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## on SANGAMO AudioTransformers

The opportunity for buying quality merchandise at "rock bottom" prices is always present. No finer example is possible than the offer of these Sangamo Audio Transformers. All Sangamo transformers are constructed of the finest grade of materials. Cased units are housed in heavy metal containers and provided with solder lug terminals which are plainly marked. Size $3 \times 23 / 2 \times 21 / 2^{\prime \prime}$. Strap mounting units have laminations held in place by a heavy metal strap which is provided with mounting feet. Size $23 / 4 \times 2 \times 13 / 4^{\prime \prime}$. All are fully guaranteed.

## Cased Audio Units

Fully shielded in heavy metal cases. Have solder lug terminals marked for easy connections. Size $3 \times 21 / 2 \times 21 / 2^{\prime \prime}$

## TYPEA

A straight audio transformer with a $3: 1$ ratio. Frequency curve flat a $3: 1$ ratio. Frequency curve fat
over the entire tonal range. Excelover the entire tonal range. Excellent for the set builder or for
placement use. Shpg. wt. 3 lbs. placemen
List $\$ 10.00$
Your Cost

## TYPE 0210

Push-Pull output transformer to match single or push-pull type '10 tubes to a magnetic speaker. Secondary impedance 4000 ohms, plate to plate. Shpg. Wt. 3 lbs. plate to plate. $\$ 3 \mathrm{shpg}$. wt. 3 lbs. Your Cost.

## TYPE G210

Output transformer designed to match push-pull 10 's to $\approx 5-15-$ ohm voice coil of a dynamic speaker. Will provide excellent tone quality. Shpg, wt. 3 lbs.
XA371-List $\$ 10.00$
Your Cost.

## TYPE H171

Push-pull output transformer to match a pair of 71 A 's, 45 's, or 50 's to a $5-15-0 \mathrm{hm}$ voice coil of a dynamic speaker. Solder lug terminals. Shpg, wt, 3 lbs. Yaur Cost.
$85^{\circ}$
 leads. Shpg. wt. 3 lbs.
$\mathbf{X A 3 6 5 - L i s t} \$ 10.00$ Your Cost

## TYPE HX171

Push-pull output transformer to match a pair of 71 A's, 45 's or 50 's to a $5-15$-ohm voice coil of a dynamic speaker. For mounting on chassis or directly on speaker. Shpg. wt. 3 lbs. cost....... $5 \mathbf{S}^{c}$


## Strap Mounting Units

Laminations held in place by meañs of a heavy metal strap which is provided with mounting feet. Size $23 / 8 \times 23 / 8 \times 13 / /^{\prime \prime}$.

## TYPE AX

The most popular of the famous " $X$ " line of high quality transformers. Straight audio, overall rations. S:1. Flat response from 30 to ratio 3:1. Flat response from 30 to
6000 cycles. Provided with long

Plate impedance. Used in the plate circuit of detector tube to prevent feed-back. Also used for impedance coupled amplification. Tap provided for auto-transformer coupling. 8 hpg. wt. 3 lbs.
XA36G-List $\$ 5.00$
Your Cost.


N1 EnMneñ
Quantities on all the above units are limited. Orders will be filled as they are received. When these are gone, no more will be available. Get yours now.


Manufacturer
Atwater-Kent
Atwater-Kent
Atwater-Kent Crosley

Crosley Crosley

General Motors

## Majestic

 Majestic RCA-Victor RCA-Victor RCA-VictorRCA-Victor RCA-Victor

RCA-Vietor RCA-Victor Sparton Sparton Sparton Sparton Sparton Sparton Sparton Sparton Sparton Stromberg

Stromberg Stromberg Stromberg Zenith

| Model and Type | Stock No. | Your Cost |
| :---: | :---: | :---: |
| 43, 44, 45, 46, 47, 52, 53, 56 and |  |  |
| $57-1$ st Audio........ | XC2326 | \$0.19 |
| $55,55 \mathrm{C}, 60,60 \mathrm{C}-$ P.P. Input and Output Pack |  | 192 |
| 67-Audio and P.P. Input. . . . . . | XC2243 | 1.92 |
| $30 \mathrm{~S}, 31 \mathrm{~S}, 33 \mathrm{~S}, 34 \mathrm{~S}, 40 \mathrm{~S}, 41 \mathrm{~S}$, 42S, 82S-P.P. Input. . . . . . | XC1849 | . 95 |
| 60S, 61S, 62S, 63S-P.P. Input | XC1348 | 1.20 |
| $32,40,41,41 \mathrm{~A}, 42,704,706-$ 1st Audio and P.P. Input. . . | XC1892 | 1.85 |
| 120, 130, 140, 150, 160-P.P. |  |  |
| Input. | XC2298 | 1.40 |
| 70,90-1st Audio. | $\times \mathrm{C} 2490$ | . 74 |
| 70, 90, 180-P.P. Input | $\times \mathrm{C2109}$ | . 88 |
| R32, RE45, R52, RE75-P.P. Input-Output. | XC1965 | 1.58 |
| 80, 82, 86, R35, R39, R57P. P. Input-Output. | XC1998 | 1.70 |
| R50, R55, RE20, RAE59, RAE79-P.P. Input-Output | XC2001 | 1.85 |
| 60,62-Single Audio. | XC2173 | . 89 |
| $\begin{aligned} & 16,17,18,33,41,50,51- \\ & \text { Double Audio............... } \end{aligned}$ | XC2005 | 120 |
| R7, R9-P.P. In put-Output. . | XC1994 | 2.05 |
| R-7A-P.P. Input-Output | XC2098 | 2.10 |
| 69, 79-Audio. | XC2455 | 1.18 |
| 931, 301-Audio. | XC2456 | 1.18 |
| 101, 110, 111-P.P. Input | XC2466 | 4.08 |
| 301 -P.P. In put. | $\times \mathrm{C} 2467$ | 3.53 |
| 589, 931-P.P. Input | XC2468 | 176. |
| 930-P.P. Input. | XC2469 | 1.18 |
| 89, 89A-P.P. Output. | XC2486 | 1.32 |
| 301-P.P. Output.... | XC2487 | 1.62 |
| 930, 931-P.P. Output | XC2488 | 1.03 |
| $641,642,652,654,846,848$ Audio. | XC2331 | 1.30 |
| 10,11, 25, 26-P.P. Input. | XC2375 | 2.85 |
| 68, 69-1st Audio. | $\times \mathrm{C} 1813$ | 1.45 |
| 68, 69-Driver Input. | XC1814 | 2.19 |
| 50, 60, 70 Series-P.P. Interstage. | XC2259 | 2.19 |

Priced to Sell Fast A.K. Audio Transformer


Genuine Atwater-Kent replacement part No. 13276 43, 44, Used in models 41, and 57. First stage audio. Can be used as a general replacement part in majority of receivers. Sealed in metal can with long leads. Shpg. wt. 3 libs. XC2326-
YourCost Each,
$\ldots \ldots \ldots \ldots \ldots$ Special.

## TMT FilamentTransformers

 IIIITOA $21 / 2$ Volts at 103/2 AmperesRugged and well made; guaranteed to deliver the rated voltages and load without heating. 110 volt primary. 1000 volt insula tion. Size $3 \times 2 \times 21 / 2^{\prime \prime}$. Shipping weight 3 lbs.

## XC2383 <br> s1. 15

Same as above, except uncased, $21 / 2$ volts at $101 / 2$ amperes, semi-open type, strap mounting. XC2387
Your Cost, Special
s1.05 Same as a bove, except $21 / 2$ volts at $51 / 4$ amperes. Uncased.
Xc2388-Your Cost.

## Two separate windings of $21 / 2$ volts at $51 / 4$ a mps.

 each. Uncased.. 1.35
XC2443-Your Cost.
mps. Uncased
XC2441
95 ${ }^{\text {c }}$

## Trutest Tube Tester <br> Filament Transformer

$11 / 2,2,21 / 2,3.3,5,6.3,71 / 2,15,25$, and 30 Volts.
A high quality filament transformer for replacement in standard tube testers. Voltages for all type tubes including battery tubes and new auto tubes. Very compact in audio transformer.
 audia trasiber. coded flexible leads. Primary tapped at 105, 115 and 125 volt, $50-60$ cycle. Secondary is single winding with the correct voltages tapped. Shpg. wt. 3 lbs.
XC1967-
Your Cost.
s 1.20

## KOLSTER Pentode Output Transformer



A popular typestrap motuating unit ideal for general replacement purposes. To match the impedance of single pento ${ }^{3}$ such as the 7, 2A5, etc. to a 5-15 ohm voice coil. Size $3 \times 2 \times 1^{8 / 4 \prime}$ Mtg. centers $31 /{ }^{\prime \prime}$. Shpg. wt. 2 lbs. Xc1837-
Your Cost Each XC1837-

39 ${ }^{\circ}$

## DONGAN Audio Transformer

Straight audio trans former. Fully shielded in metal case finished in black cracke. Binding post terminals. 21/2". Quantity limited. Get yours now Shpg. wt. 3 lbs. Shpg. w
XC1842
Your


# $\star$ The Sales Sensation For 1935 

## P.P. Input Transformer



This popular type of strap mounting push-pull input transformer is being offered at the lowes price in the history of the radio parts business! Unit has exceptionally fine frequency characteristics, employing a high quality iron core and fine grade of wire. Ratio $3: 1$. Can be used to service more than $75 \%$ of the receivers on the market today. Size $31 / 4 \times 23 / 4$ ". Buy a stock of these transformers now, while the opportunity presents itself. Quantity limited. Shpg. tunity pre
WC1843-Your Cost Each
$45^{\circ}$

### 2.5 Volt Filament

## Transformer



A ruggedly built transformer, semi-open type strap mounting. Delivers 2.5 volts at 3.5 amperes (for 2 type $24,27,35$, etc. or 3 type $56,57,58$, etc.). Primary for 110 volts, 60 cycles A.C. Shpg. wt. $21 b s$.

## P.P. Input Transformer

An especially well made unit. Fully shielded with lugs at bottom. Has 3.1 turn ratio. Especially suited for the experimenter or set builder. Offered at a new low price. Shpg. wt. 2 !bs. xC1912

## Your Cost. Special

## JEFFERSON

## P.P. Input Transformer

A fully shielded $P$. $P$. input transformer with soldering lug terminals on the sides. High grade core material assures excellent frequency response. Turn ratio 3:1. Ideal as a general replacement part. Quantity limited; at this bargain price it will pay you to order a few for
 stock now. Size $23 / 8 \times 2 \times 2$ Shpg wt. 2 lbs. $\qquad$ $75^{\circ}$

## PACENT Oversized Shielded

 P.P. Input Transformer

This high quality P.P. input transformer is constructed with an extra heavy duty core of high permeability metal. Its use as a general replacement will in variably im prove tone quality to proverked deqy a marked degree. Fully shielded in black Fully shielded in black lacquered metal case, and provided with insulated leads. Size centers $3^{\prime \prime}$. Shpg. wt. 41 bs . $\times C 1807$
Your Cost, Special

## RCA Output

Transformer For models 46, 47 and 66. Genuine Part No. 6019. To match single 71 A or 45 to $5-15$ ohm voice coil. Shpg. wt. ${ }^{3}$ lbs.i70- 3 Your Cost. .

## bs.

$\times 21 / 2 \times 21 / 2^{\prime \prime}$; mtg .

## OWN BUYNOW

## Oversized Audio

## Transformers

These heavy duty, fine quality audios are offered at an exceptionally low price. Ideal for use by the set builder, or to improve quality of old type receivers. Two Pypes: input. Size $25 \times 0^{3}$ x31/8". Fully shielded with lugs at base. Shpg $\begin{aligned} & \text { wt. } 2 \text { lbs. } \\ & \times C 1913-S t r a i g h t ~ A u d i o, ~ R a t i o ~ 3: 1 ~\end{aligned}>$ XC1913-Straigh
Your Cost Each
Your Cost Each.
XC1932-P.P. Inp
Your Cost Each
$85^{\circ}$
Similar to the above, but base mounting type with screw terminals Oversized core assures excellent frequency response over the entire audio range. Available in two types: straight audio and push-pull input. Mount on top of chassis. Ideal for experimental work. Shpg wt. each 2 lbs.
XC1841 - Straight Audio Transformer, ratio Your Cost Each
XC1840-Push-Pull Input Transformer, similar to above.

## Driver Input and P. P. Interstage Assembly

A double input assembly consisting of a P.P. interstage transformer for coupling a '30 plate to two '30 grids and a driver input to couple two '30 plates to two '30 grids. Driver primary 1185 ohms, secondary 280
 ohms; interstage transforme primary 1650 ohms. In heavy metal contai with crimping lugs for mounting through chassis. Long color coded leads. Size $33 / 4 \times 25 / 8$ $\mathrm{x}^{\prime \prime}$ " Shpg. wt. 4 lbs.
Xc1844-Your Cost Each
$\$ 1.95$

## A Daring Low Price on UNIVERSAL Output

Transformer
Has a combination of taps making it postaps making it pos-
sible to feed from a single or P.P. output stage to any voice coil stage to any
from 2 to 30 ohms in from 2 to 30 ohms in
2 steps. Unit 2 ohm steps. Unit
may be mounted on may be mounted on
end or sides; slots in base allow wide
 mounting range
Full instructions included. Size $2 \times 23 / 8 \times 15 / 8^{\prime \prime}$ Shpg, wt. 3 lbs.
XC1708-Your Cost Each.

# Service over 90\% of all Standard Peceivers with Inutest Power Iransformers NO ECUAL IN QUALITY AT THESE LOW PRIGES? <br> Trutest Power Transformers, engineered by experts and constructed 

 of the finest materials, truly deserve the popularity accorded them in the service field. Each unit is designed to provide ample safety factor under any normal conditions of use. As a result, Trutest Power Transformers are fully guaranteed, under R.M.A. standards, for a period of 90 days, against mechanical or electrical defects. This is your assurance that Trutest Transformers will live up to the claims made of them. To simplify installation, and to preclude possibility of error in wiring, each unit is furnished with a schematic dia-
gram showing each terminal connection.


Furnished in both flush and horizontal mountings in the large variety of sizes given below, these transformers should prove applicable to most any receiver on the market. The fush type of mounting is recommended as furnishing the more finished appearance. For replacement work the horizontal type of mounting will be found to be more practical. Experimenters and set builders will find in Trutest Power Transformers
a Bolution to their long-felt wants. Compactness, ease of wiring and general appearance will go far to eliminate that "home made" look. On Flush Mounting Types, soldering lugs terminate on an insulated strip and protrude through the sub-panel. The Upright Horizontal Types have wire lead terminals and feet are provided on bases; the slight elevation permitting air circulation under cores.

## For the New 6.3 Volt Tubes

5 and 6 Tube Sets
Up to Four Heater Type Tubes, One Power Tube and One 80 Rectifler MOUNTING AREA: 3x21/" MOUNTING DIMENSIONS: $21 / 2 \times 2^{\circ}$ PRIMARY: 115 volts, $50-60$ cycles. SECONDARIES: $300 / 300$ volts- 50 M.A
6.3 volts C.T., 2 amps. (for two or three heaters and one power tube). 5 volts, 2 amps . ( 80 fila ment). Flush mounting type. Your Cost, Special. $\qquad$ 1.30

## 7 and 8 Tube Receivere

Four or Five Heaters and Two Power Tubes (6.3 Heaters) or Seven Heaters (6.3) and Two Power Tubes (2.5), One 80 or 523 Rectiffer
MOUNTING AREA: $318 \times 38 /{ }^{\prime \prime}$ MOUNTING DIMENSIONS: $21 / 2 \times 31 /{ }^{\prime \prime}$ PRIMARY: 115 volts, $50-60$ cycles.
SECONDARIES: $350 / 350$ volts- 70 M.A.
6.3 volts C.T., 3 amps. (for 3 or 4 heaters and 2 power tubes).
2.5 wolts C.T., 4 amps. (for two power tubes). 5 volts, 3 amps. (for 80 or $5 Z 3$ rectifier). Flush mounting type. XC1519-Shpg. wt. 8 lbs.
$\qquad$ $\$ 410$

## 9 and 10 Tube Receivere

Up to Seven Heater Type Tuhes and Two Power Tubes (all 6.3) ot Ten Heaters (6.3) and Two Power Tubes (2.5), One 80 or 5Z3 Rectifier
MOUNTING AREA: $41 / 2 \times 38 / 4$. MOUNTING DIMENSIONS: 31/9x21/2" PRIMARY: 115 volts, $50-60$ cycles.
6.3 volts C.T., 4 a mps. (for 7 - 100 M.A
6.3 volts C.T., 4 amps. (for 7 heaters and

2 power tubes).
2.5 volts C.T., 4 a mps. (for 2 power tubes).

5 volts, 3 amps. (for 80 or $5 \mathrm{Z3}$ rectifier). Flush mounting type. XC1520-Shpg. wt. 9 lbs Your Cost, Special

## For use with the New

 Type TubesUp to 8 Heater Type Tubes 2 of the New 243 Power Tubes 1-83 Rectifier
Suitable both for Class A and Class A1 (a modified Class $B$ amplification)
MOUNTING AREA: $41 / 2 \times 3 /{ }^{\prime \prime}$
MOUNTING DIMENSIONS: $3 \times 33 /{ }^{3 /}$ ". PRIMARY: 115 volt, $50-60$ cycle. SECONDARIES: $400 / 400$ at 150 M .A.
$21 / 3$ volts C.T. 5 amp .
$21 / 2$ volts C.T. 12 amp
5 volts
Flush mounting type
XC1517-Shpg. wt. 10

## Additional TRUTEST Power Transformer Specifications

As a further aid to the serviceman in selecting proper parts to fill his requirements, Trutest engineers offer the following information: A ver age temperature rise on all transformers listed below is $51^{\circ} \mathrm{C}$.; Insulation between windings tested at 1500 volts; Primary tested at double the rated voltage.

