4F	4-contact	18c
PCG5M	PCG5F	5-contact	20 1/2c
PCG6M	PCG6F	6-contact	20 1/2c

U.H.F. ALIGNMENT TOOL



Molded from pure polystyrene Amphénol "912-A". The only alignment tool manufactured which has no capacity effect upon critical circuits. Supplied with a pencil type clip so that it is convenient to carry in breast pockets.

55—Alignment Tool 24c Net

20-CONTACT SOCKET AND PLUG



Plug is for connecting to cables having up to twenty #18 conductors. Prongs molded directly into bakelite body, eliminating possibility of working loose or getting out of alignment. Each prong set in separate bakelite cell, so that cable insulation may be pulled down into bakelite, preventing shorts due to insulation pulling back. Molded cast type polarizing stud prevents incorrect insertions. Socket has molded-in steel mounting plate. Mounts in a 1 1/2" hole, with riveting centers of 1 1/2".

70-20—20-prong plug 30c Net
MIP-20—20-contact socket 30c Net

SPEAKER PLUGS

One-piece molded bakelite body with prongs securely riveted. Each prong is at the bottom of a deep molded hole which houses the wire and prevents shorts due to insulation pulling back.



Also provides an economical cable connector for plugging multi-wire cables into amplifiers, remote controls, test instruments, etc.

71-4	4-prong	6 1/2c Net
71-5	5-prong	6 1/2c Net
71-6	6-prong	6 1/2c Net
71-7	7-prong	6 1/2c Net
70-8	8-prong	8 1/2c Net
70-9	9-prong	10c Net
70-12	12-prong	15c Net
70-20	20-prong	30c Net

BLANK SOCKET



Identical in size and appearance to regular "S" type sockets. Mounts in the standard 1-11/16" "S" type socket hole. Can be used as a bakelite bushing by drilling a hole in the center, but primarily designed as a dummy or spare socket. Supplied with a #2 retainer ring for mounting. No screws or rivets required.

78B—Blank Socket 3 1/2c Net

HEARING AID SOCKETS AND PLUGS



Especially suited for compact apparatus where plugs and sockets must use a minimum of space. Plugs are often used as supports for self-insulating coil forms.

70-27	2-prong plug	6c Net
70-25	3-prong plug	8c Net
70-26	4-prong plug	9c Net
77-25	3-contact socket	13c Net
77-26	4-contact socket	15c Net

As above but have contacts adjusted to fit phone tips (.080"). Used to connect two pair of headphones in series or parallel.

77-25S—3-contact socket 13c Net
77-26S—4-contact socket 15c Net

Products of American Phenolic Corporation

CONNECTORS SOCKETS

AMPHENOL

ADAPTERS PLUGS

SINGLE CONTACT PRESSURE TYPE CONNECTORS



MC1F **MICM**
Completely shielded unbreakable connectors for use with single conductor microphone cable. Shell is chrome-plated machined brass. Coupling ring prevents accidental disconnections. Contact is made when soldered connections are pressed together by tightening the coupling ring. Spring cord protectors accommodate cables to 3/4" dia. MC1F—Female 39c Net
MC1M—Male 24c Net

CHASSIS UNIT

Mount in .385 hole to ground to chassis. Mount in 1/2" hole when two circuits are desired independent of chassis. Supplied complete with extruded fibre washer, flat fibre washer, flat solder lug washer and locking nut. Use MC1F as the cable connector.

PC1M—Female Chassis Connector 18c Net

CLOSED CIRCUIT CONNECTOR

Same as PC1M but circuit closes when cable connector is removed. Same thread and hardware supplied as on PC1M. Contact is spring-actuated. Use MC1F as the cable connector.

CL-PC1M 24c Net

Same as above but circuit does not close when cable unit is disconnected. Spring pressure makes a more positive contact than PC1M.

SP-PC1M 24c Net

MIKE SWITCH

Compact, unbreakable microphone switch. Easily installed, fully shielded. Male threads fit the MC1F female connector listed above. May be connected directly to any mike which has the PC1M installed. PUSH-TO-TALK, and release the button for stand-by; or SLIDE SWITCH FORWARD for permanent connection. Finished in polished chrome.

MC1S—Switch Complete 60c Net

PHONE PLUG ADAPTER

Screws into the coupling ring of the MC1F Cable Connector, permitting the cable to be plugged into any standard phone jack.

MC1P—(Plug Only) 27c Net

1 and 2 CONTACT PLUG-IN CONNECTORS



MC2F **MC2M**
A new improved connector for shielded 1 or 2 conductor cables. Male has standard 3/32" prong and female has phosphor bronze contact to suit.

80F — 1-contact Female 39c Net
80M — 1-contact Male 39c Net
MC2F — 2-contact Female 48c Net
MC2M — 2-contact Male 48c Net

CHASSIS UNITS

Chassis connectors for above. Supplied complete with metal washer and hex. locking nut. Use No. 80-M or MC2M as the cable connector. 21/32" mounting hole.

80-C — 1-contact Female 24c Net
PC2F — 2-contact Female 27c Net

RIVETING TYPE

Identical to above but has round mounting flange, 1-1/16" in diameter. Two mounting holes on 27/32" centers.

80-CR — 1-contact Female 30c Net
PC-2-CR — 2-contact Female 33c Net

CAP AND CHAIN

Chrome plated cap for sealing chassis units when not in use. Prevents dust entering, eliminating noisy connections.

CCC-1—For PC1M, CL-PC1M, 80-C & PC2F 30c
CCC-3—For PC3F, PC4F, SP-PC3F, etc. 30c
CCC-8—For P04F, P02-C, etc. 30c

3 and 4 CONTACT MICROPHONE CONNECTORS



MC3M **MC3F**
Molded bakelite elements encased in unbreakable chrome-plated polarized brass shells. Elements are interchangeable. By removing cap and spring cord protector connector can be screwed into microphone having 5/8" 27 thread, standard for this industry. Screw type coupling ring prevents accidental disconnections. 3-contact connectors take cables up to 1/4" dia.; 4-contact to 3/8" dia.

Male Female Net
MC3M MC3F 3-contact 60c
MC4M MC4F 4-contact 66c

CHASSIS CONNECTORS

Mounts in 13/16" hole in any panel or chassis up to 1/4" in thickness. Bakelite element fixed permanently in plated-brass shell. Supplied complete with chrome-plated mounting ring, lock washer and hex. lock nut.

PC3F—3-contact female 30c Net
PC4F—4-contact female 33c Net

SPECIAL CHASSIS CONNECTORS

Adjustable to panels up to 3/8" in thickness. Solder lugs recessed, protecting them from physical damage and eliminating danger of shock. Use MC3M or MC4M as cable connector.

FEMALE
SP-PC3F—3-contact 60c Net
SP-PC4F—4-contact 66c Net



Adjustable to panels up to 3/8" in thickness. Shell is chrome plated and carries the coupling ring. Use MC3F or MC4F as the cable connector.

MALE
SP-PC3M—3-prong 60c Net
SP-PC4M—4-prong 66c Net

STAND CONNECTOR

Screws on to top of any standard microphone stand. Female thread is 5/8" 27. Finished in polished chrome brass.

SC3F—3-contact 60c Net
SC4F—4-contact 66c Net



SIDE CABLE OUTLET

Designed to be placed between a microphone and stand having 5/8" 27 threads. Its purpose is to provide an outlet for the microphone cable where it is not desired to run it through the stand tubing. Efficient cable grip relieves strain. Heavy metal castings, finished in polished chrome.

SC03—Side Cable Outlet 45c Net



SHOCK ABSORBER

For use between stand and microphone. A rubber shock absorber encased in metal keeps floor vibrations from microphone. Has standard 5/8" 27 threads, male at one end, female at the other. Has 7/16" opening through the center for mike cable.

MSA3—Shock Absorber 60c Net



WALL PLATES

Chrome plated wall plates, punched for any Amphénol receptacle, socket or chassis connector. Mounting holes fit directly on standard outlet boxes. When ordering specify which Amphénol product is to be mounted on the wall plate.

81-2CH—Plate Only 45c Net

Complete with 2-contact antenna outlet and 110 volt outlet. Supplied with a miniature 3-prong plug for connecting antenna.

81-AC—Complete assembly 87c Net

4 TO 12 CONTACTS



06M 08F
Fully shielded, unbreakable polarized connectors which will withstand the rough usage of public address work. Drawn brass cadmium plated shell houses a molded bakelite element. Cable type has a positive strain relief clamp which will accommodate cables up to 1/2" in diameter.

MALE CABLE			FEMALE CABLE		
Male	Net		Female	Net	
04M 4-contact	\$0.75		01F 4-contact	\$0.75	
05M 5-contact	.75		05F 5-contact	.75	
06M 6-contact	.75		06F 6-contact	.75	
08M 8-contact	.75		08F 8-contact	.75	
012M 12-contact	1.20		012F 12-contact	1.20	

CHASSIS UNIT

Chassis type mounts in 1 1/4" hole and is supplied complete with lock washer, flat washer and hex. locking nut. Use with Male Cable Connectors.

	Net
P04F — 4-contact	\$0.75
P05F — 5-contact	.75
P06F — 6-contact	.75
P08F — 8-contact	.75
P012F — 12-contact	1.20

Heavy Duty POWER CONNECTORS



Male Female
92-M—\$1.50 Net 92-F—\$1.50 Net

Has four flat blade prongs and phosphor bronze contacts more than heavy enough to carry 10 amps at 250 volts, 15 amps at 125 volts. Molded bakelite element completely encased in drawn brass, cadmium-plated shell. Listed by Underwriters' Laboratories.

CHASSIS UNIT

Mounts in 1 1/4" hole in any panel or blank outlet cover up to 3/8" in thickness. Easily adapted to standard outlet boxes by use of No. 92-12 Yoke. Use with Male Cable Connector.

92-C—Female \$1.50 Net



"AN" CONNECTORS Army-Navy Spec. AN9534

Amphénol "AN" connectors are now available for aircraft and industrial use, having 1 to 42 contacts, for carrying from 5 to 200 amperes. 106 different elements are available, housed in every type of shell. For instance, illustrated is a right angle cable unit and a straight connector. Fittings for flexible and rigid conduit, portable coils or shielded cable can be supplied. Your jobber has complete information on this new line of connectors.

CONNECTORS SOCKETS

AMPHENOL

ADAPTERS PLUGS

UNIVERSAL GRID CAP



A new universal grid cap for tube checkers. Fits the grid stud of any receiving tube. Body is molded bakelite. A spring brass contact of unique design assures a positive connection at all times. Supplied wired with a flexible 15" lead, No. 20 stranded wire.

63-1W—Black Grid Cap 12c Net
63-1WR—Red Grid Cap 12c Net

Same as above but unwired. Contact is easily removed from bakelite body and soldered out in the open. No wire supplied.

63-1—Black Grid Cap 9c Net
63-1R—Red Grid Cap 9c Net

IMPEDANCE MATCHING SWITCH



8-position, single pole switch for impedance matching. White numerals, visible through window in cap are standard impedances: 0-2-4-8-16-250-500. Side set screw locks switch in position. Solder lugs protrude through bottom. 1 1/2" mounting centers.

36-2—Impedance Matching Switch 45c Net

TAP CHANGE SWITCH

Same as above but white numerals are 1-2-3-4-5-6-7-8. Used for all switching purposes.

36-1—Tap Change Switch 45c Net

BULB TESTER SOCKET



A combination 7 contact tube socket (fits both large and small 7 prong tubes). Has a large center contact for testing dial lights, flash light bulbs, etc., with either screw or bayonet base.

RS7-CD—With Mounting Plate 27c Net
78-7CD—Retainer Ring Mounting 26 1/2c Net



Compact socket for testing miniature bulbs such as are used in flashlights, dial lights, Christmas tree strings, etc. Accepts either screw or bayonet base. Mounts in a 5/8" round hole with a No. 2-9 retainer ring.

78-10L 18c Net

UNWIRED ADAPTERS



A universal yet simple way for the serviceman or experimenter to make his own adapters. Finished adapter resembles a factory wired job in all respects. Required for modernizing tube checkers and analyzers; for adapting new tubes to old circuits; for bringing out leads to output meter, phone pick up, headphones, extra speaker, etc.

ADAPTER BASES

Bases supplied in 2 styles. With 5/32" side hole for bringing out leads or with a side stud that accommodates a metal tube grip cap. Bases and socket tops drilled for self tapping screws for holding assembly together. Screws supplied with bases.

Number of prongs	With Side Hole	With Side Stud
4-prong	50-4D	50-4G
5-prong	50-5D	50-5G
5-prong	50-6D	50-6G
7-small	50-7SD	50-7SG
8-octal	50-8SD	50-8SG
*7-large	50-7LD	50-7LG
*8-octal	50-8LD	50-8LG

*Fits 7 large and 8 comb. socket tops only.

ADAPTER SOCKET TOPS

Net Price 12c Each

Socket tops available in black, red, green, blue, gray, yellow and brown. Specify color.

FIT SMALL BASES ONLY

No. 44-1—1-contact No. 44-7S—7-small
No. 44-5—5-contact No. 44-8—8-octal
No. 44-6—6-contact No. 44-L—Loktal

FITS LARGE BASES ONLY

No. 44-7L—7-large No. 44-7C—7-comb.
With Center Locking Stud

7-contact top with center stud for lock-type analyzer plugs. Fits any small base.
No. 44-7SS—Socket Top with Stud 18 1/2c Net

LOKTAL ADAPTERS



Kit contains five adapters which will test any Loktal tube except the 7E7 and 7F7 in any tube checker, whether factory or custom built. Adapters convert loktals to exact counterparts in octal series.

Adapters are completely wired, ready for use. Socket tops are color coded for easy identification. Supplied with complete instructions.

44-11WK—Complete Wired Kit \$3.00 Net
UNWIRED KIT

SPECIAL LOKTAL ADAPTERS

The 7E7 and 7F7 Loktal tubes require special adapters because of their pin arrangement. Adapters are completely wired and are supplied with instructions.

44-11W7—for 7E7 tube 60c Net
44-11W8—for 7F7 tube 60c Net

LOKTAL ANALYZER PLUG

Completely Wired

Adapter bottom is loktal type plug. Same pin size and pin spacing as loktal tubes. Fits on end of analyzer plugs.

No. 44-13-9—With Octal Top 75c Net
No. 44-13-7—7-contact Top 75c Net
No. 44-13-6—6-contact Top 75c Net

With Center Locking Stud

Same as above but 7 contact top has center stud for lock type analyzer plugs.

No. 44-13-S7—Complete with Stud 81c Net

FOR SINGLE ENDED TUBES

Kit contains five wired adapters for testing the single ended tubes (without top grid stud) in any checker which has an octal socket. Supplied with complete instructions.

44-14WK—Complete Wired Kit \$3.00 Net

UNWIRED KIT

Identical to the above but the adapters are unwired. Supplied with complete wiring and testing instructions.

44-14K—Complete Unwired Kit \$1.50 Net

FOR MINIATURE TUBES

Unwired adapters for testing the new miniature tubes. No. 44-17 has a socket top to accommodate the RCA 181, 185, 1T4 and 1R5. No. 44-12-8 has a socket top to accommodate the Hytron Bantam Jr. tubes, HY113, HY115 and HY125. Both adapters have octal bases.

44-17 —For RCA 30c Net
44-12-8—For Hytron 30c Net

SINGLE CONTACT SOCKETS



Molded bakelite single contact sockets. Mount in 5/16" hole. No screws or rivets required. Held firmly in place by Amphenol No. 2-11 retainer ring.

Supplied in 7 different colors and 4 different prong diameters so that circuits can be easily and quickly identified, and high voltage plugs kept out of low voltage sockets. Colors available: black, red, green, blue, yellow, gray and walnut.

78-1P—for .080 phone tip 4 1/2c Net
78-1S—for 3/32" plug 4 1/2c Net
78-1M—for 1/8" plug 4 1/2c Net
78-1L—for 5/32" plug 4 1/2c Net

SINGLE PRONG PLUGS



Smallest yet most practical plugs in the world. Supplied in 7 different colors: black, red, green, blue, yellow, gray and walnut. For use with above sockets.

71-1S—3/32" prong 3c Net
71-1M—1/8" prong 3c Net
71-1L—5/32" prong 3c Net

MAGIC EYE ASSEMBLY



For easily adapting Magic Eye tubes to any radio having automatic volume control, to F-M receivers, and for constructing test instruments such as signal tracers, etc. A spring clip grips tube base firmly yet permits rotation for proper focusing of eye movement. This spring clip is adjustable in slotted bracket, so tube will extend properly to any thickness panel. One-megohm target to plate resistor wired into socket. Five-wire color coded cable, 25" long. (All necessary hardware for assembling, with an attractive modernistically styled escutcheon). With instructions.

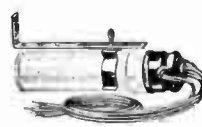
MEA-6—Complete Assembly 75c Net

FOR OCTAL MAGIC EYE

Similar to above Magic Eye Assembly but has an octal socket to accommodate 6AF6G, 6AD6G and other electron tuning eyes having an octal base. Supplied with hardware and 10-2 escutcheon.

MEA-8—Complete Assembly 75c Net

CATHODE RAY ASSEMBLY



For mounting the 502 and 913 cathode ray tubes. Ideal foundation for test equipment. Consists of bakelite socket encased in a metal shell, adjustable mounting bracket and 2 1/2" 7-wire color

coded cable. Unit is completely wired.

913—Complete Assembly 60c Net

MAGIC EYE ESCUTCHEONS



10-1 For magic eyes. Modernistically designed to match the other components of your apparatus. Finished in antique bronze.

10-1—For 6-prong Single Eye tubes 15c Net
10-2—For 8-prong Double Eye tubes 18c Net

ANTENNA OUTLET



Wall plate described below equipped with a 110-volt receptacle and a small 3 contact socket for a doublet or "L" type antenna. Supplied complete with the 3-prong plug for plugging the radio into the antenna outlet. This neat appearing assembly is being used in all modern homes. Wall plate is chrome plated. Sockets are black.

81-AC—Complete Assembly 87c Net

BLANK WALL PLATES

Chrome-plated with struck-up bevel edge. Connectors, receptacles and sockets mount directly on wall plate. Mounting holes of wall plate spaced 3-5/16" to fit directly on outlet boxes. Punched without charge for any unit.

84-2CH—Wall Plate Only 45c Net

3-14 ADAPTER SHELL



Formed black-japaned brass tubing. Amphenol "S" type sockets or "CP" type plus snap into either end and are held securely yet may be removed easily. Any combination possible from 4 prong or contact to 11 prong or contact. Supplied in two types. With blank sides or with rubber grommet in side for bringing out leads.

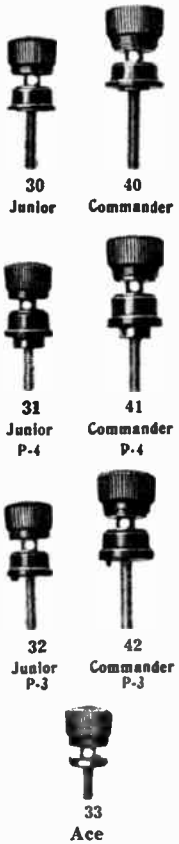
3-14—Shell, less side hole 9c Net
3-14D—Shell with side hole 12c Net

Products of American Phenolic Corporation

HUGH H. EBY, INC. **EBY** PHILADELPHIA

NON-REMOVABLE HEAD BINDING POSTS

INSULATED BINDING POSTS



These popular Eby Binding Posts have been America's standard for many years. Their sturdy construction, excellent quality and patented non-removable heads make them preferred to all others.

Nos. 30 and 40 have a knurled insert projecting below the insulated base to prevent post turning when mounted. The metal base of No. 33 is knurled to prevent turning.

Nos. 31 and 41 have a flattened two-side extension molded on the Bakelite base. The extension on No. 31 is furnished in three lengths: 1/32", 1/16" and 1/8". The extension on No. 41 is 1/8". Please mention length of extension when ordering No. 31.

Nos. 32 and 42 have a dowel pin molded in the base to prevent turning.

Cat. No.	Name	Height Closed	Cap Diam.	Insulation	List Price
30	Junior	11/16"	1/2"	Comp.	\$0.15
31	Jr. P-4	"	"	Note 1	.20
32	Jr. P-3	"	"	Note 1	.20
33	Ace	29/32"	"	Comp.	.15
40	Com'der	3/4"	5/8"	Comp.	.30
41	" P-4	"	"	Note 1	.35
42	" P-3	"	"	Note 1	.35

Packed 10 to a box. Standard package 50. Supplied in black only. A soldering lug and nut are furnished with each of the above.

Note 1: Composition top and Bakelite base.

MARKINGS—All posts supplied plain unless otherwise specified, but the following markings are available at same prices:

On Junior posts: ANT, GND, INPUT, OUTPUT, + or —.

On Commander posts: + or —.
On Ace post: ANT or GND.

METAL BINDING POSTS



These high quality patented Binding Posts have been nationally used for many years. An accurately milled slot across the base provides the lower contacting surface. A precision milled sliding shoe which operates by the cap serves as the upper contacting surface, thus assuring a positive, parallel contact to be made on a pin jack, stranded or solid cable.

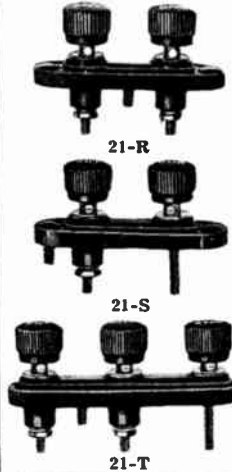
To further prove the accuracy of these posts, a firm contact can be made on a very fine wire without cutting or marring it. The base on all of these posts is heavily knurled to prevent turning.

Cat. No.	Name	Height Closed	Cap Diam.	List Price
10	Midget	7/16"	5/16"	\$0.15
11	Corporal	9/16"	3/8"	.20
12	Buddy	9/16"	3/8"	.20
13	Sergeant	3/4"	1/2"	.30
14	Serg. S.S.	3/4"	1/2"	.35
15	Captain	1"	5/8"	.45

Packed 10 to a box. Standard package 50.

Note: All of the above posts are made from brass, tumbled nickel finish. With each of the above posts mounting screws and nuts are furnished

MOLDED TWIN AND TRIPLE BINDING POSTS

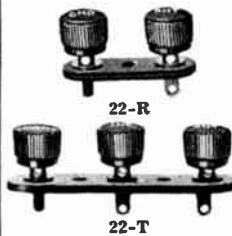


These high quality standard Eby patented posts are molded on special Bakelite bases of excellent quality, and are black in color.

For the convenience of users the posts on either the twin or triple assemblies may be supplied plain or with any of the following markings: ANT, GND, L ANT, S ANT, INPUT, OUTPUT, + or —, on special request. If no marking is specified all assemblies will be furnished as indicated below. All posts measure 7/8" between centers.

Cat. No.	Markings	List Price
21-R	Twin Ant., Gnd.	\$0.50
21-S	Twin Ant., Gnd.	.50
21-T	Triple L. Ant., S. Ant., Gnd.	.65

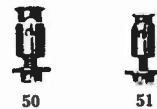
LAMINATED TWIN & TRIPLE BINDING POSTS



Our standard non-removable head Binding Posts mounted on brown laminated Bakelite strips. No mounting screws provided. All posts insulated. Markings only as indicated.

Cat. No.	Markings	List Price
22-R	Twin Ant., Gnd.	\$0.40
22-T	Triple L. Ant., S. Ant., Gnd.	.55

SPRING TYPE BINDING POSTS

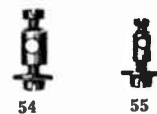


Top section telescopes into bottom section. Hole in center of both sections allows insertion of wire, and spring action holds wire firmly.

Bottom knurled to prevent turning when mounted. Bottom tapped. Mounting screw and washer supplied.

Cat. No.	Height	Dia.	Thread	List Price
50	1/2"	5/16"	6-32	\$0.07
51	7/16"	3/4"	4-40	.06

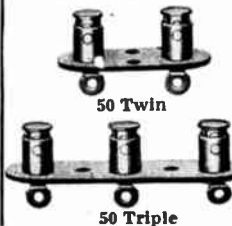
SCREW TYPE BINDING POSTS



Filister head screw in top grips wire inserted in horizontal hole in body of post. Bottom tapped. Mounting screw and washer supplied.

Cat. No.	Height	Dia.	Thread	List Price
54	1/2"	9/32"	6-32	\$0.05
55	3/8"	3/16"	4-40	.05

SPRING TYPE TWIN & TRIPLE BINDING POSTS



Type 50 Spring Post mounted on laminated Bakelite strips, with two mounting holes.

50	Twin Posts	.....	List Price	\$0.20
50	Triple Posts	.....	List Price	.30

ALL BAKELITE PARTS REGULARLY FURNISHED IN BLACK UNLESS OTHERWISE NOTED

MOST combination AB battery packs are out of balance insofar as battery life is concerned. As a rule, the "B" section of a pack wears out before the "A" section. By using individual dry batteries and an Eby Adaptor Cable, replacement of a complete battery pack is eliminated. Only the individual battery that goes bad need be renewed. This means a big saving to the user. All cables are of ample length to allow placing the batteries on the floor near the receiving set if there is insufficient room for the batteries in the receiver cabinet.



5394-7

Battery Adaptor Cable, equipped with 7-prong socket. Permits replacement of power pack in Philco Nos. 37-33, 37-38, 38-33 and 38-38 with three 45 V. "B" and two 4½ V. "C" batteries.

5394-7 List Price\$1.50



5394-8

Battery Adaptor Cable, equipped with 8-prong socket, for Philco Nos. 34, 34A, 39 and 39A. Permits use of three 45 V. "B" and three 4½ V. "C" batteries.

5394-8 List Price\$1.50



5846-3

Battery Adaptor Cable, equipped with 1 female receptacle fitting the 90 volt "B" battery plug using the small 3-prong layout and 1 female receptacle fitting the standard 1.4 volt battery plug. The opposite end of the cable is fitted with our special 4-prong plug to fit the AB pack.

5852 (Not illustrated) List Price ..\$0.75



5846-4

Battery Adaptor Cable allows replacement of the 90-volt B battery pack with individual 45-volt B batteries in Philco Nos. 70, 71, 80 and 85. Fitted with sockets to take the plug from the receiver cable and two plugs to fit any standard 45-volt "B" batteries.

5846-3 List Price\$0.60

Battery Adaptor Cable provides for replacement of battery packs on all sets using new AB packs with standard 45-volt "B" batteries and 1½-volt dry "A" batteries.

5846-4 List Price\$0.75



5903
5943

Battery Adaptor Cable has been designed for use with all battery sets using 2-45-volt "B" batteries and the 1½-volt "A" battery. It allows the use and convenience of the single AB battery pack in place of the individual A and B batteries. The cable is fitted with 3 female receptacles for either the standard or the small layout "B" battery plugs from the receiver, and the opposite end of the cable is fitted with our special 4-prong plug to fit the AB pack.

List Price
5903 Standard "B" Layout.....\$0.75
5943 Small 3-prong Layout..... .75



5870

Battery Adaptor is designed for use with Zenith 4K 331, 4K 310 and 4K 355 battery sets. The female end fits the male plug on the receiver cable. The male end fits the Eby No. 5846-4 Battery Adaptor Cable so as to allow the use of standard "A" and "B" batteries in place of the battery pack.

5870 List Price\$0.40



5857-1
5857-2
5857-3

Battery Adaptor Cable has been designed to allow the replacement of battery packs in many battery operated sets with standard 45-volt "B" batteries and 2-volt wet "A" batteries. It is wired on one end with a special 4-prong female receptacle to fit the 4-prong male plug on the receiver. The opposite end of the adaptor cable is fitted with two male plugs to fit any standard 45-volt "B" battery and two spade terminals to fit a wet 2-volt "A" battery.

Cat. No.	Ohm Resistor		List Price
5857-3	2.5	for 4 tube sets	\$0.95
5857-2	2.0	" 5 " "	.95
5857-1	1.43	" 6 " "	.95

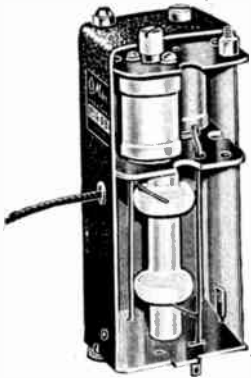
Battery Adaptor Cable has been designed to allow the replacement of the 1½-volt "A" dry battery with a 2-volt wet "A" battery. It is equipped with a 2-prong female receptacle at one end which fits the plug on the receiver cable. The opposite end is fitted with two spade type terminals to fit the posts on the storage battery. A resistor holder is placed on the plus "A" lead to allow for the different drain taken by sets with 4, 5 or 6 tubes.

5878-1
5878-2
5878-3

Cat. No.	Ohm Resistor		List Price
5878-3	2.5	for 4 tube sets	\$0.75
5878-2	2.0	" 5 " "	.75
5878-1	1.43	" 6 " "	.75

USERS OF EBY ADAPTORS AND ADAPTOR HARNESES APPRECIATE THE SAVING

"ALIGN-AIRE" I.F. TRANSFORMERS



FEATURES: • Align-Aire (Air Tuned) Trimmers • Moisture-Proof • Dust-Proof • Temperature-Proof • 3600 Degrees Smooth Tuning • Permanently Stable • Double Tuned • Top Tuning • Perma-Strut Construction • No Drift.

NEW AIR TUNED UNITS—A great coil development. The combination of "Align-Aire" air tuning and exclusive Meissner construction methods eliminates drift and shifting, and permits permanently stable adjustment. Coil performance also improved by use of a special low-loss coil compound.

ALIGN-AIRE CONDENSERS—Easily and accurately you may, by means of the Align-Aire condensers, secure 3600 degrees of micrometer smooth tuning, substantially linear—enables service man or amateur to align the transformer permanently. Aligning remains stable regardless of temperature changes or violent vibrations. No microphonic noises—no chance of short circuit—no dust enters the trimmers.

BUS-BAR CONSTRUCTION—Eliminating the use of lead spacers and greatly improving mechanical assembly. Embodies rigid leads that cannot bend, prevents breakage of the fine Litz wire used in these high quality I.F. transformers, and provides a terminal for each coil-end placed in a position where it is unnecessary for flexible leads of one coil to lay across the other coil. Wires are permanently spaced away from all others insuring coupling capacities electrically equal because of geometrical similarity.

FERROCART (Iron Core)

Cat. No.	Frequency Range (kc)	Peak Factory Setting	Gain Factory Setting	Selectivity Band Width			Use
				2x	10x	20x	
16-6631	155-195	175	125	5.5	13.0	18.5	Input
16-5977	155-195	175	28	5.5	13.0	18.0	Interstage
16-6633	155-195	175	150	7.3	22.3	32.8	Output
16-6625	233-305	262	70	4.5	11.0	16.5	Input
16-5967	233-305	262	29	6.0	17.0	22.5	Interstage
16-6637	233-305	262	110	7.5	23.5	36.0	Output
16-6639	338-443	370	72	4.5	11.5	17.5	Input
16-5993	338-443	370	30	6.5	17.5	24.0	Interstage
16-6641	338-443	370	120	8.0	22.5	33.5	Output
16-6643	415-540	456	77	7.0	18.0	22.0	Input
16-6123	415-540	456	29	7.0	18.0	24.4	Interstage
16-6645	415-540	456	105	9.0	25.8	36.3	Output
16-6139	415-540	456	100	9.5	23.2	33.5	Output C.T.
16-8089	1325-1750	1500	40	14.4	38.4	54.5	Input Intstage.
16-8097	1325-1750	1500	55	19.2	48.0	73.5	Output
16-8101	1325-1750	1500	55	20.0	50.0	75.0	Output C.T.
16-6239	2500-3300	3000	50	40.0	80.0	125.0	Input-Intstage.
16-6241	2500-3300	3000	43	40.0	120.0	170.0	Output

LIST, \$6.00

NET EACH \$3.00

AIR CORE

Cat. No.	Frequency Range (kc)	Peak Factory Setting	Gain Factory Setting	Selectivity Band Width			Use
				2x	10x	20x	
16-6630	158-195	175	100	6.8	16.8	23.5	Input
16-5979	158-195	175	27	5.9	13.6	19.2	Interstage
16-6632	158-195	175	110	8.2	23.6	34.5	Output
16-6634	233-305	262	52	6.5	17.0	24.5	Input
16-5971	233-305	262	19	7.0	18.0	25.0	Interstage
16-6636	233-305	262	100	9.0	28.5	41.0	Output
16-6638	338-443	370	52	6.5	16.0	23.0	Input
16-6011	338-443	370	18	7.0	18.0	25.0	Interstage
16-6640	338-443	370	100	10.0	26.0	39.5	Output
16-6642	415-540	456	50	7.0	18.8	25.2	Input
16-6129	415-540	456	19	6.5	15.0	22.0	Interstage
16-6644	415-540	456	95	10.7	27.8	38.9	Output
16-6163	415-540	456	87	11.9	27.3	39.5	Output C.T.
16-8090	1325-1750	1500	27	17.6	46.3	68.7	Input Intstage.
16-8096	1325-1750	1500	55	24.0	61.3	92.5	Output
16-8102	1325-1750	1500	55	25.0	48.0	95.0	Output C.T.
16-6243	2500-3300	3000	35	50.0	120.0	190.0	Input-Intstage.
16-6247	2500-3300	3000	40	81.0	190.0	280.0	Output

LIST, \$4.50

NET EACH \$2.70

Copyright by U. C. P., Inc.

FERROCART (IRON CORE) DOUBLE TUNED I.F. TRANSFORMERS

Years of research have produced FERROCART (microscopically fine particles of pure, soft iron) for the finest engineering requirements. Each particle is insulated from every other particle, making possible the development of an extremely low loss core of high permeability. This core improves selectivity, increases the gain and signal, and lowers set noise.

I.F. transformers using Ferrocart embody the latest in engineering design and manufacturing practice. Proper inductance of windings and accurate coupling between coils produce extreme uniformity of characteristics. Each transformer tested physically and electrically and peaked at the specified frequency.

The Mica trimmers are built on low-loss bases assuring minimum leakage. Spacers are used to assure uniform capacity coupling. In 1 1/4" square x 3 1/2" black crackle-finish cans.



LOW LOSS CERAMIC BASE-MICA TRIMMERS

Cat. No.	Frequency Range (kc)	Peak Factory Setting	Gain Factory Setting	Selectivity Band Width			Use
				2x	10x	20x	
16-5728	127-206	175	80	5.5	13.0	20.3	Input
16-5981	144-320	175	19	3.5	9.0	13.0	Interstage
16-5730	127-206	175	80	7.5	22.2	38.2	Output
16-5933	127-206	175	83	7.2	20.0	30.0	Output C.T.
16-5732	200-345	262	68	5.4	13.6	20.4	Input
16-5734	200-345	262	59	7.5	23.0	35.0	Output
16-5736	295-540	370	59	8.1	18.4	27.4	Input
16-5738	295-540	370	83.0	9.5	24.7	39.1	Output
16-5740	360-600	456	50.0	7.3	17.6	25.0	Input
16-6131	360-600	456	23.2	6.9	13.3	18.3	Interstage
16-5742	360-600	456	80.0	10.8	26.5	38.7	Output
16-6211	360-600	456	77.0	9.3	24.0	33.3	Output C.T.
16-8091	1050-2000	1500	30	16	34.4	59.3	Input Intstage.
16-8099	1050-2000	1500	47	19.1	52.7	80.0	Output
16-8103	1050-2000	1500	50.0	20.8	49.5	75	Output C.T.
16-6253	2300-3700	3000	50.0	70	140	210.0	Input-Intstage.
16-6257	2300-3700	3000	40.0	64	156	224	Output

LIST, \$2.00

NET EACH \$1.20

STANDARD REPLACEMENT DOUBLE TUNED I.F. TRANSFORMERS



The ideal replacement transformer for Servicemen and Experimenters who demand the utmost in I.F. transformer performance at low cost.

HIGH GAIN—WIDE RANGE—DOUBLE TUNED—with Meissner Low-Loss Ceramic Base Mica Dielectric trimmers. For increased efficiency and stability, a special moisture-proof treatment is accorded the base. All leads are color coded.

EFFICIENCY has not been sacrificed in making these transformers so compact they can fit into exceptionally small space. Size 1 1/4" x 1 1/4" x 3 1/2". Cans are black crackle-finished.

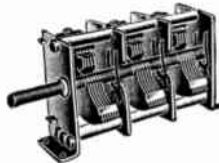
LOW LOSS CERAMIC BASE-MICA TRIMMERS

Cat. No.	Frequency Range (kc)	Peak Factory Setting	Gain Factory Setting	Selectivity Band Width			Use
				2x	10x	20x	
16-5708	121-235	175	70.0	8.2	17.5	37.5	Input
16-5983	121-235	175	17.0	6.4	14.4	20.5	Interstage
16-5702	121-235	175	70.0	9.5	26.3	41.0	Output
16-3731	121-235	175	75.0	7.8	21.5	32.4	Output C.T.
16-5704	220-360	262	43.4	7.1	20.7	31.1	Input
16-5991	215-440	262	15.0	6.0	17.0	24.0	Interstage
16-5706	190-325	262	72.0	15.3	46.2	68.2	Output
16-6093	190-325	262	80	15.0	41.8	66.7	Output C.T.
16-5708	275-480	370	55	13.5	32.0	47.5	Input
16-6059	27-650	370	22.7	9.4	24.7	35.5	Interstage
16-5710	275-480	370	80.0	17.5	47.7	72.0	Output
16-6091	275-480	370	61.0	13.5	37.8	55.8	Output C.T.
16-5712	425-650	456	50.0	14.7	31.3	45.6	Input
16-6133	435-1000	456	21.3	9.8	25.5	36.8	Interstage
16-5714	425-650	456	70	16.6	43.0	65.7	Output
16-3736	255-550	456	50	15.2	36.7	55.8	Output C.T.
16-8092	1050-2000	1500	21.5	17.5	51.2	73.5	Input Intstage.
16-8100	1050-2000	1500	40.0	24.0	65.5	97.5	Output
16-8104	1050-2000	1500	40.0	24.0	65.5	97.5	Output C.T.
16-4268	2000-4000	3000	16.6	156	348	496	Input-Intstage.
16-4261	2000-4000	3000	23.3	180	390	750	Output

LIST, \$1.50

NET EACH \$0.90

VARIABLE CONDENSERS STANDARD TUNING CONDENSERS



Low loss; low minimum capacity; improved bakelite insulation; true bus-bar construction; spacing deliberately set far apart for efficient performance. All condensers have a $\frac{3}{8}$ " shaft and increase capacity clock-wise. End plates are $3 \frac{3}{16}$ " x $1 \frac{27}{32}$ ". Each section 1 1/2" and has separate tempered rotor-grounding wiper.

No.	Max. Cap.	List	Net
SINGLE GANG			
21-5218	140	\$1.75	\$1.05
21-5224	365	2.00	1.20
21-5228	410	2.00	1.20
TWO GANG			
21-5220	140	\$2.75	\$1.65
21-5221	365	3.00	1.80
21-5229	410	3.00	1.80
THREE GANG			
21-5219	140	\$3.75	\$2.25
21-5227	260	3.75	2.25
21-5222	365	4.00	2.40
21-5230	410	4.00	2.40
FOUR GANG			
21-5223	365	\$5.00	\$3.00

COMPACT VARIABLE CONDENSERS



Inexpensive condensers adaptable to many uses, especially AC-DC receivers and auto-radios. Due to their compact size a great saving is possible, without sacrificing quality. All units supplied in $\frac{1}{4}$ " shaft and clock-wise rotation for maximum capacity. End plates measure $1 \frac{9}{16}$ " x $2 \frac{3}{8}$ ". Size per section: 1 inch.

No.	Max. Cap.	List	Net
SINGLE GANG			
21-5200	315	\$1.50	\$0.90
TWO GANG			
21-5210	140	\$2.15	\$1.29
21-5214	365	2.25	1.35
21-5216	410	2.25	1.35
THREE GANG			
21-5211	140	\$3.15	\$1.89
21-5215	365	3.25	1.95
21-5217	410	3.25	1.95

MIDGET VARIABLE CONDENSER



Universally applicable in high frequency apparatus. Single hole mounting on panels up to $\frac{1}{4}$ " thick in $\frac{3}{8}$ " diameter hole. Nut provided for mounting.

No.	Plates	Capacity Range	List	Net
21-5163	3	3.0 to 15 mmf	\$0.90	\$0.54
21-5164	5	3.2 to 30 mmf	.95	.57
21-5165	7	3.5 to 45 mmf	1.00	.60
21-5166	9	3.7 to 60 mmf	1.10	.66
21-5167	11	4.0 to 80 mmf	1.20	.72
21-5168	14	4.3 to 100 mmf	1.25	.75
21-5170	20	5.0 to 140 mmf	1.45	.87

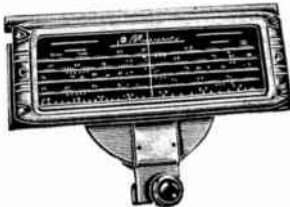
CERAMIC MIDGET VARIABLE CONDENSERS



For universal application in receivers, transmitters, test equipment, etc., as tuning, trimming or neutralizing capacitors. Exceptionally compact; low-loss ceramic end plate measure only $1 \frac{1}{16}$ " x $1 \frac{1}{4}$ " over-all. Single-hole mounting; will fit panel up to $\frac{1}{4}$ " thick. Shaft is $\frac{1}{8}$ " diameter. Have long sleeve-bearing to eliminate all wobble.

No.	Plates	Capacity Range	List	Net
21-5173	3	2.4 to 10	\$1.35	\$0.81
21-5174	7	3.0 to 25	1.40	.84
21-5175	14	3.5 to 50	1.50	.90
21-5176	20	4.5 to 75	1.55	.93
21-5177	27	5.0 to 100	1.65	.99
21-5178	37	6.5 to 140	1.75	1.05

DIALS NEW STANDARD "SLIDE RULE" DIALS



For $\frac{3}{8}$ " condenser shaft. Dull-gold escutcheon and pilot light sockets for bayonet type bulbs included.

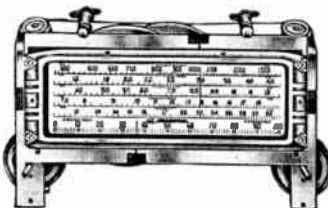
9" "SLIDE-RULE" DIALS
FOR COUNTER-CLOCKWISE CONDENSERS
No. 23-8230. Calibrated 132 KC to 42.3 MC in 5 bands.
No. 23-8232. Calibrated 540 KC to 42.3 MC in 4 bands.
FOR CLOCKWISE CONDENSERS
No. 23-8231. Calibrated 132 KC to 42.3 MC in 5 bands.
No. 23-8233. Calibrated 540 KC to 42.3 MC in 4 bands.
List, each \$7.00. NET \$4.20

5" "SLIDE-RULE" DIAL
FOR CLOCKWISE CONDENSER
No. 23-8227. Broadcast Band only.
List \$4.75. NET \$2.85

7" "SLIDE-RULE" DIALS
FOR COUNTER-CLOCKWISE CONDENSERS
No. 23-8207. Broadcast Band only.
No. 23-8208. B.C. and S.W. Bands.
No. 23-8209. B.C., Pol. and S.W.
No. 23-8210. I.W., B.C. and S.W.
List, each \$5.50. NET \$3.30

FOR CLOCKWISE CONDENSERS
No. 23-8220. Broadcast Band only.
No. 23-8221. B.C. and S.W. Bands.
No. 23-8222. B.C., Pol. and S.W.
No. 23-8228. I.W., B.C. and S.W.
List, each \$5.50. NET \$3.30

NEW ELECTRICAL BANDSPREAD "SLIDE RULE" DIAL



Latest improvements! 9" scale! One pointer for bandset and additional short pointer on 0-100 scale for bandspread section. Specially designed for use with Meissner electrical bandspread 280-nmf. 3-gang tuning condenser and 5-band multiwave coil assemblies. Scale black on white background with top illumination. French design escutcheon with dull gold finish.