## 5 and 6 Tube Receivers

## For Three or Four 21/2 Volt Heater Tuhes,

 One 21/2 Volt Power Tube and One 280 or 282 RectifierMOUNTING AREA: $31 / 8 \times 38 /^{\prime \prime}$
MOUNTING DIMENSIONS: 3 $3 \mathrm{kx} 21 / \mathrm{m}^{\prime \prime}$
PRIMARY: 115 volts, 50-60 cycles
(2) 5 volts, 2 : (1) 700 volts C.T.- 70 M.A
2) 5 volts, 2 amps . (one 280 filament), or
2.5 volts, 3 amps . (one 282 filament).
(3) 2.5 volts, 8.75 amps . ( 3 or 4 heaters and 1 power tube).
Shipping weight 6 lbs .
Flush Mounting Type
XC1492-Using 280 Rectifier. Xc1492-Using 280 Rectifier.
XC1498-Using 82 Rectifier.
Your Cost Each..........


For 4 Tube Nidget
For 2 Heater Tubes
1 Power Tube and 1-80 Rectifier

MOUNTING AREA: $3 \times 21 / 3^{\prime \prime}$
MOUNTING DIMENSIONS: $21 / 2 \times 2^{\prime \prime}$ PRIMARY: 115 volts, 50-60 cycles. SECONDARIES: 650 volts C.T.- 40 M.A.
2.5 volts C.T., 3.75 amps . For 2 heaters and 1 power tube. 5 volts, 2 amps. for 80 flament. Flush mounting.
$\times C 1521$-Shpg. wt. 4 lbs. XC1521-Shpg. wt. 4 lbs
Your Cost Each


## Special Midget Transformer

 For 4 and 5 Tube SetsFor Three Heater Tubes, One Power Tube and One 80 Rectifier MOUNTING AREA: $3 \times 212^{\prime \prime}$. MOUNTING DIMENSIONS: $21 / 2 \times 2$ " PRIMARY: 115 volts, 60 cycles.
SECONDARIES: 680 volts, C.T.- 50 M.A.
2.5 volts C.T., 7 amps . (for 3 heaters and 1 power tube).
5 volts, 2 a mps. (for 80 rectifier).
Flush mounting type.
XC2431-Shpg. wt. 4 lbs
Your Cost, Special,
Be

## 6 and 7 Tube Receivers Push-Pull Power Tubes

For Three $21 / 5$ Volt Heater Tubes, Two 21 Volt Power Tubes and One 280 Rectifier MOUNTING AREA: $31 / 8 \times 38 / 4$ "

## MOUNTING DIMENSIONS: $21 / 5 \times 31 /{ }^{\prime \prime}$

PRIMARY: 115 volts, $50-60$ cycles.
SECONDARIES: (1) 700 volts C.T.- 70 M.A
(2) 5 volts, 3 amps. ( 280 filament).
(3) 2.5 volts C.T., 3.5 amps . ( 2 power tubes) (4) 2.5 volts, 7 amps . ( 3 or 4 heaters).

Shps. wt. 8 lbs.
Flush Mounting Type

## $\times C 1505$

Your Cost Each.


Horizontal Mounting Type
Same tube characteristics as a bove. Mounting centers $31 / 8 \times 15 / 8^{\prime \prime}$
XC1506
Your Cost Each


## 8 and 9 Tube Receivers

For Four or Five 21/2 Volt Meater Tubet.
Two 21/6 Volt Power Tubes and One 280 or 282 Rectifier
MOUNTING AREA: 38/8 $\times 414^{\circ \prime}$
MOUNTING DIMENSIONS: $27 / \mathrm{B}^{2} 3^{1 / 16} 6^{\prime \prime}$.
PRIMARY: 115 volts, $50-60$ cycles
SECONDARIES: (1) 700 volts C.T.- 90 M.A (plate).
(2) 5 volts, 3 amps . (one 280 filament), or 2.5 volts, 3 amps . (one 282 filament).
(3) 2.5 volts C.T., 3.5 amps. ( 2 power tubes).
(4) 2.5 volts, 10.5 a mps. ( 5 or 6 heater tubes) Shpg. wt. 8 lbs .

Flush Mounting Type XC1507-Using 280 Rectifier XC1499-Using 82 Rectifier Your Cost Each.


Horixontal Mounting Type
Same tube characteristics as above. Mounting centers $31 / 82^{\prime \prime}$.
XC1508-Using 280 Rectifier. I Bour Cost Each...........

## 10 and 12 Tube Receivern

MOUNTING AREA: $314 \times 412^{\prime \prime}$.
MOUNTING DIMENSIONS: $3 \times 38 / 6^{\prime \prime}$
PRIMARY: 115 volts, $50-60$ cycle.
SECONDARIES: (1) 700 volts C.T.- 110 M.A.
(2) 5 volts at 3 amps. (280).
(3) 2.5 volts at 3.5 amps .
(4) 2.5 volts at 15.25 amps .

Shpg. wt. 9 lbs.
Flush Mounting Type
$\times C 1509$
2.3.35

Horizontal Mounting Type
Same tube characteristics as above. Mounting centers $2.5 / 83^{7}{ }^{7}$ к" $^{\prime \prime}$.
XC1510-Your Cost Each.
4. 2.45

For a complete listing of exact dupli-
cate powertransformers refer to pages 110, 111, 112 and 113 in Catalog 56.

## ENITH

## Models ZE-50,

ZE=60, ZE-70
An exact dupliate of the original Zenith No. 9567 Replacement ower Trans former used in the bove model the bove model receivers. Furnishes filament and plate voltages for the ollowing tubes: 3-24s; 3-27s; 2$45 s$; and 1-'80. Shpg. wt. 9 lbs. XC1980 - Your Cost


ZENITH Models 91 and 92 An exact duplicate of the original Zenith Part No. 95-100. Has three $21 / 2$ volt windings; one for 6 heater tubes; one for the AVC tube; one for two power tubes. Separate winding for 3-4 volt Mazda pilot lamp. Flush mounting type. No changes necessary to install, Shpg. wt 9 lbs. XC1984-
Your Cost
COLUMBIA Model S.G. 8


An exact duplicate of the original power transformer for the Screen Grid 8 model of Columbia Radio Corp. Utilizing, ${ }^{3}$ and 1-'80 tubes. Shpg wt. 15 lbs .
$\$ 3.45$

## XC2305-


For a complete listing of genuine and exact duplicate power transformers for all standard radio receivers consult pages $109,110,111$, 112, 113 and 114 in Catalog No. 56.

## Genuine SDAKUN Pawer

Models 600, 610, 620 and 737

## Part No. B-2794

The genuine Sparton replacement Part No. B2794 for the above model sets. Improved type, gold painted finish. For sets using 7-485, 2-483's and 1-80. Shpg. wt. 10 lbs.
$\mathrm{xCl}^{2} 836$ -
Each.

$\$ 2.85$
Models 410, and 420
 Part No. B-3426-S The genuine sparton replacement power transformer Part No. B-3426-S. For the Junior and Jewell models. Sets use 2 -24's, $1-27,2-483^{\prime}$ and 1 1-80. Silver shell. For 110 voit, 60 cycles. Shpg. wt. 5 lbs. XC1835-
Your Cost Each ch.

## Models 69, 79, 79A and 89

 Part No. B-1938 The genuine Sparton re placement Part No. B-1938 for the above model sets Sets use 6-484's, 1-585 and $1-80$. Shpg. wt. 6 lbs. Xcis34

## Guaranteed

 ReplacementsDesigned for Philco Replacements, Guaranteed to be equal to the original General purpose replacement. The usual method of installing these transformers makes possible a very neat arrangement with all wiring out of sight under the base panel. Av. Shpg. wt. 8 pith with each transiormer.
All have 100 -volt, 60 -cycle primary

| Chassis | Tubes Used ( 1 -'80, and) |
| :---: | :---: |
| 20-220 | 3-'2 |
|  | 2-'24s; 1-'27 ; 2-'45s |
| 70 | 4-'24s; 1-'27 ; 2-'45s |
| 76-77 | 3-24s; 1-'27 ; 2-'45s |
| 86 | 4-'26s; 1-'27 ; 2-'71s |
| 87 | 4-26s; 1-'27 ; 2-'45s |
| 90 | 4-'24s; 2-'27s; 2-'458 |
| 95-96 | 3-'24s; 3-'27s; 2-'45s |
| 111-211 | 4-'24s; 4-'27s; 2-'45s |
| 111-211 | 4-'24s; 4-'27s; 2-'47s |
| 50-51 | 2-'24s; 1-'35 ; 1-'47 |
| 71-91 | 2-344s; 1-'37 ; 1-'36 |

Any of the above models Your
Cost.
ilco Stock
hilco Stock

$234 \frac{\text { No. }}{\times C 1955}$ | 4234 | XC1955 |
| :--- | :--- |
| 3516 | $\times C 1956$ | | 3516 | XC1956 |
| :--- | :--- |
| 5117 | $\times C 1957$ |
| 505 |  | | 5117 | XC1957 |
| :--- | :--- |
| 3868 | $\times C 1958$ | | 3868 | XC1958 |
| :--- | :--- |
| 3271 | $\times C 1960$ | $3271 \times$ XC1960 3400 XC1959 4938 XC1961 $3752 \times \mathrm{X} 1962$ $4446 \times$ C1963 $5594 \times$ C1954 5266 XC1951 6804 XC1911

54236

## STROMBERG-CARLSON

## Model 60

An exact duplicate of the original Stromberg Carlson Part No. P-24187. Set uses 1-6D6, 1-6A7, 1-6B7, 1-37, 2-41's and 1-80. Fits chassis exactly, no changes necessary to install. Upright mounting. Long color roded leads. Shpg cor coded

## 9 lbs,

XC1833-
Your Cost Each


## (9) RCATVCTOR

## RCA-VICTOR R-7 "Superette"

 General Electric S-22 Graybar 8 Midget

Your Cost
Each

SPECIAL BARGAIN
7 Tube Power Transformer
This flush mounting transformer can be used to service a vast number of standard receivers on the market today. It has the following windings Primary for 110 volts 60 cycles A.C.; high
 voltage secondary devortage secondary de- 650 volts C.T. at 80 M. $\cdot 2.5$ volts C.T at 12.5 amps. for 5 heater tubes and two power tubes; 5 volts at 2 amps. for 80 rectifier. Size $4 \times 31 /{ }^{\prime \prime}$; mounting centers $31 / 2 \times 25 / 8^{\prime \prime}$. Has long leads for direct connections. All ratings conservative; no danger of unwarranted break down. At this low price it will pay you to stock a few. Shpg. wt. 7 lbs.
XC2039-
Your Cost Each, Special
s. 25

## Stewart-Warner

## Model R-119 Part No. 83442

The genuine StewartWarner power transformer for the above model set. Set uses 2-78's, 1-6A7, 1-85, 1-42 and 1-80. Has one 6.3 volt winding at 2 amps .; one 5 volt winding at 2 amps. High voltage $350 / 350$ at 80 M.A. Primary for 110 volts 50-60 cycles. Upright mounting. Shpg. wt, 5 lbs.
XC1804-
Your Cost


## GENERAL REPLACEMENT

 Upright Shielded Transformer'sThese upright mounting side shield transformers make ideal general replacement units. All are placurately rated and will deliver full specified oltage and currents. The 6 tube transformer The 6 tube translorme has long color coded leads for all connections, the 9 ald 11 tube transformers have sol-
 der lug terminals. Al furnished with hook-up diagrams. Mounting area on all units $3^{15} / 16 \times 37 / 10^{*}$, mounting centers $3 \times 27 / 8$

For 6 Tube Receivers
Primary: 115 volts, $50-60$ cycles.
Secondaries: (1) 750 volts C.T.--at 70 M.A.
(2) 2.5 volts C.T. at 5.25 amps . (for -3 heater tubes).
(3) 2.5 volts C.T. at 3.5 amps . (for 2 power tubes).
(4) 5 volts at 2 amps. (for 80).

Shpt. wt. 7 libs.
XC1956-Your Cost

## For 9 Tube Receivers

Primary: 115 volts, $50-60$ cycles.
Secondaries: (1) 750 volts, C.T. at 90 M.A.
(2) 2.5 volts $\mathrm{C} . \mathrm{T}$. at 10.5 amps . (for 6
heater tubes)
(3) 2.5 volts C.T. at 3.5 amps . (for 2 power tubes).
(4) 5 volts at 2 amps . (for 80).

Shpg. wt. 8 lbs .
XCI961-Your Cost.
$\$ 2.38$

## For 11 Tube Receivers

Primary: 115 volts, $50-60$ cycles.
Secondaries: (1) 8000 volts, C.T. at 110 M.A.
(2) 2.5 volts C.T. at 14 amps . (for 8 heater
tubes).
(3) 2.5 voits C.T. at 3.5 amps . (for 2 power tubes).
(4) 5 volts at 2 amps . (for 80 ).

Shpg. wt. 8 lbs.
XCI963-Your Cost.
${ }^{\$} 2.38$



| GPIGSBY GRUNOW (cont'd) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Stock No. | $\begin{aligned} & \text { Mfr's. } \\ & \text { No. } \end{aligned}$ | Cap'y. <br> Mfd. | Wkg. Volt. | Your Cost |
| XD2823 | 8755 | 8-4 | 450 | \$0.52 |
| KD2824 | 9337 | 8 | 200 | . 31 |
| XD2825 | 9661 | 8-16-10 | 140-15 | . 74 |
| XD2826 | 10067 | 10 | 25 | . 20 |
| XD2827 | 9979 | 8-8 | 350 | . 72 |
| XD2828 | 10193 | 8 | 450 | . 39 |
| XD2829 | 10208 | 10-10 | 25 | . 28 |
| XD2830 | 10488 | 10 | 25 | . 20 |
| XD2831 | 10369 | 8-8 | 400 | .72 |
| XD2832 | 10630 | 8-8-10 | 400-400-25 | . 91 |
| XD2833 | 10946 | 10 | 30 | . 32 |
| XD2834 | 11017 | 16 | 450 | . 60 |
| XD2835 | 11200 | 4-2 | 450 | .47 |
| XD2836 | 11452 | 4-8 | 450 | . 50 |
| XD2850 | 11640 | 4-6-10 | 300-350-25 | . 72 |
| XD2851 | 11794 | 20 | 30 | . 39 |
| XD2852 | 12026 | 20-10 | 25 | . 31 |
| XD2853 | 12038 | 16 | 450 | . 63 |
| MIDWEST |  |  |  |  |
| PILOT |  |  |  |  |
| $\times \mathrm{X} 2855$ | 22481 |  | 25 | \$0.21 |
| XD2856 |  | 5-5 | 50 | . 28 |
| XD2857 | 22484 | 8 | 150 | . 29 |
| XD2858 | 70871 | -5-4-12 | $\begin{gathered} 150-25-25- \\ 150-150 \end{gathered}$ | 1.25 |
| RCA-VICTOR |  |  |  |  |
| XD2859 | 64570-1 | 4 | 450 | \$0.30 |
| XD2860 | 64570-7 | 25 | 200 | . 49 |
| XD2861 | 64460-3 | 4 | 200 | . 25 |
| XD2862 | 66126-2 | 4-4 | 300 | . 44 |
| XD2863 | 66143-3 | 4-4 | 450-150 | . 41 |
| XD2864 | 66122-2 | 4-4 | 250 | . 38 |
| XD2865 |  | 1-3.6 | 225-100 | . 33 |
| XD2866 | 66140-2 | 5-5 | 35 | . 27 |
| XD2867 | 66143-2 | 10-4 | 300-150 | . 50 |
| XD2868 | 66140-8 | 8 | 160 | . 29 |
| XD2869 | 66174-1 | 4-4-4 | 140-220-140 | . 57 |

RCA-VICTOR (cont'd)

| Stock No. | Mfr's. No. | Cap'y. Mid. | Wkg. Volt. | Your Cost |
| :---: | :---: | :---: | :---: | :---: |
| XD2885 | 66174-1 | 4-15-4 | 140-20-140 | \$1.20 |
| XD2886 | 66140-6 | 8 | 150 | 29 |
| XD2887 | 66185-1 | 5-5-8-8 | 40-40-230-3 | . 83 |
| XD2888 | 66139-1 | 4 | 25 | 21 |
| X D2889 | 66189-2] | 8-4-4-4 |  |  |
|  |  |  | -140-280-20 | 81 |
| XD2890 | 66171-1 | $\begin{array}{r} 8-8-4-10- \\ 8-8 \end{array}$ | $\begin{aligned} & 225-150-150- \\ & 20-150-150 \end{aligned}$ | 1.40 |
| XD2891 | 66170-2 | 10-10 | 350-100 | . 55 |
| XD2892 | 66196-1 | 8 | 450 | . 37 |
| XD2893 | 66185-2 | 5-5-8-8 | 40-420 | . 85 |
| XD2894 | 66197-11 | 4 | 150 | . 23 |
| XD2895 | 68519-4 | 4-8 | 450 | . 58 |
| XD2896 | 68505-3 | 8-8 | 450 | . 59 |
| XD2897 | 68526-1 | 8 | 250 | . 33 |
| XD2898 | 66139-2 | 4 | 25 | . 21 |
| XD2899 | 68531-2 | 10-8-4 | 50-200-450 | . 90 |
| $\times$ XD2900 | 68527-2 | 10-10-4 | 25-25-200 | . 70 |
| XD2901 | 66143-3 | A-4 | 450-150 | . 41 |
| SHELBOURNE |  |  |  |  |
| XD2902 |  | 8-8 | 300-35 | \$0.46 |

TATRO

| XD2903 | 10 | 40 | $\mathbf{5 0 . 3 2}$ |
| :--- | :---: | :---: | :---: |
| XD2904 | 8 | 450 | $\mathbf{. 3 7}$ |


|  | WELLS GARDNER |  |  | 50.6 |
| :---: | :---: | :---: | :---: | :---: |
| XD2905 | 80939 | 8-16 | 300 |  |
| XD2906 |  |  | 25 | . 21 |
| XD2908 | 81016 | ${ }_{8}^{12-12}$ | -2500 | . 55 |
| WURLITZER |  |  |  |  |
| XD2909 | Y-3052-R | 10 | 25 | 1 |
| XD2910 | Y-3228 | 5 | 100 | . 22 |

## ZENITH

| XD2911 |  | 6 | 300 | $\$ 0.33$ |
| :--- | :--- | :--- | :--- | :--- |
| XD2912 | $22-189$ | 20 | 25 | .25 |

## Round Inverted Metal Can- 500 Volts Peak



These single and dual section electrolytics, contained in cylindrical aluminum cans. Fit $3 / 4$ "hole, and lockwasher. All conservatively rated, working voltage 450 v rated,
Sto
No
$\times D 3$
$\times 03$
$\times 03$
$\times D 3$
$\times D 3$ Sto
N
$\times D$
XD
XD
XD
XD
$k$ Cap' p'y

Size
Your
cout
So.28
.30
.30
.38
.48
.62
Tubular Cartridge Units


Compact Ary electrolytics in tubular cardboard containers measuring only $21 / 4^{\prime \prime}$ long. where space is an important factor. Provided where space is an imp
with stifi wire leads.
Stock Cap'y Wkg
Stock Cap'y Wkg. Peak Diam. Your No.
$\times D 3100$
$\times 03101$
XD3101
XD3102
$\times 2103$
 These dry electrolytic condensers are
all high grade, first quality units all high grade, first quality units. At they are being offered, it is imperative that you order now. Quantities limited.