Calibrated 530 KC to 32.1 MC. 5 Bands.
No. 23-8211. List, \$12.50. NET \$7.50
Calibrated 540 KC to 60 MC. 5 Bands.
No. 23-8219. List, \$12.50. NET \$7.50
280 nmf. 3 gang electrical bandspread condenser.
No. 21-5143B. List, \$7.50. NET \$4.50

MEISSNER KIT CONDENSERS

Rigidly constructed to give highest quality performance. No trimmers used on any unit except No. 21-5140, 280 nmf electrical bandspread condenser. Ceramic insulation. Used in the new Meissner 11 and 8 tube Communications Kits. Clockwise close.
No. 21-5143B. List, \$7.50. NET \$4.50

365 mmf. Used in Meissner 7 tube AC and 6 tube Battery Broadcast Kits; counter-clockwise close.
No. 21-5140. List, \$4.00. NET \$2.40

365 mmf. Used in Meissner 7 tube AC and 6 volt Battery Two Band and in 7 tube LW-BC-SW Kit; counter-clockwise close.
No. 21-5140B. List, \$3.80. NET \$2.28

410 mmf. Used in 12 and 9 tube "Custom" Kits; counter-clockwise close.
No. 21-5141B. List, \$3.80. NET \$2.28

450 mmf. Used in 7 tube AC, BC, Pol. and S.W. Kit; counter-clockwise close.
No. 51-5142B. List, \$3.85. NET \$2.31

SWITCHES



NEW CERAMIC ROTARY TYPE

A new type switch especially built for Amateur and commercial application in transmitters, U.H.F. receivers and converters, etc. Switch wafers are of a high-grade, low-loss ceramic, close-packed to reduce humidity effect to a minimum. Wafer contacts silver plated for lowest contact-resistance. Adjustable stop permits use of as many positions as required. Arranged for single-hole mounting; all are of the "shorting" type. Plenty of spacing between wafers for any purpose. If shorter spacing is required, switches may be dis-assembled and spacers cut down to suitable length. Arranged to mount in a single $\frac{3}{8}$ " hole in any panel up to $\frac{1}{4}$ " thick. Over all diameter $1 \frac{1}{8}$ "; each section measures approximately $1 \frac{1}{8}$ " center to center. Equipped with a flattened $\frac{1}{4}$ " shaft, $\frac{1}{2}$ " long. Wafers $7/32$ " thick ceramic.

No.	Gangs	Poles	Positions	List	Net
24-8270	1	2	2 to 12	\$2.75	\$1.65
24-8271	2	2	2 to 12	4.50	2.70
24-8272	3	2	2 to 12	6.25	3.75

ROTARY TAP SWITCHES



SHORTING AND NON-SHORTING TYPES

Meet the demand of practically any circuit combination. Have adjustable stop, which permits the use of as many positions as desired. Newly developed positive contact assures noiseless reception at all times. Switches can be dis-assembled and spacers cut down to meet desired length. Over-all diameter $1 \frac{1}{8}$ "; mounts in $\frac{3}{8}$ " hole on any panel up to $\frac{1}{4}$ " thick. Furnished with lock-nut.

SHORTING					
24-8251	1	1	2 to 12	\$1.15	\$0.69
24-8253	1	2	2 to 5	1.25	.75
24-8255	2	2	2 to 12	1.75	1.05
24-8257	2	4	2 to 5	2.00	1.20
24-8259	3	3	2 to 12	2.35	1.41
24-8261	3	6	2 to 5	2.50	1.50
24-8263	1	4	2	1.25	.75

NON-SHORTING					
24-8252	1	1	2 to 12	\$1.15	\$0.69
24-8254	1	2	2 to 5	1.25	.75
24-8256	2	2	2 to 12	1.75	1.05
24-8258	2	4	2 to 5	2.00	1.20
24-8260	3	3	2 to 12	2.35	1.41
24-8262	3	6	2 to 5	2.50	1.50

COIL SHORTING ROTARY SWITCHES WITH ADJUSTABLE STOP

Shorting feature reduces absorption effects of unused coils in lower frequency bands when operating on higher frequencies, by successively shorting them out. Adjustable stop permits the use of as many positions as desired.

Separate-Section Coil-Shorting Switches

Separate wafers for primary and secondary switching reduce coupling capacity—eliminates crowded coil wiring and simplifies connections. Maximum Diameter $1 \frac{1}{8}$ ". Shaft Length $2 \frac{1}{2}$ ". Shaft Diameter $\frac{1}{4}$ ".

No.	Gangs	Cir- cuits	Posi- tions	Depth	List	Net
24-9202	Two	Two	2 to 5	$2 \frac{1}{4}$ "	\$1.50	\$0.90
24-9203	Four	Four	2 to 5	$4 \frac{1}{4}$ "	2.50	1.50
24-9204	Six	Six	2 to 5	$6 \frac{1}{4}$ "	3.50	2.10
24-9205	Eight	Eight	2 to 5	$8 \frac{1}{4}$ "	4.50	2.70

PUSH-BUTTON SWITCHES



Circuit Closing Switch Circuit Transfer Switch
MEISSNER engineered for utility. Meissner push-button switches are completely assembled and have sliding contact motion. All current carrying contacts are specially silver plated for low resistance. Insulation is of moisture-proof bakelite with exceptional low loss qualities. Escutcheon plate and blank name inserts included with each switch.

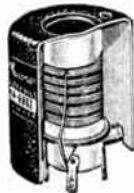
No.	Type	Buttons	List	Net
24-8266	Circuit closing	6	\$4.50	\$2.70
24-8267	Circuit closing	8	5.50	3.30
24-8268	Circuit transfer	6	4.50	2.70
24-8269	Circuit transfer	8	5.50	3.30

ANTENNA and R. F. COILS NEW COMPACT SERIES



A new series of compact coils designed particularly for use where space is limited. Cover the Broadcast band—190 to 550 meters—with a 365-mmfd condenser. Ideal as replacements in servicing compact midget and auto sets, as well as for new set construction. Coils are of the high-impedance primary, litz secondary type, well impregnated against moisture, and are wound on $\frac{7}{8}$ " diameter forms, $1\frac{3}{4}$ " long. Shielded coils are mounted in black crackle-finished $1\frac{1}{2}$ " diameter cans, 2" high, with spade-tug mounting bolts.

SHIELDED		UNSHIELDED	
No. 14-1024	Antenna Coil	No. 14-1022	Antenna Coil
No. 14-1025	R.F. Coil	No. 14-1023	R.F. Coil
List \$0.60.	Net \$0.36	List \$0.45.	Net \$0.27



STANDARD SERIES

Designed to cover the broadcast band—190 to 550 meters—with a 365 mmfd condenser. Constructed for quality, not built down to a price. Shielded coils are in cans $1\frac{3}{8}$ " diameter, $2\frac{1}{2}$ " high, with $1\frac{1}{2}$ " mounting centers. Unshielded coils are wound on $\frac{7}{8}$ " diameter forms $2\frac{1}{4}$ " long.

No.	Use	Description
SHIELDED		
14-1004	Ant.	High Imp. Pri.—Litiz Sec
14-1005	R.F.	High Imp. Pri.—Litiz Sec
List, \$0.90		NET, Each, \$0.54
UNSHIELDED		
14-1010	Ant.	High Imp. Pri.—Litiz Sec
14-1011	R.F.	High Imp. Pri.—Litiz Sec
List, \$0.70		NET, Each, \$0.42

IRON CORE "UNIVERSAL-ADJUSTABLE" Antenna-R.



F.-Oscillator Coils

New adjustable Inductance Ferrocart (Iron Core) coils; will replace the Broadcast Band coils in practically any receiver. Continuously variable in inductance over a wide range. The oscillator coil is also arranged to provide complete adjustment for receivers having intermediate frequencies from 175 to 520 kc. All coils are compact in size and are mounted in black crackle-finished cans measuring $1\frac{3}{4}$ " x $1\frac{1}{2}$ " x $2\frac{1}{4}$ " high—mounting centers are $1\frac{11}{16}$ ".

No.	Description	List	Net
SHIELDED			
14-7413	Universal Ant. Coll.	\$2.00	\$1.20
14-7558	Universal R.F. Coll.	2.00	1.20
14-7560	Universal Osc. Coll.	2.00	1.20
UNSHIELDED			
14-1026	Universal Ant. Coll.	\$1.25	\$0.75
14-1027	Universal Ant. Coll.	1.25	.75
14-1028	Universal Osc. Coll.	1.25	.75

FERROCART (Iron Core) Antenna and R. F. Coils



Latest development of Ferrocart Iron Cores adds substantial gain and increases selectivity of radio frequency transformers by improving "Q" of windings. High-impedance primary Antenna Coil designed for use with any type of aerial. Use high gain unit as detector coil in single or multi-stage R. F. amplifiers, use lower gain coil in intermediate stages of a multi-stage R. F. amplifier. Designed to cover broadcast band (540 to 1600 kc) with a 365 mmfd condenser. Will work with any standard types of tubes, including metal and battery-operated 2-volt series. Furnished in non-magnetic cans—black crackle-finished. Shields $1\frac{3}{4}$ " square by $2\frac{1}{4}$ " high—spade lug mounting centers $1\frac{11}{16}$ ".

Ferrocart Ant. Coil		Ferrocart R.F. Coils	
No.	Type	No.	Type
14-1496	Hi-Imp. Prl.	14-1497	Detector
List, \$1.75		14-1498	Interstage
			NET EACH \$1.05

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DUAL AND 3-BAND COILS

Dual Band

Same as used in MEISSNER Kits; will give utmost in performance and stability. Both bands wound on same bakelite coil-form, $\frac{7}{8}$ " dia. Two mica-dielectric trimmers mounted in cans of shielded coils. All coils designed to be used with a 365 mmfd. variable condenser and for operation with a 458 kc. I. F. channel. Wound on bakelite forms $2\frac{1}{4}$ " long. Shielded coils in cans $1\frac{3}{8}$ " x $1\frac{3}{8}$ " x $3\frac{1}{2}$ ". Broadcast-and-Police coils cover 530 to 1550 kc and 1.5 to 4.48 kc. Broadcast-and-Short-Wave coils cover 530 to 1660 kc and 3.8 to 19 mc.



SHIELDED		UNSHIELDED	
No. 14-7467	Antenna Coll	No. 14-7482	Antenna Coll
14-7471	R.F. Coll	14-7483	R.F. Coll
14-7475	Oscillator	14-7484	Oscillator
List, \$2.70.	NET \$1.62	List, \$1.85.	NET \$1.11

22-5204	Padding Condenser Kit for above coils.	List \$1.25.	NET \$0.75
24-8265	3-gang 2-position Switch:	List, \$1.50	NET \$0.90

BROADCAST AND SHORT-WAVE COILS

SHIELDED		UNSHIELDED	
No. 14-7476	Antenna Coll	No. 14-7477	Antenna Coll
14-7478	R.F. Coll	14-7479	R.F. Coll
14-7480	Oscillator	14-7481	Oscillator
List \$2.70.	NET \$1.62	List, \$1.85.	NET \$1.11
22-5203	Padding Condenser Kit for above coils.	List \$1.25.	NET \$0.75
24-8265	3-gang 2-position Switch:	List, \$1.50.	NET \$0.90

3-Band

Similar to above, but offered only in shielded types, with trimmers built in. Broadcast-Police-Short-Wave coils are for use with a 450 mmfd. condenser and cover 540 to 1700 kc, 1.75 to 5.35 mc, 5.2 to 18.5 mc. Long-Wave-Broadcast-Short-Wave coils are for use with a 365 mmfd. condenser and cover 136 to 370 kc, 530 to 1580 kc, 3.8 to 18.8 mc. All coils mounted in shield cans $1\frac{3}{8}$ " x $1\frac{3}{8}$ " x $3\frac{1}{2}$ ", and are designed for use with a 458 kc. I. F. channel.

BROADCAST, POLICE AND SHORT-WAVE COILS

No.	Description	List	Net
14-1012	Shielded Antenna Coll.	\$3.50	\$2.10
14-1013	Shielded R.F. Coll.	3.50	2.10
14-1014	Shielded Oscillator.	3.50	2.10
22-5201	Padding Condenser Kit.	1.25	0.75
24-8264	3-gang 3-position Switch.	2.00	1.20

LONG WAVE, BROADCAST AND SHORT WAVE COILS

No.	Description	List	Net
14-1015	Shielded Antenna Coll.	\$3.50	\$2.10
14-1016	Shielded R.F. Coll.	3.50	2.10
14-1017	Shielded Oscillator.	3.50	2.10
22-5202	Padding Condenser Kit.	1.50	.90
24-8264	3-gang 3-position Switch.	2.00	1.20

OSCILLATOR COILS

For the Broadcast band—190 to 550 meters. Tune with 365 mmfd TRF type condenser. Will operate in all types of oscillator circuits.



No.	Int. Freq.	Padder	List	Net
SHIELDED				
14-4242	175 kc	900 mmfd.	\$0.95	\$0.57
14-4243	456 kc	350 mmfd.	.95	.57
UNSHIELDED				
14-3732	175 kc	900 mmfd.	\$0.75	\$0.45
14-6590	262 kc	686 mmfd.	.75	.45
14-6592	370 kc	500 mmfd.	.75	.45
14-4034	456 kc	350 mmfd.	.75	.45

Midget Antenna and R. F. Coils



Entirely new design. Specially built for compact T.R.F. Super-Het and Auto Radio receivers. Wound on $\frac{7}{8}$ " bakelite form. Four bank windings with Litiz wire. High impedance primaries. Shield cans $1\frac{3}{8}$ " x $1\frac{3}{8}$ " x $2\frac{1}{4}$ ". Spade bolt mountings. Cover 190 to 550 meters with 365 mmfd. condenser.

No. 14-2436	Antenna Coll	
No. 14-2437	R. F. Coll	
List \$1.00.	Net Ea.	\$0.60

INTERFERENCE FILTERS

DE LUXE DUAL UNIVERSAL WAVE TRAP

Tunes 400-475 to eliminate code signals, etc., entering receiver at intermediate frequency. Also tunes 550 to 1950 kc for interfering signals in Broadcast and low-frequency Police bands. Knob makes adjustment easy. Has Ferrocart (iron core) for greater efficiency.



No. 15-8048	List \$2.65.	Net \$1.59
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Dual Broadcast Model; a two-section trap designed for maximum efficiency on Broadcast band only, 550 to 1950 kc.

No. 15-8478.	List \$2.65.	Net \$1.59
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DUAL AMATEUR BAND WAVE TRAP

Eliminates interference simultaneously from either 40 and 80, or 40 and 160 meter bands. Similar in construction to above dual unit, but without knob. Has screwdriver adjustment for both bands. Tunes 1.5 to 7.5 mc.

No. 15-8148.	List, \$2.65.	Net \$1.59
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STANDARD SINGLE WAVE TRAPS

Each trap designed for a specific frequency coverage; has screwdriver adjustment for easy setting to interfering signal. Air core design.

No. 15-8479—	For range 400 to 700 kc.	
No. 15-8480—	For range 650 to 1000 kc.	
No. 15-8481—	For range 950 to 1600 kc.	
No. 15-8483—	160 Meter and Police Band.	
No. 15-8484—	30 Meter Band.	
No. 15-8483—	40 Meter Band.	
No. 15-8482—	20 Meter Band.	
Any Model.	List \$1.25.	Net Each \$0.75

456 I.F. WAVE TRAPS

Eliminate I.F. interference caused by code signals, etc.

No. 15-7518.	Fully shielded.	List, \$0.90.	NET \$0.54
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No. 15-8486 Similar to above, but unshielded.
List, \$0.85. NET \$0.39

DE LUXE LINE FILTER



May be connected either to interfering device or to radio. Receptacle at one end, line cord and plug at other; grounding terminal mounted on case. For 110 volts, AC or DC, at 200 watts maximum.

No. 15-7519.	List, \$4.00.	Net \$2.40
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TRIMMING AND PADDING CONDENSERS



Low-loss ceramic base. Hot-tinned alloy plates. Cadmium-plated steel adjusting screw; extra-fine thread. Accurately threaded brass insulators. Clear India. Ruby mica dielectric.

No.	Type	Cap. Range	List	Net
22-7002	C	25-100 mmf	\$0.25	\$0.15
22-7003	C	75-225 mmf	.30	.18
22-7004	C	125-350 mmf	.35	.21
22-7005	C	175-500 mmf	.40	.24
22-7006	C	225-650 mmf	.45	.27
22-7007	D	275-825 mmf	.65	.39
22-7008	D	325-1000 mmf	.70	.42
22-7009	D	400-1200 mmf	.75	.45
22-7010	D	500-1400 mmf	.80	.48
22-7011	D	600-1600 mmf	.85	.51
22-7012	D	700-1800 mmf	.90	.54
22-3237	G	50-180 mmf	.35	.21
22-3238	G	100-300 mmf	.40	.24
22-5211	G	200-600 mmf	.55	.33



SERVICE PARTS

EXACT DUPLICATE MAJESTIC REPLACEMENT UNITS

Manufactured from the original Majestic blue-prints, but Meissner-improved to eliminate the causes of failure. New construction insures satisfactory long life—mechanically and electrically perfect. Exactly replaces old units—requires practically no adjusting. Leads have original Majestic color-code

Cat. No.	Application	List	Net
Chassis No. 15-15B-150			
Model 161-153-154-156			
20-2411	1st I.F. and Osc. Transf.	\$2.50	\$1.50
20-3864	2nd I.F. Transformer.	1.50	.90
20-4051	1st R.F. Coll. less Can. ....	.75	.45
20-4050	2nd R.F. Coll. less Can. ....	.50	.30
Chassis 20—Model 21-22-23			
20-4052	1st I.F. Transformer.	3.50	2.10
20-4053	2nd I.F. Transformer.	5.00	3.00
Chassis 25—Model 251-253-254			
20-4054	1st I.F. Transformer.	1.25	.75
20-4055	2nd I.F. Transformer.	1.25	.75
20-4056	R.F. Choke. ....	.35	.21
Chas. 25-B—Model 251B-253B-254B			
20-4057	1st I.F. Transformer.	1.50	.90
20-4058	2nd I.F. Transformer.	1.50	.90
20-4056	R.F. Choke. ....	.35	.21
Chassis 35—Model 351-353			
20-4435	1st I.F. Transformer.	1.75	1.05
20-4436	2nd I.F. Transformer.	1.00	.60
20-4437	3rd I.F. Transformer.	1.00	.60
Chassis 55—Model 56-57-58			
20-3864	2nd I.F. Transformer.	1.50	.90
20-4051	1st R.F. Coll. less Can. ....	.75	.45
20-4050	2nd R.F. Coll. less Can. ....	.50	.30
Chassis 60 & 160—Model 61-62-163			
20-4059	1st I.F. Transformer.	3.00	1.80
20-4372	2nd I.F. Transf. Tapped.	3.00	1.80
Model 66			
20-4062	1st I.F. Transformer.	1.50	.90
20-4063	Ant. Coll. less Can. ....	.75	.45
20-4064	Osc. Coll. less Can. ....	.50	.30
20-4064	R.F. Choke 1 s. e. a. ....	.75	.45
Model 110			
20-4066	Broad Band Transformer.	1.25	.75
20-4444	1st I.F. Transformer.	1.50	.90
Model 118			
20-4069	Ant. Coll. less Can. ....	.75	.45
20-4061	Osc. Coll. less Can. ....	.50	.30
Model 120-121			
20-4439	1st I.F. Transformer.	1.50	.90
20-4440	2nd I.F. Transformer.	1.50	.90
Chassis 120B—Model 123			
20-4363	1st I.F. Transformer.	1.75	1.05
20-4369	2nd I.F. Transformer.	1.75	1.05
Chassis 200—Model 201-203-204			
20-3816	2nd I.F. Transformer.	1.50	.90
20-4067	Ant. Coll. less Can. ....	.75	.45
20-4319	Osc. Coll. less Can. ....	.35	.21
20-3958	R.F. Coll. less Can.	1.25	.75
Chassis 210—Model 211-214-215			
20-3915	1st I.F. Transformer.	1.75	1.05
20-3944	2nd I.F. Transformer.	1.50	.90
20-4454	Ant. Coll. less Can. ....	.35	.21
20-4056	R.F. Choke. ....	.35	.21
Chassis 220—Model 221-223			
20-4432	1st I.F. Transformer.	1.75	1.05
20-4433	2nd I.F. Transformer.	1.75	1.05
Chassis 290-300			
Model 291-293-294-303-304-307			
20-4070	1st I.F. Transformer.	1.25	.75
20-4071	2nd I.F. Transformer.	1.50	.90
20-4069	Ant. Coll. less Can. ....	.75	.45
Chassis 320—Model 324			
20-4430	1st I.F. Transformer.	1.50	.90
20-4431	2nd I.F. Transformer.	1.75	1.05
Chassis 310A-310B			
Model 311-314-315			
Chassis 330—Model 331-336-77			
Chassis 390—Model 393			
20-4427	Ant. Coll. less Can. ....	.75	.45
20-4064	R.F. Choke, less Can. ....	.75	.45
Chassis 340—Model 344			
20-4429	2nd I.F. Transformer.	1.00	.60
20-4427	Ant. Coll. less Can. ....	.75	.45
Chassis 360—Model 363			
20-4427	Ant. Coll. less Can. ....	.75	.45
Chassis 370—Model 371-373			
20-4074	1st I.F. & Osc. Transf.	1.00	.60
Chassis 400—Model 411-413			
20-4076	1st I.F. Transformer.	1.00	.60
20-4064	R.F. Choke, less Can. ....	.75	.45
Chassis 440—Model 44-49-194			
20-4432	1st I.F. Transformer.	1.50	.90
20-1489	Oscillator Coll. less Can. ....	.35	.21
Chassis 460—Model 461-463			
Chassis 520—Model 95			
Chassis 490—Model 491-493			
20-3499	1st I.F. Transformer.	2.25	1.35
20-4012	R.F. Coll. less Can. ....	.80	.48
20-4064	R.F. Choke, less Can. ....	.75	.45
20-4078	Oscillator Coll. less Can. ....	.35	.21

Cat. No.	Application	List	Net
Chassis 500			
Model 55-59-75-195-560-566			
20-4089	1st I.F. Transformer.	\$2.50	\$1.50
20-4081	2nd I.F. Transformer.	1.50	.90
20-4090	3rd I.F. Transformer.	2.50	1.50
20-1819	Antenna Coll. less Can. ....	.50	.30
20-4079	Oscillator Coll. Low Freq. ....	.35	.21
20-4080	Osc. Coll. High Freq. ....	.35	.21
Chassis 800—Model 85-86-998			
20-4012	R.F. Coll. less Can. ....	.80	.48
20-4064	R.F. Choke, less Can. ....	.75	.45

PAPER SECTION REPLACEMENT COILS



Exact duplicates of original assemblies. Coils only, without cans or trimmers. Exactly replace defective burned-out units. Improved units, in cans with trimmers, are listed at left.

Meissner No.	Majestic No.	Use	Model	List	Net
20-6070	4428	1st I.F.	15-15B-150	\$0.60	\$0.36
20-5310	8384	2nd I.F.	15-15B-150	.70	.42
20-5311	4429	1st I.F.	150	.70	.42
20-5312	5325	2nd I.F.	25	.90	.54
20-5313	5601	1st I.F.	25B	.70	.42
20-5314	5602	2nd I.F.	25B	.90	.54
20-5317	5606	1st I.F.	55	.70	.42
20-5315	10589	1st I.F.	66	.70	.42
20-5316	10591	2nd I.F.	66	.70	.42
20-4065	379	Pi-network	90-90B-100-100B	.65	.39
20-4445	7643	2nd I.F.	114	.70	.42
20-5318	9355	1st I.F.	116	.70	.42
20-5319	9361	2nd I.F.	116	.70	.42
20-5321	6250	1st I.F.	200	.70	.42
20-5322	6254	2nd I.F.	200	.90	.54
20-6071	6119	1st I.F.	210	.70	.42
20-5323	6123	2nd I.F.	210	.70	.42
20-6072	6127	3rd I.F.	210	.70	.42
20-5324	6588	1st I.F.	220	1.00	.60
20-5325	6572	2nd I.F.	229	.70	.42
20-5326	6592	3rd I.F.	35-220	.80	.48
20-5327	7205	1st I.F.	290-300	.70	.42
20-5328	7240	2nd I.F.	290-300	.90	.54
20-5329	7821	1st I.F.	310A-310B-330-390	.70	.42
20-3906	7812	2nd I.F.	310A-310B-330-390	.80	.48
20-4428	9094	2nd I.F.	360	.70	.42
20-4075	9229	2nd I.F.	370	.80	.48
20-5330	9668	1st I.F.	400	.70	.42
20-4075	9229	2nd I.F.	400	.80	.48
20-1491	10528	2nd I.F.	440	.75	.45
20-3500	10511	1st I.F.	460	.70	.42
20-3457	10253	2nd I.F.	460	.85	.51
20-5331	10843	1st I.F.	500	.70	.42
20-5332	11705	2nd I.F.	600	.70	.42
20-3457	10253	2nd I.F.	800	.85	.51
20-4204	7187	Primary coil used as R.F. Plate coil in Models 290-300-310-330-460-520 and 800		.70	.42

Molded Bakelite Socket—Octal Base



Molded from finest bakelite and firmly mounted in cadmium-plated steel saddle, providing universal mounting with 1/4" centers. Phosphor-bronze contacts.

No. 25-8209—List, Each \$0.15.....NET \$0.09
No. 25-8438—Ctn. of 6—List, \$0.85.NET \$0.51

Stearite Socket—Octal Base—Low Loss

Meissner unique design; all advantages of ceramic insulation. Standard 1/4" mounting centers; terminal clips phosphor-bronze. Four additional grounding lugs.

No. 25-8437—List, Each \$0.40.....NET \$0.24
No. 25-8439—Ctn. of 6—List, \$2.25.NET \$1.35

SOCKET PUNCH

Hardened steel. Will cut right-sized hole in sheet metal up to 14 gauge to fit either Stearite or Bakelite Meissner sockets. Cuts clean; 1/4" hole; tempered to last.

No. 25-3558—List, \$4.75.....NET \$2.85

EXACT DUPLICATE REPLACEMENTS

Clarion I. F. Replacement Transformers and Coils



A carefully selected list of replacements for popular model Clarion sets. Exact duplicates with the addition of Meissner improvements to eliminate original defects.

No.	Model	Position	List	Net
20-6938	480	Composite.	\$1.75	\$1.05
20-6956	320	Composite.	1.75	1.75
20-4284	260	2nd I.F.	1.25	.75
20-4293	300	3rd I.F.	1.50	.90
20-4286	300	1st or 2nd I.F.	1.00	.60

Coil Sections Only				
20-3478	100	2nd I.F.	\$0.90	\$0.54
20-6909	140	2nd I.F. ....	.60	.36
20-3152	220	1st I.F. ....	.90	.54
20-3478	220	2nd I.F. ....	.90	.54
20-6307	260	1st I.F. ....	.60	.36
21-6309	260	2nd I.F. ....	.90	.54
20-3153	320	2nd I.F. ....	.90	.54
20-6313	360	1st I.F. ....	.60	.36
21-5317	360	2nd I.F. ....	.60	.36

Belmont Replacement Composite I. F. and Oscillator Coil



For Models C19, 50C, Viking 51C, an exact Belmont duplicate both in physical and electrical characteristics. Complete coil assembly in shield can. May also be used in many Sears Roebuck receivers.

No.	List	Net
20-6792	\$4.00	\$2.40

CROSLLEY UNTUNED I. F. COIL

For Models 122, 123, 124, 125, 126. Every serviceman should stock these special untuned I.F. Transformers. An efficient replacement for the many receivers now on the market. This unit is an exact duplicate both physically and electrically.



No.	List	Net
20-4297	\$1.25	\$0.75

R. C. A. Radiola

I. F. Transformer Replacement Coils

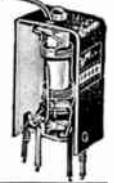
Exact I.F. replacement coils for R.C.A.—Radiola—G. E.—Westinghouse—and Graybar receivers.



No.	R.C.A.	Model	Position	List	Net
20-6301	8567	80-82-86-RAE68	1st I.F.	\$0.90	\$0.54
20-6299	8565	80-82-86-PAE68	2nd I.F.	.90	.54
20-6297	8566	80-32-80-RAE68	3rd I.F.	.90	.54
20-6289	2991	R4-R5-R5DC-R5X R6-R7-R7A-R7DC R9DC-R9-RE16-RE16A	1st I.F.	.90	.54
20-6281	2992	R4-R5-R5DC-R5X R6-R7-R7A-R7DC R9DC-R9-RE16-RE16A	2nd I.F.	.90	.54
20-6273	8342	60-62-64	All I.F.	.90	.54

SHIELDED PRE-SELECTOR COIL

Adds selectivity to any broadcast receiver. Three windings—a primary and two secondaries. Receivers without R. F. stage can be greatly improved in selectivity by addition of a preselector stage, using this coil. No additional tube required. Tunes 190 to 550 meters with a 365 mmf. condenser. Shield can 1 1/4" x 1 1/4" x 3". Spade bolt mounting.



No. 14-6797 List \$2.00 Net \$1.20

NEW "CART-WHEEL" I.F. REPLACEMENT

A new type of "Cart-Wheel" I.F. transformer used in many midjet and compact receivers. Has molded plastic trimmer base and supporting dowel. Serves as an ideal replacement. This unit may be used to replace either the input or output I.F. transformer. Operates at 458 kc. and measures only 1 1/4" x 1 1/32" x 1 1/4" high over-all.



No. 16-6661. List \$1.00.....NET \$0.60

CARRON Cones

Our No.	O.D.	List
ADMIRAL		
★1020—A-126, 5X	6½	\$1.75
AIRLINE (Montgomery Ward & Co.)		
★1473—62-274, 62-288, 62-290, 62-350, 62-351, 62-352	5	1.25
ARISTON		
★1332—A, used in: Detrola 140; Fada 356D	5	1.25
1462—Used in: Kadette 1149; Fada 365C, 366C; LaFayette F-647	8	2.00
ARVIN		
★1418—467, 518	5	1.25
★1439—17, 518, 568	5	1.25
ATWATER-KENT		
1000—Pt. No. 15142, 43, 46, 55, 60, 61, 66, 67, Speaker P4	10%	2.25
1001—Pt. No. 14374, 43, 46, 55, 60, 64, 66, 67, Speaker P2	10%	2.25
BELMONT		
★1461—602C, 881	5	1.25
BOSCH		
★1325—505, 430J, 430, 430T, 431, 431J, 431T, 434, 434J, 434T, 501, 620, 623A, 625, 634A, 640, 565W, 565K, used in Westinghouse WR209, WR211	7	1.50
CHEVROLET		
★1563—Model 985-480 (Radio Speakers)	7½	2.25
★1570—Model 985-285 (Magnavox)	8	1.50
1552—Model 985426 (Magnavox 1D-1400)	5½	1.25
1561—Model 985424 (Rola)	7½	2.00
CROSLLEY		
★1212—167, 103, 5A1, 353-3, 585	6½	1.25
★1373—516	5½	1.25
★1450—A157, 517, 547, 5517 (Utah CV-27)	5	1.25
1494—717	8	2.00
EMERSON		
★1505—HA199, HA201	5	1.25
1562—AX211, 4X5-324, (Radio Speakers, Paper Spiders)	4	1.00
1564—T275 (8T8-396), 638-368-U, Radio Speakers	4	1.00
GENERAL ELECTRIC		
*1370—A52, A55, A64, A65, A70, A83	8	1.25
*1379—A73, E62, A63, U70	6½	1.00
*1409—E81, E71, E72, E81, E91, E95, E101	8	1.25
*1425—E61, E68, E79, E81, E86, E26, E105, E115	12	2.00
GRUNOW		
1254—650, 651, 661, 670, 750, 8A3, 8A4, 8C4, used in: Chevrolet 600565, 600249, 985300	8½	2.25
1255—450, 460, 623, 660, 662, 4A, 4H, 4C, 6C, 8B1, 812, 813, 8BG2-6, 8H11-4, 8C7	7½	2.25
1183—671, 701, 751, 752, 753, 801, 1152, 1162, 10A1, 10A3, 10A4, 10A5, 10A10, 6D	10	2.75
1256—901, 902, 1101, 15, 1541, 1291, 12A1, 12A2, 12A6, 12G4-1	12	2.90
1327—6M, 108C2, 108C9, 108C10	10	2.75
JENSEN		
1035—D7, D8, used in: Dayton Navigator; Sparton 737, 921; Silver Marshall "C", etc.; Airline 29-55; Edison R-1, R5, etc.; Airline 29-AH1, 8K4; Galbransen 7-7; Howard "Green Diamond"; Kennedy 22, etc.; Sentinel 104	11½	2.90
1037—D9 inside spider—used in: Airline 89, 24; Crosley 124, 127; Howard AVH-P; Kennedy 50, etc.; Silver Marshall A, B, C; Zenith AH, RH, CH, 090, 90, 91, 92, 93	11½	2.75
★1286—F5R, used in: Belmont 580; Emerson 250W	5	1.25
★1285—F6R, used in: Belmont 777; Kadette 85; Motorola 75	6½	1.50
1332—F8R	8	2.00
1331—X12-1½" Voice Coil	12	2.90
1333—X12-1" Voice Coil	12	2.90
1371—X12, (12R, 1¼" V. C., used in Zenith 6V62	12	2.90
★1138—T1, T2, used in: Detrola 87; Freshman 275; Lyric C4	5	1.25
1384—PM12C	12	2.90
1420—PM8D, E8R, used in Motorola 65, 70	8	2.25
1478—PM10C	10	2.75
1548—PM8D6, PM8G8	8	2.25

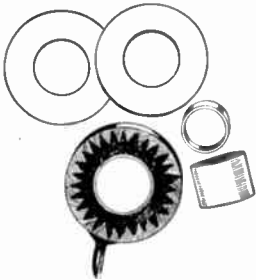
Our No.	O.D.	List
LYRIC "WURLITZER"		
1143—880, 8A90	8	2.00
1390—112 (Magnavox 302)	12	2.90
MAGNAVOX		
1048—D7, D6, D8, D80, D90, D100, used in: Bosch 29; Eveready 30, 40; Kellogg 223; Newcomb Hawley N19; Sparton 737, 931	8½	2.75
1200—151D, 481, 158, 168, 251PM, 2 pt. used in: Motorola 88, 60, 100; Crosley 825-4, 712; Chevrolet 601308, 985225, 985400; Hudson D1337; Oldsmobile 405-062, 162, used in Zenith 862	8	2.25
1316—132, 162, used in Zenith 862, 1162, 811, 812	11½	2.90
1221—152X, 252PM, 160, 170, used in Crosley 170	10	2.75
★1242—195, used in: Crosley 5M3; Stewart Warner H133	5	1.25
★1369—1 D-76, used in: Chevrolet 985-301, 985200; Crosley A366, 315; Delco R610, 631A, 4099; Emerson 107; RCA 67M; Truetone 667; United Motors 985200	5½	1.25
MAJESTIC		
1058—G1, 71, 72	9	2.25
1059—42, 71, 72, 91, 92, 181	9	2.25
1060—G3, 90, 91, 93, 101, 102, 103	10	2.25
1067—G10B, G10C, G10D, G10E, 151, 153, 154, 155, 156	7½	2.00
1071—G19A, G19B, G19C, G19F, G19-4, 391, 293, 294, 303, 304, 324, 314 used in Columbia (19A, etc.)	10	2.25
★1156—G24, 116—Ford Auto	6	1.50
★1158—426A, G26A, 371, 373, 411, 413, 111A, 413A	5	1.25
MOTOROLA		
1573—(Quam) 8-40	6½	1.50
OPERADIO		
★1172—06Z, used in: Airline 96, 98, 104; Arvin 10; Belmont 575; Sentinel 560; Wells Gardner 05Z, 05A, 05BA	5	1.25
1222—12A221, used in: Airline 62-106, 62-107, 62-121, etc., Mills Novelty	10	2.75
★1204—1806, 222, 219, used in: Airline 62-177, 62-173, 62-175, etc.; Arvin 20A, 25, 29; Chevrolet 985-252; Colonial 164; De Wald A606, 617; Goodyear 741; Howard 4100A; Sentinel 600; Silver-tone 706B; Wells Gardner 7J; Zenith 58127, 6M90, 68239	6½	1.50
★1417—M5, used in: Airline 62-175, 62-425; Arvin 18; Emerson K123, 16D; Silver-tone 9105X	5	1.25
★1415—12A234, used in: Airline 62-236, 62-263; Belmont 666; Chevrolet 985200; Delco 640, 631A; Gamble Skogmo 6L; Wells Gardner 6L, 6C1; Zenith 6M91	5½	1.25
OXFORD-TARTAK		
★1353—5A, 2 pt. Spider—used in Detroit 4F, 4J, etc.	5	1.25
PHILCO		
*1078—36-3170—10, 11, 65, 76, 77, 87, 90L, X, 95, 96, 111L, 112L, X, 296	10½	1.40
*1345—36-3485—NT-7, NT-7X, NT8, 805, 806	6½	1.00
*1343—36-3526—FT-9, MT-11X4, NT-12X, NT-15, N1433, N1434, PT-14, P-1482, RT-14X, ST-12, ST-15, S1416, S1431, S1137, S1326	5½	1.00
*1467—36-3540—624H, F. K. 651H, 905 Amplifier, 37-38B, F, 37-623B, T, code 121-125, 37-624H, code 121-125, 37-641B, code 121-125, 37-643, 38-22T, 38-23T, 38-33F, 38-34F, 38-35B, F, 38-38T, 38-39T, 38-40T, 38-25014, 38-623T, 38-624, 38-643, 905	7½	1.00
*1466—36-3557—651X, 37-38J, 37-623J, K, 37-624J, code 121-125, 37-641X, MX, 22X, 38-23X, K, 38-38X, K, 38-39X, K, code 121, 37-643X, 38-3840K, X, 38-250T, X, 38-623X, K, 38-624, code 121-125, 38-643	10½	1.40

Our No.	O.D.	List
PHILCO (Cont.)		
1377—36-3586—F1340, F1440X, F-1442, F142X, G-1418, L1427, L1429, N1418, N1514, N-1524, P1417, P1422, P1517, R1415, S-1516, W1419	6½	1.00
*1481—36-3627—37-610J, code 121-125, 37-611J, 37-620J, code 121-125, 37-620J, 38-8X, 38-9K, X, 38-10F, 38-89K, 37-611J, 38-610	10½	1.40
*1249—36-3631—14X, code 124-122, 14L, code 122, 14HX (code 123), 16L, X, HX, PX, 17L, D, HX, X, 500, 501, 37-675X, MX, code 121	10½	1.40
*1079—36-3821—20, 21, 70B, H, 96, 90B, H, 270, 470, 490	8½	1.25
1489—36-3981—38-12, code 121, Hun 1 to 5, 38-14, code 121, 38-15, code 121, 38-17	5½	1.25
*1529—45-1311—38-12, code 121, Hun 6, 920	5½	1.00
*1455—45-2608—F1540, G1528, 926...	6½	1.00
*1501—C1550	7½	1.00
1248—02625—11LZX, 15X, 16B, 17L8, 18D, H, L, X, 19H, X, LZX, 23X, 25L, 27L, 29X, CSX, 7X, 43L, 44X, H, TX, 43L, 44X, H, 47H, X, code 125, 48X, D, H, 71H, X, 91X, L, H, 97H, D, X, 98X, 116B, 118HX, H, X, D, MX, 144H, X, 260L, 261L, 500, 503L, 504L, 506L, 507L, 630X, P4, 635X, 640X, 641F, 645X, 650RX, 655X, H, 660X, 665X, 37-9X, 37-10X, code 121-125, 37-11X, code 121-125, 37-830, code 121-125, 37-640X, 37-650X, 37-660X, 37-665X, 37-670X, 37-2650X, 37-2670X, 38-2XX, 38-3XX, 38-4XX, 38-5X, 38-7XX, 38-665X, 38-2670X	10½	1.40
*1203—02861—28C, 29TX, 45C, 48B, C, 50B, 51B, 52B, C, L, 56, 80B, P, 81B, 610B, 620, 611B, Transitone Auto Radio 5, 5T, H, CRD, DP, DPV, FT-6, FND, HRD, NJD, SJD, FN	5½	1.00
*1244—36-3020—54, 57, 58, 59, 600, 602, 604, 37-600, 37-602, 37-604	5½	1.00
*1246—36-3157—34B, L, 38H, L, F, 60B, L, 66B, L, 84B, 260B, 267B, 610B, 611F, 620B, F, 625B, J, 37-84B, 37-89H, F, 38-9T, 38-10T, 38-14CSX, 38-15CSX, 38-17F, 38-60F, 38-92B, F, 38-89H, F, 38-92B, 38-610B, 38-2620B, code 125, 37-60H, F, 37-61B, F, 37-62B, F, 37-93B, 37-610B, T, code 121-125-126, 37-611B, F, T, 37-620B, code 121-125, 37-2620B, code 121, 700, 2620, 2625, CGD, CGDU, HGD, NQD...	7½	1.00
*1245—36-3159—10, 11B, 14LZX, 15X, 16B, 17H, 18B, 19B, LZ, 22L, 23X, 25, 26, 28L, D, F, CSX, 32B, L, 34, 39B, 43B, H, X, 44B, 45L, F, 46B, 47B, H, D, X, 49, 71B, D, H, L, 74B, L, 89B, H, L, 91B, X, L, D, 90H, 97B, 98B, 116B, 118B, 144B, 261B, 505L, 610PF, 623B, F, 630B, 635B, 640B, 649B, F, 641B, 643B, F, 645K, 650B, 655, 37-620, CSX, 37-630T, code 121-126, 37-640H, 37-650B, code 121, 37-660B, 37-665B, 37-670B, 37-675B, 37-2620-C8, 37-2650H, 37-2670, 38-5B, 38-7H, 38-640, 38-665B, Transitone Auto Radlox 6, 7, 8, 9, 10, 12, 800, 802, 808, 809,	7½	1.00

CARRON Cones (con.)

Our No.	O.D.	List	Our No.	O.D.	List	Our No.	O.D.	List	
PHILCO (Cont.)			*RCA-VICTOR (Cont.)			UTAH (Cont.)			
818K, 819, 827K, 828K, 2615, GGD, (GDP), (T2), (T3), (T10), (T11), (T12), (T15), (T16), (T17), (T18), (T19), (T20), (T21), (T22), (T23), (T24), (T25), (T26), (T27), (T28), (T29), (T30), (T31), (T32), (T33), (T34), (T35), (T36), (T37), (T38), (T39), (T40), (T41), (T42), (T43), (T44), (T45), (T46), (T47), (T48), (T49), (T50), (T51), (T52), (T53), (T54), (T55), (T56), (T57), (T58), (T59), (T60), (T61), (T62), (T63), (T64), (T65), (T66), (T67), (T68), (T69), (T70), (T71), (T72), (T73), (T74), (T75), (T76), (T77), (T78), (T79), (T80), (T81), (T82), (T83), (T84), (T85), (T86), (T87), (T88), (T89), (T90), (T91), (T92), (T93), (T94), (T95), (T96), (T97), (T98), (T99), (T100)			*1385—Pt. 11258, RL-70, 6T2, 6K2, T6-11, C8-12, TU, T78, C7-6, D7-7, D8-28, C9-6, T9-9-9, D9-19	12	2.00	1119—Little Giant No. 1, Inside Spider, used in: Airlite 33-25, 62-00, 11,000, 326W; Isoayne 700, 749; Kennedy 50, 63, 64; Zenith LJI, BII, WHI, 2022....	7%	2.00	
*1500—C1908	6	1.00	*1391—Pt. No. 12642, 6T5, 5BT, 5U, 7T1, 5T, 5X2, 6T, 6S, 9T, 7T1, 10T, 8T5, 810T, 86BK, 86BT, U101, R96, R97, ACR111, 86T4	8	1.50	1121—Little Giant No. 2, 3 Pt. Spider, used in Airlite 62-60...	7%	2.25	
*1542—T-11-4	4	1.00	*1392—Pt. 13667, 14934, 5T6, 5T7, 5T8, 6M, 6M2, M101, M104, 6T11, 86T, 86T1, 87T, 86T3, 87T1, 86T6, also used in: Silvertone 1988; Westinghouse WR203, 308; Hudson NA37....	6 1/2	1.00	1123—Stadium 66A, 66B, used in Airlite 29-55, 3065....	11 1/2	2.75	
QUAM-NICHOLS			ROLA			U. S. APEX GLORITONE			
*1198—Long Spider, used in: Aetna 4154W; Belmont 401A; Detroit 61T; Emerson A; Motorola 41; Simplex 5C; Sparton 82; Tiffanytone 66; Wilcox Gay 4186....	5	1.25	*1167—F4, used in: Belmont 525, 625; Crosley 167; De Wald; Emerson U418, 108; Fada 356D....	5	1.25	*1201—5D, used in: Airlite 62-660; Atwater Kent 155, 424, 534; Emerson K838, 678, U60; Grunow 501, 550; Motorola 44; United Motors 4048; U. S. Apex 3218....	5	1.25	
*1267—Long Spider, used in: Sentinal 510; Sparton 616....	6	1.50	*1282—DP1, used in: Belmont 670; Emerson USA, J, U60....	5	1.25	*1319—2191, used in: Crosley 515; Grunow 520....	5	1.25	
*1387—Oval Spider, used in: Air King 260; Motorola 35....	5	1.25	*1281—DP5B, used in: Colonial R-11553; Crosley 166; Deico 631, 629, etc.; GM 405063; Pontiac 544289....	6 1/2	1.50	1457—1220, (U29).....	12	2.90	
*1388—Oval Spider.....	6	1.50	*1315—G12.....	12	2.90	1470—E12P, I2LP, I2PG6.....	12	2.90	
*RCA-VICTOR			*1423—T-6-DP, used in: Chevrolet 601662, 601574; United Motors 985253	5 1/2	1.25	1482—G12T5.....	12	2.90	
*1104—Pts. 7142, 7236, 8921, 8929, 8902, R4, R250C, R5, R5DC, R5N, R24, R71, M30, P31, M32	7 1/2	1.25	1460—KMB, used in: Delco 665; Motorola 65; Pontiac 985334; Silvertone 4600; United Motors 985334	8	2.25	WELLS-GARDNER			
*1089—Pt. 8601, R, R7, R7A, R7DC, R9DC, R7LW, R8, R8DC, R9, R10, R10DC, R11, R12, RE16, RE16A, RE18, RE19, R21, R023, RA226, R43, R48....	10 1/2	1.50	STEWART WARNER			ZENITH			
1236—Pt. 8987, R228, R23V, R28, R28P, RE40, REMOP, R100, R101, R110, R111, R14, 115, M116, 300, 301....	5	1.00	1096—R206, A207, R204A, R110, 102A, 104A, R116A, R218A, 209, 210, 208, 223A....	8	2.25	*1124—R32, R35, E35, RE45, R52, R75, E135, E152, RE154, RE156	9	1.75	
*1088—Pt. 8558, RE20, Victor R35, R39, RE57, RE73, 46, R50, R55, RA259, 62, 61, 66, 67, RA268, RA279, 80, 82, 86....	10 1/2	2.00	*1398—Pt. 85119, R232, R131....	6 1/2	1.50	*1447—6K.....	6 1/2	1.50	
*1313—Pt. 8969, R24A, R60P, 140, 140E, 141, 111E, 220, 222, 210, 212, 261, 262, 263, 280, 321, 327, 330, 331, 410, 340E, 311, 380, 38011R....	10 1/2	1.50	1456—R273.....	8	2.25	*1490—6J.....	6 1/2	1.50	
*1091—Pt. 9023, 34, M105....	5	1.00	UTAH			AUTOMOBILE SPEAKER CONES			
1225—Pt. 9438, Pt. 9192, R37, R37P, R38, R38P, 112, 121, 122, 124, 126H, 310, 320, 241B, M107, 118, M123, ACR116....	6 1/2	1.00	1117—Large Cub No. 2, 2 Pt. Spider, used in: Airlite 45, 47, 49, 52, 70, 72, 76, 79, 81, 91, 62-120, 62-122, 61-126, 62-128; Crosley 121....	7%	2.25	Our No.	MODEL	O.D.	List
			1118—Large Cub No. 3, 3 Pt. Spider, used in: Airlite 45, 47, 49, 52, 70, 72, 76, 79, 84, 94; Chevrolet 600249; Apex 7D, 12B; Good-year 880; Zenith 210, 215, 216, 220, 230, 250, 260, 272, 475, 760, 970	7%	2.25	1464—Buick, Olds, Pontiac 980585...	6 1/2	1.50	

UNIVERSAL FIELD COILS



The Carron Universal Field Coil has been developed to permit servicing countless speakers for which there is no exact duplicate coil listed. The thirty-one coils listed here cover the majority of speaker sizes and resistances.

In the design of a universal field certain requirements must be met: The winding must be physically close to the original. We have allowed a maximum variation of 1/8 inch spacing from coil to core, a variation in width of 1/8 inch; and we suggest that the universal coil selected should have a diameter as close to the original as possible—1/8 inch smaller is the limit for safe operation. Two equal windings are used rather than taps which would reduce the number of amperes turns available and also cause serious heating. All of the wire in Carron universal field coils is in use at all times.

Two resistance ranges are possible. One with the windings in parallel and the other with the windings connected in series. Since a change of field resistance will disturb the operating voltages in the circuit, we have chosen a working range that is conservative, plus or minus 10%. In some cases this range could be increased, but for best results it represents the safe limit. To allow the ranges stated, it is necessary that each Carron Universal field Coil be wound and tested for exactly the mean resistance for each range.

Carron Field Coils should be selected from the following table. Check maximum and minimum dimensions carefully. Spacing washers and tubes are furnished to permit fitting the coils to the speaker. Complete directions furnished with each coil.

Cat. No.	Pole Piece		Length		Parallel Resistance	Series Resistance	List Price	Cat. No.	Pole Piece		Length		Parallel Resistance	Series Resistance	List Price	
	Min.	Max.	O.D.	Min.					Max.	Min.	Max.	O.D.				Min.	Max.
U300	3/4	1	2	3/4	1	1000	\$1.50	U306C	3/4	1	2 1/4	1 1/2	675-825	2700-3300	\$3.10	
U301	3/4	1	2	3/4	1	1500	1.50	U306D	3/4	1	2 1/4	1 1/2	900-1000	3600-4400	3.10	
U302	3/4	1	2	3/4	1	2000	1.50	U306E	3/4	1	2 1/4	1 1/2	1125-1375	4500-5500	3.10	
U303	3/4	1	2	3/4	1	2500	1.50	U307A	1 1/4	1 1/2	2 1/4	1 1/2	375-460	1500-1800	3.10	
U304	3/4	1	2	3/4	1	3000	1.50	U307B	1 1/4	1 1/2	2 1/4	1 1/2	560-690	2250-2750	3.10	
U309	3/4	1	2	3/4	1	450	1.50	U307C	1 1/4	1 1/2	2 1/4	1 1/2	675-825	2700-3300	3.10	
U311	1 1/4	1 3/4	1 3/4	5/8	7/8	450	1.00	U307D	1 1/4	1 1/2	2 1/4	1 1/2	900-1100	3600-4400	3.10	
U312	1 1/4	1 3/4	1 3/4	5/8	7/8	1000	1.00	U307E	1 1/4	1 1/2	2 1/4	1 1/2	1125-1375	4500-5500	3.10	
U313	1 1/4	1 3/4	1 3/4	5/8	7/8	1500	1.00	U308A	1 1/4	1 1/2	2 1/4	1 1/2	375-460	1500-1800	3.10	
U314	1 1/4	1 3/4	1 3/4	5/8	7/8	2000	1.00	U308B	1 1/4	1 1/2	2 1/4	1 1/2	560-690	2250-2750	3.10	
U315	1 1/4	1 3/4	1 3/4	5/8	7/8	2500	1.00	U308C	1 1/4	1 1/2	2 1/4	1 1/2	675-825	2750-3300	3.10	
U316	1 1/4	1 3/4	1 3/4	5/8	7/8	3000	1.00	U308D	1 1/4	1 1/2	2 1/4	1 1/2	900-1100	3600-4400	3.10	
U305A	1-1 1/4	2 1/2	1 1/2	1 1/2	1 3/4	375-460	1500-1800	3.10	U308E	1 1/4	1 1/2	2 1/4	1 1/2	1125-1375	4500-5500	3.10
U305B	1-1 1/4	2 1/2	1 1/2	1 1/2	1 3/4	560-690	2250-2750	3.10	U310A	1 1/4	1 1/2	2 1/4	1 1/2	375-460	1500-1800	3.10
U305C	1-1 1/4	2 1/2	1 1/2	1 1/2	1 3/4	675-825	2700-3300	3.10	U310B	1 1/4	1 1/2	2 1/4	1 1/2	560-690	2250-2750	3.10
U305D	1-1 1/4	2 1/2	1 1/2	1 1/2	1 3/4	900-1100	3600-4400	3.10	U310C	1 1/4	1 1/2	2 1/4	1 1/2	675-825	2700-3300	3.10
U305E	1-1 1/4	2 1/2	1 1/2	1 1/2	1 3/4	1125-1375	4500-5500	3.10	U310D	1 1/4	1 1/2	2 1/4	1 1/2	900-1100	3600-4400	3.10
U306A	1-1 1/4	2 1/2	1 1/2	1 1/2	1 3/4	375-460	1500-1800	3.10	U310E	1 1/4	1 1/2	2 1/4	1 1/2	1125-1375	4500-5500	3.10
U306B	1 1/4	1 1/2	2 1/4	1 1/2	1 1/2	560-690	2250-2750	3.10								

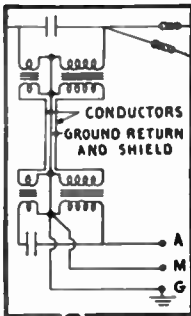
Make a
Good Connection

Belden

THE RADIO WIRING LINE



Belden Clear Channel* Antenna System



**There is no Substitute
for an Outside Antenna**

Belden iron core transformer couplers and Belden low loss transmission lines are incorporated in these unusually effective antenna systems. This Belden engineered design produces clear channel reception with *maximum efficiency* in all frequencies from 400 to 22,000 kilocycles with *no dead spots*.

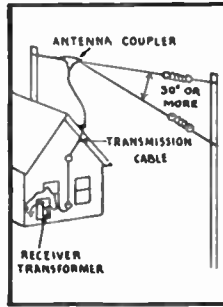
Engineered to operate efficiently with lengths of transmission cable 8209 up to 200 feet.

Belden Clear Channel Receiver Coupler

8101—Belden Clear Channel Double Iron Core Receiver Coupler as furnished with 8300 Antenna System. As many as four receivers will operate off one of these systems without noticeable decrease in signal strength. One of the couplers should be used at each set. Connect with Belden 8209 shielded transmission line in parallel at incoming posts of original coupler.

8101..... List price **\$1.90**

* Licensed under one or more of the following AAK, Inc., Pats.: Re 19854, 1920162, 1938092, and 2002844 and Belden Pats. Pending. The couplers in these units are not licensed for use where a single antenna supplies more than one individual home.



8300 Twisted Pair Shielded Transmission Line Type

—“L” antenna plus additional half doublet antenna for maximum short wave response. Shielding on transmission line also provides ground for “L” antenna and eliminates need for lightning arrester. Completely assembled —in display carton.

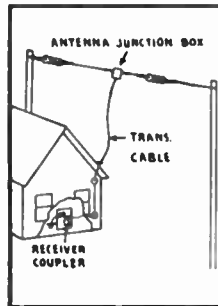
Contents:

- | | |
|--|--|
| 1—60' Coil 7 x 22 Beldenamel Aerial Wire 8005 | 1—Double Iron Core Receiver Transformer 8101 |
| 1—25' Coil 7 x 22 Beldenamel Aerial Wire 8005 | 1—25' Coil 18 Stranded Ground Wire |
| 1—50' Coil Shielded Twisted Pair Transmission Cable 8209 | 2—Porcelain Nail-on Knobs 8102 |
| 1—Double Iron Core Antenna Coupler | 1—7" Stand-off Insulator 8104 |
| | 2—Porcelain Insulators |
| | 1—Ground Clamp 8897 |
| | 1—Instruction Sheet |

8300..... List price each **\$8.35**

8302 Standard Doublet Type

—with iron core receiver coupler. Completely assembled in attractive display carton.



Contents:

- | | |
|---|--|
| 2—30' Coils 7 x 24 Bare Copper Aerial Wire 8002 | |
| 1—45' Coil Twisted Pair Transmission Wire 8205 | |
| 1—Antenna Junction Box | |
| 2—Porcelain Insulators 8103 | |
| 1—Receiver Impedance Matching Coupler | |
| 1—25' Coil 18 Stranded Ground Wire | |
| 1—7" Stand-off Insulator 8104 | |
| 2—Porcelain Nail-on Knobs 8102 | |
| 1—Instruction Sheet | |

8302..... List price each **\$4.00**

Belden Underwriters' Approved Power Line Filters

8100—Deluxe Power Line Filter—effectively prevents power line interference. Has two dual condenser sections and two dual high “Q” choke coils. Eliminates man-made static on both broadcast and short wave bands. Efficient with all types of receivers. Ground is provided by three-wire power supply cord eliminating possibility of shock from case. Rating: 115 volts, 3 amperes.



8100..... List price each **\$9.50**

★**8105**—Standard Power Line Filter—has dual special high capacity low inductance condenser section. Otherwise similar to 8100. Effectively eliminates “back door” interference in practically all installations. Rating: 115 volts, 3 amperes.

★**8105**..... List price each **\$5.00**

* New number
All prices subject to change without notice

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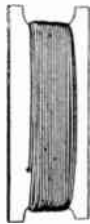
Belden ★ AERIAL KITS—AERIAL WIRE—ACCESSORIES

Belden Broadcast Aerial Kits Wire and accessories for complete installation







- ★**8303**—Contents: List price each **\$0.70**
 1—50' 7 x 26 Bare Copper Aerial 8003
 1—Type "C" Ground Clamp 8897
 1—25' 18 Stranded Lead-in
 2—Porcelain Nail-on Knobs 8102
 2—Porcelain Insulators 8103
- 8304**—Contents: List price each **\$1.75**
 1—75' 7 x 22 Beldenamel 8005
 1—35' 16 Stranded Lead-in
 1—Arrester 8896
 1—Type "C" Ground Clamp 8897
 1—12" Lead-in Strip 8890
 2—3" Glass Insulators 8814
 2—Porcelain Nail-on Knobs 8102
 2—Galvanized Screw-eyes
 1—Instruction Sheet
- 8305**—Contents: List price each **\$1.60**
 1—75' Coil 7 x 22 Bare Copper Aerial 8000; otherwise same as 8304
- 8307**—Contents: List price each **\$1.15**
 1—75' 7 x 24 Bare Copper Aerial 8002
 1—25' 18 Stranded Lead-in
 1—Arrester 8896
 1—Type "C" Ground Clamp 8897
 2—Porcelain Nail-on Knobs 8102
 2—Porcelain Insulators 8103
 1—Instruction Sheet
- 8309**—Contents: List price each **\$0.85**
 1—50' Coil 7 x 26 Bare Copper Aerial 8003; otherwise same as 8307

Belden Indoor Aerial Wire Extra Flexible

Number	Length in Feet	List Price Each	Description
★ 8015	18	\$0.13	23 (20 x 36) double wrap of brown cotton on card
	1000	.004'	on spool
Non-Kinking—for A-C—D-C Sets			
8014	25	.23	23 (20 x 36) a wrap and a braid of brown cotton, on card
8014	1000	.01'	on spool



Belden Arresters—Ground Clamps

-  **8950**—Doublet air gap type porcelain arrester. List price each... **\$0.35**
-  **8896**—Belden standard size bakelite resistor type arrester dissipates destructive charges induced in the aerial system. Listed as standard by Underwriters'. Furnished with \$100.00 guarantee. List price each... **\$0.23**
-  **8891**—Belden large size arrester; otherwise same as 8896. List price each... **\$0.40**
-  **8892**—Biter type ground clamp—8 1/4" long. List price each... **\$0.115**
-  **8897**—"C" type ground clamp. Fits pipe up to 1 3/4". List price each **\$0.10**
-  **8104**—6" Stand-off insulator. List price each... **\$0.065**

Belden Aerial Wire Full Gauge and Weight

Unit Package indicated as follows: c=coil d=carton s=spool

Stranded Bare Copper

Number	Length in Feet	Size and Unit	List Price Each
8000	50	7 x 22 c	\$0.37
8000	75	7 x 22 c	.54
8000	100	7 x 22 c	.71
8000	1000	7 x 22 s	7.10
8001	50	7 x 23 c	.31
8001	75	7 x 23 c	.44
8001	100	7 x 23 c	.58
8001	1000	7 x 23 s	5.80
8002	50	7 x 24 c	.26
8002	75	7 x 24 c	.37
8002	100	7 x 24 c	.48
8002	1000	7 x 24 s	4.80
8003	50	7 x 26 c	.19
8003	75	7 x 26 c	.26
8003	1000	7 x 26 s	3.45
8004	500	7 x 20 s	5.50

Stranded Tinned Copper

8010	100	7 x 22 c	.84
8010	1000	7 x 22 s	8.40

Stranded Beldenamel

8005	75	7 x 22 d	.74
8005	100	7 x 22 d	.98
8005	150	7 x 22 d	1.45
8005	1000	7 x 22 s	9.55
8006	100	7 x 20 d	1.65
8006	1000	7 x 20 s	16.00








Solid Beldenamel

8007	500	10 s	8.75
8008	100	12 d	1.18
8008	500	12 s	5.70
8009	100	14 d	.80
8009	500	14 s	3.75

Solid Tinned Copper (Bus Bar Wire)

8011	500	12 s	5.80
8012	500	14 s	3.75
8013	500	16 s	2.75
8017	500	18 s	1.65
8018	500	20 s	1.15

Belden Lead-in Strips—Insulators

-  **8890**—12" Single lead-in strip—rubber insulation—clips both ends. List price each... **\$0.10**
-  **8811**—15" Single lead-in strip—rubber insulation—clips both ends. List price each... **\$0.125**
-  **8812**—12" Single lead-in strip. Lacquered braid—clips both ends. List price each... **\$0.075**
-  **8813**—12" Double lead-in strip. Lacquered braid—clips both ends. List price each... **\$0.165**
-  **8814**—Glass insulators 3" over-all length. List price pair... **\$0.175**
-  **8102**—Porcelain Nail-on Knobs. List price each... **\$0.04**
-  **8103**—Porcelain insulators 2 3/4" over-all length. List price each **\$0.045**

★New Number

All prices subject to change without notice

Belden ★ TRANSMISSION LINE CABLES

These Transmission Cables will meet the requirements for all the frequencies in the audio to and including the television or frequency modulation range.

72 Ohm Coaxial Cables

Designed for use as antenna receiving or transmitting cables; also for photoelectric or other circuits where characteristics fit the application.



15 Solid tinned, low loss rubber compound, tinned copper shield, tough vulcanized rubber sheath. O.D. = .435"



12 Solid tinned, low loss insulating bead, tinned copper shield, vulcanized rubber sheath. O.D. = .485"

Number	Length in Feet on Spool	List Price Each	Frequency (Kilo-cycles)	Surge Impedance (Ohms)	Power Factor (Per Cent)	Capacity Bel. Condrs. (mmf. Per Ft.)	D. B. Loss Per 100 Ft.	Q Value	Min. Punct. Volt.	Max. Load Capacity (Watts)
8216	50c†	\$0.13'	100	67.8*	.69	28.0	.031	145.	40000	1000
			1500	69.3*	.68	26.8	.225	148.		
	500c†	.13'	10000	70.0*	.73	26.3	1.030	136.		
			40000	70.2*	.50	25.9	2.240	203.		
8217	50c†	.50'	100	73.6*	.068	17.6	.057	1475.	3000	2000
			1500	73.9*	.060	17.7	.134	1670.		
	100c†	.50'	10000	75.8*	.060	16.6	.377	1665.		
			40000	77.0*	.060	15.9	.620	1607.		
			100000	77.8*	.060	15.0	1.06	1607.		

100 Ohm Twisted Pair

For Television or Frequency Modulation (FM)

18 Stranded tinned, celanese braid, rubber covered, color coded, twisted pair with fillers, celanese wrap, rubber sheath. O.D. = .270"



18 Stranded tinned, celanese braid, rubber covered, color coded, twisted pair with fillers, celanese wrap, tinned copper shield, cotton wrap, rubber sheath. O.D. = .350"

Number	Length in Feet on Spool	List Price Each	Frequency (Kilo-cycles)	Surge Impedance (Ohms)	Power Factor (Per Cent)	Capacity Bel. Condrs. (mmf. Per Ft.)	D. B. Loss Per 100 Ft.	Q Value	Min. Punct. Volt.	Max. Load Capacity (Watts)
★8218	500†	.08'	100	105.*	1.51	18.5	.048	66.3	10000	250
			1500	107.*	1.73	18.0	.270	57.8		
			10000	113.*	1.80	16.0	1.399	55.5		
			40000	106.*	2.27	18.2	5.800	45.0		
			100000	106.*	2.27	18.5	13.190	45.0		
★8219	500†	.14'	100	90.*	2.18	25.5	.060	45.9	10000	250
			1500	90.*	1.75	25.5	.326	57.1		
			10000	93.*	1.77	23.5	1.367	56.5		
			40000	92.*	2.01	24.5	6.180	50.3		
			100000	90.*	2.05	25.5	14.530	49.3		

Transmitting Line Cable



E01 Type. 12 Solid, cellophane wrap .035" rubber, twisted pair, over-all cotton braid, weather-proofed.

Number	Length in Feet on Spool	List Price Each	Frequency (Kilo-cycles)	Surge Impedance (Ohms)	Power Factor (Per Cent)	Capacity Bel. Condrs. (mmf. Per Ft.)	D. B. Loss Per 100 Ft.	Q Value	Min. Punct. Volt.	Max. Load Capacity (Watts)
8210	100c	.055'	100	72.0*	3.08	31.3	.045	32.5	20000	2000
			1500	73.7*	2.16	29.7	.463	46.3		
8210	500†	.055'	10000	73.7*	2.53	29.7	2.230	39.5		
			40000	73.0*	1.12	29.7	6.300	89.0		
			100000	73.0*	1.12	29.7	10.450	89.0		

72 Ohm Twisted Pair For Broadcast and Short Wave



For the majority of all-wave receivers and of any half-wave di-pole antenna. 18 Stranded tinned, cotton wrap, low capacity rubber, color coded, twisted pair, over-all white cotton braid, weather-proofed.

Number	Length in Feet on Spool	List Price Each	Frequency (Kilo-cycles)	Surge Impedance (Ohms)	Power Factor (Per Cent)	Capacity Bel. Condrs. (mmf. Per Ft.)	D. B. Loss Per 100 Ft.	Q Value	Min. Punct. Volt.	Max. Load Capacity (Watts)
8204	75c	1.93	100	66.4*	1.29	34.5	.062	10000	250	
			1500	67.7*	1.42	33.5	.357			
8204	500†	.025'	10000	68.4*	1.93	32.5	2.11			
			40000	68.9*	2.02	31.9	6.25			
			100000	69.6*	2.00	31.0	15.600			

Shielded Twisted Pair



Recommended for lead-ins where interference is great. 18 Stranded tinned, cotton wrap, rubber covered, color coded, twisted pair; paper wrap and tinned copper shield over twisted pair—over-all white cotton braid; weather-proofed.

Number	Length in Feet on Spool	List Price Each	Frequency (Kilo-cycles)	Surge Impedance (Ohms)	Power Factor (Per Cent)	Capacity Bel. Condrs. (mmf. Per Ft.)	D. B. Loss Per 100 Ft.	Q Value	Min. Punct. Volt.	Max. Load Capacity (Watts)
8209	75c	3.65	100	75.5*	1.29	24.2	.052	10000	250	
			1500	76.8*	1.42	23.4	.270			
8209	500†	.05'	10000	77.7*	1.93	22.7	1.720			
			40000	77.7*	1.83	22.3	4.350			
			100000	79.2*	1.83	21.7	11.100			

Commercial Type Twisted Pair



22 Stranded tinned, paper wrap, rubber covered, color coded, twisted pair, over-all black cotton braid, weather-proofed.

Number	Length in Feet on Spool	List Price Each	Frequency (Kilo-cycles)	Surge Impedance (Ohms)	Power Factor (Per Cent)	Capacity Bel. Condrs. (mmf. Per Ft.)	D. B. Loss Per 100 Ft.	Q Value	Min. Punct. Volt.	Max. Load Capacity (Watts)
8205	500†	.017'	100	92.5	5.74	23.8				
			1500	95.8	3.88	22.3				
			10000	96.0	3.63	21.3				

Signal Generator Cable

15 Stranded, low capacity rubber, rayon braid, tinned copper shield, over-all glazed cotton braid lacquered. O.D. = .160"

Number	Length in Feet on Spool	List Price Each	Frequency (Kilo-cycles)	Surge Impedance (Ohms)	Power Factor (Per Cent)	Capacity Bel. Condrs. (mmf. Per Ft.)	D. B. Loss Per 100 Ft.	Q Value	Min. Punct. Volt.	Max. Load Capacity (Watts)
8211	50	.05'	100	25.4	2.2	93.5				
			1500	25.6	1.96	91.5				
			10000	25.7	2.8	90.7				

*New number *Values of surge impedance may vary ± 10% from the nominal 72 ohm or 100 ohm values †Length may vary ± 10% c-Coil
All prices subject to change without notice

Belden ★ ★ ALL-RUBBER LEAD-IN WIRE

All-Rubber Lead-in Wire



Easy stripping—easy soldering. All made of 7 strands of tinned copper wire with extra thick rubber sheath as indicated. (.031" = 1/32")

Number	Length in Ft. on Spool	List Price each	Size	Rubber Thickness	Outside Diameter of Wire
8213	500	\$0.005'	20	.031"	.100"
8213	1000	.005'	20	.031"	.100"
8200	100	.007'	18	.040"	.129"
8200	500	.007'	18	.040"	.129"
8200	1000	.007'	18	.040"	.129"
8201	50	.009'	16	.040"	.140"
8201	100	.009'	16	.040"	.140"
8201	250	.009'	16	.040"	.140"
8201	500	.009'	16	.040"	.140"
8201	1000	.009'	16	.040"	.140"
8202	50	.015'	14	.047"	.174"
8202	250	.015'	14	.047"	.174"

Belden Shielded Lead-in Wire



Size 16 Stranded, rubber thickness indicated, tinned copper shield. For any audio or radio frequency circuits.

Number	Length in Ft. on Spool	List Price Each	Rubber Wall	Frequency (Kc.)	Surge Impedance (Ohms)	Power Factor (Per Cent)	Maximum Capacity mmf. per Ft.
8206	50'	\$0.025'	1/32"	100	33.0	2.0	64.5
8206	250'	.025'		1500	33.5	1.78	63.0
				10000	33.8	1.52	62.0
8207	250'	.03'	4/64"	100	68.9	2.88	57.5
				1500	70.0	2.44	55.0
				10000	73.2	2.12	50.5

Belden Terminals



Tinned—easy to solder—packed in clearview cartons that are easy to stock and handle.

Screw Size	8	10	8	7	8
Number	8995	8996	8997	8998	8999
List Price	\$0.40C	\$0.40C	\$0.63C	\$0.40C	\$0.40C

Belden Terminal Assortment



8994—100 Assorted Belden Terminals in clearview carton. Includes:
 20—8995 25—8997 35—8999
 10—8996 10—8998

8994—List price \$0.63C

Belden A-C—D-C Resistance Cords



To determine the proper a-c—d-c line cord, add the filament voltages of the individual tubes in the receiver. From the chart below, select the nearest figure under the heading SUM OF TUBE VOLTAGES in the column headed by the available powersupply. Length 6 ft. Size 18.

Number	List Price each	Resistance (Ohms)	Color Marker	Voltage Drop at 0.3 Amps.	Sum of Tube Voltages		
					110V	115V	120V
8920	\$0.60	135	Olive	40.5	69.5	74.5	79.5
8921	.60	165	Maroon	49.5	60.5	65.5	70.5
8976	.60	180	Orange	54	56	61	66
8929	.60	220	Blue	66	44	49	54
8977	.60	250	Grey	75	35	40	45
8922	.60	290	Black	87	23	28	33
8923	.60	330	Brown	99	11	16	21

NOTE: Where other line voltages than those shown above must be used, subtract sum of tube voltages from available power supply. The nearest figure in voltage drop column will indicate proper a-c—d-c cord to use.

Universal A-C—D-C Resistance Cord

Replaces any resistance line cord on A-C—D-C receivers which employ tubes drawing 0.3 ampere. Provides resistances in steps from 22 to 330 ohms. Instructions with each cord. One cord services all jobs.

★8107..... List price each \$1.50

Belden Replacement Cords for Radios, Lamps, Small Appliances



Consists of Belden Extra Flexible All-Rubber Lamp Cord with Belden Unbreakable Soft Rubber Plug; opposite end stripped and tinned—ready for easy attachment.

1725—7 1/2' ft. brown only. List price each \$0.28

Belden Extension Cord with Belden Soft Rubber Service Block



Both ends unbreakable rubber—can't mar floors or furniture—safe for use on table tops. Underwriters' Blue Label.

★1701—10 ft. brown only. List price each \$0.70

Belden Head Phone and Magnetic Speaker Cords

5 Foot cords of extra flexible moisture-proof rubber covered tinsel cord, over-all durable mercerized brown cotton braid. "Y" arm sections additional 15", coupled in series.



8872—Head phone set pin tips all ends. List price each \$0.78

8873—Head phone set spade tips—4 phone ends, pin tips plug end. List price each \$0.78

8870—Magnetic speaker cord—pin tips both ends. List price each \$0.55

8871—Magnetic speaker cord—pin tips 1 end, spade tips opposite end. List price each \$0.55



★ New number

All prices subject to change without notice

Belden ★ MICROPHONE CABLE, Shielded, Rubber Sheathed



Use **8400** and **8401** for ribbon or crystal and single button carbon microphones—or low impedance transmission lines. Belden-developed low capacity rubber core and combination stranding of tinned copper and phosphor bronze wire give extra flexibility plus unusual tensile strength.

Use **8421** with heavier copper stranding where very low capacity is not essential.

8411—For lapel microphones.

8431—For phonograph pick-ups—(over-all cotton braid.)

Number	Length in Ft. on Spool	List Price Per Ft.	Number of Conductors	Size	MAXIMUM CAPACITY MMF PER FT.		
					Between Conductor and Shield	Between Conductors	Outside Diameter
8400	100	\$0.065	1	26	29		.215"
8400	500†	.065	1	26	29		.215"
8401	100	.075	1	26	25		.245"
8401	500†	.075	1	26	25		.245"
8421	100	.06	1	20	44		.260"
8421	500†	.06	1	20	44		.260"
8411	100	.045	1	26	35		.155"
★ 8431	100	.03	1	20	55		.160"



For single or multiple cell microphone, photoelectric cells and dual carbon microphone circuits wherein the shield may be employed as a common conductor, usually at ground potential.

Two Conductor—Crystal Microphone

8402	100	.10	2	26	32	16	.245"
8402	500†	.10	2	26	32	16	.245"



For double-button carbon microphone circuits using the shield as the grounded connection and for low impedance, 50 to 500 ohm transmission lines—or for coupling a pre-amplifier to a power amplifier, employing the shield as a ground.

Two Conductor—Carbon Microphone

8422	100	.07	2	20	70	37	.280"
8422	500†	.07	2	20	70	37	.280"
8422	1000†	.07	2	20	70	37	.280"



For double-button carbon microphones feeding a mixer panel or circuits in which the diaphragm of the microphone must be above ground potential, yet shielded from transient fields.

For double-button carbon microphone circuits in which the attenuation control is located at the microphone and employs two of the four conductors of the cable.

For condenser microphone transmission line and power supply to microphone head amplifier.

For condenser microphone circuit with remote control switch or pilot light at microphone.

For auto-radio test instruments and acid resisting analyzer cable.

Three to Seven Conductor

8423	100	.075	3	20	65	37	.280"
8423	500†	.075	3	20	65	37	.280"
8424	100	.10	4	20	67	35	.325"
★ 8424	500†	.10	4	20	67	35	.325"
8425	100	.12	5	20	58	30	.380"
★ 8425	500†	.12	5	20	58	30	.380"
8426	100	.14	6	20	60	27	.410"
8427	100	.17	7	20	56	26	.430"



For temporary indoor installations of low impedance or carbon microphone transmission circuits. 20 (Stranded tinned), paper wrap, 1/64" rubber, color coded treated cotton braid, cabled, with tinned copper shield over all.

Shielded—Without Rubber Sheath

8432	100	.045	2	20	61	33	.215"
8432	500†	.045	2	20	61	33	.215"
8433	100	.055	3	20	55	30	.240"
8433	500†	.055	3	20	55	30	.240"
8434	100	.065	4	20	48	25	.270"

★New Number †Length may vary ± 10%

All prices subject to change without notice

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40 (Full Unit Quantity)

Q-5

Belden * MULTIPLE CONDUCTOR CABLE

Rubber Sheathed

For use as "A" battery lead wire. Size 10 (105x30 tinned) acid resisting rubber sheath. COLORS: red or black.

Number	Length in Ft. on Spool	List Price per ft.	No. Conductors	Thickness Rubber Sheath	Outside Diameter
8451	100	\$0.055	1	.047"	.240"



For permanent magnet dynamic speakers and general power supply cable. 18 (41x34) cotton wrap, 1/64" rubber, color coded, cabled with fillers, cotton wrap—over-all rubber sheath.

8452	100	.035	2	.035"	.245"
8452	500†	.035	2	.035"	.245"



Brown parallel all-rubber lamp cord for test equipment requiring power line connection. 18 (41x34), cotton wrap, 1/64" rubber.

8462	100	.02	2	1/64"	.120"x.225"
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For electro-dynamic speakers in which one audio circuit serves also as the return lead of the field supply and for speakers with a center-tapped input transformer requiring a three conductor cable. Construction same as 8452.

8453	100	.045	3	.040"	.265"
8453	500†	.045	3	.040"	.265"

Rubber Sheathed (Cont'd)

For four-wire a-c or electro-dynamic speaker lines. Two 18 (41x34) balance 20 (10x30). Size 18 wires—for lower resistance—ideal for speaker field or other heavy applications.

Number	Length in Ft. on Spool	List Price per ft.	No. Conductors	Thickness Rubber Sheath	Outside Diameter
8454	100	\$0.06	4	.040"	.260"
8454	500†	.06	4	.040"	.260"

For center-tapped push-pull dynamic speakers requiring an independent field supply circuit. Construction same as 8454.

8455	100	.075	5	.050"	.320"
8455	250†	.075	5	.050"	.320"

Over-all Glazed Cotton

Abrasion-proof "Basket-Weave" Braid



For permanent installation of speakers, remote control equipment, and multiple circuit, 500-ohm transmission lines.

Number	Length in Ft. on Spool	List Price per ft.	No. Conductors	Description	Outside Diameter
8443	100	\$0.03	3	20 (stranded tinned)	.190"
8443	500†	.03	3	paper wrap .020 rubber, color coded, cabled, over-all brown braid.	.190"
8444	100	.035	4		.210"
8444	500†	.035	4		.210"
8445	100	.045	5		.230"
8445	500†	.045	5		.230"

For use where high current must be carried with a low potential drop.

8446	100	.06	6	2—16 (stranded tinned) 1/32" rubber	.290"
8447	100	.07	7	balance, 20 (stranded tinned). Otherwise same as 8443.	.310"
8448	100	.09	8		.370"
8449	100	.10	9		.400"

PA AND COMMUNICATING SYSTEM CABLES

Twisted Pair Type For Inside Use



Individual conductors, 22 concentric stranded tinned, cotton wrap, color coded cotton braid waxed, twisted pairs, cabled, over-all braid coated with cable lacquer or paint.

Number	Length in Ft. on Spool	List Price per ft.	No. Conductors	O.D.
★8701	500†	\$0.025	2 (1 pr.)	.135"
★8705	500†	.085	10 (5 pr.)	.350"
★8707	500†	.115	14 (7 pr.)	.405"
★8713	500†	.23	26 (13 pr.)	.600"
★8719	500†	.33	38 (19 pr.)	1.2"

Shielded Twisted Pair Type For Inside Use



19 Solid, double enameled, wrap cotton, color coded cotton braid waxed, twisted pair, over-all bare copper shield.

8799	100	.035	2	.145"
8799	500†	.035	2	.145"

Twisted Pair Type For Inside or Outside Use



19 Solid tinned, 1/32" rubber, color coded cotton braid, waxed, tinned copper shield on one conductor, cabled with fillers, cotton braid, weather-proofed.

Number	Length in Ft. on Spool	List Price per ft.	No. Conductors	O.D.
8773	500†	\$0.055	2 (1 plain) (1 shielded)	.315"
8774	500†	.07	3 (2 plain) (1 shielded)	.380"

Armored Speaker Cable



18 Stranded tinned color coded cotton wrap, 2-conductors parallel, 1/64" rubber, paper wrap, over-all tinned steel armor.

8212	250†	\$0.045	2	.155"
8212	500†	.045	2	x
★8212	1000†	.045	2	.260"

8204—Unshielded Twisted Pair—See page 3.
8209—Shielded Twisted Pair—See page 3.

†Length may vary ± 10% ★New number

All prices subject to change without notice

Belden ★ MAGNET WIRE — LITZ WIRE — AUTO-RADIO WIRE

Belden Magnet Wire Beldenamtel

Size	Turns per Linear Inch	Turns per Square Inch	Approximate Length in Feet				List Price Each
			25c List Spool	¼ lb. Spool	½ lb. Spool	1 lb. Spool	
14	14.7	217	20		39	\$0.45	
16	18.6	345	30		60	.45	
18	23.2	540	50		100	.45	
20	29.2	851	75		160	.48	
22	36.5	1330	120		250	.48	
24	45.7	2090	175		400	.50	
26	57.8	3340	250		635	.55	
28	71.9	5170	340	505	\$0.34 1010	.60	
30	89.0	7920	430	805	.38 1610	.67	
32	110.7	12260	600	1275	.41 2550	.72	
34	140.2	19650	800	2030	.48		
36	175.6	30840	900	3220	.55		
38	219.0	47970	900	5120	.72		
40	282.5	79810	900	8140	1.08		

Double Cotton Covered — White

14	13.3	176	20		39	\$0.48
16	16.2	262	30		60	.50
18	19.6	386	40		95	.53
20	23.6	556	55		150	.55
22	29.0	840	75		235	.57
24	34.3	1175	100		360	.65
26	40.2	1620	150	280	\$0.43	
28	46.6	2170	175	430	.48	
30	53.2	2835	200	645	.53	
32	59.7	3570	220	965	.62	
34	67.2	4510	250	1350	.81	
36	76.1	5790	275	1675	1.00	

Double Silk Covered — White

18	22.1	490	25	50	\$0.41 100	\$0.69
20	27.3	745	35	80	.43 160	.79
22	34.0	1153	55	125	.46 250	.79
24	41.5	1719	75	195	.50 395	.88
26	50.8	2576	100	310	.57 620	1.03
28	62.1	3853	120	490	.67	
30	75.0	5620	140	765	.81	
32	87.8	7710	165	1190	1.07	
34	100.5	10095	175	1785	1.60	
36	113.3	12842	200	2685	2.10	

Belden Litz Wire

For rewinding antenna primaries and for hand wound amateur r-f coils up to 30 megacycles.

8817	— 100 Ft. spool 7 x 41 Beldenamtel with 2 wraps of tram silk. List price	\$0.004'
8818	— 100 Ft. spool 10 x 41 Beldenamtel with 2 wraps of tram silk. List price	\$0.004'

Replacement Wires for Test Prods

The outstanding feature of this wire is its limpness. 18 Stranded, tinned, 3/64" rubber.

8899	— 100 Feet, red or black on spool. List price . . .	\$0.02'
8899	— 14 Feet — Seven feet each color, red and black wound parallel on spool. List price each	\$0.40

Shielded Fabric Loom



8657	— 50 ft. 3/16" I.D. in carton. List price	\$0.065'
8658	— 50 ft. 5/16" I.D. in carton. List price	\$0.08'

★New number

All prices subject to change without notice

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Belden Auto-Radio Wires Shielding



Tinned Copper—8661 fits 7 mm. spark plug wires.

Number	Length in Ft. on Spool	List Price	Inside Diameter
8661	50	\$0.045'	3/8"
8661	250	.045'	3/8"
8660	50	.025'	13/64"
8660	250	.025'	13/64"
8662	50	.125'	25/32"
8662	250	.125'	25/32"

Motor Grounding Cable

8659—14" Extra flexible braided copper strap. List price each **\$0.25**

Auto-Radio Shielded Low Capacitance Lead-In Wire



8663—100 Ft. 20 stranded tinned, cotton wrap, low capacity rubber, rayon braid, tinned copper shield over all. Maximum capacity between conductor and shield 33 mmf. O.D.—.225". List price **\$0.05'**

8664—100 Ft. same as 8663 with rubber sheath over-all. O.D.—.290". List price **\$0.07'**

Spark Plug Wires on 100-Ft. Spools

Plain

★8667—7 mm. Belden Pyro-Glaze spark plug wire. List price **\$0.10'**

Shielded



8665—7 mm. Belden Pyro-Glaze spark plug wire with tinned copper shield. List price **\$0.12'**

8666—7 mm. commercial grade spark plug wire with tinned copper shield. List price **\$0.085'**

Automotive Primary Wires

Stranded tinned copper, wrap colored Cellophane, rubber wall, over-all glazed cotton braid lacquered. Colors: 8650 and 8653, orange; 8651 and 8652, red or black.

Number	Length in ft. on Spool	List Price per ft.	Size	Rubber Thickness	O.D.
Plain					
8650	100	\$0.05	12	.031"	.195"
8651	100	.04	14	.027"	.165"
8652	100	.03	16	.022"	.140"
8653	100	.025	18	.015"	.120"

Shielded



Construction same as above, with over-all fine copper shield.

8654	100	\$0.055	12	.031"	.225"
8655	100	.045	14	.027"	.195"
8656	100	.04	16	.022"	.170"

Belden ★ ★ ★ ★ ★ ★ ★ HOOK-UP WIRE

Size 20 special stranded tinned conductors have true concentric lay—giving desirable features of solid wire—yet retaining flexibility. Other stranded constructions are 18 (16x30); 14 (11x30).