> Cardboard Type With Mounting Flanges
 These units are containedin tough fibre and provided with mounting tabs at either end. When clamp mounting is desired, these tabs may be cut off without breaking the cardboard housing. Low in price, efficient for replacement work of all kinds. will remain constant over a wide range of frequencies and voltages.
Stock Cap'y Peak $\begin{gathered}\text { Size } \\ \text { Inches }\end{gathered}$ No. Mfd Volts Inches Your $\begin{array}{lllllll}\text { XD3115 } & 4 & 500 & 41 / 8 & 13 / 8 & \mathrm{D} & \text { Cost } \\ \mathbf{\$ 0} 23\end{array}$ $\times$ X3116 XD3117 XD3118 $\begin{array}{llll} & 8-4 & 500 & 41 / 8 \\ \times 118 & 500 & 41 / 8\end{array}$ $\begin{array}{llll}\times D 3119 & 8-8-8 & 500 & 41 / 8 \\ \times 03120 & 8-8 & 500 & 4 / 8\end{array}$ XD3120*
$\times 03121 *$ XD 3120
$\times 03125$ ork o
tively
a wid
Size
Inches
W
138


## Round Upright Metal Can Units-500 V Peak

Mounted in cylindrical aluminum containers and provided with solder ${ }^{1}-7$ lug terminals. Will fit standard ring


## Compact Rectangular Units in Cartons

In cardboard cartons only 21/4" long. Popular for use in A. C.-D. C. Midgets where space is limited.
 Cumberinils raicu

Mershon

## Wet <br> Electrolytic

## Filter Condensers

Only a limited quantity of these genuine Mershon wet electrolytic filter condensers are being offered at these exceptionally low prices. All are brand new and are recent factory output-not the old type. All are of the clamp mounting type except two as noted below. Clamp mounting units supplied with clamp; stud mounting units supplied with lockwasher and nut.

| Stock No. | $\begin{aligned} & \text { Cap'y } \\ & \text { Mfd. } \end{aligned}$ | Wkg. Volt. | Your Cost | Stock No. | Cap'y Mfd. | Wkg. Volt. | Your Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| XD2690 | 6 | 425 |  | XD2696 | 10 |  |  |
| XD2691 | 6 | 450 |  | XD2698 | 25 |  |  |
| XD2692 | 7 | 450 |  | XD2687* | - 7 | 440 | \$0.15 |
| XD2693 | -8 | 430 |  | XD2681* | * 16 | 450 | . 24 |
| XD2694 | 8 | 450 |  | * Stud M | Mountin | Cond | nsers. |

## You Can't Beat This Price

*     *         * Tubular Condenser Kit * *

The most attractive condenser bargain ever offered to the serviceman. Each kit contains 25 tubular condensers, manufactured by a famous condenser manufacturer, and all are STANDARD SIZES-no "fluke" capacities or voltARD SLaEs no fiuke 600 volts D.C. working voltage, from .0005 to .1 mid. ing voltage, fro Shpg.wt.
XD 258
XD3258-
Your Cost, Kit of 25


You to EQUAL
these prices, Save NOW on these SANGAMO 1000-Volt Mica Condensers


Finest ruby mica dielectric. Stock Cap. Moulded bakelite cases.


| electric. | Stock No. | Cap. Mid. | Cap. <br> Mmfd. | $\begin{aligned} & \text { Your } \\ & \text { Cost } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | XD3054 | . 00015 | 150 | . 23 |
| Your | XD3055 | :0002 | 200 |  |
| Cost | XD3056 | . 00025 | 250 | $16^{c}$ |
|  | XD3058 | . 000035 | 350 |  |
| \$0.15 | XD3060 | . 0005 | 500 |  |
| . 23 | XD3048 | . 0007 | 700 | . 15 |
| .16 | XD3061 | . 001 | 1000 | . 20 |

## Truitent Midget

## Cartridge Condensers

These condensers are very com pact, half the size of average cartridge condensers. Especially adaptable to A.C.-D.C. sets, or where space is a factor. Sealed at ends, leads cannot pull out.

| Stock | Cap. <br> Mfd. | Work. <br> Volt. | Your Cost | Stock No. | Cap. <br> Mfd. | Work. Volt. | Your Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. |  | Volt. |  | $\times \mathrm{D} 3185$ | . 002 | $600$ |  |
| XD3173 | . 01 | 200 | \$0.06 | XD3185 | . 006 | 600 |  |
| XD3175 | . 05 | 200 | . 07 | XD3186 | . 006 | 600 |  |
| XD3176 | . 1 | $200\}$ | 7 | XD3187 | . 01 | 600 | c |
| XD3177 | . 25 | 200 \} |  | XD3188 | . 02 | 600 |  |
| XD3178 | . 5 | 200 | . 14 | XD3189 | . 05 | $600^{\circ}$ | \$0.09 |
| XD3179 | . 01 | 400 | . 06 | XD3190 | . 1 | 600 | 10 |
| XD3180 | . 02 | $400\}$ | c | XD3191 | .25 | 600 | 5 |
| XD3181 | . 05 | 400 ) |  | XD3192 | .05-05 | 200 | c |
| XD3182 | . 1 | 400 | 08 | XD3193 | .1-. 1 | 200 |  |
| XD3183 | . 25 | 400 | . 12 | XD3194 | .25-25 | 200 | .16 |
| $\times$ X 3174 | . 5 | 400 | . 16 | XD3195 | . $05-.05$ | 400 | . 14 |
| XD3184 | . 001 | 600 | . 07 | $\times$ X3196 | .1-.1 | 400 | . 15 |

## Trutest MAJESTIC Condenser Blocks



Exact duplicates of the original in every respect. No changes necessary to ${ }_{i}$ nstall. Diagram supplied.
For Majestic 7P6, 7BP6 (Sets Using'71 Tubes) Size $83 / 4 \times 21 / 2 \times 41 / 2^{n}$. Shpg wt. 6 lbs
X81071-7P6 Early XB1070-7BPG Late

Your Cost Either Typ
${ }^{\text {s }} 1.75$ For Majestic 9P6
(Sets with 245 Type Tubes) Size $83 / 4 \times 21 / 2 \times 412^{\prime \prime}$. Shpg. wt. 4 lbs
XB1067-
Your Cost Each

## Single 8 Mfd. Can

This special 8 mid ., 500 V . peak condenser is ideal for all replacement purposes. In round aluminum can, $43 / 8 \times 13 / 8^{\prime \prime}$. Fits hole for $3 / /^{\prime \prime}$ studs. Can is grounded-negative terminal. At this low price every serviceman should keep several in service. Shpg. wt. 1 lb .
XD3106-
Your C
Special
Single 8 Mfd. Cardboard
The most popular size in this very तn popular line of condensers at an ex ceptionally LOW PRICE. This 8 mid. condenser has a heavily waxed cardboard container provided with tabs at either end. Peak 500 volts. Size $41 / 8 \times 1$
$\times D 3116$
XD3116 Special.

Dual 8 Mfd. 450 Volt A special offer of these $8-8 \mathrm{mfd} ., 450$ volt condensers. | Peak 500 volts. In waxed cardboard container, size $33 / 4 \times 17 / 8 \times 116 / 16$. Separate common, Shpg. wt. 1 lb.
XC1022, Your Cost Each, Special. 3


Two Popular Replacement Blocks AT AMAZINGLY LOW PRICES!

## SPARTON Model 930

 Condenser Block Part No. B2203Comprises five sections totalling 6.1 mfds. Color code is: red lead is 2 mfd . 1000 volts; three blue leads are 1 mfd ., 400 volt sections; brown lead is 1.1 mfd., 600 volt section. In metal container $51 / 4 \times 31 / 6 \times$ $21 / 2^{\prime \prime}$. Shpg. wt. 5 lbs .
XB973

1. 75


RCA Capacitor Pack

## For Models

## R-7A and RE-16A

The genuine Replacement Part No. 7256. Contains 1 $.005 \mathrm{mfd} ., 5-.5 \mathrm{mfd} ., 1-.1 \mathrm{mfd}$ and $1-1.0$ mid. condensers in metal container with crimping lugs for mounting. placement part. Shpg. wt. 6 lbs .
XC1001
Your Cost Each,
Special.

## SAVINGS on Trutes

Dry Electrolytic Condensers for AC-DC Sets
 Filter and ByPass Units for Compact Receivers

| Stock No. | -40 |  | Recervers |  | replacement purposes. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Cap'y } \\ & \text { Mfd } \end{aligned}$ Mfd. | Wkg. Volt. | Dimensions Inches | Your Cost | Stock No. | Cap'y Mfd. |  | ze ches | Your Cost Each |
|  |  |  |  |  | XD3223 | 1 | 9 的 ${ }^{1}$ | $\times 2716$ | \$0.25 |
| D3161 | 10-10* | 25 | 11/16x11/16x23/8 | \$0.33 | XD3219 | 2 | $23 / 8$ | $1 / 8 \times 1 / 2$ | 30 |
| D3153 | 5-5* | 25 | 21/4 $\times 1 / 8 \times 1 / 8$ | -33 | XD3220 | 4 | $23 / 8$ | $1 / 8 \times 5 / 8$ | . 35 |
| D3154 | 10-10* | 25 | 21/4x $7 / 8 \times 7 / 8$ | .33 | XD3221 | 6 | $23 / 8$ | $1 / 8 \times 7 / 8$ | . 40 |
| D3163 | 8-8-4** | 200 | $11 / 8 \times 196 \times 41 / 8$ | . 74 | XD3222 | 8 | $23 / 8 \times 1$ | $1 / 8 \times 1$ | . 42 |
| D3164 | 8-8-8* | 200 | $11 / 8 \times 19$ 价 ${ }^{41 / 8}$ | . 79 |  |  |  |  |  |
| D3165 | 8-8-15* | 200 | $11 / 8 \times 1{ }^{1}$ \{6x41/8 | - 85 |  |  |  |  |  |
| D3166 | 12-4* | 150 | $11 / 4 \times 13 / 8 \times 25 / 8$ | . 53 |  | Dry | lect | $1{ }^{1}$ |  |
| D3167 | 12-8* | 200 150 | $\begin{aligned} & 15 / 6 \times 13 / 8 \times 41 / 8 \\ & 11 / 4 \times 18 / 8 \times 25 / 8 \end{aligned}$ | . 54 |  | -t | - |  |  |
| D3169 | 4-4** | 160 150 | $174 \times 13 / 8 \times 2 / 8$ $27 / 8 \times 1 \times 1$ | . 38 | Ca | 121 | e | 18 | ser |
| D3149 | 8-8 | 150 | $1 \times 11 / 2 \times 3$ | . 41 |  |  |  |  |  |
| D3150 | $\mathrm{rl}^{8-8}$ | 150 | $1 \times 11 / 2 \times 3$ | . 41 |  |  |  |  |  |
| D3152 | 25-5-5 SP | 150 | $23 / 8 \times 123 / 3 x^{11} 30$ | -82 |  |  |  |  |  |
| D3170 | 4-4* | 200 | $11 / 4 \times 13 / 8 \times 25 / 8$ | 33 | Enclosed | in wax | d cardb | d cont | tainers with |
| D3172 | 12-4* | 200 | $11 / 4 \times 13 / 8 \times 258$ | 2 | metal en | ds and 1 | $4^{\prime \prime}$ tinn | wire |  |
| D3155 | 16-8 $\dagger$ | 200 | $11 / 8 \times 1{ }^{\circ} 16 \times 41 / 8$ | . 52 | meticall | sealed. | Very comp |  |  |
| D3156 | 16-16 $\dagger$ | 200 | 17/6x $1^{9}$ /6x ${ }^{1 / 8}$ | .71 | Stock | Cap'y | Working | Peak | Your Cost |
| D3157 | 4-16-8 SP | 150 | $11 / 8 \times 19$ 96x418 | . 71 | No. | Mfd. | Volts | Volt. | 50.22 |
| D3158 | 4-4 $\dagger$ | 150 | $11 / 4 \times 138 \times 258$ | .34 | XD3380 | 5 | 25 | 35 | \$0.22 |
| D3159 | 4-4 $\dagger$ | 200 | $11 / 4 \times 13 / 8 \times 25 / 8$ | 34 | XD3381 | 10 | 25 | 35 | 24 |
| * Common Terminal Negative. |  |  |  |  | XD3291 | 2 | 450 | 500 500 | . 30 |
| SP. Com. Term. Spec. † Com. Ter |  |  |  |  | XD3292 | 2 | 450 | 600 |  |

#  <br> means SAVINCS to you! 

Power Transformers


## PLATE TRANSFORMER 70 SERIES

7 BP6 Pack
Original Majestic Part No. 67. Shpg. wt. 6 lbs. C2104-

PLATE TRANSFORMER-MODEL 180 For 8BP6 Pack*
Duplicate of Part No. 618. Shpg. wt. 9 lbs. XC2169 $\qquad$ $\$ 4.25$
FILAMENT \& PLATE TRANSFORMER MAJESTIC 9BPG Power Packs Original Majestic Part No. 436, for 90 Series. Shpg. wt. 15 lbs.
$\$ 1.25$

## MAJESTIC <br> 90-B and 100-B*

Duplicate of Majestic Part No. 1562. Filament and plate transformer in one container. Shpg. wt. 15 lbs.
XC2127-Your Cost
3.45

## FILAMENT TRANSFORMER 70 SERIES 7BP Power Packs

Original Majestic Part No. 61. Shpg. wt. 6 lbs• XC2105-
Your Cost


MAJESTIC MODEL 130A
Majestic Part No. 891. Shpg. wt. 7 lbs. $\times \mathrm{C} 2130$ -
$\qquad$ 3.45

## MAJESTIC MODEL 230A

Majestic Part No. 2156 . Shpg. wt. 8 lbs. XC2040-
s2.95

## MAJESTIC MODELS 25, 25 B

Majestic Part No. 5614. Shpg. wt. 15 lbs. XC2041-
$\$ 3.11$
MAJESTIC MODEL 300
Majestic Part No. 7321. Shpg. wt. 7 lbs. XC2044-
3.25

## MAJESTIC MODEL 310A

Majestic Part No. 7846. Shpg. wt. 7 lbs. XC2045-
\$2.10

## MASESTIC MODEL 3108

Majestic Part No. 8365. Shpg. wt. 7 lbs. XC2046-
$\$ 2.25$
Your Cost

## MAJESTIC MODEL 330

Majestic Part No. 8717. Shpg. wt. 7 lbs. Your Cost
\$I.95
MAUESTIC MODEL 800
Majestic Part No. 11031. Shpg. wt. 71 lbs . XC2049
Your Cost
$\$ 2.25$



By-Pass Assemblies

model 220 XB723-Your Cost Each MODEL 35
Genuine Majestic Part No. 5792. Shpg. wt. 2 lbs,
XB724-Your Cost Each.