Push-Back—Double Braid—Waxed

For filament, plate, screen rectifier, and "B" supply circuits where working voltage does not exceed 500 volts. Tinned copper—Colors: green, blue, red, yellow, and black.

Number	Length in Ft. on Spool	List Price each	Size	At Room Temperature and Humidity			Insulation* Resistance Megohms
				Frequency (Kc.)	Power Factor (Per Cent)	Punct. Voltage at 60 Cycles Q Value	
SOLID							
8830	25C.	\$0.205	20			1400.	9.0
8830	1000	.008'	20				
8866	25C.	.26	18			1400.	9.0
8866	1000	.01'	18				
STRANDED							
8831	25C.	.24	20			1400.	9.0
8831	1000	.009'					
8867	25C.	.29	18			1400.	9.0
8867	1000	.01'					

Rubber Push-Back "Basket-Weave" Rayon Braid

Tinned copper, cotton wrap, .010" rubber, "basket-weave" abrasion-proof rayon braid lacquered. Colors: green, blue, red, yellow, and black.

Number	Length in Ft. on Spool	List Price each	Size	At Room Temperature and Humidity			Insulation* Resistance Megohms	
				Frequency (Kc.)	Power Factor (Per Cent)	Punct. Voltage at 60 Cycles Q Value		
SOLID								
8837	25	.31	20	100	6.78	14.7	6900.	300.
8837	100	.01'		1500	5.00	20.0		
8837	1000	.01'		10000	5.40	18.5		
STRANDED								
8838	25	.34	20	100	6.78	14.7	6900.	300.
8838	100	.01'		1500	5.00	20.0		
8838	1000	.01'		10000	5.40	18.5		

Cellulose Acetate Push-Back "Basket-Weave" Rayon Braid

Tinned copper, heavy wrap cellulose acetate, "basket-weave" abrasion-proof rayon braid lacquered. Colors: green, blue, red, yellow, and black. 8938-500' furnished in red and black only.

Number	Length in Ft. on Spool	List Price each	Size	At Room Temperature and Humidity			Insulation* Resistance Megohms	
				Frequency (Kc.)	Power Factor (Per Cent)	Punct. Voltage at 60 Cycles Q Value		
SOLID								
8941	25	.29	20	100	5.35	20.		
8941	100	.01'		1500	5.29	19.4	1550.	280.
8941	1000	.01'		10000	6.12	16.4		
8945	25	.31	18	100	5.35	20.		
8945	100	.01'		1500	5.29	19.4	1550.	280.
8945	1000	.01'		10000	6.12	16.4		
STRANDED								
8943	25	.31	20	100	5.35	20.		
8943	100	.01'		1500	5.29	19.4	1550.	280.
8943	1000	.01'		10000	6.12	16.4		
8947	25	.36	18	100	5.35	20.		
8947	100	.015'		1500	5.29	19.4	1550.	280.
8947	1000	.015'		10000	6.12	16.4		
8938	25	.53	14	100	5.35	20.		
8938	100	.02'		1500	5.29	19.4	1550.	280.
8938	500	.02'		10000	6.12	16.4		

Special Combinations

Combination packed in transparent dust-proof container includes four 25' coils, 8941 or 8943. Colors: black, red, yellow, green.

Number	Length in Ft. on Spool	List Price each	Size	At Room Temperature and Humidity			Insulation* Resistance Megohms
				Frequency (Kc.)	Power Factor (Per Cent)	Punct. Voltage at 60 Cycles Q Value	
SOLID							
8864	100	1.15	20 (4-25' coils)				
STRANDED							
8865	100	1.25	20 (4-25' coils)				



* New number C—Coil *D.C. Insulation per ft. Immersed in Mercury (Megohms) †Length may vary ±10%

All prices subject to change without notice

Heavy Rubber Push-Back "Basket-Weave" Rayon Braid

Stranded tinned copper. 1/2" rubber, "basket-weave" abrasion proof rayon braid, lacquered. Colors: green, blue, red, yellow, black.

Number	Length in Ft. on Spool	List Price each	Size	At Room Temperature and Humidity			Insulation* Resistance Megohms
				Frequency (Kc.)	Power Factor (Per Cent)	Punct. Voltage at 60 Cycles Q Value	
*8833	25	50.63	18			10000.	500.
*8833	100	.025'	18				
*8833	1000	.025'	18				

R-F Hook-Up Wire

Tinned copper with two specially treated cellulose acetate braids. Colors: green, blue, red, yellow, black, white, brown and orange.

Number	Length in Ft. on Spool	List Price each	Size	At Room Temperature and Humidity			Insulation* Resistance Megohms	
				Frequency (Kc.)	Power Factor (Per Cent)	Punct. Voltage at 60 Cycles Q Value		
SOLID								
8834	25	.48	22	100	1.79	56.	3800.	96000.
8834	100	.015'		1500	2.37	42.		
8841	25	.43	20	10000	2.71	34.		
8841	100	.015'		After 24 hrs. at 100° F. and 90% relative humidity.				
8861	25	.46	18	100	1.92	55.		
8861	100	.015'		1500	2.47	41.	3800.	49000.
8863	25	.53	16	10000	3.07	33.		
8863	100	.02'		After 2 hours in water at 121° F. 9600.				
STRANDED								
8810	25	.50	22	100	1.79	56.	3800.	96000.
8810	100	.02'		1500	2.37	42.		
8839	25	.45	20	10000	2.71	34.		
8839	100	.015'		After 24 hrs. at 100° F. and 90% relative humidity.				
8844	25	.50	18	100	1.92	55.		
8844	100	.018'		1500	2.47	41.	3800.	49000.
8862	25	.57	16	10000	3.07	33.		
8862	100	.02'		After 2 hours in water at 121° F. 9600.				

Colorubber

Stranded tinned copper, .025" rubber, waxed. Colors: green, blue, red, yellow, black and brown. 1000 Ft. spools in black, brown, and red only.

8880	25	.25	20			9000.	400.
8880	100	.007'					
8880	1000	.007'					

Varnished Cambric "Basket-Weave" Rayon Braid

Stranded tinned copper, two wraps varnished cambric tape, "basket-weave" abrasion-proof rayon braid lacquered. Colors: green, blue, red, yellow, and black. 8869 Furnished in red and black only.

8982	25	.45	20			4650.	425.
8982	100	.015'					
8982	1000	.015'					
8869	25	.76	12			4650.	425.

Shielded Grid Wire

Tinned copper, 1/64" rubber, rayon braid lacquered, over-all fine tinned copper shield of 85% coverage. O.D. = .120"

8885	100	.025'	20				
*8885	500†	.025'					

High Tension Corona Resistant for Cathode-Ray Television Tube Leads

Special rubber compound, high heat resisting Pyro-Glaze seal and braid of Belden Fiberglass (pure glass) protect this wire against corona and heat—make it suitable for the high voltages carried in cathode-ray tube television circuits. Color: white. O.D. = .200"

8868	25	2.30	18			15000.	
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AMERICAN RADIO HARDWARE CO., Inc.



INSULATED PHONE TIP JACK

The head is made of insulated material and is supplied with a shoulder washer for a complete insulation. Supplied in three different size heads and available in all colors.

No. 1866 3/8" Head \$1.00 each
 No. 138 7/16" Head .10 each
 No. 1860 9/16" Head .15 each



HEXAGON HEAD TIP JACK

The head is made of hexagon material and is forced into the tip jack to prevent the head from turning loose. Size of head is 7/16" across the flats and is available in all colors.

No. 1828 \$1.12 each



COMBINATION INSULATED BINDING POSTS

This insulated binding post is of new design which accommodate standard banana plugs through the top of the post, a standard phone tip through the side, or as more ordinarily used with a wire through the side. The non removable head is heavily knurled for a firm grip.

No. 143—All colors \$1.15 each



BANANA PLUG OR TIP JACK

Made to take standard phone tips in banana type plugs. Plugs will fit interchangeably. Mounts in a 1/4" hole in panels up to 1/2" thick. Overall length 1 1/8". Supplied complete with shoulder washer and nut.

No. 148 \$1.15 each



MIDGET JACKS

ARHCO Midget Phone Jacks are made of the finest quality brass and are nickel plated with an enduring nickel finish. Noiseless contact is provided by phosphor bronze spring contacts. Mounts in 3/8" diameter hole, in panels up to 5/16" thick.

No. 89 Open Circuit Jack \$0.25 each
 No. 1789 Closed Circuit Jack \$0.30 each

BABY PLUGS AND JACKS

These plugs and jacks are excellent for use in all high frequency transmitters and receivers. Their small size allows them a wide range of uses. The No. 392 plug has a 10/32 threaded shank, a 3/16" hexagon shank and is 3/8" overall. Also available with 3/8" Ameroid Handle in any standard color. The mate to this plug is the No. 394 Jack. It has a hexagon head and a 10/32 threaded shank which will fit in panels up to 1/4" in thickness. Also available with an insulated ameroid head in any standard color.



No. 392 Threaded Shank Plug \$6.50
 No. 393 Plug and Ameroid Handle 10.00
 No. 394 Non-Insulated Jack 6.00
 No. 395 Insulated Jack 10.00

Banana Type Plugs



This type Plug is extensively used on coils and on other plug-in transmitting and laboratory equipment.

No. 1764—6/32 Thread 1" Long \$8.50 per 100
 No. 120—6/32 Thread 1/2" Long \$7.00 per 100
 No. 122—8/32 Thread 1/2" Long \$7.00 per 100

Sr. Solderless Phone Tip



May be used with all our standard type phone tip jacks. Entirely constructed of high grade brass with nickel plated finish. Overall length is 1 1/8".

No. 10 Tip \$6.00 per 100

Jr. Solderless Phone Tip



Fits all standard phone tip jacks such as our No. 137 and No. 138. Made entirely of brass with nickel plated finish. Length overall is 1 1/8". The tip is 3/8".

No. 9 Tip \$5.00 per 100



Split Type Banana Plug

The strong action of the contact prongs eliminates faulty electrical continuity. The hexagonal shape of the body between the tip and the threaded shank facilitates holding of plug while tightening. The our jacks Nos. 136, 125, 148, and 336. The overall length is 1 1/4".

plug fits our jacks Nos. 136, 125, 148, and 336. The overall length is 1 1/4".
 No. 124 \$7.00 per 100

Insulated Solderless Phone Tip



This type Phone Tip is highly recommended on set analyzers, tube testers and all types of laboratory test equipment. Fits all standard tip jacks. A knurled collar is provided which when tightened after inserting the wire thru the barrel, securely clamps the wire and makes soldering unnecessary. The overall length of the plug is 2". The sleeve is 1" Long.

No. 141 12c each



INSULATED BANANA PLUG JACK

Will fit all our standard banana size plugs. Mounts in a 5/16" diameter hole and can be used up to panels 3/8" thick. Overall length 7/8". Available in all colors.

No. 336 \$1.15 each

INSULATED BINDING POST

This type binding post is available in two sizes. Easy identification is made possible by the bright colored head.



Ea.
 146 1/2" Head \$1.10
 147 3/8" Head .08

HEAVY DUTY METAL BINDING POST

This type of binding post is especially designed for high amperage work or for use on test equipment where low resistance connections are imperative.

No. 32 \$10.00 per C

Solderless Insulated Banana Plug

A completely insulated Banana Type Plug to fit all standard Banana Jacks. A one-piece Phosphor Bronze Spring and full length center pin assure good contact and long life. Ameroid barrel is 3/8" long, 3/8" diameter. Available in all colors.

No. 332 12c each

Split Type Banana Plug

Designed to snugly fit a standard type banana jack. Spring action is positive and durable. A set screw is provided in the side of the barrel to secure the wire to the plug without soldering. Length 1-7/16". The plug is 1/2" long. Available in all colors.

No. 331 \$1.15 each

Insulated Banana Plug

A set screw in the side of the barrel secures the wire within the plug without the necessity of soldering. A full length center pin prevents the spring from collapsing. Ameroid sleeves are available in all colors.

No. 131—3/8" Sleeve Overall Length 1 1/8" 12 1/2" c ea.
 No. 131A—1/2" Sleeve. Overall Length 2 1/4" 15c ea.

PHONE TIP PLUG

This solderless phone tip is made to fit our No. 137, and No. 138 Jacks and No. 143 Binding Posts. Tightening the knurled collar produces a perfect electrical connection without the necessity of soldering. The Ameroid sleeve is available in all colors. Length is 1 1/2".

No. 142 Plug \$1.12 each



INSULATED BANANA JACK

This insulated Banana Jack is used with the Banana Type Plugs 3/8" long and mounts in a 1/4" hole in panels up to 3/8" thick. Available in all colors.

No. 136 \$1.10 each

NEW BANANA JACK

Recommended for use with No. 1150 Banana Plug. Countersunk to fit tapered portion of plug shank. Will fit panels up to 7/16" thick.

No. 1151 \$0.06 each

PHONE TIP JACKS

The outstanding feature of this jack is the specially designed springs within the body that hold the phone tips straight and grip firmly at all times. Mounts in a 1/4" hole in panels up to 3/8" thick.

No. 137 \$6.00 per 100

NEW BANANA TYPE PLUG

Equipped with a 6/32 Female thread and supplied with a 6/32 screw and soldering lug. A one piece phosphor bronze spring assures positive and long lasting contact. The full length center pin prevents the plug from collapsing when misaligned with the jack.

No. 1150 \$0.07 each

Streamlined Phone Tip Plug

The highly polished ameroid handles are made so that they will

fit a standard non-insulated or insulated phone tip jack. By inserting the wire in the hole and screwing the tip in securely, a solid, solderless connection is made. Available in all colors. Plug 1 1/8" long, 1/2" high.

No. 1855 25c each

PHONE PLUGS



The AHRCO Phone Plug designed for use with all standard size jacks, is available in a variety of colors, and a brass nickel polished sleeve. A shielded sleeve of this type is imperative in many microphone circuits. Overall length is 2 3/4".

No. 128 Plug with Ameroid Sleeve \$1.40 each
 No. 218 Plug with Pol Nickel Sleeve .75 each

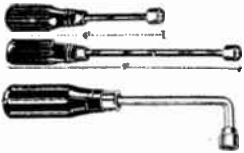
Midget Phone Plugs

This Midget Phone Plug fulfills a pressing need for a small but practical plug to fit all standard phone jacks.

No. 1786 2 1/4" Plug \$0.35 each



AMERICAN RADIO HARDWARE CO., INC.



SPIN TYPE SOCKET WRENCHES STRAIGHT AND OFFSET TYPES

Wrenches are made with a deep hollow hole in ends of shanks that will take long screws up to No. 10 Straight Types six and nine inches long; offset type seven inches long.

6" LONG			9" LONG			7" OFFSET		
No.	for	Ea.	No.	for	Ea.	No.	for	Ea.
48	3/16" Hex Nut	\$.25	58	3/16" Hex Nut	\$.30	106	3/16" Hex Nut	\$.30
50	1/4" Hex Nut	.25	54	1/4" Hex Nut	.30	107	1/4" Hex Nut	.30
51	5/16" Hex Nut	.25	55	5/16" Hex Nut	.30	108	5/16" Hex Nut	.30
52	3/8" Hex Nut	.25	56	3/8" Hex Nut	.30	109	3/8" Hex Nut	.30
53	7/16" Hex Nut	.25	57	7/16" Hex Nut	.30	110	7/16" Hex Nut	.30
59	1/2" Hex Nut	.25	59	1/2" Hex Nut	.30	111	1/2" Hex Nut	.30
660 box of six 6" long wrenches			690 box of six 9" long wrenches			670 box of six 7" long wrenches		
1.50			1.80			1.80		

ANTENNA AND FUSE CONNECTORS



These Connectors are made in two types; one that is plain and the second with a reinforced ring around the connecting part of the Connector. The Connectors

are made for automobile quick connections either on the antenna or ground line as well as for the standard 3AG automobile fuses.

In addition to being available completely assembled, they are also available in individual parts.

No. 221 Overall length 1/4"	7c each
No. 222 Overall length 3/2"	10c each

REINFORCED RING TYPE

No. 231 Overall length 1/4"	12c each
No. 232 Overall length 3/2"	15c each



Unbreakable Handle Spin Type Socket Wrenches

The ARHCO Amber Handle Socket Wrenches are made with amber color plastic unbreakable handles which are absolutely shockproof and unbreakable. The socket wrenches are constructed with a deep hollow hole in the end of the socket and will take a screw up to a No. 10 diameter. The shank is made of steel and cadmium plated. The socket is made of fine steel and case hardened for service and durability. The handle is 1" in diameter and is ribbed for a tight and firm grip and can easily be spun around. The overall length is 7 1/2".

No.	for	Ea.	No.	for	Ea.
3100	3/16" Hex Nut	\$.60	3104	3/8" Hex Nut	\$.60
3101	1/4" Hex Nut	.60	3105	7/16" Hex Nut	.60
3102	5/16" Hex Nut	.60	3106	1/2" Hex Nut	.60
3103	11/32" Hex Nut	.60	3107	Complete set of seven wrenches	4.20

PARKER KALON TYPE SOCKET WRENCHES

3110 for No. 4 Screw	\$2.00 each
3111 for No. 6 Screw	2.00 each
3112 for No. 8 Screw	2.00 each
3113 for No. 10 Screw	2.00 each
3114 for No. 12 Screw	2.00 each

DUAL GRID CAP



This cap may be used with the standard glass tube cap or the small metal tube grid cap. Furnished with a 12" wire and standard phone tip. Cap is made of ameroil and is

available in various colors.
No. 412 20c each

Insulated Grid Caps



The 418 fits the standard glass tube cap and the 419 fits the 866 tube cap, as well as many types of transmitting tubes. Cap is provided with a 12" wire.

No. 418 Glass Tube Cap \$.20 each
No. 419 866 Type Cap .30 each

Beaded Edge Grid Caps



A beaded edge is formed around the lower edge of the cap to produce a wiping grip and ease of soldering is assured by a bridge in the tail.

No. 102 \$4.00 per M
202 (Metal Tube Caps) 2.50 per M

New Metal Tube Grid Caps



Made in two types—one without a hole and one with a hole in the tail of the cap to facilitate the soldering of the wire.

No. 114 \$4.00 per M
No. 121 with Hole 4.00 per M
Metal Tube Grid Cap to fit inside of Grid Shield.
No. 115 \$4.00 per M

Candelabra Bulb Socket



These candelabra type sockets are designed to be used wherever a heavy duty intermediate base socket is required. Two tinned eyelets provide easy soldering connections.

No. 1542 (Up Bracket) \$7.00 per C
No. 1543 (Down Brkt.) 7.00 per C

Clip-on Bracket Type Sockets



Will accommodate all standard miniature base bulbs. The height of the shell and washer is 1/2" and the length of the bracket is 3/4".

No. 34 UP Clip type 3/4" long \$7.00 per C
No. 35 DOWN Clip type 1 1/8" long 7.00 per C

Horizontal Panel Indicator Assembly



This departure in design of panel indicators has many outstanding features. The bulb fits into the jewel so the maximum light is concentrated thru the jewel. The bulb is instantly removable. Due to its design this indicator requires less space than ordinary types. The jewels are supplied in Red, Green, Amber, Blue, and White.
No. 88 50c each

Grid Cap Shield



Cadmium plated or black finish.
92 Cad. Plated \$1.10 ea.
94 Black15 ea.



Volume Control Wrench

The handles of the volume control wrench are made of amber color plastic unbreakable material which will withstand the severest sledge hammer blows. The handle is 1" diameter 3 1/2" long and is ribbed so that a firm and secure grip necessary to tighten the nuts is assured. The shank is made of fine steel, cadmium plated and will take shafts up to 4/4" long x 1/4" O. D. The socket is of case hardened steel accurately turned and broached and securely fastened to the shank.
No. 3116 \$1.00

Alligator Clips



These alligator clips are available in two sizes and can be supplied either in cadmium or bright nickel.

45AT 2" Long \$7.00 C
742 2 3/4" Long 8.00 C

Approved Type Bayonet Dial Sockets



These sockets are completely insulated and made in four types, all meeting the Underwriters Laboratories' approval.

1721 Straight UP Bracket \$15.00 C
1722 Straight DOWN br. 15.00 C
1723 UP clip-on bracket 15.00 C
1724 DOWN clip-on br. 15.00 C

Bayonet Type Dial Sockets

The shell is securely eyeleted to the bracket proper. The center contact is of new design permitting a constant and positive pressure on the bulb contact.

1538 Straight UP bracket \$7.00 C
1539 Straight DOWN br. 7.00 C
1540 UP clip-on bracket 7.00 C
1541 DOWN clip-on br. 7.00 C

Approved Type Panel Indicator Bayonet Type



This socket conforms to Underwriters Laboratories' specifications. Constructed so that accidental short circuits are prevented. Each socket furnished with a red, green, amber, blue or white glass "Bull's eye." Mounts in panels up to 5/16" thick.
No. 1725 \$3.00

Panel Indicator Bracket

The indicator mounts in a single hole 7/16" in diameter and can be used on panels up to 5/16" in thickness. The jewels are translucent Ameroil in various colors. Available in Red, Blue, White, Green, and Amber jewels.
No. 39 Miniature Socket .25 each
No. 93 Candelabra Type Socket .40 each

Insulated Alligator Clips



Insulated Alligator Clips Nos. 129 and 130 consist of the No. 45AT c'lip with Ameroil Handle attached. The No. 152 Insulated Alligator Clip utilizes the No. 242 size clip. All clips are furnished with a loop around which the connecting wire can be twisted for soldering.

129 Clip, Overall 2 3/4" \$1.15 each
130 Clip, Overall 2 1/4"85 each
152 Clip, Overall 3 1/4" 1.15 each
Handle 1/4" long 17/2 each

Approved Type Clip-In Sockets



A Pilot Light Socket that meets the rigid requirements of the Underwriters Laboratories. Connection to the shell is made by a lug which is lanced directly from the shell body and connection to the center of the contact of the bulb is made with a specially moulded rubber sleeve which embodies a spring and contact.

No. 1718 18c each

Clip-In Sockets

It is so constructed that it may be clipped into a dial directly. It requires a mounting slot 3/4" long and 1/2" wide.

No. 1759 Clip-in socket screw shell type \$8.00 per C
No. 1760 Clip-in socket bayonet type 8.50 per C

Giant Panel Indicators



Each pilot light indicator can be individually marked, by writing in the desired copy one requires on the card disc which is supplied with each unit. Mounts in 3/4" hole in panels up to 3/8" thickness. Indicator 1 1/2" in diameter and extends 1 3/8" behind the panel. Available in green, red, blue.

1872 Bayonet Type \$7.75 ea.
1873 Miniature Screw Shell .75 ea.



Fibre Neutralizing Tools



Made of hard fibre and are a 3 in 1 combination. A 1/4" diameter screw driver on the inside and 1/4" and 5/16" sockets at each end of the tool. A completely insulated neutralizing tool for servicemen.
No. 2501. Each. 50c

Ameroid Neutralizing Tools

Made of ameroid and are a 3 in 1 combination 1/4" diameter screw driver on the inside and 1/4" and 5/16" sockets at each end of the tool.
700 Neutralizing Tool .\$.45 each
720 Majestic Attachments .15 each
730 Crosley Attachments .15 each

Fibre Neutralizing Tubes

These tubes are ideal, for when the hexagon wears out it can be cut off and used again. It may be had in the 1/4" or 5/16" hexagon nut size as listed.

- 2502 6" Long .\$.20 each
- 2503 8" Long .25 each
- 2504 10" Long .30 each
- 2505 12" Long .35 each
- 2506 28" Long .75 each

TUNING WANDS



This is a soft rubber Tuning Wand. Made of soft rubber so that it can be bent into any desired shape.

These rubber tuning wands have a pulverized iron core at one end and a brass insert at the other. Wand is 6" Long. Straight tuning Wand also available.

- Each
- 940 Flexible Tuning Wands \$1.00
- 825 Straight Tuning Wand .90

PROD HANDLES



Prod Handles and Banana Test Prods to fit all needs. Available in all standard colors.

SOLDERLESS TEST PRODS:

- 145 Handle 5 1/2" .\$.25 each
- 149 Handle 7" .30 each

PHONO NEEDLE PROD HANDLES:

- 153 Handle 4 1/2" .25 each
- 155 Handle 5 1/2" .30 each

BANANA TEST PRODS

- 151 Handle 5" .40 each
- 134 Handle 3" .30 each
- 135 Handle 1 1/2" .25 each

Alligator Alignment Wrench



Made to fit various sizes both knurled and hexagon nuts up to 3/8" diameter. The alligator jaws are fastened to the insulating rod with a rivet to prevent turning. Overall length is 6" and diameter of shaft is 1/4". Available in assorted colors.

- No. 805 .\$.35 each

ARHCO HARDWARE MERCHANDISER

An attractive display consisting of seventy-two transparent cellophane envelopes—eighteen different items and four envelopes of each item. Replacement envelopes of all the items may be ordered separately from catalog numbers listed below.



2330 Display Card of Hardware \$7.20

- The contents are easily identified as each envelope is stamped as to the item it contains. The following articles are furnished as an integral part of the display.
- 2331 RHICPMS 6/32" x 1/4" .10
 - 2332 RHICPMS 6/32" x 3/8" .10
 - 2333 RHICPMS 6/32" x 1/2" .10
 - 2334 RHICPMS 6/32" x 3/4" .10
 - 2335 RHICPMS 6/32" x 1" .10
 - 2336 RHICPMS 8/32" x 1/4" .10
 - 2337 RHICPMS 8/32" x 3/8" .10
 - 2338 RHICPMS 8/32" x 1/2" .10
 - 2339 RHICPMS 8/32" x 3/4" .10
 - 2340 RHICPMS 8/32" x 1" .10
 - 2341 Steel Hex Nuts C.P. 6/32" x 1/4" .10
 - 2342 Steel Hex Nuts C. P. 6/32" x 5/16" .10
 - 2343 Steel Hex Nuts C. P. 8/32" x 5/16" .10
 - 2344 No. 6 Nickel Plated Washers .10
 - 2345 No. 8 Nickel Plated Washers .10
 - 2346 No. 6 Shakeproof Lock Washers .10
 - 2347 No. 8 Shakeproof Lock Washers .10
 - 2348 No. 6 Kantlink Washers .10

AMBER BAKELITE HANDLE SCREW DRIVERS



The ARHCO No. 2356 Display Card consists of twelve Handle Screw Drivers. The top of the handles are machined out of Amber Colored Bakelite in both convex and concave shapes—and ribbed for solid grip.

- 2350 Convex Handle 2 1/4" Blade \$.15
- 2351 Convex Handle 3 1/2" Blade .20
- 2352 Convex Handle 4 1/2" Blade .25
- 2353 Concave Handle 2 1/4" Blade .15
- 2354 Concave Handle 3 1/2" Blade .20
- 2355 Concave Handle 4 1/2" Blade .25
- 2356 Display Card 2.40

The different styles and sizes of screw drivers shown on the Display Card are also supplied separately.

Low Capacity Alignment Screw Driver



The screw driver is made of 1/4" Ameroid Rod Silver Finish, provided with two screw driver knibs. The knob extending from the lower end of the handle extends 1/2" and can be used for ordinary padding condensers. There is another recessed screw driver knob in the upper end of the handle which may be used for aligning permeability tuned circuits.

- No. 2370 .\$.50

Dual Duty Alignment Tool



Handle is 3/8" diameter 2 1/2" long. From one end of the handle there is a sturdy 1 3/4" screw driver blade. This screw driver blade may be used for aligning padding condensers. From the opposite end a socket screw driver projects which may be used for adjustable iron core tuning systems. Overall size of screw driver is 6".

- No. 2371 .\$.50

Fuse Mounting Bases



These fuse bases are designed for the auto type fuse. Available in two types, one for breadboard mounting and the other for panel mounting.

- 103 Single, Baseboard Mount \$.15
- 127 Double, Baseboard Mount .25
- 104 Single, Panel Mount .15
- 126 Double, Panel Mount .25

Alignment Screw Driver



This screw driver is made of ANEROID, 6" long and 7/32" in diameter, and is so fabricated that the amount of metal in the screw driver nib will negligibly affect the inductance of the coil. This is of prime importance in the alignment of modern all-wave receivers. Available in various colors.

- No. 860 .\$.25 each

Push Button Tuner Aligning Tool



Specially adaptable for aligning Push Button Tuning units of the variable permeability type. Handle is 3/8" diameter and 1 7/8" long. The shank is 4 1/2" long and permanently fixed in the handle. The socket is 7/32" diameter and contains a screw driver knob recessed in the socket.

- No. 2372 .\$.50

Compensating Screw Driver



Made of ameroid. The compensating screw driver has a special shape blade at one end for adjusting trimmer screws. The other end is knurled for a non-slip grip. Supplied with pocket clip. 6" overall.

- No. 710 .\$.20 each

Pencil Type Test Prods With Interchangeable Tips Ends



Spring prongs located at flexible end of test prods allows to interchange spade lugs, phone tips, and alligator spring clips. New type needle point phone tip for piercing through insulated wire for a good contact. Equipped with black and red flexible wires measuring 5 feet and same colored handles. Each set complete with two Alligator Clips, two Needle Point Phone Tips, and two American Type Tapered Lugs.
500 .\$.150 Set

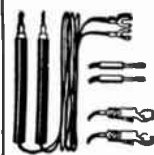
Socket Head Alignment Wrench



This is an Alignment Tool 5" long with a brass 1/4" socket head that fits over trimmer screws on various types of receivers. Outside diameter of this Hexagon Wrench is 3/8". An insulating shaft is forced into wrench and riveted to prevent shaft from turning. The other end has a hardened screw driver bit for adjusting trimmer screws. Diameter of the insulation is 7/32" and will fit into a 1/4" hole where the wrench has to go thru the top of a coil available in assorted colors.

- No. 820 .\$.50 each

Heavy Duty Test Prods

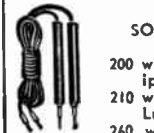


Ameroid prod handles are 7/16" diameter and 5" long. Prods equipped with 60" long heavy duty flexible wire. Prod tips are sharp, suitable

for scraping and piercing corrosion. Handles and leads are colored red and black.

- 300 with Taper Lugs .\$.80 pair
- 310 with Phone Tips .90 pair
- 320 with Alligator Clips .90 pair

TEST LEADS



- SOLDERLESS TIP TEST LEADS
- 200 with Phone tips .\$.60 pr.
- 210 with Spade Lugs .60 pr.
- 260 with Alligator Clips .70 pr.

PHONO NEEDLE TEST LEADS

- 230 with Phone Tips .\$.60 pr.
- 240 with Spade Lugs .60 pr.
- 259 with Alligator Clips .70 pr.

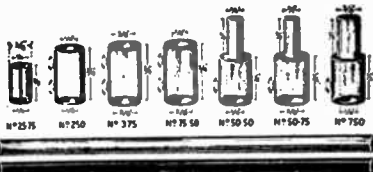
TEST LEAD SPECIAL

Ameroid Handles with 3 feet of kinkless rubber covered wire. Standard Phone Tip on one end; spade lugs on the other end.
No. 439 Price \$.45



AMERICAN RADIO HARDWARE CO., Inc.

SHAFT COUPLINGS EXTENDERS & REDUCERS



These accurately machined brass fittings can be used for coupling shafts of the same or different diameter, for straight extension, or for extension with smaller or larger shaft diameter.

NO.	LENGTH	Hole I.D.	O.D.	Part	EA.
25-75	7/16"	1/4"	3/4"	Dial Bushings	7c
250	3/4"	1/4"	1/2"	O.D. Brass Coupling	15c
375	3/4"	3/8"	9/16"	O.D. Brass Coupling	15c
75-50	3/4"	3/8"	9/16"	O.D. Brass Coupling	15c
50-50	1 1/8"	1/4"	1/2"	O.D. Brass Reducer	15c
50-75	1 1/8"	3/8"	9/16"	O.D. Brass Reducer	15c
750	1 1/2"	1/4"	1/2"	O.D. Brass Reducer	15c
5250	6"	1/4"	1/2"	O.D. Brass Reducer	15c
12250	12"	1/4"	1/2"	O.D. Brass Reducer	15c
388	8"	3/8"	1/2"	O.D. Brass Reducer	15c
250 C	3/4"	1/4"	1/2"	O.D. Ins. Coupling	15c
375 C	3/4"	3/8"	9/16"	O.D. Ins. Coupling	15c
75-50 C	3/4"	3/8"	9/16"	O.D. Ins. Coupling	15c
50-50 C	1 1/8"	1/4"	1/2"	O.D. Ins. Reducer	15c
50-75 C	1 1/8"	3/8"	9/16"	O.D. Ins. Reducer	15c
750 C	1 1/2"	3/8"	9/16"	O.D. Ins. Reducer	15c
637 C	8"	1/2"	1"	O.D. Ins. Reducer	15c
1237 C	6"	1/2"	1"	O.D. Ins. Reducer	10c
388 C	12"	3/8"	1 1/2"	O.D. Ins. Reducer	30c

ANGLE AND BRACKET ASSORTMENT



28 popular size angles and brackets made of brass and nickel plated. A choice selection of "Z" brackets and perforated strips are included. Indispensable for mounting radio parts.

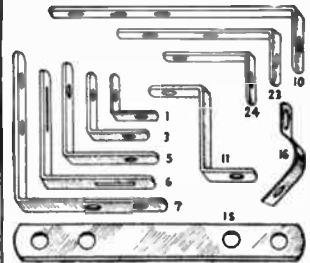
No. 488-10 \$.50



Parker Kalon self-tapping screw assortment of most popular sizes. Genuine replacements for ALL standard brand receivers.

No. 1078 \$.50

ANGLES AND BRACKETS



No.	Length	Hole Size	Per 100
1	1/2" x 1/2"	6 or 8	\$.90
3	3/8" x 3/8"	8	1.60
5	1" x 1"	8	2.50
6	1 1/8" x 1 1/8"	8	3.25
7	1 1/2" x 1 1/2"	6 or 8	4.00
10	3/8" x 2 1/4"	6 or 8	4.00
11	1 3/16" high	6 or 8	1.60
15	2 7/8" long	6 or 8	3.50
23	1/2" x 1 1/2"	6 or 8	2.00
24	1/2" x 7/8"	6 or 8	1.60

TINNED BRASS LUGS



No.	Length	Hole Size	1000
1	3/8"	6 or 8	\$2.50
2	3/8"	8	2.50
3	3/8"	8	2.50
4	3/8"	6 or 8	2.50
5	7/8"	6 or 8	2.50

Twin Phone Tip Jacks

Jacks in this assembly are our No. 138 type, mounted on a bakelite strip 1/2" wide and 2" long. Coded red and black for identification. Mounting strips may be had unmarked or with the following identification: SPEAKER, INPUT, OUTPUT, I-2, and A-G. No. 406 Marked \$.25 each No. 405 Unmarked .20 each

Bracket Type Lug Strips

No.	Price per 100
1620	3 lug \$10.00
1621	4 lug 12.00
1622	5 lug 15.00
1623	6 lug 18.00

1841 Special Mounting Bkt. 1.25
1839 Mounting Bracket and lug Combination 1.50

Available with No. 1841 Bracket as illustrated or with No. 1839 Bracket, which is a combination bracket and mounting lug or with No. 1847 Bracket which is similar to No. 1839 but with a tapped 6/32 hole.

1660	3 Lug with 1839 Br.	\$12.00
1661	4 Lug with 1839 Br.	14.00
1662	5 Lug with 1839 Br.	17.00
1663	6 Lug with 1839 Br.	20.00
1664	3 Lug with 1847 Br.	14.00
1665	4 Lug with 1847 Br.	16.00
1666	5 Lug with 1847 Br.	19.00
1667	6 Lug with 1847 Br.	22.00
1847	Bracket and Lug with tapped 6/32 Hole	3.00

Rubber Grommet Ass'n't



An assortment of 5 sizes of pure gum and black rubber grommets.

No. 68	Assortment of 12 Rubber Grommets	\$.25
No. 69	Assortment of 30 Rubber Grommets	.50
No. 70	Assortment of 100 Rubber Grommets	1.60

Special Angle Brackets with Tapped Holes



No.	Size	Per 100
No. 1627	1/2" x 1/2" Bracket	\$3.00
No. 1628	1/2" x 3/4" Bracket	3.50
No. 1629	1/2" x 3/4" Bracket	4.00

Z Bracket Type with no clearance hole—one tapped hole, 1/2" x 3/8" Bend x 7/16" long. 2363 4.00

RACK SCREWS



Particularly suitable for mounting panels in racks and cabinets. Enhances appearance of any panel. Screws, steel nickel plated.

No.	Size	Per 100
1641	1/4" x 6/32	\$.30
1642	1/2" x 6/32	.35
1643	3/4" x 6/32	.40
1644	1" x 6/32	.45
1637	1/4" x 8/32	.35
1638	1/2" x 8/32	.40
1639	3/4" x 8/32	.45
1640	1" x 8/32	.50
1630	1/4" x 10/32	.45
1631	1/2" x 10/32	.50
1632	3/4" x 10/32	.55
1633	1" x 10/32	.60

WASHERS



No.	Size	Per 100
1634	6/32 Cup Washer	.80
1635	8/32 Cup Washer	.80
1636	10/32 Cup Washer	.80

TERMINAL BOARDS PLUG-IN TYPE



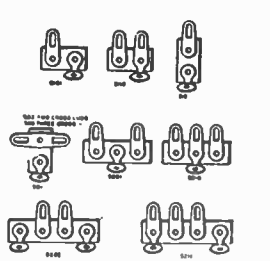
Where connections must be changed quickly and easily and yet maintain a firm contact.

No.	Price
1701	1 Clip Strips \$.10 Each
1702	2 Clip Strips .12 each
1703	3 Clip Strips .15 Each
1704	4 Clip Strips .20 Each
1705	5 Clip Strips .25 Each
1706	6 Clip Strips .30 Each
1707	7 Clip Strips .35 Each
1708	8 Clip Strips .40 Each
2391	Contacts Only .125 per C
1715	Pin Plug .08 Each

Round Head Steel Cadmium Plated Machine Screws

PRICE PER 1000	No.	Price
1/4" x 6/32	\$2.80	1 1/4" x 8/32 \$6.00
3/8" x 6/32	3.05	1 1/2" x 8/32 6.50
1/2" x 6/32	3.35	2" x 8/32 7.50
3/4" x 6/32	3.60	2 1/2" x 8/32 9.00
5/8" x 6/32	3.90	3" x 8/32 11.00
1" x 6/32	4.45	1/4" x 10/32 \$4.15
1 1/8" x 6/32	\$3.35	3/8" x 10/32 4.45
3/4" x 8/32	3.65	1/2" x 10/32 4.75
1/2" x 8/32	3.90	5/8" x 10/32 5.00
3/8" x 8/32	4.15	3/4" x 10/32 5.30
1" x 8/32	4.45	1" x 10/32 5.85
1 1/8" x 8/32	5.00	

Terminal Lug Strips



No.	Per C	No.	Per C
5101	\$2.00	5201	3.00
5110	2.25	5210	3.25
5112	2.25	5202	4.00
501	2.25	5211	4.25

Fancy Head Bronze Finish Screws

Per 1000	
3/4" x 6/32	\$6.00
1" x 6/32	6.70
1 1/4" x 6/32	7.80
1 1/2" x 6/32	9.45
3/4" x 8/32	7.80
1" x 8/32	8.90
1 1/4" x 8/32	10.00
1 1/2" x 8/32	12.30

FIBRE SCREWS Round Head

No.	Size	Per 100
1881	6/32 x 3/16	\$4.00
1882	6/32 x 1/4	4.50
1883	6/32 x 3/8	5.25
1884	6/32 x 1/2	6.00
1885	8/32 x 3/16	4.00
1886	8/32 x 1/4	4.50
1887	8/32 x 3/8	5.25
1888	8/32 x 1/2	6.00

Bakelite Terminal Strips and Terminals



No.	Price
1501	2 Term Marked .18 Ea.
1502	2 Term. Plain .15
1503	2 Term. A. & G. .18
1504	2 Term "Output" .18
1505	2 Term. "Input" .18
1506	3 Term. Plain .20
1507	3 Term. Marked .25
1508	4 Term. Marked .35
1509	4 Term Plain .30

RUBBER GROMMETS

Ideal for use on all types of electrical and radio purposes.

No.	Panel Hole	I.D.	O.D.	Panel Thickness	Per 100
1113	13/32	21/64	5/8	1/16	\$2.35
1114	1/4	1/8	11/32	1/16	1.50
1115	3/8	1/4	9/16	7/32	2.50
1118	5/16	3/16	7/16	1/16	2.00
1119	13/32	17/64	9/16	1/16	2.00
1120	7/16	19/64	5/8	1/16	2.25
1121	1/2	3/8	11/16	1/16	2.25
1122	11/32	1/4	1/2	1/32	2.00

When ordering Gum Rubber add G to Number and add \$1.00 per C to list price of Black.

RADIO SERVICE SOLVENT

"Cleans and Dissolves"

Specially prepared for loosening cement on speaker cones, etc. Is also used as a thinner for G-C Service Cement.

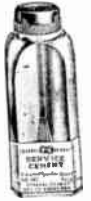
No.	Net Price
312—2 oz. bottle	\$0.21
314—4 oz. bottle	.30
316—6 oz. economy bottle	.39
318—8 oz. economy bottle	.45
3116—1 pt. economy bottle	.75



RADIO SERVICE CEMENT

The Best Cement for Speaker and Radio Work. Especially suitable for cementing replacement cones and repairing rattling and torn cones. Also used on glass, to seal adjustments, hold wires in place, etc. Dependable, Vibration-Proof, Waterproof, and Fast-Drying.

No.	Net Price
302—2 oz. bottle, brush attached to cap	\$0.30
304—4 oz. economy bottle	.54
306—6 oz. economy bottle	.75
308—8 oz. economy bottle	.96
3016—1 pt. bottle	1.80



FILM SPLICING CEMENT

High quality fast drying Cement specially prepared for splicing movie camera film.



No.	Net Price
331—1 oz. size	\$0.15
332—2 oz. size	.27

BAKELITE CEMENT

Prepared for cementing Bakelite to Bakelite or Bakelite to other materials. Useful for broken knobs, molded cabinets, etc.



No.	Net Price
322—2 oz. bot.	\$.21
328—Half Pint	.66
3216—Pint	1.20

CEMENT & SOLVENT KIT

Kit consists of 1 bottle of our famous Service Cement and 1 bottle of Service Solvent. Handy Kit to carry with you.



No.	Net Price
343	\$0.30

SPEAKER REPAIR CEMENT IN TUBES

This is our regular service cement put up in a handy tube. Makes a good, general-purpose, waterproof glue. Also useful for speakers, cones, coils, etc.



No.	Net Price
342	\$0.25

TOUCH-UP COLOR CODING KIT

Kit of brilliant enamels for coding parts, resistors, coils, etc. Also for touching up and improving appearance of equipment. Colors: Red, Green, Blue, and Yellow. Solvent and brushes included.



No.	Net Price
675	\$0.30

R.M.A. COLOR CODING KIT

Complete Kit of all of the standard RMA colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray and White. All colors are brilliantly alive. Brushes furnished and RMA color chart is on box. Kit is necessary for complete color coding of parts.



No.	Net Price
677	\$0.54

FROST-X

Provides a frost-like finish that is used for covering window-glass for privacy and to eliminate sun glare. Also is a desirable decorative finish for test equipment, mirrors, vases, etc. Easy to apply.