## MODEL 45

Genuine Majestic Part No. 5926. Shpg. wt XB725-Your Cost Each. ..........49 ${ }^{\text {2 }}$

## I. F. Transformers



Each coil bears the manufacturers part number stamped on the housing. All leads color coded same as coils in the sets. Any I.F. coil not listed can be secured upon order. Prices on request.

| Stock No. | Model No. | $\begin{aligned} & \text { Part } \\ & \text { No. } \end{aligned}$ | Stage | Your Cost |
| :---: | :---: | :---: | :---: | :---: |
| XC2489 | 15,15B, |  |  |  |
|  | 150,65 | 4429 | Output | \$0.95 |
| C2491 | $\begin{aligned} & 15,1, \mathrm{~B} \\ & 150 \end{aligned}$ | 4428 | Composite | 175 |
| XC2303 | 25 | 5326 | 1st I.F. | 1.19 |
| $\times \mathrm{C} 2304$ | 25 | 5337 | 2nd I.F. | 1.12 |
| $\times \mathrm{C} 2318$ | 25B | 0601 | 1st I.F. | 1.25 |
| $\times \mathrm{XC2319}$ | 25 B | 5602 | 2nd I.F. | 1.25 |
| XC2498 | 60 | 4439 | 1st I.F. | 1.95 |
| XC2499 | 60 | 4267 | 2nd I.F. | 1.95 |
| $\times \mathrm{XC2324}$ | 200 | 6250 | 1st I.F. | 1.25 |
| $\times \mathrm{C} 2325$ | 200 | 6254 | 2nd I.F. | 1.29 |
| $\times \mathrm{C} 2332$ | 290 | 7205 | 1st I.F. | 1.19 |
| $\times$ | 290 | 7230 | 2nd I.F. | 1.35 |
| $\times \mathrm{XC2415}$ | 310A | 7821 | 1st I.F. | 1.05 |
| $\times \mathrm{C} 2416$ | 310A | 7812 | 2nd I.F. |  |
| $\begin{aligned} & \mathrm{XC2451} \\ & \times \mathrm{C} 2452 \end{aligned}$ | 460 | 10149 | (coil only) | 48 |
|  |  |  | 1st I.F. | 1.15 |
|  | 460 | 10253 | 2nd I.F. |  |
|  |  |  | (coil onty) | . 65 |

## Pilot Light Dimmer

For Models 300, 300 A and 320 Duplicate of the original Majestic Part No. 7785. Used as a resonance indicator in the above model sets. Complete, no changes necessary to install.
 Employs new heavy duty primary coil; will not burn out. Shpg. wt. 2 lbs.
XC2514
Your Cost

## Audio Transformers



STRAIGHT AUDIO TRANSFORMER MAJESTIC 70 SERIES
Genuine Part No. 638. Shpg. wt. 5 lbs. XC2091-
Your Cost
$85^{\circ}$
PUSH-PULL OUTPUT TRANSFORMER MASESTIC 7 Ò SERIES
Genuine Majestic Part No. 64. Shpg. wt. 4 lbs. ${ }^{\mathbf{X} C 2092-}$ $\qquad$ $\ldots . .59^{c}$
PUSH-PULL OUTPUT TRANSFORMER MAJESTIC 90 SERIES
Origina! Majestic Part No. 134. Shpg. wt. 3 lbs. Your Cost
$59^{\circ}$

> 90-B PUSH-PULL OUTPUT TRANSFORMER
P.P. Output, Majestic Part No. 1552.
$\mathbf{X C 2 0 9 5 - Y o u r ~ C o s t . . . . . . . . . . . . . . . . . . . ~}$ 130A PUSH-PULL INPUT
TRANSFORMER Genui
6
lbs. Shpg. wt

1. 25

## CHOKE FOR 70 .SERIES

Original Majestic Part No. 66. Used in 7BP6 Power Pack. Shpg. wt. 8 lbs .
........228
DOUBLE CHOKE FOR 180 SERIES Original Majestic Part No. 626. For 8P6 Pack. Shpg. wt. 8 libs.

DOUBLE CHOKE FOR 90 SERIES
Original Majestic Part No. 281. For 9P6 Packs. Shpg. wt. 9 lbs.
XC2i03-Your Cost $49^{\circ}$

## Condenser Blocks

Models 90B-100B
Chassis; 90, 91, 92, 93, 102 and 103
Majestic Replacement Part No. 1564. Contains three 2 mid. and one 1 mfd . condensers. Shpg. wt. 6 lbs.


Majestic 60, 160
Originai Majestic Part No. 3858. Shpg. wt. 9 1bs. XB1072-Your Cost.
\$1.95

## Majestic 30 Choke and Condenser

Genuine Majestic Part'No. 3622 . Shpg. wt.
82.25

# 2 <br> RCA.Vi Huthtinet 

RCA Cabinet Refinishing Kit


Contains all the necessary equipment for repairing scratched dented, or otherwise marred furniture. All items packed in a durable leatherette case measuring $91 / 2 \times 41 / 2$ leatherette case measuring $91 / 2 \times 4 /{ }^{\prime \prime}$. Contains the foliowing: 1 can x21/4. Contains the following: 1 can
Refco Oil for cleaning; 1 can of ValRefco Oil for cleaning; 1 can of Val-
voline for rubbing; 1 assortment of voline for rubbing; 1 assortment of
sandpaper; 1 assortment of stick shellac; 2 packages of Aniline Stain powders; 1 touch-up brush; 1 spatula; 1 rubbing block; 1 instruction sheet. Shpg. wt. 5 lbs.
XP15238
Your


# $\mathbb{R G}$ Amateur Communications Receiver Model ACR-136 

## $\star 540$ to $\mathbf{1 8 , 0 0 0} \mathrm{Kc}$. $\star$ No Plug-in coils $\star 1$ Stage of R.F. $\star$ Complete Band Spread * Beat Frequency Oscillator



Amateurs, "hams" and short wave enthusiasts will welcome the addition of this new receiver to the RCA line. A superheterodyne circuit is employed with one stage of tuned R.F., which assures low image frequency response and high signal to noise ratio. There is sufficient sensitivity to go well below the noise level in almost any location.
Seven high gain tubes are used as follows: 1-6D6 as R.F. Amplifier; 1-6A7 as Oscillator and Mixer; 1-6D6 as I.F. Amplifier; 1-6B7 as combined Second Detector, AVC and Audio Amplifier; 1-6D6 Beat Frequency Oscillator; 1-41 Output Tube and 1-80 rectifier.
Tuning range covers the spectrum from 540 to $18,000 \mathrm{Kc}$. ( $550-16.5$ meters), taking in the entire short wave band and the American broadcast band. Desired band is selected by means of a switch on the front panel. Each band has separate coils.
Circuit features include: an efficient AVC circuit with provisions for cutting out its action; a beat note oscillator; a full range tone control; a phone jack (when phones are plugged in speaker is muted); a standby switch which removes plate voltages from tubes during periods of transmission; a two-speed Vernier dial with 10 to 1 and 50 to 1 ratios; a built-in electro-dynamic speaker
Eight control knobs for all operations on front panel of the metal cabinet. Size $22 \times 101 / 2 \times 111 / 2^{\prime \prime}$. Shpg. wt. 17 lbs.
XN13814-Model ACR-136 Receiver, complete
with tubes, power supply, speaker, etc. NOTHING ELSE TO BUY. Your Co


This unit, the model RK-24 is a small broadcast band oscillator. Al small broadcast band oscillator. Although designed primarily for use
with the RCA Midget Record Playwith the RCA Midget Record Play-
er model R-93, it may be used with er model R-93, it may be used with
any standard receiver. Its uses are any standard receiver. Its uses are
readily apparent; it helps make additional profits for the serviceman through the sale of additional equipment and, at the same time solves one of the most difficult problems in phonograph moderniza tion work. Only a few moments are required to install the unit. Al necessary leads are hrought out from the oscillator-no chassis wir ing changes are necessary. One tube is used; a 2 A 7 with sets using 2.5 volt tubes; a 6 A7 with sets using 6.3 volt tubes. All parts mounted on a cadmium plated metal chassis. Has long leads for direct connections. Full instructions fur nished with each oscillator. Shpg. wt. 6 lbs.
XK10599-RK-24 Phonograph Oscillator, less tube
Your Cost


## AUDIO TRANSFORMERS

 Input Transformers

Models P-3, P-10, P-11, P-13 Genuine Part No. P-188. Shpg w. 2 lbs

BR180-- Your Cost Each. . $\$ 1.35$
Models S-14, S-21 and S-31. Bremer Tully S-81 and S-82 Genuine Part No. X-656. Shpg wt. 31 bs
BR183-Your Cost Each.... \$2.25
For Brunswick Panatrope 31 Genuine Part No. X-682. Shpg BR187-Your Cost Each.. . $\$ 1.75$

## OUTPUT TRANSFORMERS

Models S-14, S-21 and S-31;
Bremer Tully S-81 and S-82 Genuine Part No. X-658. Shpg wt. 3 lbs
BR202-Your Cost Each.. . $\$ 1.75$

## Models 15, 22, 32 and 42

Genuine Part No. 3054. Shipg. wt. 3 lbs.
ER203-Your Cost Eačh.. . \$1.95
Models 11, 12, 16 and 33 Genuine Part No. 6083. Coil only. Shpg. wt. 1 lb .
BR185-Your Cost Each. . . $\$ 0.75$

## POWER TRANSFORMERS



Models S-14, S-21 and S-31;
Bremer Tully S-81, S-82 Original Part No. X-755 for the above sets. Shpg. wt. 12 lbs . BR113-Your Cost Each.. . $\$ 3.75$

Models 15, 22, 32 and 42 Genuine Replacement Part No 3015. Shpg. wt. 10 lbs .

BR119-Your Cost Each.. . $\$ 2.75$ Similar to the above, but for 25 cycle. Part No. 3030. Shpg. wt. 16 lbs.
BR120-Your Cost Each. . . \$4.25
Models 11, 12, 16 and 33 Original replacement Part No. 6070. Shpg. wt. 6 lbs BR122-Your Cost Each.. . 53.45

Models 17, 24 and 25 Genuine Part No. 6068. Shpg. wt.
8R121-Your Cost Each. . 53.65

[^0]CONDENSER BLOCKS


Models S-14, S-21, S-31; Bremer Tully S-81, S-82 Genuine Part ${ }_{\alpha}^{-}$No. X-756. Shpg. wt. 3 lbs.
BR262-Your Cost Each. . \$1.25
Models 15, 22, 32 and 42
Genuine Part No. 3029. Shpg. wt. 4 lbs.
BR265-Your Cost Each.. . $\$ 2.25$
Models 11, 12, 16 and 33
Genuine Part No. 6023. Shpg. wt. 2 lbs.
BR274-Your Cost Each.. . $\$ 1.95$
Models 17, 24 and 25
Genuine Part No. 6022. Shpg. wt. 2 lbs
BR276-Your Cost Each. . . $\$ 1.95$

## ELECTROLYTIC

Models 11, 12, 16 and 33
Original replacement Part No. 928. 7 Mid.
BR290-Your Cost Each. . . $\$ 0.95$ Models 17, 24 and 25
Original replacement Part No. 929. 6 Mid .
BR292-Your Cost Each

## VOLUME CONTROLS

For Models 15, 22, 32 and 42 Original replacement Part No 3028. Plunger type.

BR401-Your Cost Each. . $\$ \mathbf{\$ 1 . 9 5}$
For Models 14, 21 and 31:
Eremer Tully Models 81, 82 Original replacement Part No. X626. With switch.
BR295-Your Cost Each.. . $\mathbf{S 0 . 9 5}$
For Models 11, 12, 16 and 33 Genuine Part No. 6647
BR308-Your Cost Each.. . \$0.75
For Models P-3, P-10, P-11, PR-28C, PR-38C and PR-48C Genuine Part No. P-190. BR415-Your Cost Each.. . $\$ 0.55$

## Dial Scale For

S-14, S-21 and S-31;
Bremer Tully S-81, S-82
The original replacement dial scale Part No. X-613 for the above model sets. Easy to install.

## BR411

Your Cost ] Each.
Complete dial drum and scale assembly for ${ }^{\text {above gets. Genuine }}$ Shpg. wt. 2 lbs.
BR2013-
$85^{c}$

## 



An entirely new line of fine quality volume controls at prices that are truly phenomenal. Extra hard carbon composition elements used in conjunction with a new multi-point wiping contact arm assure long and satisfactory service. Each and every unit, as the name "TruTaper" implies, is correctly tapered for the circuit for which it was designed. Shafts extend $18 / 4^{\prime \prime}$ from control. Provided with $3 / 3^{\prime \prime}$ bushings. Frames are of bakelite with metal dust covers. One of the eleven types shown in the listing will take care of any volume or tone control requirement.
$\qquad$

| Stock | No. | Circuit |  |
| :---: | :---: | :---: | :--- |
| With | Without | Resist. |  |
| Switch | Switch | in Ohms |  |
| XH9070 | XH9081 | 1000 | Antenna Shunt |
| XH9071 | XH9082 | 2000 | Antenna Shunt, "C" Bias |
| XH9072 | XH9083 | 5000 | Antenna Shunt |
| XH9073 | XH9084 | 10000 | Antenna Shunt, "C" Bias and Ant. |
| XH9074 | XH9085 | 25000 | Antenna Shunt, "C" Bias and Ant. |
| XH9075 | XH9086 | 50000 | Screen Voltage or Tone Control |
| XH9076 | XH9087 | 75000 | "C" Bias Control |
| XH9077 | XH9088 | 100000 | Screen Voltage or Tone Control |
| XH9078 | XH9089 | 250000 | Audio Shunt or Tone Control |
| XH9079 | XH9090 | 500000 | Audio Shunt or Tone Control |
| XH9080 | XH9091 | 1 Megohm | Audio Shunt or Tone Control |

## Tiuteat Exact Duplicate Controls

## For VICTOR Models



R-32
RE-45
R-52
Fits chassis exactly. A noiseless control. Dual unit 3800 3800 ohms.

## XH9094

Your Cost Each. $88^{\circ}$

For RCA-Victor models 42, 48, R-14, R-15, R-17. Dual volume control: front section, 10,000 ohms; rear, $\mathbf{2 5 , 0 0 0}$ ohms.
XH9093-
Your Cost Each
SI.IS
PHILCO 20, 20 A and 220
Exact duplicate. Similar in appearance to above. 285-5000 ohms. Bakelite case. XH9092
Your Cost Each..

For ZENITH Models sistance of sections 11,500 ohms and 110,000 ohms. XH9095
Your Coist Each

## For ZENITH 50 Series

Single control with switch. Used in models $52,53,522,532,54,55$, 57,62, 60,61,64 and 67. Fits the chassis exactly; no changes necessary to install. XH9096-
Your Cost Each.
$\therefore)^{c}$


## Wire Wound Volume Controls

 and Switch CoverplatesThe plain dust-guard coverplate can be pried off, and a switch coverplate put in its place to convert to a switch type unit.

## Current

Stock Resist. Carrying Your
No. Ohms Cap. Ma. Tapered For, or Suggested Uses Cost XF7094 $500 \quad 80$ Standard potentiometer XF7092 $\quad 1000 \quad 55$ Standard potentiometer XF7084 500025 Standard potentiometer XF7083 $5000 \quad 17$ For combined ant. and "C" bi 140 $\begin{array}{llll} \\ \text { XF7082 } & 5000 & 17 & \text { For combined ant. and " } C \text { " bias }\end{array}$ $\begin{array}{lrrrr}\text { XF7078 } & 10000 \quad 17 & 17 & \text { Standard potention }\end{array}$ XF7075 $10000 \quad 12$ Sor 1500011 For combined ant. and "C" bias combined ant. and "C" bias XF7065 $50000 \quad 9$ Standard potentiometer Switch Type Coverplate. . . . . . . . . . . . . . . \$0. 24

Tone Controls for
RCA-VICTOR
For Models R-32. R-52, RE-45, RE-75 Genuine RCA-Victor Part No. 10408. Has resistance of 1 meg. slotted shaft for screw-driver control. X G8343-Your Cost. . .


For Models R-7, R-9, R-10 D.C. R-7 D.C. and R-9 D.C.

Genuine RCA
Part No. 2996 for Part No. 2996 for receivers. Resisstance 500,000 ohms. Bradley control. Can be used in any receiver. Shpg. wt
XG8344-Your Cost.
Special 10,000 Ohm
Control


Made by Frost. Tapered for ant. Dust-proof bias housing $5 \mathrm{~F}^{\prime \prime}$ shaft housing. $5 / 8$ shaft. Get a few at this low price. Qu
XG8345-
Your Cost, Special..... IS

Candohmsfor AC-DC Sets


Mfr. and Resistance Stock Your Part No. Ohms No. Cost BELMONT RADIO
R-258 350 ....... E5317 \$0.20 R-266 6000-6000 . E5319 . 48 CROSLEY RADIO 20176B 10-10-10-10860 ...... E5320 .50 $20452 B 320-225-2000-$
$1750 \ldots$. E5301 $^{\text {1 }} 70$ 20909 10000......E5315 . 50 22574 3000-2150-1220_
$45 \ldots \ldots . .5303$ $22574 \mathrm{~A} \quad 1790-2150-1220-\quad . \quad$. 28755A 246-28.....E5321 . 95 EMERSON RADIO HR-36 310 ........E5326 $\quad 80$ GRIGSBY-GRUNOW
7818 2000-140-500 E5323 . 40 8292 2000-350-500 E5324 . 59 $92397000-400-3000=$ 10252 10000 . . . . . . . . E5325 . 30 INTERNATIONAL RADIO R-302 1500....... E5327 . 20 R-303 310.............E5311 . 80


#  

## GENUINE RCA

Volume Control for RCA-Victor Models

R-50 and R-55
G. E. Models $\mathrm{H}-32, \mathrm{H}-72$;
 100. The genuine replacement volume control, ${ }^{\text {part }}$ No. 7260.
$\times 6786-$
Your Cost....