No.	Net Price
682—1/8 pt. bottle	\$0.21
684—1/4 pt. can	.39
688—1/2 pt. can	.63
6816—Pint can	1.20
6832—Quart can	1.80

KRYSTAL KOAT CRYSTALLIZING LACQUER

The famous GC Krystal Koat lacquer. Strictly Air-Drying; forms beautiful floral pattern when dry. For chassis, panels, etc. Can be used on metal, wood or paper. Colors: Black, Gray, Brown, Green, Blue, Red. Specify color.



No.	Net Price
632—1/8 pt.	\$0.21
634—1/4 pt.	.39
638—1/2 pt.	.63
6316—Pint	1.20

NOTE: Impenetro Sealer must be used for undercoat when Krystal Koat is applied over other finishes. Same price as black.

KROME KOAT ALUMINUM PAINT

Fast drying ready mixed Aluminum Paint. Leaves Chrome-like finish. For P. A. equipment, speakers, poles, chassis, towers, etc.



No.	Net Price
612—1/8 pt.	\$0.15
614—1/4 pt.	.27
618—1/2 pt.	.48
6116—Pint	.90
6132—Quart	1.35
61-C—Gallon	3.90

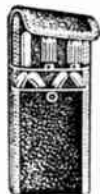
DECORATIVE ENAMELS

High quality Enamels for all purposes. High Gloss. Supplied in Black, Red, Brown, Green, Blue, Yellow, Ivory and White. Specify color desired.



No.	Net Price
652—1/8 pt. All colors	\$0.15
654—1/4 pt. All colors	.27
658—1/2 pt. All colors	.51
6516—Pint. All colors	.96
6532—Quart. All colors	1.80

HANDY POCKET TOOL CASE



Wallet type pocket tool case; fits in the hip pocket. Will hold necessary tools required on job. Saves your pockets and the tools. Made of Genuine Leather.

No.	Net Price
703	\$0.60

FIBRELOID SPEAKER SHIMS



Handy tool for centering voice coils. Kit consists of 5 sizes of specially flexible and tough celluloid shims put up in gold-lettered snap case. Sizes marked — 20 shims to kit.

No.	Net Price
702	\$0.36

DIAL LITE COLORING

Long lasting coloring for multicolored dials. Instant drying. Bright colors of Red, Green, Blue, Amber, Purple, and Solvent. Earn extra money by selling colored dial lites. Dress up those old sets.

No.	Net Price
666—6 bts.	.36
665—5 bts. no purple	.30
661—Bot. of any color	.06
6616—Pint of any color	.90



RUF KOAT

AIR DRY WRINKLE VARNISH

The only finish that will Air Dry and give you a professional wrinkle job without baking. It is the same finish as is employed by manufacturers on P. A. Equipment, Chassis, Panels, and Racks. Easy to use. Don't experiment — use the best.

Colors: Black, Gray, Brown, Green, Red and Blue—(Specify Color)

No.	Net Price
602—1/8 pt.	\$0.24
604—1/4 pt.	.42
608—1/2 pt.	.66
6016—Pint	1.20



TELEPHONE BLACK & GRAY

High grade enamel that covers well and dries fast. Black will produce an ebony black finish that is so familiar on telephone devices. Gray is a pleasing shade. Excellent for panel work and parts. Specify color.



No.	Net Price
622—1/8 pt.	\$.21
628—1/4 pt.	.63
6216—Pint	1.20

SWEDISH STEEL SPEAKER SHIMS



The best shims for centering voice coils. With steel shims adjustments can be made in a few minutes. Made of Swedish Steel, these are very flexible — a permanent tool. Kit consists of 4 sizes, put up in gold-lettered 'snap case. 16 shims to kit.

No.	Net Price
701	\$0.39



Service Aids - Tools

Sky-Ranger Indoor Aerial



A New Aerial Eliminator that really works. Can be used with any radio. Very high grade in appearance and performance. Sells on sight. Improves reception. It can be quickly installed by anyone.

No.	Net Price
1400	\$0.60
(Selling Price \$1.00)	

RADIO REPAIR LITE



Light where you want it—110v. AC or DC

Just the light for Service work in the field. Lights up those hard-to-see corners in Chassis and Refrigerators. Handy for coloring dial lite bulbs. Dip bulb in coloring and job is done.

No.	Net Price
705	\$0.75

NE-O-LITE TESTER

Handy, inexpensive Ne-O-Lite tester that every Radio Man should have for testing A.C. Lines, polarity of A.C. or D.C., testing for blown fuses, tracing ground line in A.C., as a R.F. indicator Spark Plug tester and 101 other uses. Can be used on 60 V. A.C. to 500 V. A.C. or D.C.



No.	Net Price
706	\$0.60

RADIO CLAMP LAMP

Good light is important and the Clamp Lamp is just the thing. You can clamp it onto chassis or radio cabinet and get light where you want it. Handy to carry with you.



No.	Net Price
708	\$0.99

RADIO BENCH LAMP

Practical Bench Lamp specially made for Radio Work. Flexible arm can be adjusted to any position. Lamp is high enough so it can be used over radio chassis. Base has compartments for screws, knobs, and parts—a special feature in itself! This lamp will save your light bill and your eyes. Eliminates glare—a 25-watt lamp will give better light than a 100-watt over head.



No.	Net Price
707	\$1.95

RUBR-SHIM



Made of Sponge Rubber, adhesive one side, sticks to anything. For rims of radio speakers, chassis, vibrators, condensers, refrigerators, etc. Prevents rattles and vibration.

No.	Net Price
1080—1/2", 10 ft. roll	\$0.27
1081—3/8", 10 ft. roll	.30
1082—1/4", 10 ft. roll	.39
1083—1/2", 50 ft. roll	1.20
1084—3/8", 50 ft. roll	1.35
1085—1/4", 50 ft. roll	1.50

11-PIECE RADIO SOCKET SET

Eleven pieces, 1/2" hexagon drive, put up in convenient crystal enameled steel case, as follows: 6 1/2" Wood Grip Screw Driver Handle, 4" L Handle, 3 1/4" Extension adapter, 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1" Hex. Sockets, 3/4" Round Knurled Socket, and 1/4", and 1/8" Square Sockets.



No.	Net Price
713	\$1.05

8-PIECE VEST POCKET SOCKET SET

The smallest, though most complete, and practical 8-Piece Socket Wrench set on the market. An outstanding value. Seven sockets, 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1" Hex., 3/4" Round Knurled, 1/4" Square and 4" L Handle with two friction balls, in Baked Enamel Box.



No.	Net Price
712	\$0.45

No-Metal Hex-Wrench



Hard, black fibre trimmer wrench with 1/2" hex broaching through it. If ends wear, they can be easily cut to provide a good-as-new wrench.

No.	Net Price
730—6" long	\$0.12
731—8" long	.15
732—12" long	.21

INSULATED HEX WRENCH & SCREW DRIVER



Combination hex wrench and insulated screw driver. The screwdriver may be extended from handle to provide extra long length.

No.	Net Price
735 extends from 7-13"	\$0.39
736 extends from 11-17"	.51

Ornamental Head Screws



A Rosette head, statuary Bronze head screw, 1/8" head with a 6-32 thread.

No.	Net Price
1095—Assortment of 50 in a Jar	\$0.30
1096—Assortment of 100 in a Jar	.45
1097—3/4" length, per dozen	.06
1098—1" length, per dozen	.07
1099—1 1/4" length, per dozen	.09

Solder Lug Assortment

An assortment of 100 of the most necessary soldering lugs needed by the Radio Man, "Ham", or experimenter. Lugs are tinned, and neatly stamped.

No.	Net Price
1020	\$0.27



SERVICE BENCH STOOLS

Comfortable Chairs for Radio Repairs

A practical chair or stool has a definite place in the service shop. Every bench should have a good stool for comfortable seating. Stools are made extra strong and will last a life time. They are all double riveted, have wood seats, and 403 Series have wood back rests.



No.	Net Price
401—Steel Stool—wood seat, 24" high	\$4.05
401-A—Steel Stool—wood seat, 26" high	4.35
401-C—Steel Stool—wood seat, 30" high	4.75
403—Chair same as 401 but with back rest, 24" high	6.05
403-A—Chair same as 402 but with back rest, 26" high	6.35
403-C—Chair same as 401 but with back rest, 30" high (30" stools have turned out foot rest)	6.75

Brass & Fibre Shafting Rods

No.	Net Price
715—1/4"x6" Fibre	\$0.12
716—1/4"x1" Fibre	.24
717—1/4"x6" Fibre	.15
718—3/8"x1" Fibre	.30
719—1/4"x6" Brass	.09
720—1/4"x1" Brass	.18
721—1/4"x6" Brass	.15
722—3/8"x1" Brass	.30

Screw Type Chassis Felt Feet



No.	Diam.	Net Price per doz.
1086	1/2"	wood screw \$0.27
1087	1/2"	6-32 screw .27
1088	3/4"	wood screw .30
1089	3/4"	10-32 screw .30

No-metal Insul. Adjustment Screw Driver



Made of Black Bone fibre. Indispensable for aligning all-wave sets. Will give long service. Ends can be re-ground.

No.	Net Price
714—7" long	\$0.21

Felt & Rubber Bumpers

Used on the bottoms of radios and appliances.

Felt Pads	
No.	Net Price
1070	50 in env. \$0.18
1071	100 in env. .30
Rubber Tack Bumpers	
1075	10 in env. .09
1076	25 in env. .21
1077	Per hund. .66

Snap Button Hole Plugs

The plug so popular on many sets to seal adjustments, cover holes, etc. Will fit in any material up to 1/16" thick.

No.	Net Price
1710—50 assorted plugs in box	\$1.20
1711—5/8" hole dia., per 10	.15
1712—1/2" hole dia., per 10	.21
1713—3/4" hole dia., per 10	.24
1714—3/8" hole dia., per 10	.24
1715—1 1/4" hole dia., per 10	.42

Snap-in Trimounts



"Take the Place of Screws" The new fastener used on all of the latest sets. Trimounts are used to fasten dial scales, etc. to the radio chassis and also to hold the new build in antennas to the chassis or plastic cabinet. These are often lost while working on the set. Have a stock of replacements on hand.

No.	Net Price
1720—100 assorted types (3 sizes)	\$0.45
1721—100 Small	.42
1722—100 Medium	.42
1723—100 Large	.45
1724—100 Extra Large	.45

GENERAL



CEMENT

Radio Dial Cables Woven Fabric Dial Belts

General Cement Dial Cables are all Best Quality, Specially made for Radio use.



42 STRAND PHOSPHOR BRONZE CABLE
Highest Grade cable made of 42 strands and constructed over a linen thread center.

No.	Spool	Net
71-25	25 ft.	\$.69
71-50	50 ft.	1.35
71-1C	100 ft.	2.40

BRAIDED BRONZE CABLE
A lower quality cable than the No. 71, but a cable that will give good service. Braided Phosphor Bronze Cable.

No.	Spool	Net
72-25	25 ft.	\$.39
72-50	50 ft.	.75
71-1C	100 ft.	1.47

HEAVY LINEN CABLE
Best Quality cord, same as used in Philco, Silver Marshall, Brunswick and others. Made of finest Black Linen Braided.

No.	Spool	Net
73-25	25 ft.	\$.78
73-50	50 ft.	1.50
73-1C	100 ft.	2.70

EXTRA HEAVY LINEN CABLE
"Same as Used On Philco"
A heavier cable than our No. 73. This is the same type and weight of cable used on Philco receivers.

No.	Spool	Net
73X-25	25 ft.	\$.78
73X-50	50 ft.	1.50
73X-1C	100 ft.	2.70

LIGHT LINEN CABLE
Black Silk Core
Highest quality Light Cord, exactly as used in RCA, Wedis-Gardner, Majestic, Sonora and others. Made of finest Black Silk Braided. The strongest cable available.

No.	Spool	Net
74-25	25 ft.	\$.69
74-50	50 ft.	1.35
74-1C	100 ft.	2.40

LIGHT LINEN CABLE
Linen Core
A very high grade linen cable, used for original equipment on many of the older type sets. Has a strong linen core with a closely braided and treated covering to minimize wear.

No.	Net Price
74L-25—25 ft. spool	\$.69
74L-50—50 ft. spool	1.35
74L-1C—100 ft. spool	2.40

SPECIAL THIN-LINEN CABLE
A strong, extra-thin linen cable for replacement where a very thin cord must be used. Braided of finest black linen.

No.	Net Price
75-25—25 ft. spool	\$.45
75-50—50 ft. spool	.84
75-1C—100 ft. spool	1.56

SPECIAL LIGHT BRONZE CABLE
A High Quality Special Thin Phosphor Bronze Braided Cable exactly the same as used on RCA and GE sets.

No.	Net Price
76-25—25 ft. spool	\$.45
76-50—50 ft. spool	.84
76-1C—100 ft. spool	1.56

SPECIAL HEAVY GREY CORD
For Kolster and Grebe Sets
An extra heavy and extra strong cable, not to be confused with the regular heavy cords.

No.	Net Price
77-25—25 ft. spool	\$1.20
77-50—50 ft. spool	2.10
77-100—100 ft. spool	4.05

PHOSPHOR BRONZE BELTING
Same belting as used on Atwater-Kent, Colonial, Steeltic, Crusley and others. 3/16" wide x .005" thick.

No.	Net Price
61-25—25 ft. spool	\$.77

Bronze Belting same as used on Brunswick and Silver Marshall, 5/16" x .006" thick.
62-25—25 ft. spool...\$1.11

WHITE BRAIDED LINEN CORD
Same type of cable as used on Emersons. A light colored tightly braided linen cable. Very strong and durable.

No.	Net Price
78-25—25 ft. spool	\$.45
78-50—50 ft. spool	.84
78-1C—100 ft. spool	1.56

MONEL METAL DIAL CABLE
A very high grade monel metal cable. It will not ravel, is very strong, won't stretch, and is soldered very easily. Preferred by many to the popular phosphorous bronze cables.

No.	Net Price
79-25—50 ft. spool	\$.45
79-50—50 ft. spool	.84
79-1C—100 ft. spool	1.50

EXTRA-THIN METAL CABLE
A strong extra-thin metal cable, now becoming popular. Used especially in the foreign market. Thinner than our No. 76 cable.

No.	Net Price
80-25—25 ft. spool	\$.69
80-50—50 ft. spool	1.35
80-1C—100 ft. spool	2.40

LATEX RUBBER TREATED MEDIUM HEAVY CABLE
A new type dial cord, treated with rubber for extra friction and strength. Will not stretch or ravel. Should be used on dials to prevent slipping on troublesome dials.

No.	Net Price
81-25—25 ft. spool	\$.60
81-50—50 ft. spool	1.14
81-1C—100 ft. spool	2.10

READY MADE DIAL CABLES

Make of Set and Model No.	Net Price
Atwater Kent, 35, 37	\$.15
Atwater Kent, 44	.24
Atwater Kent, 46	.15
Atwater Kent, 55	.15
Iosech, 48A	.15
Iosech, 58, 60	.15
Brunswick, 15, 22 Front	.24
Brunswick, 15, 22 Rear	.24
Gen. Elec., A88, A82, A87	.12
Majestic, 70, 71, 72	.12
Majestic, 15B Lazy Boy	.15
Majestic, 52, 60	.15
New Majestic, 60, 620	.15
Philco, 71	.15
Philco, 91	.15
RCA, 44, 46, 47	.18
RCA, 16, 17, 18, 33	.18

Cables available for other models also; state Make and Model when ordering or send in old cable.

DIAL DRIVE SPRING ASSORTMENT
Kit of Dial Drive Tension Springs. Six sizes supplied to handle all sets.

No. 1055 — Kit of 25 assorted springs.	Net Price...\$.60
No. 1056 — Kit of 100 assorted Springs.	Net Price...\$2.10
No. 1057 — Any size. Each...	\$.03

GC RUBBER DRIVES
Specially made for Atwater Kent, RCA, Stewart Warner, Olsen, Kennedy, Emerson and others. Best quality live rubber drives.

No.	Net Pr.
1025	
25 asstd.	\$.90
1026	
100 asstd.	3.30
Each,	any type...\$.06
All numbers,	per 100...3.30
No. 15 Philco	No. 42-2346...15

DIAL DRIVE CEMENT
Specially prepared for cementing Rubber dial drives to metal shafts, rubber mountings to chassis, or for cementing any rubber material to metal.

No.	Net Price
351—Dial Drive Cement in tube	\$.27
352—Dial Drive Cement, 2 oz. bottle with brush	\$.30

SERVICE MEN'S DIAL CABLE KIT No. 1
Kit contains: Four 25 ft. spools of popular type Dial Cable—42 strand Bronze, Special thin (3E—114") Cable, Light and Heavy Linen Cable, FREE assortment of Eyelets and Clamps with Kit.

No. 77-SK—Cable Kit.....Net Price \$2.35

SERVICE MEN'S CABLE KIT No. 2
A handy combination Kit of 10 ft. lengths of all 12 GC" dial cables listed above. Each type in a separate envelope, and all packed in a leatherette box.

No. 78-SK—Complete Kit...Net Price \$2.55

NON-SLIP COMPOUND FOR RADIO DIALS
Powder Compound for treating friction type dial drives, such as coris, cables, and belts. Easy to use! Just apply freely to slipping parts.

No. 1210
Net Price \$1.8

EYELET AND CLAMP ASSORTMENT
The same eyelets and clamps as are used on I. E. A. D. Y. M. A. 1 D. E. CABLES. Make your own cables and belts—AND SAVE!

No. 1028—50 asstd. pieces...\$.15

WOVEN FABRIC RADIO DIAL BELTS

FREE STEEL BOXES SUPPLIED WITH KITS

General Cement Belts are approved replacements for all sets. They are made of best quality material and will not stretch. They are specially treated to prevent slipping.

Buy the G-C Red Belt!
Net Price Each...\$.15

SERVICEMEN'S KITS
Servicemen: Have an assortment of belts on hand for prompt replacement. Kits contain only the more popular belts used.

FREE! WITH EACH KIT—ATTRACTIVE STEEL BOX—BELT SCALE AND COMPLETE LISTING OF OVER 1100 MODELS.

No. G-25 —Kit of 25 popular belts	Net 3.75
No. G-50 —Kit of 50 popular belts	Net 7.00
No. G-100—Kit of 100 (includes every size)	Net 13.50

CABLE EYELET TOOL
Inexpensive riveting tool for riveting parts to chassis and for turning eyelets on dial cables and assemblies. Kit consists of a base which can be inserted in a vise and a clincher punch for turning the rivets.

No. 740.....Net Price \$3.30

INSTRUCTIONS — FOR MEASURING BELTS
When determining the size of belt required, stretch a thin thread or cord around the belt pulleys. (A thick cord will provide an inaccurate reading.) When taking stretched out measurement of old belts, subtract 3/16" from over all length of stretched out belt to arrive at the correct circumference of belt. Note the stretched out length is not the accurate circumference of belts.

BELTS ARE LISTED ACCORDING TO INSIDE CIRCUMFERENCE OF GC BELTS

GC Belt Size	GC Belt No.	GC Belt Size	GC Belt No.	GC Belt Size	GC Belt No.	GC Belt Size	GC Belt No.	GC Belt Size	GC Belt No.	GC Belt Size	GC Belt No.	GC Belt Size	GC Belt No.	GC Belt Size	GC Belt No.	GC Belt Size	GC Belt No.
6-23/32"	101	7-15/16"	111	8-13/64"	115	10-41/64"	129	11-25/64"	136	12-7/16"	193	15-1/64"	149	17-13/32"	169	17-13/32"	169
6-55/64"	101	8-1/64"	104	9-19/64"	103	10-11/16"	121	11-7/16"	173	12-13/16"	168	15-17/64"	187	17-37/64"	179	17-37/64"	179
6-57/64"	102	8-1/32"	102	9-5/16"	119	10-29/32"	180	11-21/32"	194	12-15/32"	144	15-1/2"	183	17-5/8"	190	17-5/8"	190
6-57/64"	158	8-15/64"	114	9-17/32"	119	10-29/32"	180	11-21/32"	194	12-15/32"	144	15-1/2"	183	17-5/8"	190	17-5/8"	190
7-1/64"	157	8-9/32"	108	9-7/8"	123	10-61/64"	133	11-13/16"	143	12-3/8"	178	15-13/16"	182	18-1/2"	189	18-1/2"	189
7-1/4"	106	8-19/64"	172	9-59/64"	127	10-31/32"	132	12-1/32"	154	13-3/16"	146	15-61/64"	150	18-21/32"	181	18-21/32"	181
7-9/32"	156	8-5/16"	162	9-61/64"	126	11"	131	12-1/16"	138	14-27/64"	147	18-19/64"	170	19-7/16"	166	19-7/16"	166
7-13/32"	177	8-29/64"	109	10-1/4"	164	11-5/64"	130	12-3/32"	142	14-7/32"	186	16-11/16"	184	21-5/16"	175	21-5/16"	175
7-15/32"	103	8-1/2"	110	10-17/64"	124	11-1/8"	121	12-7/32"	149	14-11/16"	148	16-15/16"	185	22-85/64"	176	22-85/64"	176
7-1/2"	105	8-5/8"	112	10-19/64"	128	11-9/64"	131	12-9/32"	130	14-57/64"	151	17-1/16"	165	22-19/64"	191	22-19/64"	191
7-19/32"	155	8-39/64"	153	10-23/64"	118	11-5/32"	137										
7-11/16"	107	8-11/16"	160	10-3/8"	125	11-9/32"	125										
7-3/4"	174	8-13/16"	167	10-25/64"	125	5/16"	131W										
7-57/64"	113	9-1/16"	117	10-1/2"	152	11-3/8"	134										



Record Compounds and Accessories

Belts - Wire - Glass Crystals

REK-O-DOPE

"New All-Purpose Record Compound"

Cleans — Lubricates — Hardens — Renews old records and preserves new records and recordings. It improves reproduction as it removes all dirt and loose particles, lubricates the surface and hardens the grooves. Records treated with G-C REK-O-DOPE will give better tone, and will last longer.



No.	Net Price
1261—1 oz. bottle.....	\$.15
1262—2 oz. bottle.....	.21
1264—4 oz. bottle.....	.30
1266—6 oz. bottle.....	.39

RECORD-TURNTABLE FELT



"Ready Cut Pieces" Replace worn out and "friction-less" felt on record turntables. You or your customers cannot obtain good recordings or reproductions unless the record is held firmly in place on the turntable. Keep a supply of this special felt on hand for that extra-profit job. Pieces cut round, center hole punched.

Net Price

1292—7 7/8" diam.	\$.21
1293—9 1/8" diam. ....	.30
1294—11 1/8" diam. ....	.39

(Use grille cloth cement as an adhesive.)

RECORD LUBRICANT

Reduces the surface noise and prevents excessive wear on the record or needles. Can also be used for a pre-recording lubricant. Records will last longer when you use a lubricant.



No.	Net Price
1252—2 oz. bottle.....	\$.21
1254—4 oz. bottle.....	.30
1256—6 oz. bottle.....	.45

RECORD CLEANING PAD



For all who use records, this specially treated pad is necessary to clean and remove dust and accumulation from records, without harming them. You can sell record users one of these pads.

No.	Net Price
1290—Size 4" x 4".....	\$0.12
1290—Size 6" x 6".....	.18

TEN TIME PHONOGRAPH NEEDLES

Better quality needles that will play 10 records. Specially heat-treated to give better service and last longer. Good needles save your records. Available in extra loud, loud, medium and soft tones.

1421—50 to pkg., specify tone.....	\$.09
1422—100 to pkg., specify tone.....	.15
1423—Carton of 50 pkgs. of 100, assorted tones 7.20	
1424—Carton of 50 pkgs. of 100, specify tone..	7.20
1425—Carton of 50 pkgs. of 50, assorted tones 4.35	
1426—Carton of 50 pkgs. of 50, specify tone..	4.35

Phono-Turntable Lubricant

"A Stainless Lubricant"

A new special lubricant for phonographs. Other lubricants will thin and run to the lowest point of gravity on the mechanism, but this is specially formulated so that the lubricant clings to the surface of the parts. Eliminate trouble on phono repairs by using the best.



No.	Net Price
1222—2 oz. bottle.....	\$.021

Play Back Phonograph Needles



G-C Phonograph needles are made of the very finest grade tool steel. The points are precision ground, and are accurately cut. They are especially heat treated to give good service. Good needles save the cost of record replacements.

Available in extra loud, loud, medium and soft tones.

No.	Net Price
1401—50 to pkg.—specify tone.....	\$.08
1402—100 to pkg.—specify tone.....	.09
1403—Carton of 50 pkgs. of 100—assd. tones 4.35	
1404—Carton of 50 pkgs. of 100—specify tone 4.35	
1405—Carton of 50 pkgs. of 50—assd. tones 2.85	
1406—Carton of 50 pkgs. of 50—specify tone 2.85	

G-C RADIO HOOK-UP WIRE

G-C Hook-up Wire is constructed of quality material and is particularly intended for Radio Repair and Constructive Work. Available in either Solid or Stranded tinned copper conductors. Colors — Red, Black, Green, Blue, and Yellow.



SOLID PUSH BACK

Cat. No.	Size	Length	Net Price
801	22	25 ft.	\$.15
802	22	100 ft.	.51
805	20	25 ft.	.17
806	20	100 ft.	.57
810	18	25 ft.	.20
811	18	100 ft.	.72



STRANDED PUSH BACK

Cat. No.	Size	Length	Net Price
825	22	25 ft.	\$.17
826	22	100 ft.	.60
830	20	25 ft.	.20
831	20	100 ft.	.66
835	18	25 ft.	.23
836	18	100 ft.	.84

AC RUBBER CORD



"Approved by Underwriters' Labs" This high grade cord is one of the most popular items in the Electrical and Radio field for a general purpose cord. It can be used on radios, clocks, lamps, and appliances. No. 18 conductors completely covered with rubber.

No.	Net Price
845—Brown color, 100 ft. spool, per C ft.....	\$1.80
846—Brown color, 250 ft. spool, per C ft.....	1.74

GLASS DIAL CRYSTALS

Round Convex dial crystals. Now you can replace those cracked or broken dial crystals and Profit! Can also be used for clock crystals, instrument panels, etc. Available in all different sizes.



Diam. No. (")	Net Price	Diam. No. (")	Net Price	Diam. No. (")	Net Price	Diam. No. (")	Net Price
25 1 3/8	\$.21	35 3 1/8	\$.21	46 4 1/2	\$.27	57 5 3/8	\$.27
26 1 1/2	.21	36 3 3/8	.21	47 4 3/8	.27	58 6	.27
26A 2	.21	37 3 3/8	.21	48 4 3/8	.27	59 6 1/8	.27
27 2 1/8	.21	38 3 3/8	.21	49 4 3/8	.27	60 6 1/8	.27
28 2 3/8	.21	39 3 3/8	.21	50 5	.27	61 6 1/8	.27
29 2 3/8	.21	40 3 3/8	.21	51 5 1/8	.27	62 6 1/8	.27
30 2 1/2	.21	41 3 3/8	.21	52 5 1/8	.27	63 6 1/8	.27
31 2 1/2	.21	42 4	.27	53 5 1/8	.27	64 6 1/8	.27
32 2 3/8	.21	43 4 1/8	.27	54 5 1/8	.27	66 7	.30
33 2 3/8	.21	44 4 1/8	.27	55 5 1/8	.27	74 8	.30
34 3	.21	45 4 1/8	.27	56 5 1/8	.27		

SHELLAC STIKS

For permanently filling in holes and nicks in cabinets and fine furniture. All shades.

No.	Net Price
929—Light Walnut, 7" stick.....	\$.15
930—Dark Walnut, 7" stick.....	.15
931—Light Oak, 7" stick.....	.15
932—Dark Oak, 7" stick.....	.15
933—Black, 7" stick.....	.15
934—White, 7" stick.....	.15
935—Maple, 7" stick.....	.16
936—Special Spatula.....	.30
937—Alcohol Lamp.....	.15
938—Alcohol Lamp Fuel per pt.....	.45

Porcelain Patch Stick

Specially made for white Porcelain Refrigerators. Simply melt into nick and smooth off. Makes a perfect patch.



No.	Net Price
908.....	\$.15

No.	Net Price
DC-50—Kit of 50 dial crystals complete in handy Free Box.....	\$11.10

VACUUM CLEANER BELTS



Profit by displaying a card of Vacuum Cleaner Belts. Every Home is a potential customer. Belts made of the very finest grade of live rubber.

No.	Net Price
1010—24 assorted belts on a wire display.....	\$1.95
1011—Hamilton Beach Belt, G.E., Premier, etc.....	.06
1012—Hoover Flat Belt.....	.08
1013—Hoover Rubber round type ..	.15

Window Cleaner Concentrate

"Make your own window cleaner and save"



Here's exactly the same compound as is used in the popular window cleaners — make your own and save. You simply add the concentrate to water and have a first grade window cleaner. Concentrate is colored blue. Regular size bottle will make a quart of cleaner.

No. 1225—6 oz bottle.....	Net Price \$1.15
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ALUMINUM FOIL



The ideal shielding material now available in straight lengths. Can be used to form your own shields. Suitable for use as an inside aerial — can be tacked on the back or connected to the aerial post. Has a 100-l various uses for the Radio Experimenter or Serviceman. Aluminum .0025" thick and supplied in roll lengths.

No.	Net Price
1410—12" x 24".....	\$.24
1411—12" x 48".....	.36

Quality

XCELITE

Tools

XCELITE Shockless SCREWDRIVERS

● XCELITE is the original shock-proof, transparent handle screwdriver—introduced by us over FOURTEEN years ago.

Its attractive amber handle is both shock-proof and break-proof. It is specially designed to give the best possible grip—and is extremely easy on the hands. Blades are made of the finest Chrome Vanadium alloy steel, properly heat-treated, ground, and tested before assembly. Guaranteed not to burr.



R & E DISPLAY

This compact, attractive metal display contains an assortment of XCELITES specially designed for electric and radio requirements. Contains 55 screwdrivers in 22 sizes, including Phillips drivers. List Price, complete, \$39.45. Net \$26.30. Weight 17 lbs.

NOTE: First two (or three) numbers give diameters of blade, last numbers the length, as: R-144 = 1/4" diameter round blade 4" long, or S-3166 = 3/16" diameter square blade 6" long. "R" before the number means round blade; "S" means square blade.

Contains the following "XCELITES"

1 R-5323	1 R-1810	2 S-3166	4 R-3166
1 R-5324	1 R-31610	1 S-146	2 S-142
1 R-5325	3 X-101	1 R-148	2 R-142
1 R-5328	2 R-146	2 X-102	2 S-144
1 S-185	1 S-31610	3 R-144	3 S-141
1 R-186	1 S-3168	2 R-3163	2 SSX-102
3 R-184	2 S-3163	2 S-3163	1 SSX-101
1 R-188	2 S-3164	3 R-3164	

Xcelite

SCREW-HOLDING SCREWDRIVER

1 2 3 4

The Xcelite Screw-Holding Screw Driver is a tool for which electricians, radio men and mechanics everywhere have long searched. It is a genuine Xcelite product with a unique attachment that instantly and rigidly holds and starts any screw, even one without a head. Spring holder remains in place either above, below or exactly at the driver point. Grasps the screw at the head or 3/8" below giving three point suspension for greater rigidity. Can also be used for removing screws. Comes in 1/2" square blade, 3", 4" and 5". Packed 12 assorted lengths on metal display.

	List	Net
Display, complete	\$6.00	\$4.00
Each	.50	.33

Complete XCELITE Price List

SQUARE BLADES				ROUND BLADES			
No.	Size	List	Net	No.	Size	List	Net
SH-183	1/8" x 3"	\$0.50	\$0.33	*R-181	1/8" x 2"	\$0.25	\$0.17
SH-184	1/8" x 4"	.50	.33	†R-182	1/8" x 3"	.35	.23
SH-185	1/8" x 5"	.50	.33	*R-183	1/8" x 3"	.25	.17
S-183	1/8" x 3"	.35	.23	†R-184	1/8" x 4"	.40	.27
S-184	1/8" x 4"	.40	.27	*R-184 1/2	1/8" x 4"	.25	.17
S-185	1/8" x 5"	.40	.27	†R-186	1/8" x 6"	.45	.30
†S-3161	3/16" x 1"	.55	.37	†R-188	1/8" x 8"	.50	.33
†S-3162	3/16" x 3"	.65	.43	†R-1810	1/8" x 10"	.55	.37
S-3164	3/16" x 4"	.70	.47	R-5323	3/32" x 3"	.60	.33
S-3166	3/16" x 6"	.75	.50	R-5324	3/32" x 4"	.60	.33
S-3168	3/16" x 8"	.80	.53	R-5325	3/32" x 5"	.60	.33
†S-31610	3/16" x 10"	.90	.60	R-5328	3/32" x 8"	.65	.37
†S-141	1/4" x 1"	.55	.37	R-3163	1/4" x 3"	.60	.40
S-142	1/4" x 2"	.75	.50	R-3164	1/4" x 4"	.65	.43
S-144	1/4" x 4"	.80	.53	R-3166	1/4" x 6"	.70	.47
S-146	1/4" x 6"	.85	.57	R-3168	1/4" x 8"	.75	.50
S-148	1/4" x 8"	.95	.63	R-31610	1/4" x 10"	.85	.57
†S-5161	5/16" x 1"	.60	.40	R-142	1/2" x 2"	.70	.47
S-5162	5/16" x 2"	.80	.53	R-144	1/2" x 4"	.75	.50
S-5166	5/16" x 6"	1.00	.60	R-146	1/2" x 6"	.80	.53
S-5168	5/16" x 8"	1.10	.66	R-148	1/2" x 8"	.90	.60
S-51610	5/16" x 10"	1.20	.80	S-5166	5/16" x 6"	.95	.63
S-51612	5/16" x 12"	1.25	.83	R-5168	5/16" x 8"	1.05	.70
S-388	3/8" x 8"	1.20	.80				
†S-3812	3/8" x 12"	1.60	1.07				
†S-3818	3/8" x 18"	1.90	1.27				
†S-7166	7/16" x 6"	1.50	1.00				
†S-71612	7/16" x 12"	1.75	1.17				
†S-71618	7/16" x 18"	2.10	1.40				

† Stubby type.
† Large Double grip handles.

* 1/2" Handles.
† 3/8" Handles.
For blades insulated full length, any size 8 in. or less, add 25c to list. Over 8 in. up to 12 in., add 35c to list.

PHILLIPS SCREWDRIVERS

Xcelite Handles—Alloy Steel Blades

Cat. No.	Description	No. in Box	Weight per Box	List Price	Net Price
X-101	Length 3"	6	3/8 lb.	\$0.75	\$0.50
X-102	Length 4"	6	1 1/4 lb.	1.20	.80
X-103	Length 6"	6	2 1/2 lb.	1.50	1.00
SSX-101	Length 1 1/2" short stubby type	6	1/2 lb.	.70	.47
SSX-102	Length 1 1/2" short stubby type	6	1 1/4 lb.	.80	.53

PHILLIPS SCREWDRIVERS—Wooden Handles

Cat. No.	Description	No. in Box	Weight per Box	List Price	Net Price
P-101	Length 3"	6	1/2 lb.	\$0.50	\$0.33
P-102	Length 4"	6	1 1/4 lb.	.50	.33
P-103	Length 6"	6	2 lb.	.65	.43
SP-101	Length 1 1/2" short stubby type	12	1/2 lb.	.45	.30
SP-102	Length 1 1/2" short stubby type	12	1 1/4 lb.	.50	.33

No. 10 DISPLAY—This Display consists of 10 screwdrivers with 5/32" chrome plated blades in assorted lengths of 3", 4" and 5" all mounted on a very attractive metal display.

List Price, Complete \$5.15
Net Price, Complete 3.43
List Price, ea. S.D. .50
Net Price, ea. S.D. .33

No. 12 DISPLAY—Radio and Ignition Screwdrivers come complete with Pocket Klips assorted with 2", 3" and 4" chrome plated blades in the popular 3/4" diameter size. Packed 12 on an attractive metal display.

List Price, Complete \$3.15
Net Price, Complete \$2.10
List Price, ea. S.D. .25
Net Price, ea. S.D. .17

No. 332 Display—Same as No. 12 except diameter of blades is 3/32". Fits screws on knobs of midjet sets; also for fine instrument work. List Price, Complete...\$3.15 List Price, ea. S.D. .25
Net Price, Complete \$2.10 Net Price, each...\$0.17

No. 24 DISPLAY—The popular Xcelite pocket screwdriver (another original Xcelite introduction) has a 1/2" diameter chrome plated blade 2" in length. Comes 24 on an attractive metal display.

List Price, Complete \$6.20 List Price, ea. S.D. \$0.25
Net Price, Complete 4.13 Net Price, ea. S.D. .17



Quality

XCELITE

Tools

XCELITE NUT DRIVERS

Deep hex. sockets capable of handling two nuts are truly formed and entirely free from burrs—tempered and finished, handles of genuine amber XceLite are shockproof, breakproof and comfortable. Can be furnished with fully insulated shank if desired. Display stand holds 7 popular sizes either 6" or 9" long overall. Can also be furnished with 5 wrenches.

Nut Size	No. and Length	List Price	Net Price	No. and Length	List Price	Net Price
3/16"	No. 6—6"	\$0.65	\$0.39	No. A 6—9"	\$0.75	\$0.45
7/32"	No. 7—6"	.65	.39	No. A 7—9"	.75	.45
1/4"	No. 8—6"	.65	.39	No. A 8—9"	.75	.45
9/32"	No. 9—6"	.65	.39	No. A 9—9"	.75	.45
5/16"	No. 10—6"	.65	.39	No. A10—9"	.75	.45
11/32"	No. 11—6"	.65	.39	No. A11—9"	.75	.45
3/8"	No. 12—6"	.65	.39	No. A12—9"	.75	.45
7/16"	No. 14—6"	.85	.51	No. A14—9"	.95	.57
1/2"	No. 16—6"	.85	.51	No. A16—9"	.95	.57

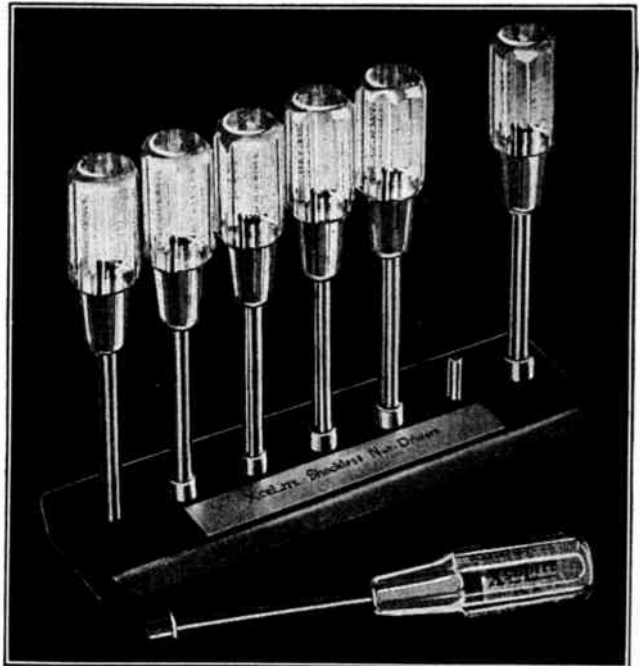
Average weight 2 lbs. per dozen

NOTE

For insulated shanks on No. 6 thru 16 \$0.15 list extra
 For insulated shanks on A6 thru A1615 list extra

NUT DRIVER DISPLAYS

No.	Description	List Price	Net Price
15	Nut Driver Display complete with 5 wrenches Nos. 6, 8, 10, 11, 12	\$8.45	\$2.07
17	Nut Driver Display complete with 7 wrenches No. 6 to No. 12	4.80	2.88
15	Display Rack only (holds 5 wrenches)	.20	.12
17	Display Rack only (holds 7 wrenches)	.25	.15



No. 17—Nut Driver Display

HOLLOW SHAFT NUT DRIVERS



This unique, time-saving tool was especially designed for general electrical and radio work. In radio, it is primarily useful in installing and removing volume control and other panel equipment. The nut is readily tightened or loosened without damage to the panel. On telephone or power switchboards, the Hollow Shaft Nut Driver is especially useful where nuts must be installed or removed over long protruding bolts or studs — made with or without insulated shafts. The former for use with high voltage work. Shafts insulated for protection up to 1000 volts; handles to 5000 volts.

Nut Size	Depth of Hole	No. and Length Overall	Weight per Box	List		Insulated Net	
				List	Net	List	Net
3/8"	2 1/4"	HS-10 6"	2 lbs.	\$0.90	\$0.54	\$1.05	\$0.63
3/8"	2 1/4"	HS-11 6"	2 lbs.	.90	.54	1.05	.63
3/8"	5"	HS-12 6"	2 lbs.	1.00	.60	1.15	.69
3/8"	5"	HS-14 6"	3 lbs.	1.00	.60	1.15	.69
3/8"	5"	HS-16 6"	3 lbs.	1.00	.60	1.15	.69
3/8"	5"	HS-18 6"	3 1/2 lbs.	1.20	.72	1.35	.81
3/8"	5"	HS-20 7"	3 1/2 lbs.	1.40	.84	1.55	.93

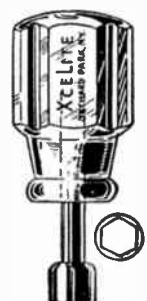
STUBBY NUT DRIVERS

These tools have all the features of the regular XCELITE Nut Drivers, plus the advantage of a short shank for working in close or difficult quarters where a powerful grip is required. The Stubby Nut Driver is a mighty practical tool for installing car radios, working around carburetors, fuel pumps, shock absorbers, etc. Made in 1/4", 1/8", and 3/8" sizes, with extra-deep hexagon sockets to handle two nuts at once.

Sockets are truly formed and free of burrs. They are tempered and fully finished. Handles are genuine shockproof XceLite.

Handle, 1 1/4" diameter
 Overall Length 3 1/4"
 Shaft, 1 1/4" hollow
 Weight per doz., 1 1/2 lbs.

List Price
 \$0.75
 Net Price
 \$0.45

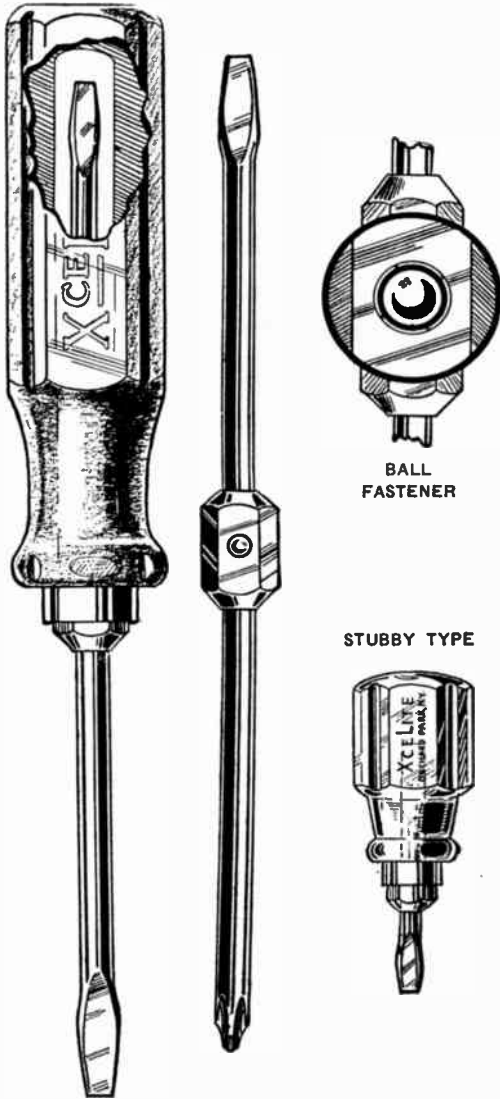


Quality

XCELITE

Tools

XCELITE "Combination Detachable" SCREWDRIVER



Here's convenience—and saving—combined in a mighty unique and useful tool. The XCELITE Combination Detachable Screwdriver has a genuine Xcelite Shockless Handle, hollow to receive the dual-blade screwdriver units listed below. With this practical Xcelite handle and, for example, a No. 2 Phillips blade on one end and a 1/4" Xcelite blade on the other, you have two screwdrivers for just about the price of one! What's more, you can buy blades of other sizes to fit the same handle. Note the unique ball fastener on the blade. This holds the screwdriver unit securely in place—yet readily slips out when desired.

BLADE COMBINATIONS

(Order by Number)

- No. 1 — No. 1 Phillips and 1/8" Xcelite
- No. 2 — No. 2 Phillips and 1/4" Xcelite
- No. 3 — 3/16" Xcelite and 1/4" Xcelite

STUBBY TYPE (overall length 3")

- No. S-1 Stubby — No. 1 Phillips and 1/8" Xcelite
- No. S-2 Stubby — No. 2 Phillips and 1/4" Xcelite
- No. S-3 Stubby — 3/16" Xcelite and 1/4" Xcelite

PRICES

	Regular		Stubby	
	List	Net	List	Net
Complete	\$1.45	\$0.97	\$1.10	\$0.73
Extra Handles .....	.75	.50	.65	.43
Extra Blades .....	.75	.50	.50	.33

6" XCEL Adjustable SOCKET WRENCH (with Attachments)

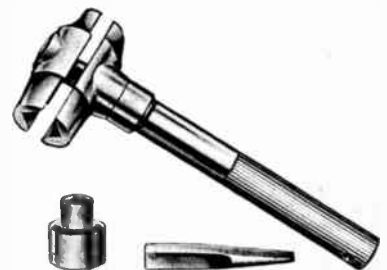
A whole set of tools in one! Easy, light-weight tool to handle; yet super tough due to its drop-forged construction of special chrome nickel steel. Chrome finished. Fits any size nut, hexagon or square, round or odd shaped, from 1/4" to 1". Has two mighty useful attachments—hammer head of unbreakable XCELITE and an alloy steel screwdriver to insert in small end of wrench to form offset screwdriver.

List Price, complete, \$1.75

Special Dealer Price \$0.98

Individually boxed, packed 6 to a self-selling display carton.

Weight, 6 lbs.



Quality

XCELITE

Tools

XCEL PLIERS

XCEL pliers are made for radio and electrical work. They embody in their design suggestions from radio and electrical engineers and technicians. Recent advances in the manufacture of alloy steel have enabled us to still further improve the quality. From drop forging to final inspection, the best methods and highest standards prevail. Xcel pliers are fully guaranteed against defects of material or workmanship

and any plier showing such defects will be cheerfully replaced if returned to us.

Please do not ask us to replace cutting pliers which have been abused by attempting to cut metal which has been case hardened or otherwise hardened. Pliers which have been filed or reground or burnt from a live wire are not replaceable. If pliers break, return ALL broken parts. Remember, pliers wear out. When they do, don't expect free replacement.



No. 60—Xcel Side Cutting Plier 6" List, \$1.75 Net, \$1.17

The handles of this plier are designed to afford the greatest leverage. The plier is lighter in weight than the regular lineman's side cutter and is designed for radio and light electrical work. Drop forged from finest alloy steel and skillfully tempered, its cutting qualities are unsurpassed by any side cutting plier. Knives are hand honed.



No. 58—Xcel Radio Special 7" List, \$2.75 Net, \$1.83

This plier must be seen to be appreciated. It combines the usefulness of a diagonal and needle nose. Excellent for crushing and stripping insulated wire. Knives are hand honed and useful in the "hard to get at" places.

NOTE: Not guaranteed against breakage.



No. 59—Xcel Chain Nose Electricians Plier 7 3/4" List, \$2.25 Net, \$1.50

A plier that should be in every Radio and Electrical worker's kit. It has literally a dozen special uses. It is of very sturdy construction yet is so streamlined that it easily gets into places no other plier can. A very popular number. Drop forged from finest alloy steel.



No. 55—Xcel Diagonal 5" List, \$2.00 Net, \$1.33

This plier has special features not found in any other diagonal on the market and embodies suggestions made by Radio and Electrical engineers. The throat of the jaws is flattened for crushing insulation on wires before removal and for taking out "kinks" in the wire. These pliers are drop forged from a special analysis alloy steel and the most exacting care is used in their heat treatment. The jaws are hand honed and will cut clean and stand up. This is a special diagonal plier designed for Radio Electrical use exclusively. Not recommended for general use.



No. 57—Xcel extra Long Duck Bill 7" List, \$2.00 Net, \$1.33

This duck bill plier has that extra long reach for the hard to get at place. It is sturdy, being made from a special alloy steel. Made to fit the hand. A superior plier of this type.



No. 56—Xcel Wrench Plier 6" List, \$1.10 Net, \$0.73

Here is the handiest battery plier you ever used. It is so designed that gripping the handle forces the object in against the jaws instead of out and away. Will handle anything round, square or hexagon, a wonderful all around general purpose plier. Has jaws milled with pipe wrench teeth. Drop forged from tough nickel molybdeum steel, expertly heat treated. Range of jaws 3/8". Three adjustments.



No. 51—Xcel Long Needle Nose and Side Cutter Plier 7" List, \$2.00 Net, \$1.33

Xcel long needle nose side cutting plier is drop forged from the finest alloy steel. The nose is spring tempered and the cutting knives are hand honed. Every radio repair man knows how handy this plier is.

No. 62—Xcel Ignition Plier 5" List, \$0.90 Net, \$0.60

This plier is of the same general construction as the No. 56 except it is much smaller, being 5" long. Extremely useful both for Radio and ignition work.

RADIART VIBRATORS



Guaranteed **EXACT** *DUPLICATE* **1 YEAR**



\$25 WORTH of INFORMATION

for only **25¢**
RADIART VIBRATOR MANUAL

NEW 1940-41 EDITION

is the authoritative reference book on Auto Radio Vibrators. 128 pages packed with helpful and profitable information for servicemen and dealers.



Guaranteed **1 YEAR**

COMPLETE PRICE LIST — RADIART VIBRATORS

CONSULT RADIART MANUAL FOR DIMENSIONS AND COMPLETE TECHNICAL DATA

No.	Price	No.	Price	No.	Price	No.	Price	No.	Price	No.	Price	No.	Price
2819	\$3.45	3318	\$7.50	3786	\$3.95	4257-32	\$6.50	4609	\$7.50	5327P	\$3.00	5411	\$4.85
2867	3.45	3319	5.95	3789	4.95	4260	2.95	4611	5.50	5331	2.85	5413	4.95
3200	3.45	3320	2.50	3815	3.95	4306	3.95	4613	5.50	5333	2.85	5415	4.95
3223	2.95	3356	3.95	3849	5.95	4306-12	3.95	4614	5.50	5334	2.95	5420P	3.25
3225	4.45	3375	3.95	3850	5.95	4314	4.95	5300	2.95	5335	2.95	5421	4.85
3226	3.95	3395	4.45	3983	5.95	4318	3.95	5301	2.95	5339	2.85	5422	5.80
3227	3.95	3417	3.95	3983-12	7.90	4319	5.95	5303	2.95	5340M	2.90	5426	4.95
3263	2.95	3442	3.95	4253	4.90	4320	3.95	5304	3.95	5341M	2.90	5427	4.95
3263	5.95	3443	6.50	4253-12	4.95	4332	3.95	5308	3.45	5342M	2.90	5428	4.95
3290	5.95	3444	6.50	4253-32	4.95	4404	5.50	5312	3.95	5365	3.85	5431	5.50
3308	5.95	3445	6.75	4254	4.95	4414	4.95	5313	2.95	5400	4.95	5433	4.95
3310	8.00	3460	4.95	4254-12	5.50	4415	7.00	5320	2.50	5404	4.95	5434	4.95
3311	9.00	3461	5.50	4254-32	5.50	4415-12	7.50	5321	2.95	5406	4.95	5435	4.95
3312	9.00	3462	6.75	4255	6.90	4501	5.95	5322	2.95	5406-12	5.50	5436	4.95
3313	3.95	3463	7.50	4255-12	5.90	4502	5.95	5323	2.90	5407	4.95	5437	4.95
3314	8.00	3503	4.95	4255-32	6.90	4504	5.50	5324	3.95	5409	4.95	5438	4.95
3315	5.90	3607	5.95	4255H	5.90	4505	5.95	5325P	2.50	5409-32	5.50	5439	4.95
3316	10.00	3608	4.45	4257	5.90	4607	7.25	5326P	2.50	5410	4.95	5439-12	5.50
3317	5.95	3651	5.45	4257-12	6.90								

Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base
ACRATONE				62-258	5400	4.95	AB	ARVIN			
32C, 33C	5410	\$4.95	O	62-282, -282, -284, -459, -552				3	5300	2.95	A
40	5301	2.95	A	-851, -852	5433	4.95	V	6	5300	2.95	A
42D, 43D, 44D	5303	2.95	A	93BR657A, 93BR666A	5433	4.95	V	7, 8A, 9A	5300	2.95	A
48, 51	2867	3.45		62-292, 62-294, 62-284, 62-280A	5411	4.95	V	10A-1, 10A-2, 10	2867	3.45	
53D	5300	2.95	A	62-327, 62-331, 62-337	5422	5.50	AE	16	3283	2.95	Q
62, 92A, 94A	2967	3.45		62-334	5437	4.95	AB	17A, 17B, 17C	5300	2.95	A
167B, 167D, 168B, 168D	5410	4.95	O	62-345	5411	4.95	V	18, 18FW	5300	2.95	A
250B, 259B, 260B	5300	2.95	A	62-363	5411	4.95	V	19	5300	2.95	A
480	2867	3.45		62-364	5438	4.95	AB	20A, 20B	2867	3.45	
640	3308	5.95		62-368	5411	4.95	AB	22A	5300	2.95	A
K6, L7	5410	4.95	D	62-373, 62-374	5411	4.95	V	23 (1st)	2867	3.45	
U6	5300	2.95	A	62-427, 62-437, 62-441	5422	5.50	AE	23 (2nd)	3283	2.95	Q
X6 Z, Z5	5410	4.95	O	62-463	5411	4.95	V	27	5300	2.95	A
ADDISON				62-465	5411	4.95	V	29, 26EM, 290M	5300	2.95	A
531, 531	2967	3.45		62-553	5300	2.95	A	29	5300	2.95	A
W55	4606	7.50	Z	62-554	6438	4.95	AB	30A, 30B	2867	3.45	
8 Tube Deluxe	5300	2.95	A	62-650	5411	4.95	V	32	5300	2.95	A
ADMIRAL				62-653	5439	4.95	AB	33, 330M	5300	2.95	A
5F, 6P, 6P1, 7A, 7J, 55, 66, 69, 77, 78, 68, 660	5300	2.95	A	62-750, 62-751, 93BR564A	5307	2.95	A	35	3283	2.95	Q
770, 780, 880, 950-6A, 965-6A	5410	4.95	O	87	2819	3.45		37	5300	2.95	A
6A, 6D, 512-6D	5410	4.95	O	93BR666A	5433	4.95	V	38	5300	2.95	A
965-6P, BA, 41, L7	5410	4.95	O	192	3283	2.95	Q	39, 42	5300	2.95	A
PH-16, U6	5300	2.95	A	110, 165L	5300	2.95	A	44C	5300	2.95	A
RPC, X6, X541, X741, Z4, Z5	5410	4.95	O	199, 202	3417	3.95	B	45 (1st & 2d)	3283	2.95	Q
FY23 (L-Tetro)	3462	6.75	G	Auto Radio (D&T)	4320	3.95	R	618, 628	5409	4.95	K
AIRCASTE				32v. Household (Sync.)	3443	6.50	G	517, 517B, 527B	5409	4.95	K
6	4316	3.95	S	AIRMASTER	3651	5.45	K	518B	5409	4.95	K
330P	5410	4.95	O	31B, 34B, 49B, 50B	5413	4.95	K	617, 617B, 627B	5409	4.95	K
603	3275	3.95	S	63B, 63CB, 63BT, 680CB, 68BTE	5413	4.95	K	ASSOCIATED RADIO			
611, 660	4316	3.95	S	73BA, 73BT, 96BCE, 96BTE, 119BC				8 volt (4 prong)	5300	2.95	A
14-1125	5300	2.95	A	119BCT, 130BC, 130BT, 140BC, 140BT	5403	4.95	K	32 volt (6 prong)	4314	4.95	T
14-128	5409	4.95	K	100XC, 100XT, 144XC, 144XT	5301	2.95	A	ATWATER KENT			
BA41, L7, X6, Z4, Z5	5410	4.95	O	AIR MATE (See also B.O.P.)				126, 136	5300	2.95	A
U6	5300	2.95	A	65	3315	5.50		132, 135Z, 138, 215Z	4314	4.95	T
6 Pr. Sync.	5411	4.95	V	544287	3461	5.50	O	237Q, 237Z	5300	2.95	A
AIR-CHIEF (See also Firestone)				ALL-AMERICAN MOHAWK (See Wurflizer)				265Z, 305Z	4314	4.95	T
66	3315	5.50		ALLIED RADIO CORP. (See Knight)				418, 446	5300	2.95	A
AIRLINE				AMRAD				42, 53A	5300	2.95	A
54	3883	5.50	AB	F 548	5411	4.95	V	467Q	5300	2.95	A
80, 62	6300	2.95	A	ANDREA				556	5300	2.95	A
62-118, 62-106	3117	3.95	B	6 volt, 610, 611, 612, 613, (C&B)	5408	4.95	K	565FF, 565Z	4314	4.95	T
62-130	3442	3.95	B	(32 volt) 610, 611, 612, 613, (C32B)	5409-32	5.50	K	666, 776	3223	2.95	T
62-126, 62-138	3395	4.45	A	616, 617, 618, (D&B)	5429	4.95	K	616, 626	3448	5.95	
62-189	3883	5.50	AB	626, 627, 628 (ENB)	5411	4.95	V	AUBURN (See Cord also)			
62-202, 62-236, 62-242, 62-263	5300	2.95	A	ARCADIA (See Well; Gardner)				ASA2	3317	5.95	
								ASA3	3789	4.95	AA
								98052A, -526	4611	6.50	P



RADIART VIBRATORS

Guaranteed **EXACT** **DUPLICATE** **1 YEAR**



Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base
AUDIOLA (See also Fairbanks-Morse)				06W, 072A				48L1			
2357 (1st), 3358 (1st), 3357 (1st)	3444	8.50		072, 2721	3443	7.50	N	498, 687, 808, 508T	5300	2.95	A
2357 (2d), 3358 (2d), 3357 (2d)	2967	3.45		2722	3116	7.50	O	638C, 638T, 688CE, 688TE	5413	4.95	K
2357 (3d), 3358	4500	8.95		1425470, -471	5403	4.95	AB	738A, 738T, 888CE, 888TE	5413	4.95	K
3358 (1st)	3462	8.75	G	1433970 (C8)	5404	4.95	AH	100 XC, 100XT	5301	2.95	A
3358 (2d)	3608	4.45		7232502	5426	4.95	P	489	5411	4.95	V
43C18, 43T18, 73C28, 73C38, 73T38	5411	4.95	V	7238350	5334	2.95	F	500	5321	2.95	A
64	5300	2.95	A	CAPTAIN (See L'Atre)				534	5411	4.95	V
67	5411	4.95	V	CANADIAN RADIO CORP.				566	5300	2.95	A
74	5300	2.95	A	513C, 513 OOR				580	3442	3.95	R
345, 346, 347	3356	3.95	T	CAVALCADE				686, 687	5300	2.95	A
6717, 6748	5411	4.95	V	54, 64, 358				670	4320	3.95	R
86	3356	3.95	T	3511				677, 677A, 677B	8302	2.95	A
CA	5300	2.95	A	CAVALIER (Autophone)				680	4320	3.95	R
Audiola 32 Volt	3608	4.45		M85T, M85S				803A, 803B	4320	3.95	R
AUTOCRAT (Horn)				CHAMPION				CROSLY			
5	2967	3.45		5				AS42			
23, 24	5300	2.95	A	400				AS43, A155			
505, 618, 618S, 630, 618, 618S	5300	2.95	A	801, 800				A156			
6032	3225	4.45		801				A157			
AUTOMATIC				Power Supply				A158			
A1, A3, A8	3227	3.95		CHEVROLET (See also B.O.P.)				A167			
J90, J60, J70, J80	3227	3.95		264441				A168			
M10, M20, M30, M40, M60	3227	3.95		600183				A169			
C-15, M70, M80	3227	3.95		600248, -868, -888				A177			
A800, AR800, Tom Thumb	2967	3.45		601038				A178			
AUTOPHONE (See Cavalier)				601177				A-169			
AUTO-ROLA				601177				A177			
J50, J60, J70, J80				601228, -874				A196			
3227				601886				A255			
AUTOTONE				601882, -814				A259			
6 Tube				988100				A267			
5411				988200				A358			
BALDWIN				988252, -283, -284, -285				P368			
54, 64				988283, -284				J368			
5300				988285				A455, A555			
BALKEIT				988300, -301				B48			
GT 156 BA, 157BA, L7, X4, Z4, Z5				988400				B567A, B667A, B667M			
5410				988424, 988426				C159			
BELMONT				988537				SA3, 691			
408				988538				98, 99, 101, 102			
415A, 415B, 468A, 504, 504A				988538				103			
5411				CHRYSLER (See also Philco (Chrysler))				118, 159			
505A				25C4				167			
563A, 751A				C-1708				418, 435, 546			
585, 567A				CLARION (T. C. A.)				557 (C-44185)			
577				31, 37				625			
577A, 577C				60, 61, 70, 71, 80, 81, 110				636			
580				453				645			
611				582				40-9			
680				646, 746, 846				6613			
680 (Complete Replacement Pack)				TC 16				DE FOREST CROSLY (Canada)			
3314				TC 50				31, 610, 610A, 513, 513A, -B, -C, -O			
681				CLIMAX				60471			
686, 686A, 686B, 667, 669				85				5305			
670				AKE				625, 626, 627, 628, 629			
670A				CLINTON				631, 631A, 632, 633			
678A				801, -2, -3, -4, -5, -6, -7, -8, -9				634			
677				6V8				635			
680, 680A, 680B, 680C, 690				COLONIAL				3203, 3204			
4320				100B				4049, 4050, 4051			
751A				134				R640, R641, R642, R644, R664			
804				160				R642			
822-A				164				R665, R666, R667, R668, R669			
890A, 890B				164 B				R673 (Police)			
890C				240				R675, R677			
881				348 (F)				R678			
1832 Models				350				R678			
BENDIX				355, 358, 361				R685			
RP2A (Police)				COMMANDER (See L'Atre)				R687, R688			
5408				CONSOLE (See L'Atre)				R6010, R6015			
BLACKHAWK				CONSOLIDATED				R6011, R6012			
8U, 84				81				DELUXE			
3417				CONTINENTAL				6 Pr. Non Sync.			
B.O.P. (Buick-Olds-Pontiac)				AZ 603, L7, M551, M587				6 Pr. Sync.			
293884, 544245, -246, -267, -286				U8				DETROIT			
980383, -383				X8, X841, X741, Z4, Z5, 2544				6A, 6M, 6R			
980441, -455, -458				60, 7A				14-129, 180, 184			
BOSCH				6P, 6PU, 7J				111, 112, 166			
45A, 45C				56				144, 144B, 144C			
78				66, 66, 77, 78, 88, 980, 770, 980, 950-8A, 965-8A				1458, 145CR			
140-A, 140-2, 140-3				965-8P				1100, 1100A			
150-1				CORD				1934-1935 Models (leads)			
150-2, 160				A245, A285, A455				6753			
178				CORNELL-DUBILIER				DE WILD (See Pierce Arrow)			
189 HB, 189 HR (Police)				3 lead (non-syn-c)				DOMINION ELECTROHOME			
337, 524A				3 lead (non-syn-c)				Travel Re-l.			
536, 536B				CORONA				V7-32-81-P, V7-32-82-P			
600				106, 122				3 Leads			
634, 634A				212, 214				5085-V			
634A(2)				CORONADO (Gamble-Skogmo)				5085-V			
636, 637				5C8, C8				5085-V			
735, 736, 737, 738				8Y				5085-V			
818				6C1				5085-V			
838, 858				6J, 6JA, 6JB, 6K				5085-V			
BUICK (See also B.O.P.)				6L				5085-V			
844245, -246				6U				5085-V			
980383, -383				15C8				5085-V			
980441, -455, -499				28B5, 8B				5085-V			
990507, -508, -509, -525, -529				28R1				5085-V			
990534, -535				28S1				5085-V			
990820 (1314523)				31B7, 34B7				5085-V			
1291344A, -345								5085-V			
1304873, -874 (980586, -587)								5085-V			
1308221 (980598)								5085-V			
CADILLAC-LESALLE								5085-V			
8X								5085-V			
8C, 8J, 8KB								5085-V			
8R								5085-V			
8S, 8U2								5085-V			
8C8								5085-V			
56V1, 82								5085-V			



RADIART VIBRATORS

Guaranteed

EXACT
DUPLICATE

1 YEAR



Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base
ECHOPHONE				GENERAL MOTORS (Canada)				JOHN HOLMES			
1835 Models	5300	2.95	A	134, 135	3315	5.50		3 Lead	2067	3.45	
Household Models	5411	4.95	V	136, 137, 138	3461	5.50	O	KADETTE (See International)			
ELECTRIC AUTO-LITE				540, 640, 641	4613	5.50	O	KARADIO			
062A	3443	9.50	Q	650, 651, 750, 751	5300	2.95	A	5PS, 807, 803, 809	5304	3.95	I
072A	3318	7.50	N	GENERAL TRANSFORMER B Eliminators				55 (Police)	5312	3.95	Q
ELECTRONIC				6 Pr. Plug-in	3226	3.95	U	56, 57, 57B	3308	5.95	
25	6313	2.95	A	3 Lead, Nn. 3061 Park	2967	3.45		65, 66, 67, 67S, 75, 76, 77, 77S, 88	5365	3.95	Q
331	2067	2.45	A	GILFILLAN				150, 160, 180	3223	2.95	Q
332	3225	4.45	A	7A, 700	3263	2.95	Q	667	5409	4.95	K
EMERSON				8X	3263	2.95	Q	727 (Sheriff)	9312	3.95	Q
AS	5411	4.95	V	4 Pr.	5300	2.95	A	805, 808	5300	2.95	A
A5 179	5300	2.95	A	GLOBE				KENYEOY			
E, E122, E128	5300	2.95	A	G. M. TRUCK				670	4320	3.95	R
F7	5300	2.95	A	7233966	5303	2.95	F	KENT			
F122, F133, F135, F141, G127	5300	2.95	A	7233967	5393	2.95	F	4-Prong	5300	2.95	A
K538	3283	2.95	Q	GOLDENTONE, GOLD MEDAL				KNIGHT			
P, P117, P138	5411	5.50	AG	L7, X8, Z4, Z5	5110	4.95	O	A9728, A9729, A9730	5110	4.95	O
U154, V195	5300	2.95	A	7A	4951	5.95	AB	A9760, A9769, A9770	5413	4.95	K
1A	3283	2.95	Q	74	5300	2.95	A	A9776, A9777, A9778 (25)	5410	4.95	O
2A	5300	2.95	A	J6	5300	2.95	A	A9780, -1, -2, -3, -4, -6, 87, A9880 (U6)	5300	2.95	A
8A	3890	5.95	AB	Goldentone	5421	4.95	V	A9833 to A9839	5413	4.95	K
8A	3300	2.95	A	GOODRICH				A10500 (6P)	5410	4.95	O
34F7, 101F7	3300	5.95	Q	80, 65	5300	2.95	A	B10545, B10546, B10547, B10548, B10549	5410	4.95	O
667	3283	2.95	Q	80	5300	2.95	A	B10550, B10551, B10552, B10553	5300	2.95	A
640, 678-1, 678-2	3308	5.95	Q	80, 90	5300	2.95	A	B10575	5301	2.95	A
965, 979	3283	2.95	Q	670	4323	3.95	R	B10600, B10608	5413	4.95	K
EMPIRE				GOODYEAR (Wings) See Belmont Also				B10728, B10730, B10732	5411	4.95	V
60	2067	3.45		504A	5411	4.95	V	B10733	5300	2.95	A
ERLA (See Sent nail)				580	4320	3.95	R	B10742, B10744, B40780	5411	4.95	V
FADA				681	5300	2.95	A	B10782, B10784, B10786, B10790, B10791	5300	2.95	A
101 (RK), 102 (RP), 104 104B (RV)	3313	3.95		686	5300	2.95	A	E10719, E10720, E10721	5411	4.95	V
128, 127, 128, 163 (NK)	5409	4.95	K	687	5300	2.95	A	E10725	5436	4.95	V
188	5300	2.95	A	670	5300	2.95	A	E10727	5411	4.95	V
286, 286SD, 286SF, 286SG	5300	2.95	A	01018	4320	3.95	R	E10751	5300	2.95	A
287, 287SD, 287SF, 287SG, 287K	5300	2.95	A	01018 (881)	5300	2.95	A	E10752	5300	2.95	A
288, 1298	5427	4.95	V	01020	5300	2.95	A	E10756	5300	2.95	A
FAIRBANKS MORSE (See Audio also)				01554 (505)	5307	2.95	A	E10790	5413	4.95	K
4A, 4B, 6C, 6CC-28, 6CT-48, 43C18, 43T18, 72C38, 72T38	5411	4.95	V	01010 (887)	5300	2.95	A	E10825, E10826, E10827, E10828, E10829, E10830, E10831, E10832	5411	4.95	V
FEDERATED PURCHASER (See Acetone)				015120, 015121	5411	4.95	V	E10882, E10883, E10884, E10885, E10886, E10887	5300	2.95	A
FERGUSON				015110, 015111	5411	4.95	V	E10891	5300	2.95	A
F355	5408	4.95	K	015130, 015131	5300	2.95	A	E10906, E10907	5413	4.95	K
6 Pr.	3283	2.95	Q	01028 (415A, 415B, 489)	5411	4.95	V	F9451, F9515, F9541	2067	3.45	
FIRESTONE				100502	5300	2.95	A	F9551	3442	3.95	
AU-10	5136	4.95	V	101500	5300	2.95	A	F9561	3444	6.00	
Trav-lar	5133	2.95	A	101501, 101502	5300	2.95	A	F9737, F9741	2067	3.45	
54, 64	5300	2.95	A	GOVERNOR (See L'Atre)				F9777	3395	4.45	
1121 (R112)	2067	3.45		GRAHAM (GRAHAM-PAIGE)				G8513, G8517	2067	3.45	
1182 (R118)	5303	2.95	A	A355, A555	4613	5.50	O	G8599	2067	3.45	
1314 (R131)	5300	2.95	A	G1418, G1528	5320	2.50	A	G1615	3396	4.45	
1322 (R132)	7414	4.95	AO	G1438	5320	2.50	A	G8875, G8878	4908	7.90	
1332 (R133)	5303	2.95	A	G1528	5320	2.50	A	G8881, G8882, G8900	2067	3.45	
1431 (R143)	5321	2.95	C	GRAYBAR				H8728	5300	2.95	A
1781 (R178)	5331	2.95	C	150-2	3283	5.95	K	H9751	5410	4.95	O
7408-1, 7407-1	5409	4.95	K	61R	2067	3.45		H9768	5300	2.95	A
7407-3, 7406-1	5333	2.95	F	GREBE				H9817	4808	7.90	Z
57407-5	5334	2.95	F	GRIGSBY-GRUNOW (See Majestic)				H9850	5410	4.95	O
7407-8	5333	2.95	A	GRUNOW (General Household Utilities)				H9878	4808	7.50	Z
H7424	5411	4.95	V	410, 411 (4NB), 711, (7NB)	5409	4.95	K	H9897	5300	2.95	A
7428	5303	2.95	A	508, 509 (5AB)	5300	2.95	A	988, 988E, 989, 989E	5413	4.95	K
57424-3, 57428-1	5411	4.95	V	614, 618	625	2.95	A	6420, 6426	4808	7.50	Z
FORD				625	4504	5.50	P	LAFAYETTE			
FND-N, FT6	3323	2.95	A	1938 Household Models	4611	5.50	P	AM20	3223	2.95	Q
FT	3225	2.95	A	GULBRANSON (See Wells Gardner)				A80	3283	2.95	Q
F1440, F1540, F1542	5320	2.50	A	HALSON				B51	5300	2.95	A
F1442	5320	2.50	A	98U	5300	2.95	A	B82, B82	3893	5.50	AB
F1640	5325P	2.50	A	199, Roadmaster	3442	3.95	A	B84	3395	4.45	A
F-1740	5328P	2.50	A	199, Roadmaster, 14 prong, 580	5300	2.95	A	B90	5300	2.95	A
6M390 (Zenith)	5321	2.95	A	HARLEY-DAVIDSON				C80	8300	2.95	A
6M490	5300	2.95	A	EG 45A, M17815	5439	4.95	V	C97, O45, D46, EB17, EB17A, EB57, J41, J42	5300	2.95	A
5601M	3283	2.95	Q	560	5321	2.95	A	J80	4608	7.50	Z
40-18845	3283	2.95	Q	670, Highwayman	4320	3.95	R	LW10	3798	3.95	I
40-18805, Glove-Box Police, Majestic	2442	3.95	Q	HORN (See Tiffany Tone)				L22	2619	3.45	
Lineup, Marconi, Zenith	3263	2.95	Q	HOWARD				L23	3283	2.95	Q
Packs for Ford Majestic With rectifier	3312	10.00		HA 1	4320	3.95	R	L30	3417	3.95	B
Without rectifier	3310	8.00		HA 2, 52, 502	2067	3.45		L17782	3318	7.50	N
FORDSON				HA 3, HA 4	5300	2.95	A	M44	4608	7.50	Z
FP32V	3225	4.45		HA 6	5300	2.95	A	O62, O62A	3443	6.50	Q
FREED				HA 7, HA 8, HA 9	5300	2.95	A	S9, S79	5300	2.95	A
A9	3318	7.50	N	H7424-3, 648	5411	4.95	V	S17762	3318	7.50	N
FRESHMAN (See Belmont)				6B, 6BA, 6BT, 7BT	5411	4.95	V	25, 9682	4608	7.50	Z
GALVIN MFG. CORP. (See Motorola)				HUDSON-TERRAPLANE				6 Pr. Automotive	3318	3.95	S
GAMBLE-SKOG MO (See Coronado)				C86, DB37, DB38, SA17, SA38	5405	4.95	AD	6 Pr. Household	5411	4.95	V
GAROD				SA39, SA40	5331	2.95	C	LAFAYETTE (Nash-Lafayette) (See Philco)			
B37	5300	2.95	A	HE	5300	2.95	A	LARKIN			
286, 286-1, 386, 386-3	5413	4.95	K	650, 650MO, 651HE, 660, 660TO, 661TE	2647	3.45		16, 90, 91	2067	3.45	
GENERAL				656, 668, 680	5321	2.95	A	LA SALLE (See Cadillac-LaSalle)			
3001, 802, 803, 804, 805, 805, 807	5303	2.95	A	114300	5300	2.95	A	LAUREHK			
GENERAL ELECTRIC				Majestic Head	3412	3.95		A37, AE5, AE6, AE79, AM6, 68	5300	2.95	A
B40, B52, C41	3319	5.95		Marconi	2067	3.45		LEWOL			
C60	3417	3.95	B	180321, 180322	5331	2.95		9101, 9102	2067	3.45	
C61	4115	7.00	AC	HUPMOBILE (See Philco)				9682	4608	7.50	Z
O50, D51, D52	3933	5.50	AB	IMPERIAL				LIEUTENANT GOVERNOR (See L'Atre)			
O72	5300	2.95	A	5 Prong	4320	3.95	R	LINCOLN, LINCOLN-ZEPHYR			
FA60, FA81, FA85	5430	4.95	AR-N1	Household	5410	4.95	O	L1429, L1424, L1425, L1427, L1429, L1460	5320	2.95	A
FB53, FB57, FB73, FB77	5300	2.95	A	INTERNATIONAL (Kadette)				L1560	5320	2.95	A
K6M, K7M	5411	4.95	V	K6, K60	5303	2.95	A	LT14X3, LT14X4	5923	2.95	A
M51, N51	5432	4.95	AB	JACOBS	3283	2.95	Q	Utah Pack	3263	2.95	Q
M58, M60, M68, M59, M632	5303	2.95	A	Household	5411	4.95	V	LION RADIO			
6BK, 6BT	5415	4.95	K	JOHN HOLMES				612	5411	4.95	V
6M2	5435	4.95	AO	KADETTE (See International)				LIONEL			
10V	5415	4.95	K	GENERAL TRANSFORMER B Eliminators				4 Prong	5300	2.95	A
N80	5320	2.95	A	6 Pr. Plug-in	3226	3.95	U	LAUREHK			
UB1, UB5	5411	4.95	V	3 Lead, Nn. 3061 Park							



RADIART VIBRATORS

Guaranteed EXACT DUPLICATE 1 YEAR



Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base	
LITATRO				15F, 22S, 25N				5340M 2 50 A				
A235, A523	3395	4.45	A	16C, 18-O, 26C, 29B-6	5341M	2 50	A	101	2067	3.45		
AQ-89	5304	3 95	I	17D, 17D-A	5341M	2 50	A	102	2667	3 45		
B5 25	3395	4 45	A	19B, 700	5341M	2 50	A	101B, 101C, 102B	5300	2 95	A	
BQ-89	5304	3 86	I	23P, 21L, 24K, 26C7, 27D, 28-D, 30P	5340M	2 50	A	692, 9682	4608	7 50	Z	
C625, C925	3395	4 45	A	29B	5341M	2 50	A	PACKARD BELL				
CQ-89	5304	3 95	I	34	5300	2 95	A	25		3263	2 95	Q
L1625, D925	3395	4 45	A	35	5340M	2 50	A	65		3442	3 95	S
DQ-89	5304	3 95	I	35N	5342M	2 53	A	75, 76, 78		5300	2 95	A
EN8-4	5411	4 95	V	44	3220	8 95	L	PACKARD MOTOR CO. (See Philco also)				
E83	3462	6 75	G	44A	4502	5 95	L	PA-333195, PA-351099, PA-351103, R3271,				
EQ-38	3395	4 45	A	45	5340M	2 50	A	R3271C, PA-351101, PA-351102, R3291,				
F	3283	5 95	K	43BR2	5421	4 95	V	R3291C	5331	2 95	C	
F203	3462	6 75	G	45	5340M	2 50	A	PB, PBD	3320	2 50	A	
F725	3395	4 45	A	55, 55A	4607	7 25	V	PHD H122, PHXD	3323	2 50	A	
F913, F923	3462	6 75	G	60Y	5411	4 95	V	PT5	3323	2 50	A	
F925	3395	4 45	A	67	3815	3 95	B	PT14	5323P	2 50	A	
FQ-38	3395	4 45	A	60	5340M	2 50	A	P1417, P1517, P1530, P1535, P1617,				
G83	3462	6 75	G	61	3444	6 50	A	P1630, P1635	5320P	2 50	A	
H405, 1455, 1465	3283	5 95	K	62	3815	3 95	B	P1421, P1422, P1426, P1433, P1332H, P1439	5323P	2 50	A	
HQ-39	3395	4 45	A	65	5340M	2 50	A	PACKARD RADIO CO.				
IN-25	3395	4 45	A	68, 88A	4502	5 95	L	6	5300	2 95	A	
J5	3462	6 75	G	70	5340M	2 50	A	PARMAK				
J565, 1065, K665	3283	5 95	K	78	3815	3 95	B	6V-M-H	5410	4 95	D	
L54	3463	7 50	N	77	3445	7 60	B	76	5411	4 95	V	
L74	3395	4 45	A	77A, 77A-B	4502	5 95	L	733	5435	4 95	V	
L4618, M4618	4608	7 50	Z	85	5340M	2 50	A	PATHFINDER				
N54	3463	7 50	N	88	3444	6 50	A	3060	2067	3 45		
N74	3395	4 45	A	90	5340M	2 50	A	PHILCO				
N4616	4608	7 50	Z	100, 110	3815	3 95	B	AC206	3320	2 50	A	
ND-65	5411	4 95	V	250	5342M	2 53	A	AC206 (122)	3320	2 50	A	
NQ-89	5324	3 95	I	300	5343M	2 53	A	AC236	3320	2 50	A	
OR4	3463	7 50	N	350	5342M	2 53	A	AC296	3320	2 50	A	
D94	3395	4 45	A	450	5343M	2 53	A	AC308, AC309 (122)	3320	2 50	A	
D4626, D5636	4608	7 50	Z	503	5341M	2 53	A	AC1089	3320	2 50	A	
DD-65	5411	4 95	V	924	5342M	2 50	A(N5)	AC1189, AC1289, AC1969	3320	2 50	A	
P54, P64	3395	4 45	A	924	5340M	2 50	A	AR-1	5326P	2 50	A	
P4626, Q4626, Q5636, R5236, R5836, S5636	4608	7 50	Z	944, 949	5340M	2 50	A	AR-4, AR-6, AR-7	5326P	2 50	A	
S6636	5304	3 95	I	963	5341M	2 50	A	AR-5	5326P	2 50	A	
SP-67	5304	3 95	I	963	5340M	2 50	A	AR-8	5326P	2 53	A	
T8218, U5226, V5226, W6236, X6236, Y6236	3395	4 45	A	Companion	5340M	2 50	A	CG (122)	3320	2 50	A	
TP-67	5304	3 95	I	Dual Six (D6)	3417	3 95	B	C (NGD, SCD, C122 / SCD122)	3320	2 50	A	
5A, 6A	3283	5 95	K	Gold-Ton Vehicle	5340M	2 50	A	CGD-G	3320	2 50	A	
LYRIC (Canada)				Super 6-A	4502	5 95	L	CGD122 (G122)	3320	2 50	A	
A60, 69, 480	2867	3 45		Twin E-14 (T8)	3417	3 95	B	CRD (R), CRD122 (RA22)	3320	2 50	A	
MAESTRO				Police	5313	2 95	A	CT2, CT5	3320	2 50	A	
32V-M-H	5410	4 95	D	Police Cruiser	5313	2 95	A	CT10, CT11	5323	2 50	A	
MAJESTIC				Railroad	3395	4 45	A	C122 (SGD122)	3320	2 50	A	
6M471	5139	4 95	K	P-6912, P69-13, T-69-20	5313	2 95	A	(Chrysler, G1423, -53, -52, C1540, -42	5320	2 50	A	
116A, 116-1, -2, -3, -4:				P-69-14	5313	2 95	A	C1550, C1608	5320	2 50	A	
Replacement Head	3442	3 95	L	P-69-17	5313	2 95	A	C1608 (change	5325P	2 50	A	
Pack with #4 Tube	3311	8 03		T-69-20	5313	2 95	A	C-1708	5326P	2 50	A	
Pack without #4 Tube	3310	8 00		MOTOSET (See Fada)				D (NDD, SDD)	3320	2 50	A	
490, 491, 493: Replacement Head	3460	4 95		MUSICAIRE				DP, DPV	5322	2 95	A	
Plug-in Vibrator	4314	4 95	T	SCDD1, STDD1, 441XC, 441XT	5301	2 95	A	D122 (NDD122), E (MED)	3320	2 50	A	
Replacement Pack	3316	10 00		ST37, 6CE69, 6TE69, D31CE, D31T	5413	4 95	K	E122 (MED 122)	3320	2 50	A	
Hudson-Terraplane, Twin Six	3442	3 95	L	31B, 34B, 50B	5413	4 95	K	FND IN, FT6	3320	2 50	A	
Utahn Pack	3263	2 95	Q	D41BC, D41BT, 49B, 911C, 911T	5413	4 95	K	FT8	5323	2 50	A	
MALLOY (Eliminators)				638C, 63BT, 66BCE, 66BTE, 68BC, 68BT	5413	4 95	K	(Ford: F1440	5320	2 50	A	
Types 1 to 6	3443	6 50	Q	68B, 68BT	5413	2 95	A	F1442	5320	2 50	A	
Types 10 to 14	3318	7 53	N	MUSIC MASTER				F1540, F1542	5320	2 50	A	
Type 35	3230	5 95	L	101, 102, Ten-Ten	2867	3 45		F1640	5325P	2 50	A	
Type 60	4502	5 95	L	NASH-LAFAYETTE Also see Philco (Nash-Lafayette)				F1740	5325P	2 50	A	
VP-881, -852	4255	5 50	AD	AC989, AC989 (122)	3320	2 50	A	G (GG)	3320	2 50	A	
VP-853, -864	4253	4 50	A	AC1089	3320	2 50	A	G122, (CGD122, HGD122)	3320	2 50	A	
VP858, VP857	4253	4 50	A	AC1189, AC1289, AC1969	3320	2 50	A	(Graham: G1418	5323	2 50	A	
VP-7956	4253-32	4 95	A	AC3689	5406	4 95	AD	G1436	5320	2 50	A	
VP-C558	4256-12	6 50	AD	AC3789	5300	2 95	A	G1528	5320	2 50	A	
MARCONI (Canada)				AC4289 (6MN496)	5411	4 95	V	HGD 122 (G 122)	3320	2 50	A	
6 (Power Units)	5139-1	4 95	K	AC4388 (6MN495)	5300	2 95	A	H (HMD, H122, HMD 122, PHD)	3320	2 50	A	
40, 42	3319	5 95	L	C (NCD, D-NDD)	3320	2 50	A	(Humobile: HRD (R), HRD 122, R122)	3320	2 50	A	
48	2867	3 45		D-122 (NDD-122)	3320	2 50	A	HT11X	5323	2 50	A	
62, 95, N103	5300	2 95	A	J NJD, J-122 (NJD-122)	3320	2 50	A	J (NJD), SJD	3320	2 50	A	
93, 94	3789	4 95	AA	NT7, NT8	3320	2 50	A	(Lincoln, Lincoln-Zephyr: LT14X3, LT14X4	5323	2 50	A	
118	3442	3 95	L	NT12X, NT12X2, NT15, NT15X	5323P	2 50	A	L1420, L1424, L1425, L1427, L1429, L1460	5320	2 50	A	
165	5320	2 95	A	N1418	5320P	2 50	A	L1540, L1660	5320	2 50	A	
291, 291	9321	2 95	A	N1434H, N1434H	5320P	2 50	A	N (FND)	3320	2 50	A	
MATHESON-BELL				N1514, N1524	5320P	2 50	A	(Nash-Lafayette: NCD-C, NDD-D)	3321	2 50	A	
8-34	3283	2 95	Q	Q NDD	3320	2 50	A	NDD 122 (D122)	3320	2 50	A	
MELBURN				NOBLITT SPARKS (See Arvin)				NJD (J), NJD 122 (J 122)	3320	2 50	A	
45, 60	5300	2 95	A	034 (Eliminator)	5409-4	4 95	K	NT7, NT8	3320	2 50	A	
MIDWEST				33, 40	3319	5 95	V	NT12X, NT12X2, NT15, NT15X	5323	2 97	A	
Auto	2867	3 45		61	3263	2 95	Q	NQ (Q)	3320	2 50	A	
5-38	8300	2 95	A	NORTHLAND RADIO (Kortone)				N1437M, N1434H	5320	2 50	A	
6-37	5377	2 95	A	41F, 48F	5409	4 95	K	N 1514, N 1524	5320	2 95	A	
7-38	8439	4 95	K	55A, 58A	5300	2 95	A	(Packard: PB, PBD	3320	2 50	A	
7-37	5413	4 95	K	66A	3263	2 95	Q	PHD (H122), PHXD	3320	2 50	A	
7-38, 8-38, 12-38	5439	4 95	K	OLDSMOBILE (See also B.O.P.)				PT5	3320	2 50	A	
MISSION BELL				393884, -885, 405045, -046, -057, -062	3461	5 50	D	PT14	5323	2 50	A	
5	3443	6 50	G	405053	3461	5 50	D	P1417	5320	2 50	A	
10A	2867	3 45		980382, -393	3313	1 95	S	P1421, P1422, P1426, P1430	6320	2 50	A	
11, 12, 14, 25A	2867	3 45		980441, -455, -459	3313	5 50	D	P1517, P1530, P1535	5320	2 50	A	
16, 17, 18	2867	3 45		982006, -007, -008	4613	5 50	D	P1617, P1630, P1635	5320	2 50	A	
19, 19A, 19B	3443	6 50	G	982043, -044, -045, -083, -084	5303	2 95	F	(Parce-Arrows) ME	3320	2 50	A	
638, 638A, 738, 738A, 3716, 3718	5300	2 95	A	982085	5303	2 95	F	MED (E), MED 122 (E122)	3320	2 50	A	
MONARCH				982127	5303	2 95	F	MT3	3320	2 50	A	
L7, X6, Z4, Z5	5410	4 95	O	982150	5303	2 95	F	MT 14X4	5323	2 50	A	
U6, YU6, S4, 64	5300	2 95	A	982161	5335	2 95	F	Q (WGD, SQD)	3320	2 50	A	
MONTGOMERY WARD (See Airline)				982126, 982153	5303	2 95	F	R (CRD, HRD, R122 (CRD122, HRD122)	3320	2 50	A	