Tone Control for Victor Model RE-73


The genuine Victor replacement part No.
10813. Tone control with mounting nuts. Shpg. wt. 8 oz .
XF6787-



## $1 a b$

 Improved RadiohmsCentralab Radiohms carry ample current for any ordinary volume control circuit if the proper taper is selected, regardless of whether the original control was wirewound or carbon. Radiohms employ the patented nonrubbing contact that always turns smooth without wear. No other control gives you resistance
tapers so carefully adjusted for proper attenuation. Case diameter of all units $13 / 8^{\prime \prime}$; extend ${ }^{9} \int_{6}{ }^{\prime \prime}$ behind panel. Shaft $21 / 4^{\prime \prime}$ long, milled flat. Power switch, made by C-H, is approved by the Underwriters Laboratories.

| Stock No. | CRL No. | Circuit |
| :---: | :---: | :---: |
| XH8876 | 72-118 | Voltage Divider |
| XH8865 | 72-107 | Voltage Divider |
| XH8859 | 72-101 | Voltage Divider |
| XH8866 | 72-108 | Voltage Divider |
| XH8867 | 72-109 | Voltage Divider |
| XH8868 | 72-110 | Voltage Divider |
| XH8842 | 70-204 | Antenna Shunt |
| XH8872 | 72-114 | Antenna, C-Bias |
| $\times \mathrm{H8871}$ | 72-113 | Antenna, C-Bias, 1 -tube |
| XH8843 | 70-205 | Antenna, C-Bias, 2 -tube |
| XH8858 | 72-100 | Antenna Shunt |
| XH8873 | 72-115 | Antenna, C-Bias |
| XH8931 | 79-006 | Antenna, C-Bias |
| XH8877 | 72-119 | Antenna, C-Bias |
| XH8869 | 72-111 | Voltage Divider |
| XH9031 | 72-133 | C-Bias |
| XH9032 | 72-206 | C-Bias |
| XH8860 | 72-102 | Antenna Shunt |
| XH8861 | 72-103 | Voltage Divider |
| XH8875 | 72-117 | Tone Control |
| XH9033 | 72-123 | Tone Control |
| XH8840 | 70-202 | C-Bias |
| XH8862 | 72-104 | Voltage Divider |
| XH8870 | 72-122 | Audio Grid or Tone |
| XH8878 | 72-120 | Audio Grid or Tone |
| XH8694 | 72-131 | C-Bias |
| XH8879 | 72-121 | Audio Grid or Tone |
| XH8864 | 72-106 | Voitage Divider |
| XH8841 | 70-203 | Series in R.F. Plate |
| XH8874 | 72-116 | Audio Grid or Tone |
| XH8696 | 72-132 | Audio Grid or Tone |
| Any Type |  | Switch. |
| Your Cost |  | Cover Plate. |

## Special Offer CRL 500,000 Ohm Radiohm Control



These new type Centralab Radiohms are being offered at a price far below the market. Units are tapered for audio grid or tone controls. Stock several of these units while they are still available at these prices. Only a limited quantity.
XH8985--Less Switch
$29^{\circ}$ Your Cost Each
$39^{c}$
Your Cost Each

Resist. Ohms
500
1,000
1,000
2,000
3,000
4,000
5,000
5,000
10,000
10,000
10,000
10,000
10,000
10,000
15,000
15,000
15,000
20,000
25,000
25,000
25,000
25,000
50,000
50,000
75,000
75,000
100,000
100,000
200,000
200, 000
250,000
500,000
500,000
1,000,000 3,000,000
240


These new Electrad units are superior in principle, design and performance to the old style controls. The newly perfected graphite resistance element is baked at high temperature to the flat outer surface of a molded Bakelite ring. This provides a solid base and rigid anchorage for the resistance element which cannot flex or warp out of line with the contact arm. The element is highly resistant to humidity, and is thus ideal for use in damp climates. The contact shoe is a highly polished alloy. held by a long bronze tension spring. All controls are housed in Moulded Rakelite Cases, with Metal End Covers and Aluminum Shafts. They are more compact than the old style units, extending only $1 / 2^{\prime \prime}$ inside the panel mounting.

The new type power switch, Approved by the Underwriters may be readily added or detached. By merely removing the screw holding the end cover, the cover is removed and the switch
same position and held in place by the same screw.
Stock Mirs. Taper Readings in Ohms,
XG7905 $204 \mathrm{w}^{*}$ Open-10 8
XG8072 269w
$\begin{array}{ll}\text { XG8128 } & 270 \mathrm{w} \\ \mathbf{X G 8 1 2 9} & 271 \mathrm{w}\end{array}$
XG8129 271w
XG8068 272w
$\mathbf{X G 8 0 6 8}$
XG7915
$\mathbf{X G 7 9 1 6}$
XG7916
XG7923
$\times G 7917$
XG7917 282w
XG7918 275w
XC7909 276w
XG7910 232w
$\times \quad 237 w$
XG7919 233w
XG7911 234 w
XG7920 $278 \quad 0 \quad 300$
*w-Indicates Wire Wound Control
$\begin{array}{cr}1 / 2 & 8 / 4 \\ 5 & 2.5\end{array}$
Uniform

## Uniform

Uniform Uniform Uniform Uniform Uniform Uniform Uniform Uniform Uniform Uniform Uniform 1,200

## Hever in / ruitest Carbon Resistors is at at these LOW PRICES is



2 WATT


1 WATT


Resistance 1/6-Watt
1-Watt
2-Watt $\begin{array}{lr}\text { Stock No, } & \text { Stock No. } \\ \text { XE4300 } & \text { XE4450 }\end{array}$ XE4450

## GENERAL REPLACEMENT RESISTORS

Trutest Carbon Resistors represent years of constant research in the development of a resistor that is absolutely moistureproof and that will remain accurate regardless of weather and atmospheric conditions.
While no sudden radical change was made in their construction, due to continuous improve ment, the newest Trutest Resistors are as unlike their predecessors as is the modern streamlined car unlike the one of twenty years ago. Inspect a Trutest Resistor carefully-note its clean-cut construction and its accurate rating and you will know why Trutest Resistors are best!
TRUTEST RESISTORS are R.M.A. Color Coded for easy identification and are made of 1/2-Watt, 1-Watt
Your
Cost
Each
Each Per Dozen 72c
Resistance $1 / 2$-Watt

| Resistance | 3/2-Watt | 1-Watt | 2-Watt |
| :---: | :---: | :---: | :---: |
| Ohms | Stock No. | Stock No. | Stock No. |
| 7500 | XE4267 | XE4317 | XE4467 |
| 8000 | XE4268 | XE4318 | XE4468 |
| 9000 | XE4246 | XE4349 |  |
| 10000 | XE4269 | XE4319 | XE4469 |
| 12000 | XE4270 | XE4320 | XE4470 |
| 15000 | XE4271 | XE4321 | XE4471 |
| 17000 | XE4272 | XE4322 | XE4472 |
| 20000 | XE4273 | XE4323 | XE4473 |
| 25000 | XE4274 | XE4324 | XE4474 |
| 30000 | XE4275 | XE4325 | X $\mathbf{4} 475$ |
| 40000 | XE4276 | XE4326 | XE4476 |
| 60000 | XE4277 | XE4327 | XE4477 |
| 60000 | XE4278 | XE4328 | X E4478 |
| 70000 | XE4279 | XE4329 | XE4479 |
| 75000 | XE4280 | XE4330 | XE4480 |
| 100000 | XE4281 | XE4331 | XE4481 |
| 125000 | XE4282 | XE4332 | XE4482 |
| 150000 | XE4283 | XE4333 | XE4483 |

the finest material and workmanship. Guar anteed accuracy, $\mathbf{1 0 \%}$ plus or minus. The average are within $5 \%$. Resistance values read approximately the same at any normal voltage -most important for resistance service work No moisture can possibly penetrate, so age cannot change the resistance value. Great mechanical strength eliminates any chance of accidental breakage
PRECISION MANUFACTURING-Care fully calibrated resistance material is moulded in a solid form and fired at a high temperature so that no ordinary service or overload temperature can damage the resistor. Tinned wire leads are forced onto the caps under great pressure to insure a perfect, noiseless connection.
2-Watt
Your
Cost
Each
Per Dozen $\$ 1.22$

| Resistance Ohms | 1/2-Watt Stock No. | 1-Watt Stock No. | 2. Watt Stock No. |
| :---: | :---: | :---: | :---: |
| 200000 | XE4284 | XE4334 | XE4484 |
| 250000 | XE4285 | XE4335 | XE4485 |
| 300000 | XE4286 | XE4336 | XE4486 |
| 400000 | XE4247 | XE4350 |  |
| 500000 | XE4287 | XE4337 | XE4487 |
| Megohms |  |  |  |
| 1 | XE4288 | XE4338 |  |
| 1.5 | XE4248 | XE4351 |  |
| 2 | XE4289 | XE4339 |  |
| 2.5 | XE4249 | XE4352 |  |
| 3 | XE4290 | XE4340 |  |
| 4 | XE4291 | XE4341 |  |
| 5 | XE4292 | XE4342 |  |
| 6 | XE4293 | XE4343 |  |
| 7 | XE4294 | XE4344 |  |
| 8 | XE4295 | XE4345 |  |
| 9 | XE4296 | XE4346 |  |
| 10 | XE4297 | XE4347 |  |

## Bughin <br> volud mens

Manufacturer's Type
Although originally designed for use in standard receivers made by famous manufacturers, these units may be used for general replacement parts. All conservatively rated. Priced or immediate clearance Quantities limited.

Stock Tota

| No. | Resis. | Wat | Ta |
| :---: | :---: | :---: | :---: |
| X $\times 20444$ | 8195 | 75 | 1690-205-2140-3750-4 |
| $\times \times 20445$ | 3940 | 75 | 1600-1900-440 |
| $\times 20446$ | 1290 | 40 | 400-350-350-190 |
| $\times 20513$ | 465 | 50 | 375-90 |
| $\times 20540$ | 7120 | 75 | 840-60-220-3000-3000 |
| $\times \times 20560$ | 25300 | 75 | 12300-8000-5000 |
| $\times \times 20561$ | 6000 | 75 | 17.800 |

Stock $\mathbf{~} \times 205626000$ Resis. Wat $\begin{array}{lll} \\ \times \times 20564 & 6000 \quad 75\end{array}$ $2580 \quad 75$
$\times 20564 \quad 2080 \quad 85$
$\times \times 20565 \quad 27$
$\begin{array}{rrr}\times 20565 & 2080 & 85 \\ \times \times 20566 & 7780 & 75\end{array}$
778075
$\times \times 20566$
$\times 20567$
$\times 2940$
$\begin{array}{lll}\times \times 20705 & 4920 & 50\end{array}$

## Fan



*     *         * To Buy! * *

Line Cord Resistors
For A.C.-D.C. Sets


XE5329-For 4 tube sets using a 12 volt rectifier. 280 ohms. XE5336-For 4 tube sets using a 25 volt rectifier, 200 ohms XE5331-For 5 tube sets. 160 XE5332-For 6 tube sets. 150 Your Cost Each Any Type

4200-380-1420 500-0-1460-540-0-80 1460-540-0-80 1280-4000-300-2200 1500-1000-130-60

4920

[^1]THIS remarkable little five tube set is being offered at a real bargain price. Consider these facts. A five lube set that works equally well on either AC or DC, has built-in aerial, has a matched electro-dynamic speaker, uses the latest type tubes and is housed in a beautiful midget cabinel. But-prices cannot remain so low-quantities are limited. Take advantage of this opportunity while you can.

## USES MODERN CIRCUIT

This compact little receiver employs an advanced TRF circuit using five of the latest type tubes. These are: 1-6D6, 1-6C6, 1-43 and 2-12Z3's. It covers the entire American broadcost range from 200 to 550 meters. Fine selectivity allows separation of stations from one end of the dial to the other.

## MATCHED ELECTRO-DYNAMIC SPEAKER

Rarely, in midget sets of this type, does one find tone quality of the calibre afforded by this receiver. The specially matched dynamic speaker provides a surprising clarity of tone.

## ARTISTIC CABINET

The Trulest Five is housed in a midget cabinet that cannot fail to satisfy the demand for simple beauty. Light toned veneer front with matched speaker grille and knobs com. bine to present a pleasing picture. Its small size allows its use as a portable instrument to be carried on one's

110 volts $A C$ or DC. Dimensions: $101 / 4^{\prime \prime}$ long $\mathrm{m}_{\mathrm{m}} 72^{\prime \prime}$ high, $6^{\prime \prime}$ wide. Shpg. $w t$. 14 lbs. Code Anton. List Price $\$ 18.90$. Your Cost.
$\$ 9.45$
Model for 220 V . available of $\$ 1.00$ additional.
Genuine suede carrying case fastened with zipper $\$ 1.50$.
travels.


## MORE THAN AMPLE VOLỦME

This receiver provides enough volume to fill the overage room with music. The actual power output is well over one watt, and regordless of where the volume control is set, the reception is always clear ond lifelike.

## COMPACT AND HANDSOME

Measuring only $11 / / 2$ inches long, $71 / 2$ inches high and 6 inches deep, the TOURIST may be carried quite easily in an ordinary suitcase, and will provide no end of entertainment in a hotel room. In most places no outside aerial will even be necessary, and the AC-DC feature removes all worry obout the kind of current on tap. Wavelength range covered, 200 to 550 meters ( 1500 to 550 kilocycles).

Model C.58-Lafayette Tourist receiver complete with tubes. For use on 110 volits.AC $10-60$ cycles or DC. Shpg. wt. 14 lbs . Code Bungo. List Price $\$ 28.90$. $\$$ I4.45 Your Cost.
Model for 220 wolts available at $\$ 1.00$ addi. tional.
Genuine suede carrying case fastened with
zipper 50 meters-and between 75 and 550 meters $\mid$ Will get Eurapean Shart Wave Broadcasts-American Short Wave Broadcasts-Ama-teurs-Police Calls-Airplanes-Ship to Shore-and the myriads of other interesting short wave programs that are constantly on the air-in addition to the regular American Broadcasts.
It offers the economy of a five tube receiver with results that are equal to and even better than many seven and eight tube sefs I It has all of the feafures you have come to expect in a highly efficient superheferodyne receiver such as-pre-selection-automatic volume control-tone control-three band illuminated aeroplane type dial-full dynamic speaker-etc.

## USES LATEST TYPE TUBES

The latest most improved type fubes are used throughout including the new type 6A7 converter tube that serves as both oscillator and modulatar thus laking the place of two fubes and in addition providing a higher conversion gain than two separate tubes would have. A type 78 varia-mu pentode tube is used in a high gain stage of radio frequency amplification, a type 75 duo-diode-triode lube is used as second detectar-automatic volume control-and first audio amplifier stage fallowed by a type 42 power output tube. An 80 rectifier tube is used far rectifying the high voltage $B$ supply. Both sensitivity and selectivity have been developed to a remarkable degree far surpassing many of the five tube receivers offered today.

## THREE SEPARATE BANDS

Three separate luning bands are provided with individual scale's on the airplane type dial. The regular braadcast band covers the standard American broadcast frequencies between 200 and 550 meters ( 1500 to 550 KC ) the two short wave bands are covered as follaws: One between 18 and 50 meters ( 16,600 to $6,000 \mathrm{KC}$ ) and the ather from 75 ta 200 meters ( 4,000 to 1500 KC ).

*THREE BAND TUNING-18-50 METERS 75-200 METERS 200-550 METERS

## $\star$ AIRPLANE TYPE DIAL $\star$ TUNED PRE-SELECTOR $\star$ TONE CONTROL <br> $\star$ AUTOMATIC VOLUME CONTROL

A HIGHLY efficient automatic volume control that is effective an all bands both short wave and regular broadcast is included. This tends to keep the volume at a canstant predelermined point and prevents blasting and overloading of the audio frequency amplifier tubes. It also greally minimizes the tendency af stations to fade in and out. Another valuable feature is a tuned pre-selector stage that prevents repeaf points or image frequency reception and assures the tuning of the receiver ta the correct frequency and not to its image.

## FULL DYNAMIC SPEAKER

A specially matched dynamic speaker six and a half inches in diameter reproduces both music and voice with the greatest fidelity. Its full resonant tone is a pleasure to listen to and the inclusion of a lone control permits the modification of the tone to suit individual preferences. Irrespective of the volume settingat the low, just barely audible, or at the maximum output of the receiver-the tone remains clear and lifelike.

## BEAUTIFUL MODERNISTIC CABINET

The receiver is housed in a beautifully designed modernistic cabinet built of fine matched grain veneers polished to a hondsome finish. Dimensions: $12^{\prime \prime}$ wide, $15^{\prime \prime}$ high, $61 / 2^{\prime \prime}$ deep.
Model AM-26-Lafayette Dual Wave Receiver complete with tubes. Shpg. wt. 18 lbs. Code Herot. List $\$ 39.90$.
$110-125$ volts, $50-60$ cycles $A C$
Available for 220 volts, $\$ 1.50$ additional.
${ }^{s} 19.95$

$\square$ ESIGNED to cover the most popular broadcast bands, this new Lafoyette six tube superheterodyne tunes from 19 to 50 meters and from 200 to 550 meters. Thus, the most popular European broadcast stations and the entire American broadcast range are placed at your command. Efficiently engineered using the most modern fube complement and component parts, this superlative receiver will provide enjoyable entertainment for a great length of time. And most important, it is priced within the reach of the average pursel

MODERN TUBE COMPLEMENT
Six af the latest type fubes are utilized. A type 6D6 is used as I.F. Amplifier, a type 6C6 as First Detector and Modulator, a type 76 as Oscillator, a type 75 as combined Diode Detector, AVC and First Audio tube, a type 42 as Output fube and a type 80 Rectifier. The power output ( 2.7 wolts) is more than ample for all practical purposes. Sensitivity on the broadcast band is rated at 3 microvalts per meter, and on the short wave band at 2 microvalts absolute. This means that weak ond distant stations can be "brought in "with ample volume. Selectivity is rated at 72 Kc . at 10,000 fimes, which means that stations over the entire dial, even in the most congested areas, can be easily separated.

COVERS SHORT WAVES AND
AMERICAN BROADCAST RANGE
The funing range of the Lafayette 6 Tube receiver covers a band of frequencies from 19 to 50 meters ( 16 to 6 Megacycles) and from 200 to 550 meters ( 1500 to $545 \mathrm{Kc}$. ). The 19 to 50 meter band abounds in the most popular and the most powerful European broadcast stations. In addition, countless amateurs or "hams" on both CW and phone can be picked up in this range. The 200 to 550 meter band covers the standard American broadcast stations. The desired band is selected by means of a wave band switch controlled by a knob on the front panel.

ATTRACTIVE AIRPLANE DIAL
Accurate funing is made simple by the use of a unique airplane type dial. Both bands are individually calibrated; the broadcast band from 550 to 1500 Kc ., and the short wave band in both Megacycles ( 6 to 16) and meters (19 to 50). A reduction ratia afforded by the tuning drive eliminates the passibility of skipping over stations. Dial face has the flags of five nations printed on its face, presenting a neat and effective appearance. Dial covered by a protective convex glass.

OPERATING FEATURES
Only three knabs on the front panel govern all operations. These are: combined volume control and switch; band change switch; main łuning control. A matched electra-dynamic speaker reproduces programs with life like fidelity. A three gang, cushion mounted condenser is used for tuning. A powerful AVC action prevents blasting when tuning from a weak to a strong station and minimizes the possibility of fading.

HE chassis and speaker are housed in an attractive cabinet designed in the modernistic manner and composed of selected hardwoods, rubbed to a high polish.
Madel C-40-Lafoyette 6 tube Superheterodyne in Mantel Cabinet and complete with tubes. For $110-125$ volts, 60 cycles AC. Dimensions: $12^{\prime \prime}$ long $\times 141 / 2^{\prime \prime}$ high $\times 8^{\prime \prime}$ deep. Shpg. wt. 22 Ibs. Code Ascae. List Price $\$ \mathbf{4 3 . 9 0}$. Yaur Cast..

Model C-42-Lafayette 6 Tube Superheterodyne in Console Cobinet and complete with tubes. For $110-125$ volts, 60 cycles AC. Dimensions: $21 \frac{1}{2 \prime \prime} \times 101 / 4^{\prime \prime} \times 35^{\prime \prime}$. Shpg. wt. 48 lbs . Code Albot. List Price $\$ 59.00$.
Your Cost. .


THE Lafayette six tube superhet is available in chassis form, or in the beautiful console cabinet illustrated above. The console itself is of such beautiful design, that it cannot fail to grace the most handsomely furnished room. Matched, deep tone hardwoods are blended in a period design that is at once simple and elegart. The cabinet front is provided with two French doors which open upon a neat panel on whith are mounted the control knobs and illuminated dial. Pains have been taken to provide perfect acoustic properties, so that full advantage of the tone quality may be realized. In short, you are offered a fine receiver in a console that does it full justice-but you must remember-quantities are Ilmited, "first come first served."

Model C-22-Lafayetle 6 Tube AC Super chassis, speaker and tubes. Less cabinet. For 110 volts 60 cycles AC. Size $13^{\prime \prime} \times 7 y^{\prime \prime} \times 8^{\prime \prime}$. Shpg. $w t$. 20 lbs. Code Nulus. Your Cast Special.
Model C-23-Lafayette 6 Tube Super chassis, speaker and tubes complete in console cabinet. For 110 volts 60 cycles AC. Size $28^{\prime \prime} \times 141 / 2^{\prime \prime}$ $\times 391 / 2^{\prime \prime}$. Shpg. wt. 100 lbs . Code Nabum. Your Casi Special. .

MODERN TUBE COMPLEMENT
$S^{1 X}$ of the latest type high gain tubes are used in the powerful superheterodyne circuit as follows: 1-type 78 as a stage of R.F.; 1-type 6A7 as Oscillator and Modulator; 1-lype 6B7 as combined Diode Detector and I.F. Amplifier; 1-type 77 as Audio Amplifier; 1-type 42 as Power Output tube: 1-type 80 Rectifier. Power output is a full 2.5 watts, more thian enough for any home. Frequency range covers from 200 to 550 meters ( $1500-500 \mathrm{Kc}$.) which is the standard American broadcast band. Sel operates on $110-120$ volts, 60 cycles $A C$.

CIRCUIT FEATURES
Selectivity is rated at 32 Kc . at 10,000 times normal input, which means that stations may be easily separated even in the most congested areas. Sensitivity is rated at 2 microvalts per meter. assuring the ability to pick up weak and distant stations. A powerful $61 / 2^{\prime \prime}$ Magnavox electro-dynamic speaker is employed to reproduce the output of the receiver.


## Thbedicouble! LONGESHORT WAVE



HAVE you ever experienced the thrill of hearing foreign stations? Have you ever "listened-in" on amateurs from all parts of the globe? Have you ever heard American broadcast stations with such fidelity that you thought you were in the studio? You can truly answer yes to these questions when you own this sterling 10 tube superheterodyne. Countless distant stations are figuratively "around the corner" when you turn its dial. And as for power, sensitivity, selectivity, AND PRICE we throw our hats into the ring and say "beat this if you can."

## CIRCUIT DESCRIPTION

The ten tubes employed in the superheterodyne circuit are used as follows: 2-type 58 's are used as first and secon'd I.F. Amplifiers; 1-type 2A7 as Detector and Oscillator; 1-lype 287 as Diode Detectar and A.V.C. tube; 1-type 56 as Phase. Inverter; 4-type 45's in a push-pull parallel Output circuit; l-type 80 Rectifier. Receiver operates on 110 volts, 60 cycles AC.

## AUDIO POWER OUTPUT OF 10 WATTS

The undistorted power output afforded by the push-pull parallel output circuit using four 45 's is a full ten watts. Thus, volume will not only be great enough for any sized home, but will also enable use of the receiver at large parties, club meetings or dances without additional amplification.

## TUNING RANGE

The set covers a band of frequencies from 18 to 550 meters in three steps as follows: from 18 to 50 meters ( 16,500 to 6000 Kc .) ; from 75 to 200 meters ( 4000 to 1500 Kc .) ; from 200 to 550 meters ( 1500 to 545 Kc.). The two short wave bands bring in the most important of the European stations as well as numberless amateurs or "hams" in code and on phone. The desired band is selected by means of a three position band switch controlled from the front panel.

## CIRCUIT FEATURES

Some of the more outstanding features include: Sensitivity of better than 2 microvalts per meter, assuring reception of weak foreign and American stations. Selectivity 64 Kc . at 10,000 times, allowing complete separation of stations over the entire dial.

A MATCHED $91 / 2$ inch electro-dynamic speaker is used to reproduce programs. It handles the full plane diall with each band individually calibrated and with a high reduction trive. A large Airuning the shatio simplifies grade of tone from deep bass to brilliant highs. A 3 -gang, full floating condenser is used for desired A built-in phone jack is provided for possible later addition of phonograph equipment.

## IN CONSOLE CABIMET

For those desiring fine furniture, the Lafayette 10 tube has been made available in the striking consale illustrated above. Matched American hardwoods are blended in a finished design which cannot fail to please. You must see it to appreciate its beauty.
Model AM-44-Lafayette 10 Tube Three Band Super chassis, speaker and fubes. Less cabinet. For 110 volts 60 cycles AC. Size $13^{\prime \prime} \times 101 / 4^{\prime \prime} \times 7^{\prime \prime}$. Shog, wi. 45 lbs . Code Serus. List Price $\$ 67.00$.
$\$ 33.50$
Your Cost



DUBLG ADDRESS
Camplete SUSTEMSby Cafayette

THE Lafayette Radio Manufacturing Company manufactures a complete line of Public Address Equipment to fill every requirement. P.A. amplifiers ranging from the smallest ( 3.5 watts) unit to handle small indoor gatherings, to the giant ( 60 watt) unit designed to cover large outdoor aúdiences are included in the lineup, and all are available in the form of a complete system for any particular installation. These systems are complete to the very last detail; they include, besides the necessary amplifier, microphones, speakers, control devices, matching units, cable, etc., so that the potential consumer may know before the time of purchase exactly what the entire installation will cost. For those requiring equipment other than standard, specially designed amplifiers are available. These include several types of high fidelity amplifiers which are designed for use in installations requiring coverage of an extremely wide spectrum of frequencies ( 20 to 17000 CPS ) and special "Theatre" amplifiers designed for use with either sound-on-film or sound-on-dise.
A section of the Lafayette Engineering department is set aside expressly for the purpose of designing and producing portable Sound-on-Film equipment. A typical portable "theatre" is illustrated in the photo on the right. This equipment includes a special 35 mm . projector which incorporates every modern development in the field.
A full description, with illustrations, of every P.A. unit sold by this company will be found in WRS Co.'s 192 page catalog number 56, and in the Lafayette "Sound" Book. Don't fail to get them.

N THE production of equipment for P.A.
use, it is of paramount importance that

the component parts of each individual unit be of the finest quality. Too, it is essential that all units be carefully checked under full rated load, so that characteristics for every operating condition are known. In the Lafayette laboratories, all P.A. equipment is made to pass the most rigid tests. Expensive test instruments such as cathode ray oscillographs, audio oscillators, microvolters, efc., are employed for the sole purpose of maintaining high quality. Every reading that is of the slightest importance is published with the description of each.amplifier (gain in DB, output in watts, hum level, percentage of distortion, etc.) and these ratings are true in all cases.

EQUIPMENT MAY BE SEEN AND HEARD BEFORE PURCHASE
As a further aid to the purchoser, Lafayette maintains a fully equipped demonstration auditorium. Here one may actually see and hear every type of P.A. unit used in conjunction with various kinds of speakers, microphones, trumpets, pick-ups, etc. Nothing is left to the imagination. Thus, it is important for the serviceman, when selecting P.A. equipment, to ask himself:
All Lafayette Am. plifiors are avall. able with a perforated screen (as lllustrated) for purposes of protectlon, safety and appearance.


## An DO * Special JENSEN Ortho-Dynamic Reproducer



These famous electrodynamic speakers are being offered at a special bargain price. All are brand new and guaranteed. Have 12" cones. Field coil resistance 800 ohms; voice coil impedance 5.4 ohms. Come completely equipped with output transformer to match P.P. 45's, 50's or 71 A 's. Will handle peak input 18 watts. Response curve flat from 30 to 5500 cycles. Quantity limited. Finished in black and aluminum. Shpg. wt. 25 Fins. XW19253-
Your Cos
Special..

## ${ }^{s} 14.95$

## Special A. C. Dynamic



This high quality speaker is being offered at an extremely low price. Constructed with best grade of materials. Cone dia meter ${ }^{\prime \prime}$. Uses type 80 rectifier tube. Well filtered so as to be hum free. Comes provided with output transformer to match 50 's or 71A's. Has 6 foot cord and plug for A.C. 110 volt connection and 3 foot cord with tip plugs for input connections. Cadmium plated chassis and frame. Shpg. wt. 6 lb XW19392-S
Your Cost, Special.
${ }^{s} 4.75$

## Special 91/2" Dynamic

A fine quality speaker that will afford excellent tone quality and frequency response. Supplied with either 1000,1800 or 2500 ohm field. Transformer supplied for single or P.P. $45,46,47,43$ $2 \mathrm{~A} 5,2 \mathrm{~A} 3,59,79$ or 50 output tubes. Specify Type Transformer and Type Transtormer and ordering. Shpg. wt. 6 lbs XW19120
Your Cost, Special.


## Special 6" Dynamic

This midget dynamic is exceptionally well constructed and provides a fine frequency response. Tone quality is both full and natural, with both highs duced. Has standard 1800 ohm field coil. Employs ohm field coil. Employs
ridged pressed paper cone. ridged pressed paper cone.
Metal parts finished in Metal parts finished in
bright cadmium plate.
Shpg. wt. 4 lbs.
XW19131-Less Output Transf.

- 5

Your Cost, Special
XW19124 - With Transformer for Single 47 or 2A5. Your Cost,
Special
\$1.38


Speaker Grille Cloth Fine quality brown ornamental cloth for use behind speaker grills. $11 \times 12^{\prime \prime}$. Shpg. speaker grills. $11 \times 12$. Shpg.
wt. 8 ozs. XW19609 Your Cost.
$15^{\circ}$


For complete listing of dynamic and magnetic speakers refer to pages in Catalog No. 56.

Mir at these

## $\star$ BARGAIN!

## A.C.-D.C. Compact Model

Especially designed for use in Universal midgets. Will handle large output without distorting. Has standard 3000 ohm field and is furnished with transformer for single 38 or 43 tube. Size $5 \times 48 / 4 \times 21 / 2^{\prime \prime}$. Shpg. wt. 5 lbs.
XW19293_.
Your Cost.


## Special 6" Midget Model



For Midget and Auto receivers. 6 -volt or 2500 -ohm fields. Furnished with output transformers as in note below. Specify type desired when ordering. Ruggedly buitt for auto use. Finished in cadmium plate. Shpg. wt. 8 lbs. XW19166--2500 ohms. XW19122-6-volt field for
Auto Sets. Your Cost Either Type.
${ }^{\text {s } 1.85}$

## BBL Magnetic Speaker

Considered the finest magnetic speaker chassis on the market. Reproduces the entire tonal range with lifelike fidelity. Has an impedance of 7000 ohms at 1000 cycles. D.C. resistance 1000 ohms. Magnet of finest cobalt steel. Diameter 914". Handles large output 7 lbs.


XW19133-
Your Cost,

- Special.



Genuine RCA part used in Models R-86, RE-17, RE-57, RAE 68 and T 5 Eleotrola. Composed of three parts: Pick-up Head No. 7085 with an impedance of 20 ohms: Arm and Base No. 10892. For use with long playing records. Finished in dull silver. Shpg. wt. 7 lbs . XA140-
Your Cost
Each.
54.51

Pick-up head only for above. Shpg. wt. 2 lbs. XA390
Your Cost Each
2.40

## Special RCA-VICTOR

Two Speed

## Pick-up

$331 / 3$ and
78 R.P.M.
Impedance of head 28 ohms. Improved type; response flat from 50 to 5000
 cycles. Special viscoloid damping block. Complete with head, arm, stop rod, escutcheon and cable. Shpg. wt. 81 bs. XA388-Your Cost
$\$ 5.77$ Head onl
Your Cost Each
$\$ 2.49$

New AUDAK Model 100


Pick-4p
Thishigh
quality pickup is ideal for space and weight are important factors. Mounts just above the turntable shaft. It is a genuine Magneto-Induction type of pick-up; no crystal or condenser materials of any kind used in its construction. Not affected by climate. Frequency response covers the entire tone range. Shpg. wt. 1 lb . XA458-List $\$ 9.50$
Your Cost.

## Trutest Pick-up High Fidelity

 An improved model of the well-known type $15-\mathrm{B}$. High fidelity response; flat
from 100 to 7000 cycles. Low needle scratch. Unit is so designed that no counter balance is necessary when used on either $331 / 3$ or 78 R.P.M. recordings. Finished in beautiful dull gold. Volume control built-in. High impedance coil. Full, or loud tone needles recommended for best results. Needles easy to insert into the flat, inertia type head. Shpg wt. 4 libs.
XA147-
Your Cost Each.
545

## OW arices



Midget Motor No. 9038. Synchronous type. Operates on 110 volts 60 cycles A.C. Is $7^{\prime \prime}$ in diam, and $2^{\prime \prime}$ deep. Starts by hand. Shpg. wt 7 Jbs.
Midget Pick-up No. 6592. Impedance 2500 ohms. Only $63 / 4^{\prime \prime}$ overall length. Complete with head, arm and cable. Shpg. wt. 2 lbs. XA355-Midget Motor
Your Cost.
XA356-Midget Pick-up
Your cost.
440
43. (1)

## RCA

## Rectifiers

Genuine RCA Part No
5878 for use with the
106 A.C. speaker. De-
livers 95 volts at 55
mils. Quantity limited. Shpg. wt. 4 lbs. XW19206
Your Cost
Each.
Per Pair


#  

## Replacement Cones for Standard Speakers

Stock No.
$\times w 2901$
Atwater Kent $43,46,55$, $60,65,66,67,64 \ldots .1$
twater Kent, $80,82,84$, XW19502 Atwater Kent, $80,82,84$,
55B, $627,87,90,92$,
Early models $83,85 \ldots$ $\times W 19502$ Atwater Kent, $80,82,8$
$56 B, 627,87,90,92$
Early models $83,85$.
$8 / 4$ " $\$ 1.15$

Xw19611 Baldwin
XW19505 Bosch 48-58
XW19612 Bosch
XW19613 Brunswick 10
XW19614 Brunswick D
XW19615 Brunswick 11,12,16,18,
XW19616 Brunswick E
XW19574 Colonial 33-LL, 18
XW19578 Colonial 34-35
XW19579 Colonial 36
XW19617 Crosley M45
XW19513 Crosley 40S.
XW19618 Earl Inductor Dynamic
XW19519 Edison R4-5-7-8
XW19515 Eveready
XW19516 Eveready
XW19517 Freed-Eiseman NR-80
XW19559 General Electric 31, 51 ,
XW19584 Jensen D4, D5
XW19519 Jensen D7, D8.
XW19622 Jensen D1
XW19645 Jensen D9, LnnerSpider.
XW19623 Magnavox 142
XW19624 Magnavox 143
XW19625 Magnavox 144
XWi9361 Magnavox 154
XW19530 Majestic G1
XW19531 Majestic G2
XW19532 Majestic G3, G4
XW19646 Majestic G6, G7.
XW19533 Mrjestic G14
XW19535 Majestic G13
XW19626 Majestic G10B, G10D XW19587 Majestic G11B XW19590 Majestic G19

XW19547 Philco 20, 70,90 small. 02996 XW19400 Philco 40, 41, 65, 76 77, 95, 96, 111, 112 XW19401 Philco 47, $71 . . . . . . .$.
XW19552 Philco 50,51 small, 80 , X

XW19537 Oxford 3 point Spider 10" XW19402 Oxford
XW19628 Oxford $7,72,70,82,83$ 85, 86, 92, 93, 96, 97, 108, $109,11011,104$ $108,109,110,111,112$ 124,114,115,116,117, XW19543 Peerless Copper Coil...141/2 XW19542 Peerless Copper Coil... $12^{\prime \prime}$
 XW19540 Peerless Copper Coil... wire wound..
XW19545 Peerless Copper Coil Xw19546 Peerless Copper Coil XW19639 Rola
XW19640 Rola Fs
XW19648 Rola F6, F8.
XW19560 Rola Series F
XW19641 Rola K9
XW19596 Stewart-Warner 900 Series.
XW19597 Stewart-Warner 950 SeXW19565 Temple Auditorium XW19629 U.S. Apex Gloritone 26 XW19642 U.S. Apex Gloritone XW19570 Utah Stadium 66A
XW19571 Victor RE32, 45, 75, $5 . \mathbf{5 2}^{12} \mathbf{9}^{\prime \prime}$
XW19574 Zenith 52, 72, 50, LL18.121/4

## Speaker Cone Centering Shims

Flexibie celluloid shims that will last indefinitely. Sixteen shims in a handy eatherette folder. Contains four each of the following sizes: $.0125 \%$, $010^{\prime \prime}$ $.0075^{\prime \prime}$ and $.005^{\prime \prime}$. Takes care of all speskers.
XW19649-
Your Cost.