RADIART VIBRATORS

Guaranteed **EXACT DUPLICATE 1 YEAR**



Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base	
PHILCO (Continued)				4204-12, 4204F-12	4257-12	8 50	AD	80, 60S, 61, 62, 66, 66S, 67, 68, 68S, 70, 70S,				
SJD (J), SJD122 (J122), SQD-Q, ST3.	3320	2 50	A	4204-32, 4204F-32	4257-32	6 50	AD	71, 71S, 77, 80, 87, 80S, 810, 830,	5304	3 95	I	
ST12, ST15	5323	2 50	A	Shaveraks: S6A, S6B	4306	3 85		221, 225, 620, 621, 622,	5304	3 95	I	
S1416	5320	2 50	A	S12A, S12B	4306-12	3 95		613	5365	3 95	Q	
S1431, S1437	5320	2 50	A	RADIETTE	54, 64							
S1516, S1528	5320	2 50	A	54, 64	5300	2 95	A					
S1616	8325P	2 50	A	RADIOMASTER (See Admiral)								
S1622	5325P	2 50	A	RADIO PRODUCTS CORP.								
S1628	8320	2 50	A	L7, X6, Z4, Z5	5410	4 95	O					
S-1726	5326P	2 50	A	U6, 46	5300	2 95	A					
T2, T3, T5, T6	3320	2 50	A	6D, 7A	5300	2 95	A					
T7, T8, T9, T10, T11, T12, T12X, T14,				55	5300	2 95	A					
T14X, T15, T15X	6323	2 50	A	RADOLEK								
(With) W1416	5320	2 50	A	K16704, K16743, K16748	5110	4 95	O					
5, 6F	3320	2 50	A	K16748	5409	4 95	K					
10, 10, 122	3320	2 50	A	K16790	5413	4 95	K					
11, 11, 122	3320	2 50	A	K16825	5300	2 95	A					
32	4319	5 95	H	10968	3225	4 45						
37-34, 37-624, 37-3624B, 37-3634X	5420P	5 25	V	R.C.A. VICTOR								
38-C624T, 38-C624X	5420P	5 25	V	AR4229	3319	5 95						
38-35	5327P	3 00	A	BC6-6, BT6-5	5413	4 85	K					
38-39	5420P	5 25	V	CB6	5406	4 85	AD					
38-40	5327P	3 00	A	CV8	5415	4 95	K					
624, 624B, 624H, 624R	5426	4 95	X	DB37	5406	4 95	AD					
700	3320	2 50	A	EC37A1	3883	5 50	AB					
800, 800-122, 802, 805, 806, 806, 809	3320	2 50	A	EG45A	5300	2 95	A					
810PA, 810PB, 810PV (Police)	6322	2 95	A	H6	1B239:4	3883	5 50	AB				
811PA, 811PB, 811PV (Police)	6322	2 95	A	M34	3319	5 95						
816, 816B, 816C, 816P	8323	2 50	A	M50, M60, M70 RC357J, RC357K, RC394J	5300	2 95	A					
817, 817B, 817C, 817P, 818, 818K, 819, 819H	8320	2 50	A	M101, M104	3883	5 50	AB					
821P, 821PV (Police)	5324	3 95	A	M105	3319	5 95						
826, 827, 827K	5320	2 50	A	M107	3883	5 50	AB					
828, 828K	5320	2 50	A	M108	5300	2 95	A					
920, 921, 922	5325P	2 50	A	M109	5300	2 95	A					
926, 927, 928K	5320	2 50	A	M115	3319	5 95						
931, 933, 936, 937, 938K	5325P	2 50	A	M123	4615	7 00						
PHONOLA				M17815	5439	4 95	V					
O62	3443	8 50	G	M112754	5406	4 95	AD					
3A61, 3A62	3442	3 95		3M	5406	4 95	AD					
6V82E, 6V92D, 6V92P, 6V92S	5409	4 95	K	5BK6, 6BT6	5415	4 95	K					
Travel-Rad, 9A041	5437	4 95	AB	6M, 6M2	5406	4 95	AD					
PICKWICK				6BK6, 6BT6	5415	4 95	K					
Auto Radio	2667	3 45		6M, 6M1, 6M2	5300	2 95	A					
PIERCE AIRO (Dowald) (United Scientific)				6M3, 6M4	5406	4 95	AD					
A804, A805	5300	2 95	A	8QB, 8QBK, 9M1, 9M2 RC357A,	5300	2 95	A					
A808	5301	2 95	A	67M	5300	2 95	A					
A807LW (6 volt)	5301	2 95	A	67M1, 67M2, 67M3	5406	4 95	AD					
52	3313	3 95		68T6, RC283	5434	4 95	W					
61, 61X	2667	3 45		83B76, RC316	5434	4 95	W					
617, 517P, 527	5300	2 95	A	94B76, 94BT61, 96BK6, 96BT6	5434	4 95	W					
606, 608, 607, 617	5300	2 95	A	95BK6, 95BT6	5434	4 95	W					
608	5301	2 95	A	VE-1	5415	4 95	K					
640	3788	3 95	J	Imperial	5300	2 95	A					
702	5300	2 95	A	Royal	5300	2 95	A					
PIERCE-ARROW (See Philco)												
PIRGRAM												
DB, DF, DFE	5410	4 95	O									
GB, GF	5410	4 95	O									
PILOT												
CC5208, G5206, G5207, TG5206	5409-32	5 50	K									
G-56, G-57	5409	4 95	K									
G-63, J5-L'Atre	3462	6 75	G									
H-64, H6204 (H-6200)	5300	2 95	A									
X2253, X2255	5409-32	5 50	K									
253 (1st), 255 (1st)	4608	7 50	Z									
253 (2nd), 255 (2nd)	5409	4 95	K									
253 (3rd), 255 (3rd)	5411	4 95	V									
605	5300	2 95	A									
PLA-PAL												
185	5411	4 95	V									
PLA-RIGHT												
500	5321	2 95	A									
PLYMOUTH (See Philco)												
PONTIAC (See also B.O.P.)												
544245, -246, -267, -269	3451	5 50	O									
544289, -290A, -291A	3461	5 50	O									
544290, ser. O, 544291, ser. O, 544297, -298	3461	5 50	O									
980383, -393	3313	3 95										
980441, -455, -459	3315	5 50	O									
983506, -507	4613	5 50	O									
983526, -527, -534, -569	5303	2 95	F									
983570	5303	2 95	F									
983616, 983617	5303	2 95	F									
983687	5406	4 95	AD									
983679	5334	2 95	F									
983680	5335	2 95	F									
983705	5406	4 95	AD									
7232553	5303	2 95	F									
POWERTONE												
500	5321	2 95	A									
PRESIDENT (See L'Atre)												
RADIART 3310, B Eliminator	2667	3 45										
3311, 3312, 3314	3263	2 95	Q									
3316	4314	4 95	T									
Vipowers: 4200B, 4200CF, 4202	4253	4 95	A									
4200B-12, 4200CF-12, 4202-12	4253	12	4 95	A								
4200B-32, 4200CF-32, 4202-32	4254	3 95	A									
4201	4254	4 95	A									
4201-12	4254-12	5 50										
4201-32	4254-32	5 50										
4201B	4255-H	5 50	AD									
4201-B1, 4201-B21, 4201-B22	4255-I-H	2 50	AD									
4203	4255	5 50	AD									
4203-12	4255-12	8 50	AD									
4203-32	4255-32	6 50	AD									
4204, 4204-F	4257	5 50	AD									



RADIART VIBRATORS

Guaranteed

EXACT
DUPLICATE

1 YEAR

Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base	Model No.	Radiart No.	Price	Base
SPIEGEL				TROY				5C6 5437 4.95 N2			
L7, 23, 144, 152, 187, 178, 182, 183	5410	4.95	O	TR68	5300	2.95	A	5C10	5407	4.95	N2
189(H1)	5410	4.95	O	TR66	3263	2.95	Q	5H, 5K1	5411	4.95	V
102, 104, 112, 114, 124, (24)	5406	4.95	AD	TR87	3263	2.95	Q	553 Chassis	5433	4.95	V
188	5300	2.95	A	TRUETONE				5400	4.95	AB	
1106, 1109, 1110, 1111 (211)	5303	2.95	A	O690, D691, S690, S691	3443	8.50	G	6C1	5300	2.95	A
1901, 1907, (X6, BA41)	5410	4.95	O	D708	5411	4.95	V	6C7, 6C9	5438	4.95	AB
2212 to 2215, 2254 to 2257, 2280, 2281 (145E)	5409	4.95	K	D718	5410	4.95	O	6C13, 6C14	5438	4.95	N2
2222 to 2229 (73B)	5413	4.95	K	D719	5409	4.95	K	6CH5, 6J, 6KB	5400	4.95	AB
4400, 4404, 4420, 4452 (6P-75)	5410	4.95	O	D734	5300	2.95	A	6K	5400	4.95	AB
4519 (803)	5411	4.95	V	D735	3883	5.50	AB	6L, 6N, 6R	5300	2.95	A
6300, 6310, 6314, 6318, (651)	5409	4.95	K	D736	4320	3.95	R	6P	5417	3.95	B
6316, 6317, 6318, 6319, 6321 (14-129)	5421	4.95	V	D737, D737B, D737C	5300	2.95	A	6S, 6U	5438	4.95	AB
6326, 6360 (700)	5421	4.95	V	D739, D741, D742	4320	3.95	R	7C15	5422	5.60	AE
6300, 6800	5300	2.95	A	D740	3223	2.95	Q	7Q, 7S	5437	4.95	N2
6708, 6750, 6752, 6754, (M5, Z4)	5410	4.95	O	D743, D743W, D744	5300	2.95	A	15C8	3883	5.50	AB
6780, 6770 (700)	5421	4.95	V	D745, S745	5400	4.95	AB	25Y1 (5Y)	5437	4.95	N2
6805 to 6808, 6815 to 6818, 6836	5300	2.95	A	D746, D976	5307	2.95	A	26B1 (6B)	3395	4.45	A
6840 (25V)	3883	8.50	AB	D978	5438	4.95	AB	26B5, 26R1	3417	3.95	B
STAR				D1091	5438	4.95	AB	26S1, 26U1	6438	4.95	AB
O82, O62A	3443	8.80	Q	S732, S733, S757, Z821	2219	3.45	AB	36C7, 36C11	3395	4.45	A
9U	3417	3.95	B	S735	3883	5.50	AB	36O510, 36D560	5300	2.95	A
STAR-LINE				S737, S737C	5300	2.95	A	46C1, 46C1-41	5300	2.95	A
U88	5300	2.95	A	S740	3417	3.95	B	46J3	5400	4.95	AB
42, 82	5410	4.95	O	S743, 1312 (R131)	5300	2.95	A	61	5300	2.95	A
STEMWAY				S745, S745	3417	3.95	B	65H, 106S2-714, 106S2-768	5411	4.95	V
3 Lead (Non-Sync.)	2867	3.45		D746, D976	5307	2.95	A	172, 3722A	3318	7.50	N
STEWART RADIO				D978	5438	4.95	AB	3622A	3443	8.50	Q
80	2867	3.45		D1091	5438	4.95	AB	WESTERN AUTO (See Truetime)			
80	2867	3.46		S732, S733, S757, Z821	2219	3.45	AB	WESTINGHOUSE			
STEWART WARNER				S737, S737C	5300	2.95	A	A43, A44	3319	5.95	
189	5413	4.95	K	S740	3417	3.95	B	WR25, WR26	3223	2.95	Q
1121, 1122, 1123 (R112)	2867	3.45		S743, 1312 (R131)	5300	2.95	A	WR27	4320	3.95	R
1171, 1172 (R117)	5300	2.95	A	S745, S745	3417	3.95	B	WR33, WR41, WR42	3319	5.95	
1181, 1182, 1183 (R118)	6300	2.95	A	D746, D976	5307	2.95	A	WR260	5300	2.95	A
1311 to 1319 (R131)	5300	2.95	A	D978	5438	4.95	AB	WR500, WR501	5321	2.95	A
3322 (R132)	4414	4.95	AD	D1091	5438	4.95	AB	WR502, WR503	5300	2.95	A
1132 (R133)	5300	2.95	A	S732, S733, S757, Z821	2219	3.45	AB	WR603, WR606, WR610	5409	4.95	K
1481 (R143), 1601 to 1609 (R180)	8331	2.95	C	S735	3883	5.50	AB	602	3315	5.00	
1631D to 1639D (R162, R163D, 1641D to 1649D, R164, R164D)	5422	5.50	AE	S740	3417	3.95	B	WHOLESALE RADIO (See Lofeyette)			
1781 (R178), 1871 (R187)	5331	2.95	C	S743, 1312 (R131)	5300	2.95	A	A5, A6	3223	2.95	Q
1841 (R184), 1891 (R189), R187	4608	7.50	Z	S745, S745	3417	3.95	B	3R6	4320	3.95	
1911, 1915 (R191D), 1921, 1925 (R192D)	5413	4.95	K	D746, D976	5307	2.95	A	4B6, 4B6-2	3223	2.95	
1966 (R196)	5409	4.95	K	D978	5438	4.95	AB	5F8, 5F8-90, 5F8-790, 5F8-890	3223	2.95	
3211, 3212 (R321)	5331	2.95	C	D1091	5438	4.95	AB	Roadmaster	2867	3.45	
R198, R199	5409	4.95	K	S732, S733, S757, Z821	2219	3.45	AB	Roadmate	3223	2.95	
R402	5403	4.95	K	S735	3883	5.50	AB	WILCOX GAY			
4181, 4185, (R415, R418)	5411	4.95	V	S740	3417	3.95	B	3R6	4320	3.95	
ST. REGIS				S743, 1312 (R131)	5300	2.95	A	4B6, 4B6-2	3223	2.95	
K8, K80	3263	2.95	Q	S745, S745	3417	3.95	B	5F8, 5F8-90, 5F8-790, 5F8-890	3223	2.95	
STROMBERG CARLSON				D746, D976	5307	2.95	A	Roadmaster	2867	3.45	
33, 33A, 33X, 34	3318	7.50	N	D978	5438	4.95	AB	Roadmate	3223	2.95	
118	5409	4.95	K	ULTRAMAR				WILLYS-OVERLAND (See Philco)			
STUDEBAKER (See Philco)				345, 355	5411	4.95	V	WILSON			
S-1728	5326P	2.50	A	859, 857	5309	2.95	A	32 Volt H. H.	3225	4.45	
SUPERTONE PRODUCTS INC.				UNITED AMERICAN BOSCH (See Bosch)				1936 Models	5300	2.95	A
L7, 24, 24, 25	5410	4.95	O	UNITED MOTORS (See also Delco)				WURLITZER (All-American Mohawk)			
U1, 54, 54	5300	2.95	A	B101	3313	3.95		A80, 460	2867	3.45	
TATRO (See L'Atatro)				B6	46	8.50	AB	U50, U500	3315	5.00	
TEMPLETON				2035	3313	3.95		ZENITH			
5 Tube Super	3442	3.95		3203, 3204	4404	5.50	AA	4B106, -131, -132; 5406; -231; 5409; -313	5435	4.95	V
TERRAPLANE (See also Hudson-Terraplane)				4038	3313	3.95		(5410), -314, -317; (5411), -355; 5410	5427	4.95	V
DB-37	5436	4.95	AD	4037, 4038	3315	5.00		4F133 (5407)	5427	4.95	V
TIFFANY TONE (Herbert Horn)				4049, 4050	3607	5.95		4V31, 4V35, (5405)	5411	4.95	V
535	3263	2.95	Q	4051	3607	5.95		5F134, 5F168 (5518)	5427	4.95	V
836, 837, 838, 857	3263	2.95	Q	UNITED SCIENTIFIC (See Pierce Aire)				5J217, 5J247, 5J225, (5524)	5300	2.95	A
TIGER				UNIVERSAL BATTERY CO.				5M90 (5510)	5321	2.95	A
2851	3417	3.95	B	60A8	5411	4.95	V	5M191 (5520)	5300	2.95	A
670	4320	3.95	R	61A8	5410	4.95	O	5M291 (5527), 5M294 (5530)	5321	2.95	A
670A	4320	3.95	R	72A8	5410	4.95	O	5K248	3395	4.45	A
TRANS. CORP. OF AMERICA (T.C.A.) (See Clarion)				802, 803	5300	2.95	A	6B107, 6B129, 6B164 (5535), 6B231 (5653)	5435	4.95	V
TRANSITONE (See Philco)				7232, 7332	5300	2.95	A	6J320, 6J257-5642, 6J322, 6J357 (5554)	5300	2.95	A
TRAV-LER				8237 8332	5300	2.95	A	6M90D, 6M90S-5630, 6M91D, 6M91S (5631)	5300	2.95	A
34	5300	2.95	A	UTAH				6M92-5632	5300	2.95	A
64	5300	2.95	A	B-Eliminators:	3313	3.95		6M192, 6M193, 6M194 (5637)	5300	2.95	A
78	5411	4.95	V	G638	3443	6.50	G	6M292, 6M293 (5645), 6M295 (5653)	5321	2.95	A
173	5411	4.95	V	Half-Wave	3263	2.95	Q	6M390 (Ford)	5321	2.95	A
178	5411	4.95	V	Majestic Pack	3313	3.95		6VA27, 6VA62, (5629)	5411	4.95	V
178, 180	5300	2.95	A	Non-Sync. Pack	3313	3.95		6MF490 (Ford)	5323	2.95	A
825	5411	4.95	V	32-Volt	3395	4.45	A	6MN495 (Nash)	5309	2.95	A
842	5300	2.95	A	WALGREEN				6MN496 (Nash)	5411	4.95	V
860	5300	2.95	A	34B	5413	4.95	K	6V27, 6V62 (5621)	5411	4.95	V
871, 810	5300	2.95	A	550	5300	2.95	A	7	3263	2.95	Q
842	5300	2.95	A	860	3442	3.95		7J232, 7J259 (5711), 7J323, 7J388 (5715)	5303	2.95	A
880	5411	4.95	V	WARWICK				7M91D, 7M91S (5706)	5300	2.95	A
680, 670, 880, 710, 711	5300	2.95	A	5T Auto, 6T Auto	4318	3.95	S	8M185 (5803)	5300	2.95	A
723	5411	4.95	V	9-50	5309	2.95	A	460 (2047)	2867	3.45	
8 Tube Auto	5300	2.95	A	453	5410	4.95	O	462 (2057), 650HD, 651HE	2867	3.45	
6 8 Tube Batt. or AC	5300	2.95	A	511	4318	3.95	S	660TD, 661TE (2057)	2867	3.45	
TRIANGLE				553	5411	4.95	V	663, 664 (5510), 668 (5816), 669 (5823)	5321	2.95	A
8P	5408	4.95	AD	580, 580	5300	2.95	A	*690 (5617)	5321	2.95	A
TROPIC AIRE				559, 579	5307	2.95	A	ZEPHYR (See Lincoln-Zephyr)			
06W	3318	7.80	N	562	5411	4.95	V	ALJ-10	5438	4.95	V
				600	5411	4.95	V	DB, DF, GB, GE	5410	4.95	O
				611	5300	2.95	A	TA	4501	5.95	AB
				616	4318	3.95	S	2M7	2867	3.45	
				648	5300	2.95	A	3M5, 3M7, 3M8	6300	2.95	A
				851	5411	4.95	V	20A18, 20B6, 20PL, 21A6, 21B6	5410	4.95	O
				680, 685	5300	2.95	A	21PE, 22A6, 22B6, 22PE	5410	4.95	O
				751, 781							



RADIART AERIALS

ALWAYS A YEAR AHEAD

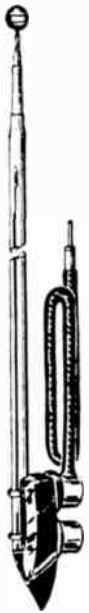


DE LUXE 2-BOLT MOUNT SINGLE INSULATOR

Standard Equipment on popular and luxury cars (U. S. Patent D118,627). Modern streamline beauty in a single (2-bolt) insulator featuring the rich harmony of black plastic and flashing chrome—42" lead included.

CD-31 \$3.95 3 section 24-63"
CD-101 4.95 4 section 24-80"

F-201 \$.15 5 deg. Rubber Wedge for Torpedo Bodies.



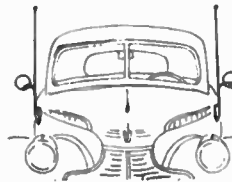
ILLUSTRATING CD-101

MIRROR COMBINATIONS TYPE CM-2

Reversible, for use either on left or right side of car. Excellent in matched pairs. Mirror is non-glare, smoked glass. 42" Lead included.
CM-2 Length 20-90" \$5.95
U. S. Patent D118,627
F-201 5 deg. Rubber Wedge for Torpedo Bodies.....\$.15



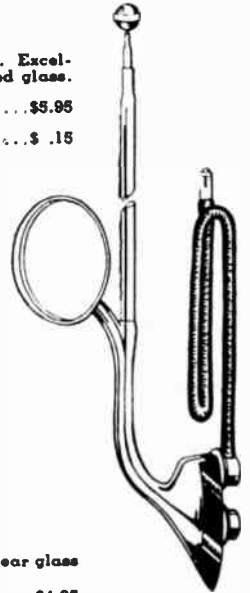
ILLUSTRATING CM-2



INSTALL TYPE CM-2 •IN MATCHED PAIRS

TYPE CM-1

Available for mounting on left side only. Clear glass mirror. 42" Lead included.
CM-1 Length 29-59" \$4.95



ILLUSTRATING CM-1

Ro-TENNA — Radiart's Sensational Wind-up Aerial

Fool-proof aerial operation from inside the car.
SEE COMPLETE DESCRIPTION ON OTHER SIDE

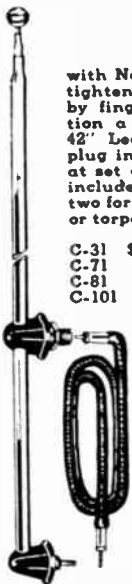
STANDARD 2-INSULATOR

with New, Easy Plug-in Connector tightened anywhere along the rod by fingers only, making installation a quick, easy one-man job. 42" Lead included is reversible—plug in straight end or angle end at set or aerial. Three insulators included, 1 long, 2 short. Use any two for installation on straight side or torpedo body cars.

C-31 \$2.95 3 section 24-63"
C-71 3.75 3 section 37-92"
C-81 4.45 4 section 29-101"
C-101 3.95 4 section 24-80"

3 INSULATORS

and eye bolts furnished with C-31, C-71, C-81, C-101 for conventional and torpedo bodies.



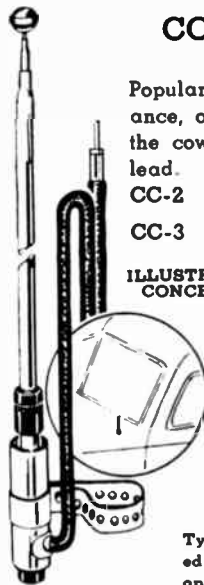
ILLUSTRATING C-31

CONCEALED COWL

Popular because of their neat appearance, only 4 inches projecting above the cowl when fully collapsed. 42" lead.

CC-2 \$2.95 2 section 4-42"
CC-3 3.95 3 section 5-63"

ILLUSTRATING CC-3 CONCEALED COWL



ILLUSTRATING CBH-2

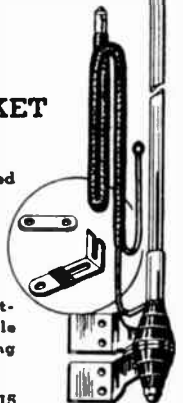
UNDERHOOD BRACKET MOUNT

Require No Drilling of Finished Body Surface

CBH-1 \$1.95 2-section 24-44"
CBH-2 2.95 3-section 24-63"
CB-3 3.75 3-section 43-92"

Type CB-3, due to its great length, is supported by a double cowl bracket and is suitable only for installation under side opening hoods.

F-301 Special Bracket for Ford.....\$.15



ALL LEADS—Universal—Fit Pin type or Bayonet



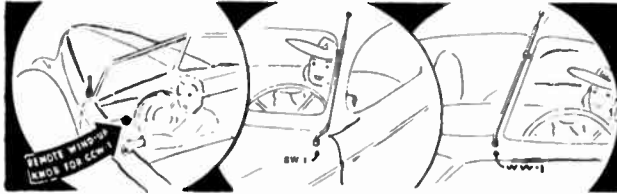


RADIART AERIALS Guaranteed Rust-Proof



Ro-TENNA — Radiart's New Wind-up Aerial

Just Turn the Knob to Raise or Lower Aerial to Right Height



ILLUSTRATING WW-1

CONCEALED COWL Ro-TENNA

Projects through cowl just in front of windshield. When collapsed only 3 in. extends. A flexible connection leads to the control knob, a clamp permitting easy fastening to edge of instrument board if you prefer not to drill through panel. Low-loss lead included.

CCW-1 \$6.95 5-63"

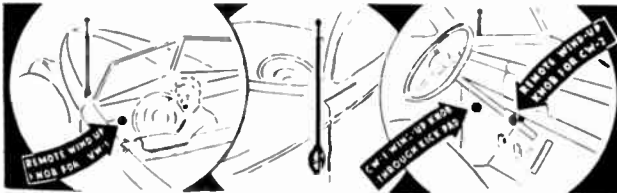
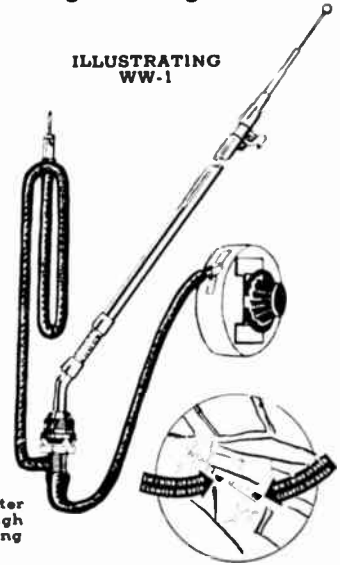


ILLUSTRATING CCW-1

WINDSHIELD Ro-TENNAS

Mount through cowl in front of windshield, and follow center strip (WW-1) or side molding (SW-1). Both controlled through flexible connection to wind-up device and knob clamped along bottom of instrument panel. Low-loss lead included.

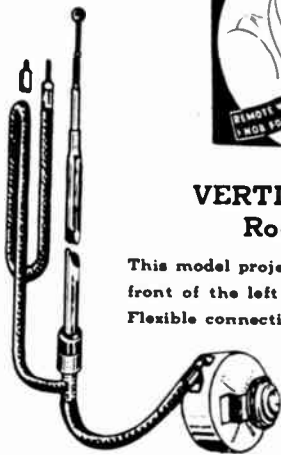
WW-1 \$5.95 21-53" Center Windshield
SW-1 5.95 21-53" Side Windshield



VERTICAL COWL Ro-TENNA

This model projects through cowl just in front of the left side of the wind-shield. Flexible connection leads to wind-up device and control knob clamped along bottom of instrument panel. Low-loss lead included.

VW-1 \$5.95 21-53"



ILLUSTRATING VW-1

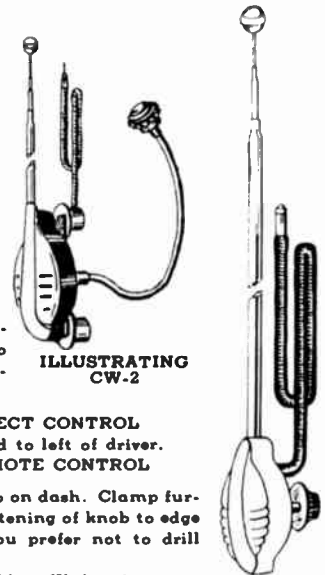
SIDE COWL Ro-TENNAS

Wind-up device in streamlined case which attaches to side cowl by 2 bolts. Low-loss lead included.

CW-1 \$5.95 24-63" DIRECT CONTROL
Knob handy on kick-pad to left of driver.
CW-2 \$6.95 24-63" REMOTE CONTROL

Flexible shaft leads to knob on dash. Clamp furnished permitting easy fastening of knob to edge of instrument board if you prefer not to drill through instrument panel.

F-202 \$0.35 5-degree Rubber Wedge for neat mount on Torpedo Bodies.



ILLUSTRATING CW-2

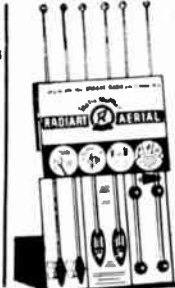
ILLUSTRATING CW-1



Universal Cowl Mounts



STOCK 1 AERIAL for ALL



RADIART AERIAL Display

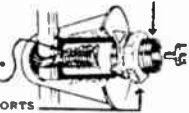
Permanent Anti-Rattler All-Metal.

Short Proof.

New EASY PLUG-IN CONNECTOR

NO TOOLS Fingers tighten insulator along rod

VIBRATION PROOF Husky threads are metal-to-metal



NO SHORTS All metal-to-metal thru the body

One-man INSTALLATION



Permanent Anti-Rattlers — Patented by Radiart





VERTICAL MAST

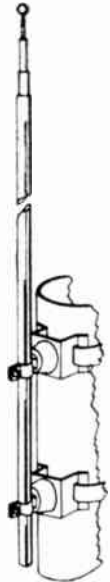
The modern antenna for perfected home reception. More easily installed and less conspicuous than old horizontal aerials. Minimizes interference. Sectional admiralty complete with low loss ceramic insulators and special fittings for quick mounting to side of any structure, or clamping around soil pipe.

VM-3 \$5.95 5-section 14' to 16' 4" Complete with Universal Angle bracket. Chrome plated rustproof admiralty rod. 40 feet lead wire.

VM-2 \$4.45 5-section 14' to 16' 4" Complete as illustrated at left. Has no angle bracket, but soil pipe fittings will also hold rod against any vertical structure. 40 ft. lead.

VM-4 \$2.95 4-section 12' Steel, cadmium plated. NOTE: despite the best of plating, steel cannot be guaranteed against rust. Soil pipe fittings only.

NOTE: VM-2 and VM-3 adjustable 14 feet to 16 feet, 4 inches.



ILLUSTRATING VM-2

RADIART LEADS

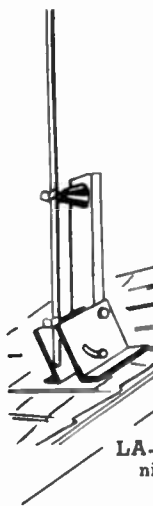
Description	Length	Price
L-1—Lug, male bayonet, undercar	66"	.85
L-2—Lug, male bayonet, utility lead	36"	.60
L-5—Cup, male bayonet	36"	.65
L-7—Bushing for cup, male bayonet	36"	.50
L-10—Male and Female bayonet, extension	30"	.50
L-14—Lug, male bayonet, hinge	42"	.60
L-15—"Y", 2 cups, 1 male bayonet		1.00
L-17—Cup, male bayonet	42"	.75
L-18—Lug, male bayonet (hinge)	36"	.65
L-19—Extension, male and female bayonet	8"	.30
L-20—Cup, male bayonet, low capacity	42"	.00
L-21—Male pin, both ends, low capacity	40"	.75
L-22—Lug, male bayonet (hinge and underhood)	37"	.65
L-23—Cup, male pin, low capacity	42"	.65
L-24—Angle pin and male bayonet	40"	.75
L-25—Male and Female Pin, extension	8"	.30
L-26—Male and Female Pin, extension	20"	.45

RADIART FITTINGS, ADAPTERS

F-5— $\frac{3}{8}$ " Snap-in Button	.10
F-6—Bayonet to 5-prong—1939 Buick	.25
F-7—Straight—Bayonet to Male Pin	.15
F-9—Angle—Bayonet to Male Pin thru Booster Coil—Motorola	.25
F-11—Bayonet to 3 prong plug—Firestone	.25
F-12—Bayonet to Bayonet—For suppression of Aerial pick-up of Ignition Interference	.25
F-13—Hood Ground Clip—with P.K. screws	.10
F-14—Bayonet to 4-prong reversible—Truetime, Wells Gardner, etc.	.25
F-15—Bayonet to 2-prong reversible—Firestone, Admiral, etc.	.25
F-16—Bayonet to Single Pin with grounding clip—Warwick, etc.	.25
F-17—Booster, angle—Bayonet both ends	.25
F-18—Female Bayonet on both ends	.35
F-19— $\frac{1}{2}$ " Snap-in Button	.10
F-20—Single Pin Solder on Connector	.10
F-21—Single Pin Socket to Male Bayonet	.15
F-91—Single Pin socket to single Pin Plug thru Booster Coil, Angle	.25
F-171—Single Pin Socket to Male Bayonet thru Booster Coil, Angle	.25
F-201—5-degree Rubber Wedge for mounting CD & CM aerials on Torpedo Bodies	.15
F-202—5-degree Rubber Wedge for mounting CW aerials on Torpedo Bodies	.35
F-211—No. 9595 Adaptor Single Pin to Male Bayonet	.10
LA-1—Circuit Resonator (Lightning Arrestor) for Vertical Mast Aerials	.50
M-1—Matching Resonator for bringing mismatched aerial and radio input circuits into resonance. Male and Female Bayonet Connectors	1.50
M-2—Same as M-1, but with Male and Female Single Pin Connectors	1.50

WINDOW Household Type

Sectional telescoping rods of Non-rust materials, Chrome-Plated. Complete with adjustable angle steel mounting bracket. Window Lead-in included. W-21 \$2.95 3-section, 43-92"



ILLUSTRATING W-21

UNIVERSAL ANGLE BRACKET

Extra sturdy mounting. For gable or flat roofs or side of any structure.

LA-1 Circuit Resonator (Lightning Arrestor) available . . \$.50 list



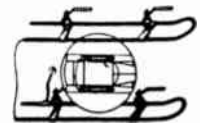
BUMPER TYPE

A husky clamp mounts the sectional telescoping rod securely to the bumper. Non-rust rod. Chrome-plated. Lead not included.

B-21 \$2.95 3-section 43-92"

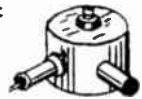
UNDERCAR TYPE

A twin running board assembly one unit under each running board. Made of heavy rod with thick rubber covering. Welded connections. With its extra-strong brackets, this aerial stands up under rough usage. U-6 \$3.95 DUOBOARD 49" long. 66" Shielded Lead included.

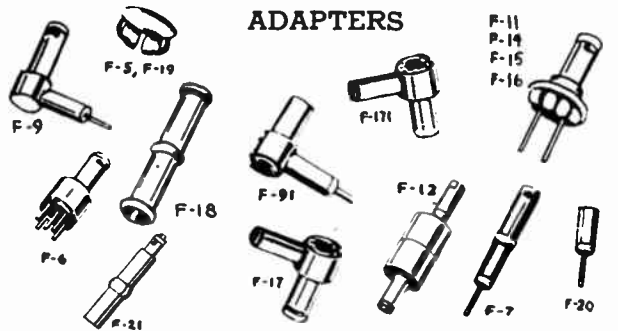


RADIART MATCHING RESONATOR

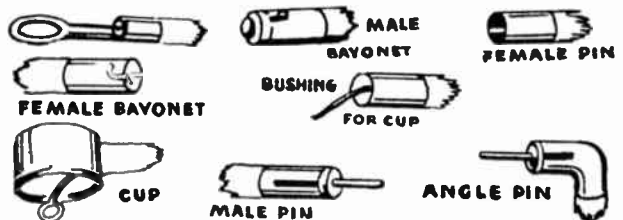
Type M1—Price \$1.50 with male and female bayonet connectors.
Type M2—Price \$1.50 with male and female pin connectors.



ADAPTERS



LEADS





MOBILE COMMUNICATIONS ANTENNAE POLICE TYPES

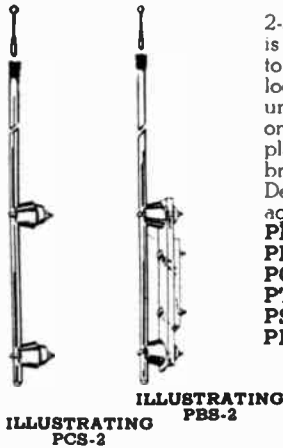
Except for Model PS-4, antennae for this service are available in two distinct styles: (a) 2-section steel, (b) 3-section admiralty. Brackets and fittings are identical for both styles, black nicked for low visibility. Insulators are ceramic. Leads not included. PS-4 is the new "Unimount" requiring but one sturdy bracket which can be mounted on any body surface. Special types are being continually engineered for unique applications. Our engineering department invites consultation.

Illustrating locking device, permitting tapered steel rod to be instantly removed or replaced without re-adjustment.

STEEL (2-Section) 78-96"

2-section. Base of hardened steel tubing. Main Section is a tapered rod of FORGED STEEL, 78" long, adjustable to any desired length with positive locking ferrule. When locked to desired length, extension rod may be instantly unscrewed from base section to permit servicing of car on a lift, or for any other reason; and may be easily replaced at exact pre-determined length without re-calibration. Rods and fittings are black nicked. NOTE: Despite the best of plating, Steel cannot be guaranteed against rust.

PRS-2 2 sec. Steel Rod Assembly, 78-96"	\$8.50
PBS-2 Complete with Bumper fittings	11.50
PCS-2 Com. with Cowl Mount fittings	10.50
PTS-2 Com. with Trunk Mount fittings	16.50
PS-4 Com. Unimount Antenna	14.50
PRS-4 2 sec. Steel Rod Assembly, 78-96"	
Replacement for Radiart, Western Electric, Link	9.50



ILLUSTRATING
PCS-2

ILLUSTRATING
PBS-2



ILLUSTRATING
PTS-2



ILLUSTRATING
PS-4



PR-5 4-Section Admiralty Rod Assembly, including ceramic insulator and universal joint.

ILLUSTRATING

PR-5 Length 46-167" \$15.00

All sections adjusted by newly designed positive locking knurled and hex nuts. For mobile police work, marine and other service requiring rods of this exceptional length; but not intended for use when mobile unit is in motion. Brackets to hold it erect and clamps to secure it when collapsed are designed and made by the user to suit individual requirements.

ADMIRALTY (3-Section) 40-100"

3-section, 40-100" Each section adjustable and firmly locked in position by knurled nuts. Triple-plated chrome.

PR-2 3 section Rod Assembly, 40-100"	\$ 5.50
PB-3 Complete with Bumper fittings	8.50
PC-3 Complete with Cowl fittings	7.50
PT-3 Complete with Trunk fittings	13.50

ILLUSTRATING
PMS-1

STEEL MOTORCYCLE AERIAL
PMS-1 Forged steel 33' whip antenna with brackets for motorcycle mount, and lead \$3.50



SUGGESTED PRICE SHEET
and
SPECIFICATIONS

No. C-1280 Effective February 1, 1940
Superseding No. C-1268

EVEREADY
TRADE-MARK
Radio Batteries
'A' 'B' and 'C'



Manufactured by
NATIONAL CARBON COMPANY, INC.

General Offices: NEW YORK, N. Y.

*Branches: Atlanta, Boston, Chicago, Cleveland, Dallas, Kansas City,
Louisville, Minneapolis, New York, Philadelphia, Pittsburgh*

Unit of Union Carbide  and Carbon Corporation

The Batteries Listed on This Page Are for 1.4 Volt Receivers

"AIR CELL" "A" BATTERY

Catalog Number	Batteries	Overall Dimensions		List Price Each	Suggested Prices to Dealers				
					Unit Package Quantity	Weight of Unit Package in Pounds	In Less Than Unit Package Quantities	In Unit Package Quantities	
									L	W	H
A-1300*	—	5 1/4"	4 1/8"	8 3/4"	\$2.45	1	7	—	\$1.72

DRY "A" BATTERIES

740*	1 1/2 V Dry	4 1/8" x 3 7/8" x 7 5/8"	1.80	1	7	—	1.26
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DRY "A" BATTERIES FOR PORTABLE RECEIVERS

741*	1 1/2 Volt	3 1/8" x 2 1/4" x 5 1/4"	0.95	1	3 1/4	—	0.67
743*	1 1/2 Volt	3 3/4" x 2 1/8" x 3 1/2"	0.75	1	2 1/4	—	0.52
742*	1 1/2 Volt	2 1/4" x 2 1/4" x 4"	0.50	1	1 3/4	—	0.35
745*	1 1/2 Volt	10 3/4" x 3 3/4" x 1 1/2"	0.95	1	3 1/4	—	0.67
746*	4 1/2 Volt	3 3/8" x 1 7/8" x 4 1/2"	0.45	2	2 1/2	0.35	0.32
718*	6 Volt	3 1/8" x 2 3/4" x 5 1/4"	1.00	1	3 1/4	—	0.70
747*	6 Volt	10 3/4" x 3 3/4" x 1 1/2"	1.00	1	3 1/4	—	0.70

"A-B" PACK BATTERY

748*	1 1/2 V "A" 90 V "B"	15 3/4" x 4 3/8" x 6 1/8"	5.00	1	25	—	3.45
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"B" BATTERY PACK

749*	90 Volt	15 3/4" x 3 1/8" x 7 3/8"	3.20	1	18	—	2.21
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"B" BATTERIES FOR PORTABLE RECEIVERS

482*	45 Volt "Mini-Max"	3 1/2" x 1 3/4" x 5 1/4"	1.50	2	4 lbs. 3 oz.	1.15	1.05
762*	45 Volt	4 1/8" x 2 1/4" x 5 1/4"	1.50	2	6	—	1.05
738*	45 Volt	2 1/8" x 2 1/8" x 4 1/8"	1.50	1	1 1/2	—	1.05

*Plug-in Type Terminal

“SUPER-LAYER-BILT” AND “LAYER-BILT” “B” BATTERIES

Catalog Number	Batteries	Overall Dimensions			List Price Each	Suggested Prices to Dealers			
		L	W	H		Unit Package Quantity	Weight of Unit Package in Pounds	In Less Than Unit Package Quantities	In Unit Package Quantities
386*	45 Volt.....	8 $\frac{1}{2}$ "	x 4 $\frac{1}{8}$ "	x 7 $\frac{1}{8}$ "	2.45	6	91 $\frac{1}{2}$	1.91	1.74
485*	45 Volt.....	8 $\frac{1}{2}$ "	x 3 $\frac{1}{8}$ "	x 7 $\frac{1}{8}$ "	1.69	6	57	1.32	1.20
486*	45 Volt.....	8 $\frac{1}{2}$ "	x 4 $\frac{1}{8}$ "	x 7 $\frac{1}{8}$ "	2.10	6	84 $\frac{1}{2}$	1.64	1.49
585*	45 Volt.....	8 $\frac{1}{2}$ "	x 3 $\frac{1}{8}$ "	x 7 $\frac{1}{8}$ "	1.39	6	55	1.14	1.04
586*	45 Volt.....	8 $\frac{1}{2}$ "	x 4 $\frac{1}{8}$ "	x 7 $\frac{1}{8}$ "	1.85	6	80	1.53	1.39

“C” BATTERIES

768*	22 $\frac{1}{2}$ Volt.....	4 $\frac{1}{8}$ "	x 2 $\frac{3}{4}$ "	x 2 $\frac{3}{4}$ "	0.98	1	2	—	0.69
771*	4 $\frac{1}{2}$ Volt.....	4 $\frac{1}{2}$ "	x 1 $\frac{3}{4}$ "	x 3 $\frac{1}{2}$ "	0.35	5	2 $\frac{1}{2}$	0.27	0.245
X771*	4 $\frac{1}{2}$ Volt.....	4 $\frac{1}{2}$ "	x 1 $\frac{3}{4}$ "	x 3 $\frac{1}{2}$ "	0.40	5	5	0.31	0.28
773	7 $\frac{1}{2}$ Volt.....	4 $\frac{1}{2}$ "	x 7 $\frac{1}{8}$ "	x 3 $\frac{1}{4}$ "	0.65	5	3 $\frac{1}{2}$	0.49	0.44
774*	7 $\frac{1}{2}$ Volt.....	4 $\frac{1}{2}$ "	x 1 $\frac{3}{4}$ "	x 3 $\frac{1}{2}$ "	0.65	5	3 $\frac{1}{2}$	0.49	0.44
781	4 $\frac{1}{2}$ Volt.....	2 $\frac{3}{4}$ "	x 3 $\frac{1}{2}$ "	x 3 $\frac{1}{8}$ "	0.40	5	2	0.31	0.28
783	15 Volt.....	4 $\frac{1}{2}$ "	x 1 $\frac{3}{4}$ "	x 3 $\frac{1}{8}$ "	1.25	5	7	0.97	0.88

COMBINATION “B” AND “C”

X-P7*	7 prong.....	9" x 7 $\frac{1}{8}$ " x 13 $\frac{1}{8}$ "	7.50	1	47 $\frac{1}{2}$	—	5.17
X-P8*	8 prong.....	9" x 7 $\frac{1}{8}$ " x 13 $\frac{1}{8}$ "	7.50	1	46 $\frac{1}{2}$	—	5.17

GENERAL PURPOSE

761	4 $\frac{1}{2}$ Volt.....	4 $\frac{1}{2}$ "	x 1 $\frac{3}{4}$ "	x 3 $\frac{5}{8}$ "	0.35	5	5	0.27	0.245
761T	4 $\frac{1}{2}$ Volt.....	4 $\frac{1}{2}$ "	x 1 $\frac{3}{4}$ "	x 3 $\frac{1}{2}$ "	0.55	5	5	0.42	0.38
762S	45 V insulated screw term.....	4 $\frac{1}{4}$ "	x 2 $\frac{1}{8}$ "	x 6 $\frac{1}{8}$ "	1.65	5	18	1.28	1.16
778	22 $\frac{1}{2}$ Volt.....	4 $\frac{1}{8}$ "	x 2 $\frac{3}{4}$ "	x 3 $\frac{1}{8}$ "	0.98	5	9	0.76	0.69
763	22 $\frac{1}{2}$ Volt.....	3 $\frac{7}{8}$ "	x 2 $\frac{1}{8}$ "	x 2 $\frac{3}{4}$ "	1.20	5	6	0.92	0.84

“AIR CELL” “A” BATTERIES FOR 2 VOLT TUBES

A-2600	Screw Terminals.....	9 $\frac{1}{8}$ "	x 6 $\frac{5}{8}$ "	x 10 $\frac{7}{8}$ "	6.70	1	24	—	4.62
SA-2600	Screw Terminals.....	9 $\frac{1}{8}$ "	x 6 $\frac{5}{8}$ "	x 10 $\frac{7}{8}$ "	8.00	1	24	—	5.51
A-2300	Screw Terminals.....	8 $\frac{3}{4}$ "	x 5 $\frac{1}{4}$ "	x 8 $\frac{3}{4}$ "	4.25	1	12 $\frac{1}{2}$	—	2.98

DRY “A” BATTERIES FOR 2 VOLT RECEIVERS

X124	3 Volt.....	10 $\frac{1}{2}$ "	x 10 $\frac{1}{2}$ "	x 6 $\frac{5}{8}$ "	8.70	1	36	—	5.99
X125	3 Volt.....	11 $\frac{1}{4}$ "	x 4 $\frac{1}{8}$ "	x 7 $\frac{3}{4}$ "	3.50	1	20	—	2.33
7111	1 $\frac{1}{2}$ Volt 6" Dry Cell.....	2 $\frac{5}{8}$ " diameter	6 $\frac{5}{8}$ "		0.45	12	27	0.34	0.31

*Plug-in Type Terminal

"EVEREADY" "AIR CELL" RESISTORS

Catalog Number	Brand and Type	List Price Each	Suggested Prices to Dealers			
			Unit Package Quantity	Weight of Unit Package in Pounds	In Less Than Unit Package Quantities	In Unit Package Quantities
ACR	Display Card Containing 5 Resistors, 1 Each Listed Below	\$1.25	1	—	—	\$0.80
480-500	"Air Cell" Resistor.....	0.25	12	—	—	0.16
540-560	"Air Cell" Resistor.....	0.25	12	—	—	0.16
600-620	"Air Cell" Resistor.....	0.25	12	—	—	0.16
660-680	"Air Cell" Resistor.....	0.25	12	—	—	0.16
740	"Air Cell" Resistor.....	0.25	12	—	—	0.16

Minimum shipment one card or one unit package, transportation prepaid to distributors cities 10% service charge for direct shipments to dealers.

"B-C" BATTERY PACKAGE

1367	"B-C" Battery Package Less Batteries.....	0.25	12	15	—	0.16
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"EVEREADY" "B-C" BATTERY CONNECTORS

1467	7 Prong Socket.....	1.50	12	5	—	0.90
1468	8 Prong Socket.....	1.50	12	5	—	0.90

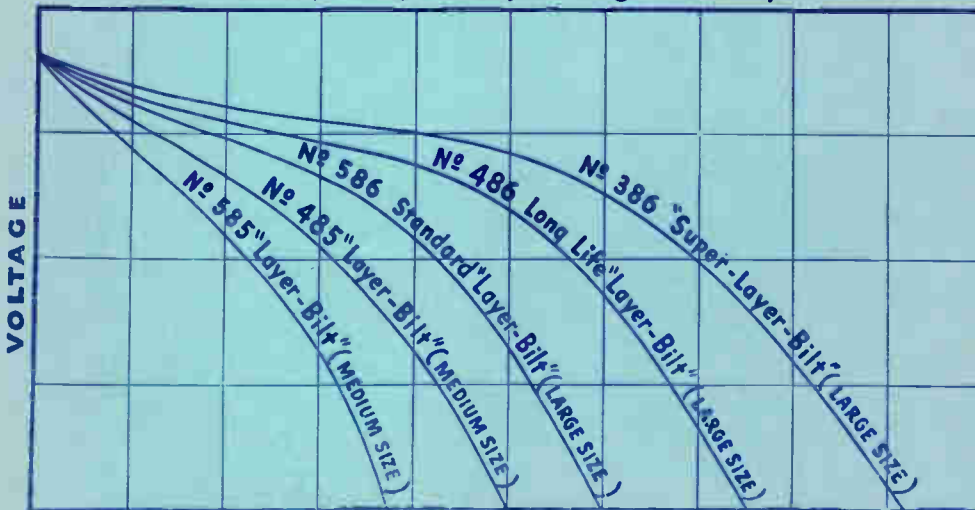
F.O.B. distributor's cities, freight prepaid in standard package quantities. Otherwise delivery terms same as in radio batteries.

ADAPTERS FOR PLUG-IN BATTERIES

626	For all 45 Volt Plug-in Type Batteries.....	0.05	1	—	—	0.035
596	For Type No. 768.....	0.05	1	—	—	0.035
612	For Type Nos. 771 and X771.....	0.05	1	—	—	0.035
1072	For A-2600, SA-2600 and A-2300 "Air Cell" Batteries. These batteries now equipped with insulated screw terminals	0.05	1	—	—	0.035
1024	For Type Nos. 740, 741, 742, 743 and A-1300	0.05	1	—	—	0.035

The words "EVEREADY," "AIR CELL," "LAYER-BILT," "SUPER-LAYER-BILT" and "MINI-MAX" are trade-marks identifying products of National Carbon Co., Inc.

LOOK AT THESE "EVEREADY" "LAYER-BILT" PERFORMANCE CURVES! They Show Why It Pays to Buy the Higher-Quality Batteries



HOURS* →	375	500	600	750	915
LIST PRICE →	\$1.39	\$1.69	\$1.85	\$2.10	\$2.45
HOURS PER DOLLAR →	270	296	320	357	373

*Obtained by discharging batteries on the standard 1250-Ohm Intermittent Test until their voltage reached the point below which radio receivers MAY not operate satisfactorily.

Mueller Electric Co.

CLEVELAND, OHIO

MUELLER BATTERY AND TEST CLIPS

U.S. PATENTS: 1,521,903; 1,686,842; 1,779,442; 1,965,151; 1,994,251; 1,999,613

For use in making quick, temporary electrical connections. Packed 10 in a box, half marked + half plain to indicate polarity. Screw connections



No. 45 PEE WEE

A very small test clip for radio, ignition, meter and similar work. 1 1/2" long. Jaw spread 3/8". Steel, bright finish.

EACH NET.....\$0.05 LOTS OF 10.....\$0.03
Use No. 47 Insulator



No. 48-B TEST AND BATTERY CLIP

A small test and battery clip for radio use and general testing purposes. 2" long. Jaw spread 5/8". Steel, bright finish.

EACH NET.....\$0.05 LOTS OF 10.....\$0.0325
No. 48C—Solid Copper. Same size as 48-B.
EACH NET.....\$0.10 LOTS OF 10.....\$0.07
Use No. 49 Insulator for Clips 48-B and 48-C.



No. 27

A high grade test clip with meshing teeth on three sides of jaws. For laboratory and shop test work. 2 1/2" long. Jaw spread 5/8". Steel, bright finish.

EACH NET.....\$0.10 LOTS OF 10.....\$0.07
No. 27-C—Solid copper. Same size as No. 27.
EACH NET.....\$0.17 LOTS OF 10.....\$0.12
Use No. 29 Insulator for clips 27 and 27-C.



No. 24-A

A medium sized battery clip. Stands erect on battery post. Lead coated, copper shunt protects spring. 2 7/8" long. Jaw spread 1". Steel, lead plated.

EACH NET.....\$0.10 LOTS OF 10.....\$0.06
No. 24—Solid copper. Same size as No. 24-A.
EACH NET.....\$0.20 LOTS OF 10.....\$0.14
Use No. 26 Insulator for Clips 24-A and 24.

LARGER SIZES OF CLIPS

	Each Net	Lots of 10
No. 21-A—Heavy Duty Steel, lead plated, 4" long	\$0.16	\$0.11
No. 11A—100 Amp. Steel, lead plated, 6" long	0.60	0.42
No. 11—200 Amp. Solid copper, 6" long	1.00	0.70
No. 33—300 Amp. Solid copper, 7 3/4" long	1.80	1.25

(Above furnished with lug connections.)

RUBBER INSULATORS FOR CLIPS



A convenient protection against short circuit and electric shock. Packed 10 in a box, 5 red and 5 black to indicate polarity. Long tail prevents breakage of wire. Constructed so that clip is held in firmly.

Insulator No.	For Use with Clip No.	Each Net	Lots of 10
13	11, 11-A	\$0.52	\$0.36
23	21, 21-A	0.33	0.23
26	24, 24-A	0.18	0.12
29	27, 27-C	0.12	0.082
35	33	0.80	0.56
47	45, 45-C	0.08	0.0525
49	48-B, 48-C	0.09	0.06
87	85	0.05	0.03

CROCODILE CLIPS

U.S. Patent No. 1,999,613



No. 85 Clip with No. 87 Insulator



No. 85-T Clip

No. 85—A very small clip with slender, elongated jaws for getting into tight places in radio or electrical test work. Teeth really mesh. Screw connection. 2 3/8" long.

EACH NET.....\$0.06 LOTS OF 10.....\$0.04

No. 85-T—New Crocodile "Tip-Clip"—equipped with standard phone tip on one jaw, otherwise same as No. 85. Ideal for use as a prod, for ordinary clip connections and for connections to insulated binding posts having non-removable heads.

EACH NET.....\$0.13 LOTS OF 10.....\$0.09

Use No. 87 Insulators for either clip. Red and Black. Cover entire clip except nose. Protects against short and shock. Helps to distinguish leads.

ALLIGATOR CLIPS

No. 60—CONVENTIONAL TYPE

Accurately made, slim jaws, fine meshing teeth. Convenient, round thumb grip, barrel connection for banana plug. Equipped with small soldering lip. Strong spring with a hard bite. Bright, non-corrosive finish. 2" long.



EACH NET.....\$0.05 LOTS OF 10.....\$0.35

No. 60-S—SCREW CONNECTION

Eliminates necessity for soldering. Otherwise same as No. 60.



EACH NET \$0.06 LOTS OF 10 \$0.04

No. 60-CS—NEW COPPER R.F. ALLIGATOR CLIP

Same as No. 60 except made of solid copper. Has phosphor bronze spring and brass screw connection. Ideal for R.F. work. Will not heat up in H.F. circuits. Bright, natural copper finish. 2" long.



EACH NET.....\$0.10 LOTS OF 10.....\$0.07

No. 60-HS—STEEL ALLIGATOR CLIP WITH INSULATED HANDLE

Same as No. 60 except equipped with red and black insulating sleeves on end. Very convenient for distinguishing leads. Has screw connection also. Bright, attractive finish. 2 1/4" long.



EACH NET.....\$0.10 LOTS OF 10.....\$0.07

No. 60-CHS—COPPER ALLIGATOR CLIP WITH INSULATED HANDLE

Same as No. 60-CS except equipped with red and black insulating sleeves on end. Entirely non-ferrous with brass screw connection, for R.F. work. 2 1/4" long.



EACH NET.....\$0.17 LOTS OF 10.....\$0.12

WEE-PEE-WEE No. 88

Entirely Non-ferrous. Smaller Than Ever!

An extremely small clip for fine testing in radio and electrical work. Light-Weight; thin-nosed; spring-temper phosphor bronze. Ideal for close-wound coils. 1 1/4" long; jaw spread 1/4".



EACH NET.....\$0.09 LOTS OF 10.....\$0.06

No. 45-C SOLID COPPER TEST CLIP

Solid copper radio frequency test clip. Phosphor bronze spring, brass screw. Will not heat up in high frequency test work, entirely non-ferrous.



No. 45-C Clip
No. 47 Insulator

EACH NET.....\$0.08 LOTS OF 10.....\$0.055

Use No. 47 Insulator.

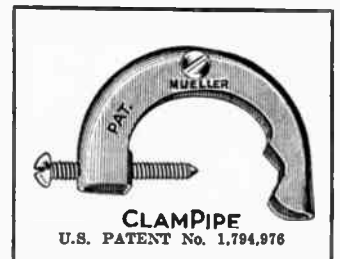
CLAMPIPE GROUND CLAMP

The exclusive patented feature of a U-shaped cross section in combination with a U-shaped clamp gives a rigidity and effectiveness to the ClamPipe that cannot be found in any other make.

The ClamPipe will not bend or lop over when applied to a pipe. The point of the large case hardened screw, cuts through rust, paint or corrosion into clean, fresh metal, insuring a good contact. The Clamp may be installed on a pipe lying flush against a wall. Will not spread open.

The best ground clamp value on the market. Applicable to pipe 3/8" to 1 1/2" outside diameter.

Packed 10 in a box
EACH NET.....\$0.08 LOTS OF 10.....\$0.05



CLAMPIPE

U.S. PATENT No. 1,794,976

No. 58

Mueller Electric Co.

THE SNAPPER

A Long Insulated Test Clip and
A "Triple Threat" Radio Tool

U. S. Patent No. 2,074,324
No. 99—7" Long Insulated



The long tube is of insulating material and is fitted with spring contact jaws on the far end. The jaws are operated by a push of the thumb on the near end. Wire is quickly and easily connected in a hole in the insulator knob binding post on the near end.

May be used as (1) A "Deep Sea" Electric Test Clip—test contacts with ease, deep in the recesses of radio chassis with no danger of short circuits; (2) An Electric Contact Prod—clip jaws may be used to make quick prod contacts, or clip one Snapper on ground circuit and prod with another; (3) A Retriever—start small screws and nuts or pick up odds and ends that may accidentally be dropped into inaccessible places.

PRICE...\$0.65 EACH Dealers Wholesale Price, each...\$0.39 Net
Snappers are generally used in pairs—1 red and 1 black.

INSULATED GRID CLIP ASSEMBLY



One Universal Clip That Fits Them All
This assembly is made up of a Pee-Wee Clip with jaws specially constructed to give a firm grip on all sizes of grid caps, a rubber insulator over the clip, 10 inches of flexible, rubber-covered wire and a standard phone tip.

FEATURES: ● Will Never Weaken or Break ● Bull-Dog Grip—in either vertical or horizontal position, will not come off cap no matter how hard tube is pounded. ● Will Not Injure or Break Grid Cap—if clip itself is struck accidentally it will pull loose without damaging cap. ● Wire Will Not Pull Loose from Clip—soldered connection at both ends. ● Quick and Easy Application—fits all sizes of grid caps. No. 106—Insulated Grid Clip Assembly
EACH NET...\$0.20 LOTS OF 10...\$0.13

U. S. Patents Nos.
1,779,442-1,985,151

RADIO CLIP KIT



No. 104

A handy and useful assortment of clips, ground clamps, insulators, etc. for the radio shop.

Have what you want when you want it. A real value in a convenient package. The 77 items cost much less when purchased in this kit than they would separately.

PRICE PER KIT.....\$6.67
Dealers wholesale price.....\$4.00 Net

BATTERY POST ADAPTER

For Making Non-Corrosive, Semi-Permanent
Connections to Storage Batteries

No. 103—Is simply pressed, not burned, on to battery post. The wire is quickly and easily connected under the thumb nut.

Made of non-corrosive antimonial lead. Ideal for use on battery operated home appliances.



No. 103

Packed 10 in a box
EACH NET.....\$0.15 LOTS OF 10.....\$0.10

BATTERY CHARGING JUMPERS



No. 89—MUELLER CLIP JUMPER

A complete jumper, ready to use. Two No. 24-A clips and 14" of rubber covered copper wire.

Packed 10 in a box
EACH NET.....\$0.20 LOTS OF 10.....\$0.15



No. 57—MUELLER TAP-TITE SPIKE JUMPER

Hard, pointed steel pins soldered to ends of wire and held firmly in lead coated steel jackets. Drive into battery posts.

Packed 10 in a box
EACH NET.....\$0.18 LOTS OF 10.....\$0.13



No. 38—MUELLER PRES-TITE JUMPER

Is simply pressed over battery posts. Made of non-corrosive, antimonial lead.

Packed 10 in a box
EACH NET.....\$0.20 LOTS OF 10.....\$0.15

BATTERY CARRIERS



No. 73—MUELLER "COCKEYED CARRIER"

No. 73—A rugged carrier with heavy, rubber covered strap which will stand plenty of abuse. To use, drop the end pieces over the battery posts and lift up. This cocks the eyes and they grab hold. The heavier the battery the tighter the grip. 12" long. Packed 10 in a box.

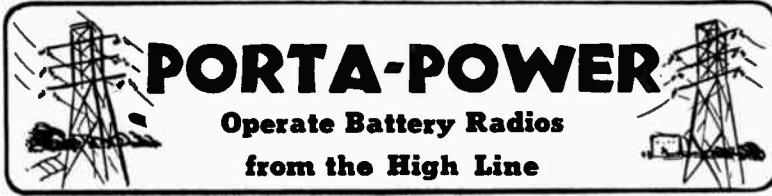
EACH NET.....\$0.35 LOTS OF 10.....\$0.25

NEW EXTRA LONG CARRIER

No. 73-EL—19" long. Ample length to take the new long batteries in some latest model cars. Same construction as No. 73. Packed 10 in a carton.

EACH NET.....\$0.45 LOTS OF 10.....\$0.30

Printed in U.S.A.



P·L·U·G All GTC Porta-Power

Take advantage of the high lines — A necessity wherever rural electrification has come, or portable radios are owned.

Convert Battery Radios to 105-125 volt, 50-60 cycle lines

Supply all needed power to convert radios to ALL-ELECTRIC operation. Provide constant peak source of completely filtered, hum-free power at a small fraction of the cost of batteries

Model "P"

FOR 6 VOLT RADIOS
"TWIN-POWERED"



CONVERTS 98% OF ALL 6 VOLT RADIOS

Vibrator disturbance is eliminated and high fidelity performance assured by sensational new design having two separate sources; one for the vibrator and one for the filaments.

Provides two sources of 6 volts at 1½ amps. or connected in parallel 3 amps—Screw type terminals.

\$13⁹⁵

List.....

Shipping weight approximately 8 lbs. (Size: 3¾" x 6½" x 5½")

Model "U"

FOR 1½ VOLT PORTABLE OR FARM RADIOS
of 4 or 5 TUBES



Universal sockets for all types of battery plugs. May be used in any position. Will fit the battery compartment of 99% of all portables.

Small enough to be installed permanently in many, in addition to the batteries.

Light weight for portable operation. Great economy for home use.

PROVIDES:
"A"—1.5v at 200 m.a.
"B"—90v at 13 m.a.

\$7⁵⁰

List.....

Shipping weight approximately 4 lbs. (Size: 2" x 3½" x 6")

Model "L"

for 2 VOLT RADIOS

Supplies "A", "B" and "C" Power to 4 to 8 tube sets designed for 3 volt Dry Battery, 2.5 volt Air Cell, or 2 volt Storage Cell "A" Power.



PROVIDES:

"A"—2v, D.C.
"B"—67½, 90, 112½, 135v (Can be adapted for 45 volts)
"C"—1½ to 22½v. (2 or 3 "C" voltages if necessary.)

Screw Type Terminals

Shipping weight approximately 6 lbs. (Size: 6 1/16" x 4" x 5½")

List..... **\$9⁹⁵**

Model "G"

for 1½ volt radios of 4, 5 or 6 tubes requiring more power than model "U" provides.



PROVIDES:

"A"—1.5v at 200 m.a.
1.35v at 250 m.a.
1.55v at 300 m.a.
1.35v at 350 m.a.
"B"—90v at 13 m.a.
101v at 8.5 m.a.

List..... **\$9⁵⁰**

Shipping weight approx. 5 lbs. (Size: 3 9/16" x 6 1/16" x 4 13/16")

Models "P" & "L" Easily Installed by any Serviceman

It's PLUG IN and PLAY with MODELS "U" & "G"

110 VOLT AC ANYWHERE WITH KATOLIGHT!

CONTINUOUS DUTY RUGGEDLY CONSTRUCTED ECONOMICAL PORTABLE

Designed for sound trucks, homes, cottages, trailers, farms or any place where plant is desired for running many hours daily and expected to give years of trouble-free service.

KATOLIGHT PLANTS are the result of years of actual experience in the light plant field; the result of much laboratory and actual field tests. The engine that will give the best performance is selected for each model. Engine manufacturers are known internationally and maintain service stations in key cities in U.S., Canada and foreign countries. The user is assured of service and parts from authorized service stations.

NOTE: All Katolight plants are completely filtered and shielded for radio operation.

KATOLIGHT PLANTS are already to go by simply adding a little gasoline and oil and connecting to the lines; complete with engine, generator, base, fuel tank, instruction manual, hand crank (with exception of 19A & 23A which come furnished with push button start on plant and convenient rope crank), nothing else required.

Light Weight Portable High Speed Katolight Jr. Plant for Intermittent Service Operation

JRA3, JR35, JR55, JR10—These plants may be run 24 hours at a time but they are not recommended for home lighting. Ideal for operating Radio Amateur equipment, floodlights, portable electric drills, saws, etc. Select models 19A, 23A, etc. for home lighting, sound trucks, etc.

BATTERY CHARGERS

JR32, JDS12 & JDS6—Ideal for hooking on to automobile, truck, radio or tractor battery. A completely discharged battery in good condition can be charged up about 4 to 6 hours. A battery may be restored to usefulness in from 1/2 to 1 hour's time. Furnished with starting switch, cutout, ammeter, cables, clips, carrying handle and emergency rope crank. Have Battery Ignition engines but can be equipped with Magneto Ignition Engine at \$6.00 list extra.

CONTROLS & ACCESSORIES FOR KATOLIGHT PLANTS

IMPORTANT FEATURE:—Any of the standard controls can be attached or changed on Katolight Plants up to and including 3500 watts capacity—do not have to be ordered with plant. Each control includes battery, cutout, DC ammeter showing amount of battery charge, battery charge control resistor which permits adjusting charging current to suit needs, 25-ft. wire and one push button control station furnished with remote control.

19A & 23A & Battery Chargers only furnished complete with push button starter right on plant including cutout, battery charge control resistor, start push button and battery cables, but no electric choke. If remote or full automatic control is desired on these models, extra must be added as shown. **ELECTRIC CRANKING ONLY** is available on the DIESEL plants; cannot be furnished with full automatic or remote control.

Write for information on sizes up through 10,000 watts capacity. Available for 32, and 110-volts D.C.

110 VOLTS A.C. — 1800 R.P.M.

Watts Capacity	MODEL No.	Type of Cooling	Make of Engine	No. Cyl.	Engine H.P.	Cranking Volts	Ship. Wgt.	Code Word	List Price	DEALER'S NET
A.C.										
350	19A	Air	Johnson	1	3/4	6	125	ABODE	\$97.00	\$72.65
500	23A	Air	Johnson	1	6	6	135	ABTOL	150.00	112.50
600	14A	Air	*B & S	1	1.4	12	170	ALBERT	200.00	150.00
1,000	26A	Air	B & S	1	2	12	295	ABBOT	290.00	217.50
1,500	28A	Air	B & S	1	3	12	340	ABEAR	350.00	262.50
2,000	30A	Air	B & S	1	4	12	360	ABIDE	430.00	322.50
2,000	31A	Air	Stover	2	5	12	390	ACTION	460.00	345.00
2,250	35A	Water	Stover	2	5	12	510	ALANT	520.00	390.00
3,500	43A	Water	Stover	2	10	12	800	ALAS	895.00	672.25
5,000	45A	Water	LeRoi	4	16	6	880	ALBION	848.00	636.00
7,500	47A	Water	LeRoi	4	19	6	1290	ALBON	1216.00	912.00
10,000	49A	Water	LeRoi	4	26	6	1680	ALBUN	1316.00	987.00

*Hriges & Stratton.

110 VOLT LIGHT WEIGHT — 3600 R.P.M. — JUNIOR PLANTS

A.C.	MODEL	Type of Cooling	Make of Engine	No. Cyl.	Engine H.P.	Cranking Volts	Ship. Wgt.	Code Word	List Price	DEALER'S NET
300	JR35	Air	Lauson	1	3/4	6	80	KORT	\$98.00	78.50
400	JRA3	Air	Lauson	1	3/4	rope	80	KROST	89.60	67.20
550	JR55	Air	Lauson	1	3/4	rope	115	KATE	130.00	97.50
D.C.										
400	JR10	Air	Lauson	1	3/4	rope	80	KIDE	78.00	58.50

6-12 AND 32-VOLT BATTERY CHARGERS

MODEL	Type of Cooling	Make of Engine	No. Cyl.	Engine H.P.	Cranking Volts	Ship. Wgt.	Code Word	List Price	DEALER'S NET
300	JR32	Air	Lauson	1	3/4	32	KODE	\$91.00	\$61.67
250	JDS12	Air	Lauson	1	3/4	12	KARE	68.50	44.50
240	JDS6	Air	Lauson	1	3/4	6	KARS	68.50	44.50

110-VOLT DIESEL LIGHT PLANTS WITH RADIATOR

MODEL	Type of Cooling	Make of Engine	No. Cyl.	Engine H.P.	Cranking Volts	Ship. Wgt.	Code Word	List Price	DEALER'S NET
2,000	82A	Water	Stover	1	5	30	KAST	\$842.00	\$673.60
3,500	83A	Water	Stover	1	7 1/2	30	KASTO	944.00	787.72
5,000	85A	Water	Stover	1	10	30	KASTOR	1269.00	1008.00
8,000	88A	Water	Stover	1	15	30	KASTON	1815.00	1452.00

CONTROLS AND ACCESSORIES FOR PLANTS

40-FT. REMOTE CONTROL for stopping and starting 40-ft. or less away from plant	\$20.00	\$15.00
500-FT. REMOTE CONTROL for stopping and starting 500-ft. or less away from plant	35.00	26.25
FULL AUTOMATIC CONTROL, automatically starts & stops plant as load is turned on & off	90.00	67.50
SPECIAL MUFFLER FOR SOUND TRUCKS	0.00	6.75
START AND STOP CONTROL STATIONS—Each	1.10	.83
SPECIAL THREE-WIRE CONDUCTOR CABLE—Per foot	.03	NEEY
TWO-COMPARTMENT TANK for starting on gasoline and running on kerosene	8.00	6.00
DIESEL ELECTRIC STARTING, includes cables, DC ammeter, cutout, charge control.	27.50	22.00

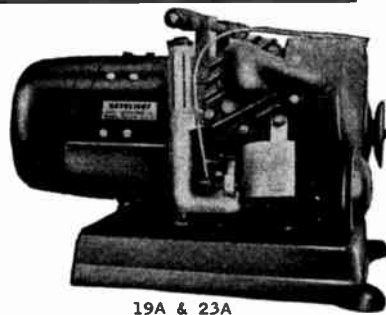
KATO ROTARY CONVERTERS—3600 R.P.M.—Ball Bearing For changing 32, 110 or 220v. D.C. to 110v. 60-cycle A.C. SPECIFY D.C. VOLTAGE WHEN ORDERING

Output Watts	MODEL No.	32v. 110v.	Ship. Wgt.	List less Filter*	DEALERS NET	List w. Filter*	DEALERS NET
80	10	20	30	\$38.00	\$22.80	\$43.00	\$25.80
110	131	221	30	40.00	24.00	46.00	27.60
150	181	261	30	44.00	26.40	51.00	30.60
200	231	311	44	49.00	29.40	56.00	33.60
250	281	361	44	55.00	33.00	61.50	36.90
300	331	461	60	61.50	36.90	71.50	42.90

1800 R.P.M.—Ball Bearing

500	611	S611	130	135.00	81.00	180.00	96.00
750	861	S861	140	155.00	93.00	180.00	108.00
1000	1110	S1110	150	195.00	117.00	210.00	126.00
1500	1610	S1610	220	289.00	173.40	313.00	187.80

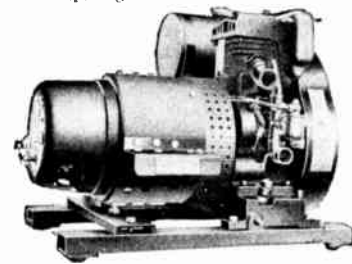
*Filter necessary for radio operation only. SPECIFY if not wanted when ordering.



19A & 23A

The 19A is a combination 350 watt 110-volt 60-cycle A.C. or 200 watt 6-volt battery charger. Complete with start and stop push button, battery cables, D.C. ammeter, charge control resistor, cutout, cast aluminum one gallon gas tank base, convenient carrying handle, four cycle air-cooled 3/4 h.p. Johnson engine, 1800 r.p.m. aircleaner, ignition shielded and generator filtered. Runs 8 to 12 hours on a gallon of gasoline. Requires 6-volt battery only if self-cranking is desired.

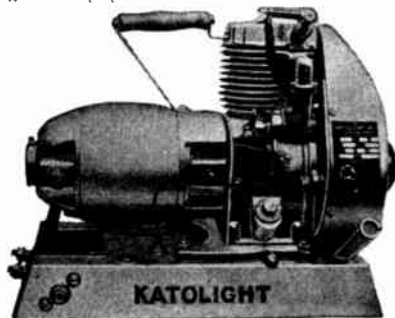
The 23A, 500 watts A.C. or 200 watts at 6-volts D.C., has same specifications as the 19A and is powered with a Johnson 1 h.p. engine.



14A

Similar appearance of 600, 1000, 1500 and 2000 watt models. The 14A has a capacity of 600 watts, 110-volts, 60-cycles A.C. It is approximately 19" wide by 21" high by 22 1/2" long and weighs approximately 161-pounds.

These are very ruggedly constructed, continuous duty models, ideal for home lighting, sound trucks, farms, cabin camps, resorts, filling stations, and for innumerable other purposes. These models will give many years of trouble-free service.



JRA3

Junior models are light weight, portable, ideal for radio amateur operation and other intermittent duty service. Powered with single cylinder four cycle air-cooled engine, vertical engine with L head, sensitive flyball type governor, splash lubrication, float feed Zenith carburetor. Generator filtered and ignition shielded. Complete with carrying handle, muffler, instruction manual.

The JRA3, 400 watt, 110-volt A.C., plant is the plant that has made hits with "hams"—excellent voltage and frequency regulation, easy to carry around, will run 10 hours on a gallon of gasoline.



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COUNTY OF _____

WITNESSETH
that _____

Know all men by these presents, that _____ of the County of _____ State of Texas, for and in consideration of the sum of _____ Dollars, to _____ in hand paid by _____ the receipt of which is hereby acknowledged, have granted, sold, conveyed, confirmed, released, quitclaimed, released, and confirmed unto the said _____ his heirs and assigns forever, all that certain _____

Index

TERMS: You are entitled to a cash discount of 2%.

— A —
 AEROVOX CORPORATION—K-37 to K-46
 ALLED CONTROL CO.—H-71-72
 AMERICAN PHENOLIC CORP. (Amphenol)
 —N-3-4-5-6
 AMERICAN RADIO HDWARE CO.—
 R-1-2-3-4
 Amplifiers & Systems—Section "C"
 Amplifier Cases, Cabinets—C-56, H-104
 Amplifier Kits—H-106
 Antennas & Systems—F-12, H-49, Q-1, S-27-
 28
 Antenna Accessories—F-12, H-49, Q-1-2,
 S-27
 Antenna Kits—Q-1-2
 Antenna Wire, Cable—H-49, Q-2
 ATLAS SOUND CORP.—D-27 to D-30
 Attenuators—L-9
 Auto Antennas—S-25-26-27
 Auto Cable, Wire—Q-3-7
 Auto Condensers—K-44
 Auto Ignition Suppressors—L-8

— B —
 Band Switches—H-108, M-4
 Battery Adapters—N-26, T-6
 Battery Cable—Q-6
 Battery Chargers—T-26
 Battery Clips—T-5-6
 BELDEN MFG. CO.—Q-1 to Q-8
 Binding Posts—N-25, R-1
 BLEILEY ELECTRIC CO.—H-43-44
 Books, Manuals—G-3-4
 BUD RADIO COMPANY—H-101 to H-110
 Bus Bar Wire—Q-2

— C —
 Cabinets, Metal—H-103-104
 CARRON MFG. CO.—O-61-62
 Carrying Cases—C-56, H-104
 Cement—R-15
 CENTRALAB—L-5 to L-12
 Chassis & Bases, Metal—H-105-106
 Chokes, Audio, Filter, etc.—J-76-77
 Chokes, R.F., etc.—H-107-140, M-4
 Co-axial Cable—Q-3
 Code Practice Oscillators—H-106
 Coils—A-3, H-108-109-139, O-13-15-16
 Coil Forms, Kits—H-109
 Coloring Kits—R-15
 Condensers—A-3, K-37 to K-46
 Condenser Analyzers, Testers—F-57
 Connectors, Cable—N-4-5
 Converters—T-25-26
 COTO-COIL COMPANY—H-139-140
 Couplings, Flexible, Insulated—H-50-107
 Crystals—H-43-44
 Crystal Filters—H-44

— D —
 Dial Cable, Belts, Accessories—R-19
 Dial Light Assemblies, Jewels—H-108, R-2
 Dials and Plates—H-106-140, O-14
 Drills, Portable—H-66

— E —
 EBY CO., HUGH H.—N-25-26

— F —
 Filters, Line, Noise—K-44, O-15, Q-1
 Frequency Meters—H-106
 Fuse Retainers, Connectors—R-2-3

— G —
 Gain Controls—L-9
 GENERAL CEMENT MFG. CORP.—R-15-16-
 19-20
 GENERAL INDUSTRIES CO.—E-29-30
 GENERAL TRANSFORMER CORP.—T-25
 Ground Clamps—Q-2, T-5

— H —
 HALLCRAFTERS, INC.—H-1-2-3-4

Hardware—H-50, R-3-4-16
 Headphone Cords—Q-4
 Hookup Wire—Q-8, R-20
 Horns, Trumpets, Units—D-27-28

— I —
 Inductors—H-108-109-139
 Insulators—H-49-110-140, Q-2
 Intercommunicating Systems—A-2, C-14
 Interference Analyzers—K-44

— J —
 Jacks and Plugs—H-50-110, R-1
 JENSEN RADIO MFG. CO.—D-23-24
 JOHNSON CO., E. F.—H-49-50

— K —
 KATO ENGINEERING CO.—T-26
 Knobs, Pointers—H-108

— L —
 Lamp and Fixture Wire—Q-4, R-20
 Lamps, Dial and Panel—B-12
 Lamps, Fluorescent—A-4
 Lead-in and Ground Wire—Q-4
 Lead-in Strips—Q-2
 Lightning Arresters—Q-2
 L-Pads—L-9
 Lugs, Soldering, Terminal—H-50, Q-4,
 R-4-16

— M —
 Magic Eye Accessories—N-6
 Magnet Wire—Q-7
 MEISSNER MFG. CO.—O-13 to O-16
 Meters, Panel Instruments—F-5-6
 Mica Condensers—K-45
 Microphones—C-8, E-3-4-13-14-15-16
 Microphone Accessories—C-8-57, E-16-17,
 N-5-6
 Microphone Cable—E-15, Q-4-5
 Microphone Carbon Granules—H-110
 Microphone Connectors—H-110, N-5
 Microphone Stands—C-8, D-30, E-17, H-110
 MILLION RADIO & TELEVISION CO.—F-57-58
 MUELLER ELECTRIC CO.—T-5-6

— N —
 Name Plates—H-106-107-140
 Neutralizing Condensers—H-102
 Nut Drivers—R-28

— O —
 OHMITE MFG. CO.—M-1-2-3-4
 OXFORD-TARTAN RADIO CO.—D-35-36

— P —
 Padding Condensers—O-15
 Panel Bearing Assemblies—H-50-106
 Panels, Metal—H-105-106
 Parasitic Suppressors—M-4
 PARK METALWARE CO. (Xee-Lite)—
 R-27 to R-30
 Phone Plugs, Connectors, Tips—H-110, N-5,
 R-1
 Phono Motors—E-29-30
 Phono Needles—R-20
 Pickups—E-18
 Pliers—R-30
 Plugs and Jacks—H-50-110, R-1
 Pocket Meters—A-4
 Power Packs—T-25
 Power Plants—T-26
 PRECISION APPARATUS CO.—F-75 to F-78
 Punches—N-3, O-16
 Push-Button Switches—H-107, L-11, O-14

— R —
 Racks, Metal, Relay—H-103
 RADIART CORPORATION—S-19 to S-28
 RAYTHEON PRODUCTION CORP.—B-11-12
 RCA MANUFACTURING CO.—F-11-12
 Receivers, Amateur Communication—
 H-1-2-3-4
 Receivers, Home—A-2-3

Receiving Tubes—B-11-12
 Receptacles—N-3-5-6
 Record Changers—C-7, E-30
 Recorders—A-2, C-7, E-4
 Recording Accessories—E-4, R-20
 Recording Assemblies—E-30
 Recording Blanks—E-4
 Recording Heads—E-4-18
 Relays—F-6, H-65-71-72
 Resistors—L-8, M-2-3-4
 Resistor Cords—M-2, Q-4
 Resistor Tubes—B-12
 Rheostats—L-8, M-1
 RIDER, JOHN F., Publications—G-3-4
 Rotary Switches—H-107, L-11, O-14
 Rubber Grommets, Bumpers—R-4-16

— S —
 SETCHELL CARLSON—C-15-16
 Screw Drivers—H-108, R-3-16-27-29
 Screws—R-3-4-16
 Selector Switches—L-10-11-12
 Service Aids—R-15-16-20
 Shield Cans—H-104
 SURE BROTHERS—E-13 to E-18
 SIGNAL ELECTRIC MFG. CO.—H-65-66
 Signal Generators, Oscillators—
 F-11-57-58-78
 Sockets and Plugs—H-50-107, N-3-4-6, O-16
 Speakers—D-23-24-28-35-36
 Speaker Cabinets, Housings, Baffles—D-29,
 H-104
 Speaker Cable, Cords—Q-4-6
 Speaker Cones, Field Coils—O-61-62
 Speaker Plugs—N-4
 Speaker Projectors—D-27-28-29
 Speaker Shims—R-15-16
 Speaker Stands—D-29
 Staples, Insulated—R-16
 STERLING MFG. CO.—A-4
 Switches—H-107-108, L-10-11-12, M-4, N-6,
 O-14

— T —
 Telegraph Keys, Practice Sets—H-65
 Television Capacitors—K-46
 Television Testers—F-11-77-78
 Television Tubes—B-12
 Terminal Strips, Plates, etc.—R-4
 Test Instruments—F-11 to F-78
 Test Adapters—N-6
 Test Clips—R-2, T-5-6
 Test Lead, Prods.—H-108, R-3
 THORNTON ELECTRIC MFG. CO.—C-55
 to C-58, J-75 to J-82
 Toasters—A-4
 Toggle Switches—H-107
 Tools—H-66, R-2-3-16-27-28-29-30
 Tools, Neutralizing—H-108, N-4, R-3-16
 T-Pads—L-9
 Transformers—J-75 to J-82
 Transmission Line Cable—Q-3
 Transmitter Kits—C-55, H-106
 Trimmer Condensers—O-15
 TRIPLETT ELECTRICAL INSTR. CO.—F-5-6
 Tube Clips, Caps—H-50-110, N-6, R-2

— U —
 UNIVERSAL MICROPHONE CO., LTD.—E-3

— V —
 Variable Condensers—H-101-102, O-14
 Vibrators—S-19 to S-24
 Vibrator Condensers—K-44
 Volume Controls—L-5-6-7

— W —
 Wafer Sockets—H-50-107
 Waffle Irons—A-4
 Wave Traps—O-15
 WEBSTER-CHICAGO CORP.—C-7 to C-14
 Wire and Cable—Q-2-3-4-5-6-7-8
 Wrenches, Socket, Volume Control—
 R-2-16-29

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