(29)

## Genuine <br> RCA-VICTOR <br> Replacement Speaker Cones

Wholesale Radio Service Company, authorized distributors of genuize RCAVictor factory replace-


Speaker. Used in models 34, 35, 39, 41 A.C., 41 D.C., 46, 47, 66, 62, 64, 67, 50, 55, 59, 80, 84, 86, RE20, RE59 and RAE79, RCA part No.

XW19404 For models R6, $7,9,10,11$ RE18, RE19, 21, 14, 15, 17, 42, 48, RCA part

XW19405-For Victor models 32, 45, 52, 75
Your Cost Each 1.20
(110, 111, 114, 115, 300, 301, RCA No. 8987.
(1) ${ }^{c}$

XW19408-For R17M, R27 (Magnetic) RCA
XW19409-For R18W, R27 (Dynamic) RCA
ment parts, is now able to offer the servicemen a complete line of original speaker cones. Consult popular numbers If you cannot find what you want, we can get it for you at a $40 \%$ discount.
XW19403 For RCA 106 8558.

## Your Cost Each

 No. 8601 .Your Cost Each RCA No. 10801. Your Cost
Each. XW19

## 7236.

Your Cost Each No. 7694.
Your Cost Each No. 7598
.95
1.40

## Your Cost Each <br> Your Cost Each

X wi9410-For R37, 38, $37 \mathrm{P}, 38 \mathrm{P}, 112,120,121,122$ $142 \mathrm{~B}, 241 \mathrm{~B}, 310, \mathrm{RCA}$ No. 9428. For 100-A Speaker RCA
 For $100-\mathrm{B}$ and 103 RCA XN19210-Each .. $75^{\text {c }}$ Spegtactiar values



RCA-Victor Models R32, RE45, R52, RE75
Exact duplicate of the original RCA part for the above model sets. no changes necessary. $9^{\prime \prime}$ cone.


MAJESTIC G1 Cone
Exact duplicate of the original. $9^{\prime \prime}$ cone.
Models 71, 72.
Xw19530,
Your Cost Each . . . . . . . . . . . . . . . . . MAJESTIC:G2 Cone
Exact duplicate $9^{\prime \prime}$ cone for models 71, 72, 91,92 and 181.
XW19531- Your Cost Each
 and Television and


## Montgomery Ward

For Chassis 26. Original part. 11500 ohms tapped at 9040 . Three different sized coils used. Specify types as shown below. Shpg. wt. 168.2

## XW19450.

 XW19655-21 no XW19655-21/4 ${ }^{n}$ dia., $7^{n}{ }^{n}$ deep, ${ }^{20}$ XW19656-21/8" dia., $15 / 8^{\prime \prime}$ deep, $13 / 6^{\circ}{ }^{7}$ hole Your Cost
Any Type.

Replacement Field Coils
Stock
No. Set or Speaker Ohms Your
Cost XW19680 Airline $8^{\prime \prime}$
$1800 \quad \$ 2.95$ XW19681 Airline $8^{\prime \prime}$ tapped....... $1800 \quad 3.25$ $\begin{array}{lll}\text { XW19413 Atwater Kent } 53,55,65 . & 650 & 2.50\end{array}$ XW19495 Atwater Kent 53, 55, 65. $1100 \quad 2.50$ XW19414 Atwater Kent 53, 55, 6517002.45 XW19668 Brunswrick 16 .......... $2500 \quad 1.95$ $\begin{array}{llll}\text { XW19418 Colonial 33 A.C......... } 6000 & 2.95 \\ \text { XW19419 Colonial 33 D.C. } & 550 & 1.90\end{array}$
$\begin{array}{llll}\text { XW19419 Colonial } 33 \text { D.C. . . . . . . } & 550 & 1.90 \\ \mathbf{X W 1 9 4 2 2} & \text { Crosley M45......... } & 1500 & 2.45\end{array}$
XW19422 Crosley M45........... 15002.42
Xw19682 Crosley 81/2"............. 25002.95
XW19683 Crosley $81 /$ n $^{\text {² ................ }} 7500 \quad 3.50$
XW19684 Crosley Isodyne. ...... $2500 \quad 3.10$
XV19685 Crosley.1sodyne........ $7500 \quad 3.50$

$\begin{array}{ll}\text { XW19669 } & \text { Edison. .................. } 4500 \\ 45000 & 3.25 \\ \text { XW19687 Fada }\end{array}$

$\begin{array}{llll}\text { XW19688 } & \text { Gloritone } 8^{\prime \prime} \text { tapped ... } & 1800 & 2.95 \\ \text { XW19428 } & \text { Jensen D4, D5 }\end{array}$ $\begin{array}{lllll}\text { XW19428 Jensen D4, D5. ........ } 2250 & 1.90 \\ \text { XW19429 Jensen D7, D8. } & 1500 & \mathbf{2 . 4 9}\end{array}$ XW19431 Jensen D9, D15. . . . . . $550 \quad 1.75$
XW19432 Jensen D9, D15. . . . . . . $1000 \quad 1.33$
XW19434 Jensen D9, D15. . . . . . . $1650 \quad 170$
XW19435 Jensen D9, D15........ $1800 \quad 1.70$
XW19436 Jensen D9, D15........ $2500 \quad 1.47$
$\begin{array}{lllll}\text { XW19490 Kolster International ... } & 100 & 1.95\end{array}$
XW19496 Kolster K43, K44, K70. $900 \quad 2.89$
XW19694 Lyric $9^{\prime \prime}$. $\quad 3000 \quad 3.45$
$\begin{array}{lll}\text { XW19695 Lyric } 9^{\prime \prime} \ldots \dddot{2} \text {............ } 10000 & \mathbf{3 . 9 8} \\ \text { XW19670 Magnavox } \mathbf{9}^{\prime \prime} \text { medium. } 2500 & 2.20\end{array}$
$\begin{array}{lllll}\text { XW19670 Magnavox } 9 " \text { medium. . } & 2500 & 2.20 \\ \text { XW19671 Magnavox } 9^{\prime \prime} \text { Large. . . } & 7500 & 3.75\end{array}$

$\begin{array}{llll}\text { XW19672 Magnavox early models } 2250 & 2.95 \\ \mathbf{X w 1 9 6 7 3} \text { Magnavox } 81 /{ }^{\prime \prime} & 2 . . . . . & 250 & 2.95\end{array}$

$\begin{array}{lllll}\text { XW19674 Magnavox } 81^{\prime \prime} \ldots \ldots . . . & 260 & 2.98 \\ \text { Xw19675 Magnavox } 11^{\prime \prime} \ldots . . . . & 650\end{array}$
XW19676 Magnavox $11^{\prime \prime}$. . . . . . . . $2500 \quad 3.35$

XV19965 Majestic G4............... $7650 \quad 3.75$
XV19448 Majestic G5............. $1000 \quad 1.85$
XW19677 Majestic G6, G20..... 1000
X 19678 Najestic Gs.i........ $2760 \quad 3.15$
XW19455 Newcomb-Hawley. ..... $7500 \quad 3.65$
XW19456 Philco $65,76,77,86,87$.
95, 96, 111 (Philco No. 2850)
2.70

XW19458 Philco 20, 21
No. 2768) ................... 1.14
XW19471 Rola C..................... 160002.9

XW19696 Silver-Marshall 30...... $1500 \quad 3.45$
$\begin{array}{llll}\text { XW19679 Stewart Warner 950.... } 10000 & 3.90 \\ \text { XW19481 } & \text { Stromberg-Carlson.... } 2500 & 2.76\end{array}$
XW19482 Stromberg-Carlson . . . . 75002.70
XW19667 Steinite .ii Model. .... 2250

XW19698 Utah Stadium.
XW19699 Utah $8^{\prime \prime}$ tapped
XW19652 Utah Midget.
18002.65

XW19486 Victor RE-32-45-75.... 3000 1.90 XW19653 Westinghouse WR-5-6-7 $1250 \quad 2.75$ $\begin{array}{llll}\text { XW19654 Westinghouse WR-8 } \ldots . & 1330 & 2.50 \\ \text { XW19489 Zenith }\end{array}$ $\times W 19489$ Kenith.
XW19488 Zenith 52 Special.
XW19487 Zenith 52.
25002.65

NOTE: We can obtain or have duplicated
for you any type of field coil. Send us the
pertinent information
such as model number of set, etc.
Radio Repair Cement Eit


An efficient Radio
Repair Cement. Kit for Speaker Cones: Voice Coils, R.F. Coils and Chokes. One bottle of all purpose cement, thinner to üse with cement.
XWi9499-Complete with
handy brush.
Your Cost.

## ROLA F4 Field Coil

The midget field coil for Rola $5^{\prime \prime}$ speakers model F4. D.C. resistance 3000 ohms. Can be used in a great number of other standard speakers. Size $2^{\prime \prime}$ wide, $1^{13 / 16^{" ~}}$ deep, 7/6" holè. Shpg. Wt. 2 lbs.
XWi9411
Your Cost Each, Special.




## Crystal <br> Detector

Ball and socket swivel adjust ment. Phosphorbronze cats-
whisker. Shpg. wt. 8 ozs. N13917-
Your Cost

Mounted Galena Crystal Carefully tested and mounted crystals. N13900
Your Cost

## Priced Low! YAXLEY Relays



Series type to be used in series with feed line of some
instrument in instrument in order to turn on an auxiliary circuit. Will close with a current as small as 60 carry up to $23 / 4$ amperes making it suitable for turning on " $B$ " supplies when used in series with auto receivers. Multiple type is to be connected across 6 to 8 volt line. Contacts will carry 100 watts at low voltage. Shpg. wt. 3 lbs. XF6418-Series Typ
XF6419-Multiple Type Your Cost Special.

## Special Bargaín <br> RMA Color Coded Carbon Resistors



These standard RMA color coded resistors are being offered at a price far below the market. We urge you to take advantage of this opportunity now to stock up on these units while they are available. When ordering, be sure to specify stock number of type and resistance desired. Available in $1 / 2$ and 1 watt sizes only; only the resistance values listed below are available.

| es | Res. | Res. | Res. |
| :---: | :---: | :---: | :---: |
| Ohm | Ohm |  | Ohi |
| 100 | 200 | 2000 | 30000 |
| 150 | 2500 | 2500 | 50000 |
| 250 | 5000 | 350 | 1 |
| 500 | 10000 | 5000 |  |
| 600 | 12000 | 100000 |  |
| 750 | 13000 | 200000 |  |
| 000 | 15000 | 250 |  |
| 1500 |  |  |  |
| XE5239-1/2 Watt Type <br> XE5240-1 Watt Type <br> Your Cost, <br> Either Type. <br> 100 For. <br> $\$ 2.50$ |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## CARTER Jacks



Type 103. Three springs; one open circuit closed when plug inserted. Fil. control.
XF6282
Your Cost Each
$\star \star \star$ Your Last Chance $\star \star \star$ THORDARSON "250"Amplifier and Self-Contained "B" Supply
It can be used as a public address a mplifier for small installa tions; it can be used to electrify old battery sets or to mod ernize obsolete electric sets; it is ideal for use as a phonograph amplifer or for a replacement power pack $1-27,1-50$ and $2-81$ 1-27, $1-50$ and ${ }^{2-81}$ transformer coupled transformer coupled resultant power output of 4.6 watts. The 2-81's, in a full wave rectifier circuit, provide ample plate current. Provision is made in the amplifier to supply the necessary field excitation for any 2500 ohm D.C. speaker.
All connections are brought out to a terminal board mounted over the power transformer. These taps are in the form of screw terminals for solderless connections. Voltage taps are at 150, 135, $112,90,67$ and 45 volts.
Other features include a pressed steel chassis; oversized parts conservatively rated to withstand great overloads; a safety switch protective line fuse. A 4 and a 5 prong adapter are supplied for easy connection to the detector circuit of any tuner. Full instruction included. Shpg. wt. 25 lbs. XP15750 Thordarson Model T-3715 Amplifier
List Price $\$ 89.50$ Your Cost Special less Tubes

## Tpy and Equal These

13 Contact Switch Rotary Type




#  GAWES FOU MOWEY! 

## Portable Laboratory Model 1181



This new tester has a meter with a 500 microampere movement that provides voltage ranges, on both A.C. and D.C. The copper oxide rectifier is of the latest type permitting the accurate measurement of A.C. voltages A double pole double throw witch marked A.C.-D.C ables the use of the meter either with pure D.C. or with A.C. with equal facility. Through with equal facility. Through the use of a rotary switch the $0-15-150-750$ volts, A.C. or D.C.; 0-1.5-15-150 D.C. milliamperes; 0-15-150 A.C. millia mperes; 0-1500-1,500,000$3,000,000$ ohms. In addition to the universal meter is the Free-Point Auxiliary Set Tester that can be used to check all of the latest type tubes. The Model 1151 Oscillator incorporated in the instrument can be used with $100 \%$ modulation. There are four available ranges: $110-500 \mathrm{~K} . \mathrm{C} ., 500-3,000 \mathrm{~K}$.C., $2,000-$ 6,000 K.C. and $4,000-18,000 \mathrm{~K}$.C.; each range being selected by a rotary for the servicing of with this wide range of frequencies are indispensable tion assures a completely shielded instrument, thus effectively preventing leakage through the power line to the receiver, which makes it dificult to obtain an accurate peak. All units mounted in an oak case measuring $16 \frac{1}{2} \times 71 / 4 \times 51 / 2^{\prime \prime}$. Shpg. wt. 19 lbs. Model 1181 Tester. Yoar Cost.

### 37.24

Model 1179 is the same as the Model 1181, except that the Model 1150 Oscillator is used. Shpg. wt. 19 lbs. X 510470 Your Cost.

## Model 1200 Dual-Meter Universal Tester

A new Dual-Meter Universal Test Instrument providing separate meters for both A.C. and D.C. measurements. In many instruments using a single meter the meter must be compensated in order to use it for ooth measurements thus considerably reducing the sensitivity. This disadvantage is therefore effectively overcome in this new Triplett tester. The meter in this model may be tilted to any angle in direct ine with the eye enabling the accurately determine the coperator to accurately determine the correct reading D.C. meter and overcome parallax. The ment having an accuracy of $2 \%$. D.C.
 scales: $0-10-100-250-500$ and 1000 volts, $0-1-10,100,250$, mills. $0-1500$ ohms$11 / 2 \mathrm{meg}$, and 3 meg-ohms. A.C. scales: $0-10-100-250-500$ and 1000 volts. Only three jacks are used. Two for measuring all D.C. voltages, D.C. milliamperes, D.C. resistances, A.C. voltages and capacity. Third jack used when measuring output voltages, contains a blocking condenser Shpg. wt. 14 lbs.
Your Cost.
s21.24

## Model 1230 Signal

 GeneratorThe Model 1230 is a stabilized, all-wave continuously variable signal generator, furnishing frequencies from 100 K .C. to 18,000 K.C., either modulated or unmodulated. The clear 400 cycle note is generated by a type '30 tube. The second type ' 30 tube is used in the special frequency stabilized circuit to generate the radio frequency oscillation. A $221 / 2$ yolt and three flashlight batteries fur-
 nish the power required. All individual parts such as batteries, coils, jacks are well shielded. The frequency ranges are controlled by the band switch and frequency control knob. Through the use of three output jacks and the attenuator the variation of attenuation is obtained. This type generator is used for determining frequency alignment, to furnish the signal for aligning all types of broadcast receivers. Mounted in a sturdy oak case and equipped with an attractive etched metal panel with all terminals, switches pped clearly marked. A complete set of test leads and full, easily understood,' instructions are included with each instrument. Its attractive appearance and efficient performance makeitan exceptionally fine value. $\left.\begin{array}{l}\mathrm{XJ10469} \\ \text { Your } \\ \text { Cost } \ldots\end{array}\right\}$

## Ratace

## Model 720 Tester

A Portable Laboratory Reasonably Priced
This point-to-point tester is designed for fast and efficient service work. Requires minimum manipulation and is extremely flexible. So arranged that voltage and current can be measured in any tube circuit. Resistance, continuities, and capacities are also quickly measured. Point-to-point tests are made through an 8wire cable and plug connected to the set socket. Tester socket terminals are arranged according to R.M.A. standards. With this method it is unnecessary to remove set chassis to localize defects. All ranges available by connecting through the single pair of jacks. Regardless of future arrangement of different tube elements this tester will make all tests with the same ease as it does with present day tubes. It contains one A.C. and one D.C. meter. The D.C. scales are $0,15,150,300$ and 600 volts, $0-15$ and 150 milliamperes. The A.C. scale are $0,10,25,150$ and 750 volts. Scales are clearly lithographed on all metal dials. No mental arithmetic required. Overloading of meter is presented as far as possible by the single selector switch and single pair jacks for all ranges. Shpg wt 11 lbs .
XK11036-List $\mathbf{\$ 2 5 . 0 0}$
${ }^{\mathrm{s}} 14.70$
MODEL 730 TESTER
Same as above but with a Triplett 1000 -ohm per volt D.C. voltmeter. Shpg. wt. 11 lbs. List $\$ 31.00$
XK11037-Your Cost
s 18.25

(111)
Condenser Analyzer
Checks condensers under full rated load


Tests paper, mica, and oil dielectric condensers by the method of measuring the D.C. resistance under an applied voltage. The resultant minute leakage current is indicated by means of a special Neon Glow Tube Indicator. Three simply operated controls adjust the circuit for the allowable electrical characteristics of the condenser under test. Checks opens, shorts, leakages, and intermittent condensers. Unit contains built-in power supply for operation on 110 volts, 60 cycles A.C. Voltages up to 700 volts D.C. available at terminals. An '01A tube is used for the rectifier. In heavy metal case $33 / 4 \times 41 / 2 \times 71 / 2^{m}$. Case is finr ished in durable black lacquer for protection against rust. All switches, binding posts, etc., are clearly labeled on the etched front panel. Shpg. ${ }^{\mathrm{wt}} \mathrm{t} .8 \mathrm{lbs}$.
XJ10465-Tobe Condenser Analyzer, with Neon Tube but less '01A Tube.
Your Cost
11.40

## PESE Photo-Electric Cell and Supersensitive Relay for Experimental Purposes



A photo-conductive type cell that varies its resistance 'from dark to bright light at a ratio of approximately 18 to 150 . Wicroamperes pass 150 microamperes at 90 volts. This is sufficient current to operate moving coil type relays without amplification. Better results
 are obtained when used with a single stage of amplification. Although suitable for many small industrial applications, these units are designed expressiy for experimental use Relay is sensitive enough to operate with as little as 1 milliampere Secondary contacts will handle up to 1 ampere. 3000 ohms D.C resistance, other resistances available. An extremely interesting and valuable booklet giving complete, profusely illustrated instructions for using this cell in experimental and commercial circuit applications is included with each unit. Shpg. wt. 2 lbs, each
XN14187-Pese Photo-Electric Cell.
Your Cost.


## For complete listing of READRITE and TRIP-

 LETT test instruments refer to pages $94,95,96$, 97, in the 192 page Catalog No. 56.An extremely sensitive relay especially designed for use with the Pese Photo-Cell. Can also be used for other purposes.
XN14188-Pese Supersensitive Relay.
Your Cost
$\$ 3.00$

## 



A mechanic's tool box, fishing tackle box, valuable paper box, for household tools and a dozen other purposes. Has loose tray with movable partitions. Hea vy steel, beautifully finished in olive green. Matched hardware. Size $14 \times 61 / 2 \times 6^{\prime \prime}$. Shpg. wt. 6 lbs.
XP14870_Your
Cost......................

## Analyzer Knobs




Measures inside and outside diameters up to 3 inches, calibrated in $1 / 16$ and $1 / 32$ part of an inch. Has knurled locknut. Shipping weight | 8 oz. |
| :--- |
| $\times \mathrm{PI}$ |

XP14891-Your Cost.
I1 ${ }^{c}$

## Metal File <br> Handle <br> 8 <br> 5

Will hank take any type of tool with a hank less than $3 /{ }^{\circ \prime}$. Set screw holds tools rigid. Shpg. wt. 1 lb . XP15042- Eur Cost Each........ I(
Cold Chisel
Xp15179-8/8" chisel. Shpg. wt.
2lbs.
Each....................... ${ }^{\text {c }}$

## mite Mis (0)

Can't Rol Center Punch

Made of exceptionally tough, swaged Carbon Steel. Heads and points are polished and the grip is knurled. ${ }^{2}$ " ${ }^{\prime \prime}$ point
Your Cost Each
$10^{\circ}$

## Money Savers!

3 in 1 Screw Driver

双

Nesting type. Smallest nests in handle of next largest and the two together in the largest. Steel blades with brass handles. 41/4 long. Shpg. wt. 1 lb .
XP15220-


## Service Screw Driver



A low priced and very popular Screw Driver, with polished blade and attractively finished red handle fastened with bead lock. Blade of forged steel. Shpg. wt. 1 lb . XP15056-Blade $\mathbf{3 n}^{\prime \prime}$



Wrench Set and Screw Driver
A combination screw driver and wrench set. Consists of ascrewdriver with a $3^{\prime \prime}$ straight and a $5^{\prime \prime}$ Ell shaped extension. A coupling and the following sockets- $3 / 60^{\prime \prime}$, $1 / 4^{\prime \prime}$, $5 / 6^{\prime \prime}, 11 / \sqrt{2 \prime}, 3 / 8^{\prime \prime}, 7 / 6^{\prime \prime}$ and one internal
knurled socket knurled socket to fit any 12 pt . or round nut-3/10" to $8 / 8^{\prime \prime}$. Shpg. wt. 4 lbs.
XP15159-Your Cost.
$95^{c}$
Priced Low!
Diagonal Cutting Pliers


A very popular plier with all servicemen. Sharp cutters. $58 / 4^{\prime \prime}$ long. Shpg. wt. 3 lbs
XP15127-Your Cost
$35^{\circ}$

## Nickel Radio Pliers



A handy all-around plier, neatly made. Shpg. wt. 3 lbs. $6^{\prime \prime}$ long. XP15332
Your Cost.
$33^{\circ}$

## VALUES to interedx the SERVIGEMAN E

Phono-Needle
 Test Prods
Sturdy handles with chucks for phonograph nee-
red, one black. Shpg. wt. 8 oz.
XM12975-Spade Ends. XM12976-Pin Tip
Your Cost (Either) per Pair
Spring Clamp Binding Posts
These posts are excellent for use where connections must be quickly made. Insulated top, $1 / 32{ }^{2 \prime}$ stud. Overall length $1^{\prime \prime}$.
XM13046-Blank,
XM13047-"Ant.",
Your Cost Each.


Pencil Type Test Prods

Spring prongs at the end of prods allow changing from spade lugs to phone tips or to spring clips. Handies are $6^{\prime \prime}$ long and $1 / 4$ " in diameter. Needle point phone piercing through insulated wires for good sulated wires for good contact. Five foot black and red fexible wire. Comes complete With two Alligator Clips, two needle point Phone Tips, and two tapered lugs.
XM12971
Your Cost
O..........
per Pair, Complete.


## C-H Radio Outlet

Can be used as aerial and ground outlet or as speaker outlet. Standard equipment in many apartment houses, hotels, etc Plate of brass in brushed finish. Jack nickeled finish. Fits standard outlet box. Shpg. wt. 1 lb . XM13232-
Your Cost
Special.

## Trutest

## Pilot Light Bracket

Pilot bulb lights attractive jewel. Specify green, red, or amber.
XF6436-
Your Cost Each. . 3


## Banana Jacks



## Insulated Tip Jacks



Have new type springs
Insulated Tip Jacks
Have new type springs
which provide sure grip
contact. Tip nests all
the way in jack. Mounts
in 3 /is hole. Caps lessen
danger of shorting. All
Insulated Tip Jacks
Have new type springs
which provide sure grip
contact. Tip nests all
the way in jack. Mounts
in 3 /is hole. Caps lessen
danger of shorting. All
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in 3/is hole. Caps lessen
danger of shorting. All
Insulated Tip Jacks
Have new type springs
which provie sure grip
contact. Tip nests all
the way in jack. Mounts
in 3 /is hole. Caps lessen
danger of shorting. All colors. XM12879
Your Cost, Each.
Per Dozen


## Grid Caps

Heavily insulated. By using various colors for different tubes no other socket identification is necessary.
Complete with $8^{\prime \prime}$ leads.
XP14712
Your Cost Et, Each.
................... So.ss

## DONT／${ }_{6 e} C_{A} U G H T / H_{y} H G H E R$ PRICES！

## Handy Hardware Assortment <br> $45^{\circ}$ <br> 216. <br> Kit

A big assortment for the service－ mah，of assorted screws，nuts， washers，eyelets，lugs，brackets， etc．（ $38 / 4$ pounds）．Something of everything in the way of small parts used in radio receivers．An indis－ pensable and economical assort－ to be without．Shpg．wt． 5 lbs ． XP14834
Your Cost．
$71^{c}$
Same as above，but contains 2 lb of hardware．Shpg．wt． 3 lbs． XP14844－
Your Cost．
$43^{\circ}$

## Dial Scale Assortment



Just the thing for the serviceman． Consists of an assortment of fan type scales，drum type scales，etc． in all sizes and colors．You can＇t go wrong at this ridiculously low price． Get yours now！

## XH9801

10 FOR 7
4
4

## Blank Radio Chassis

Cadmium Plated
These chassis are made of stiff metal that is easy to drill and work and have spot－ welded corners that will not loosen． Strongly built－will not wobble．Excellent for use in building receivers or amplifiers： A verage shpg．wt． 6 lbs ．

XM12810－ $10 \times 17 \times 3^{\prime \prime}$
Your Cost
XM12811－ $10 \times 23 \times 3^{\prime \prime}$
$85^{\circ}$
$95^{c}$ Your Cost．


FINAL CLOSE－OUT OF THESE


XM12809－12x6x21／2＂ Your Cost ．．．．．．．． Your Cost．
$65^{\circ}$大 $+x$大人大
 ＋ $163 / 4 \times 9 \times 17 / 1_{6}{ }^{\circ}$ ． ．Shpg．Wt． 4 lbs． XM12885 Your Cost．
Type B－Cadmium plated，open sides．For 5 tube set．Has 16 cut－ outs；ample mount holes．Size $83 / 8 \times 71 / 8 \times 2^{\prime \prime}$ ．Shpg．wt． 4 lbs ． XM12868－
Your Cost．


METAL CHASSIS
Are adaptable for many of the new circuits， using up to nine tubes． Layout ample for all parts used．

## Fuse Retainer

A special fuse holder designed for use with auto radio sets．Two piece connector of heavy metal， with fibre inside insulation．Heavy spring contact assures perfect con－ nection at all times． $21 /{ }^{\prime \prime}$ long． XL12372－
Your Cost Each

## Antenna Connector

For auto radio sets．Two－piece metal container， fibre inside insu－
ation．Powerful spring contact in－ sures perfect electrical connection． nsures a neat installation，and is an aid when set is serviced． XR16714
Your Cost Each

## NA－ALD Bakelite

## Base Momint Sockets

## Designed for

breadboard
mounting and for Lab－ oratory use． －M de of bake－ lite，with Na－ Aldspecial springs Fit ted with binding posts at the ter－ minals of the socket．
 Shpg．wt． 4 lbs．

Type D－Cadmium plated．Open ides．For midget set．Size $9 x$ $41 / 2 \times 2^{\prime \prime}$ ．Shpg．wt． 21 bs.

25
Your Cost Each ．．．．．．．．．． sides． 28 cutouts．For 6 tube set． Size $15 \mathrm{x}^{3 / 4} \times 21 / 8$ 41 bs.
XM12862
Your Cost Each
Type F－Cadmium plat ．．．． sides．For 9 tube set． 40 cutouts and holes for mounts．Size $171 / 2 \mathrm{x}$ $10 \times 31 /^{n}$ ．Shpg，wt． 61 bs ．
YM12863－Easth．

Stock No．Prongs
Your Cost XK11692 XK11693 $\begin{array}{r}\times K 11694 \\ \times \times 11695 \\ \hline\end{array}$

## New Airplane Dial <br> For All－Wave Sets

FID CI CHSStat E Crystal holder of moulded bakelite and 80－160 meter types．
XM13098－20－40 meter．
XM13099－80－160 meter．
Your Cost，Either Type．
$\$ 1.00$

## NONE BETTER AT THIS PRICE

## Thutest



## Carbon

## Microphone

An outstanding big value in a two－button carbon microphone．The largest microphone made of the finest materials you have ever thought possibl it such a low price．It is and 2 ＂thick．${ }^{\prime \prime}$ drameter response is exceptionally good．Two standard $200-$ ohm buttons and pure gold spot diaphragm．Finished in highly pol－ ished chromium plate．You must see and hear this microphone in order to appreciate its rea
value．Shpg．wt． 4 lbs．
XM13384－Your Cost．
\＄3．95
ESICO＂Special＂Iron


A genuine Esico Iron at an exceptionally low price．This is an excellent iron for those having only occasional use for a soldering iron．Heat－ ing element is of nichrome wire．Handle is of black wood．Steel shank and brass ferrule． Consumes 55 watts．Shpg．wt． 3 lbs．

## XP14849

Your Cost，Special
with Extra Tip

## Truteat Mike Cable

## $\star$ SPECIAL VALUE



Consists of three conductors color coded in very closely woven tinned copper shielding with outer covering of high percentage rubber． Especially intended for outdoor use．Abso－ lutely weather and abrasion proof．Shpg．wt． 10 lbs．per 100 ft ． 10 lbs．per 100 it．Cost Per Foot ．．．．．．
 ARIED HOT TIPA

## RCARemote Control Button Box and Cable



The genuine RCA－Victor part used on models RAE－59，RAE－68，RAE－79，etc．Can be used as an additional remote control on these or other receivers incorporating the entire unit， or may be used by experimenters．Unit com－ prises 25 feet of special 12 wire cable con－ prises 25 feet button box Boz has provisions norted to the bix stectors，two＂on－off＂，and two volume positions．All brand new．＇Quantity volume positions．All brand new．Quantity
limited．Shpg．wt． 4 lbs． XN14623
Your Cost Each，Special．

A new and improved type airplane dial affording a 6 to 1 ratio in $180^{\circ}$ ．Two scales on translucent dial scale；upper scale cali－ brated from 0 to 100 and ower scale from 100 to 0 ． Knife edge pointer covers the entire scale．Coupling fits either $1 / 4$ or $3 / 8$＂shaft． Diameter of scale $3^{16} /$／$^{\prime \prime}$ Scale protected by convex glass bezel and comes with eon plate．Shpg．wt． 11 bs． XH9800－ Your Cost Each

tractive escutch－
s 1.10

## Quantity Limited

 GILBERT Toy Motor Operates on A．C．or D．C．

A well built toy motor that can be used to activate dancing dolls，window displays，etc． Operates on 15 volts，either A．C．or batteries．Can be made toturnineither direction．Frame is connected to one side of volt－ age supply，and one of two leads to the other side according to direction（clockwise or counter－clockwise） desiredi．Shpg．wt． 3 lbs． KS1732，－
Your Cost Each，Special．

## AMPLEX

## Grid－Denser

A very compact ． 0005 mid
trimmer condenser in a
molded bakelitecase with binding postterminals XH9738
Your Cost Each．


# Rerat Mimuleses 

## Special Bargain

## 30 Henry-50 Ma. Filter Choke

Open frametype choke. Inductance 30 henries. Current carrying capacity 50 milliamperes. D.C. resistance
450 ohms. $6^{\prime \prime}$ leads. Size $24 / 3 x$ $13 / 4 \times 21 / 8^{\prime \prime}$ high. Ideal for midget re${ }^{\text {ceivers. }}$ XA246. Sh . wt. 3 lbs . $\times$ X246
Your Cost, Special.


Heavy Duty Filter Choke


This Heavy Duty Filter
Choke has an inductance of 30 Henries, at ap-
proximately 150 mils. The D.C resistance is 700 ohms. For use in a filter circuit for power packs or power amplifier. Sizes $3 \times 3 \times 2 \frac{1}{2} 2^{\prime \prime}$. hpg. wt. 6 lbs .
Your Cost

## Metal Binding Posts

H
These binding posts are constructed of brass, two types shown below are available. Excellent for use on panels for quick connections. Quantities are limited.
XM13020-Type A. Bolt and nu mounting. Knurled screw top. Heavy duty type.
XM13021-Type B. Removable wood screw mounting. Can be Mounted with a $10-32$ bolt.
Each.
10 For

## $\$ 0.50$

## Speaker Cement

A high grade cement made especially for use on speaker cones and voice coils. Dries very rapidly. To be applied with thin brush Contained in small tubes that can be carried around in one's pocket. Available in two sizes; $18 / 4^{\prime \prime}$ and $31 /^{\prime \prime}$ tubes.
XP15239-Small Tube
Your Cost Each
XP15240-Large Tube
Your Cost Each

## CROSLEY Filter



## FADA Audio Trans-

 former and Choke
## Straight audio trans former used in early model Fada receivers. 3500 ohms Primary 8000 ohms. Open type with long insulated leads. Size $3 \times 17 / 8 \times$ $21 /{ }^{\prime \prime}$. Shpg. wt 2 lbs. XC1838

Your Cost Each.


Fada Choke: o the above Pited appearance maximum D.C. 75 M.A. Resistance 580 ohms. Shpg. wt. 2 Ibs. XC1839
Your Cost Each.

## ************************************

## JUST OUT!

## RCA Cathode Ray Oscillograph (For Late January Delivery)



Designed to permit the service engineer to analyze receivers, amplifiers, etc. more thoroughly, this new 906 cathode makes use of the type 906 cathode ray tube. The instrument is indispensable for such pur-
poses as: measuring frequency and poses as: measuring frequency and
magnitude of hum; checking percentage of modulation; examining wave forms; aligning the multitude of circuits used in the newer types of receivers. This oscillograph types corporates many new features incorporates many new features. A
single stage amplifier with uniform frequency characteristics from 20 cycles to 90 kilocycles is used to increase sensitivity in the vertical direction. A similar amplifier is also used to increase sensitivity in the horizontal direction. A switching arrangement is provided so that the a mplifiers may be thrown 20 cycles to 15,000 cycles, and is controlled from the front panel. The amplifier feeding the horizontal axis may also be used to amplify the timing oscillator. Provision is made for both internal and external synchronization and both vertical and horizontal beam
shift, so as to obtain a standing image with proper framing. Unit is housed in a metal cabinet finished in black crackle and provided $\star$ with a carrying handle. Amplifiers use 1-879, 1-885, 1-80, 2-57's. Operates on 110 volts A.C. power consumption 85 watts. Size K $101 / 2 \times 6 \times 16^{\prime \prime}$. Shpg. wt. 25 lbs . Oscillograph type TMV-129B. Cem plete with all tubes and 906 Cascillograph, type TMV-122B. ComYour Cost.................................... \$0.

## SPECIAL <br> 30 Mil. Meter

A $2^{\prime \prime}$ diameter meter employing an iron vane type movement. Range 0-30 milliamperes. Internal resis800 stance of meter plied ohms. Sup-
ing ring. Quantity litit ing ring,
Shpg. wt. 2 lbs .
$\square^{c} \times 10519$
Your Cost, Special.

RCA Remote Control

## Relay

The genuine
RCApart.
 remote con
ployed with models R-86R, RAE 59, RAE-68, RAE-79, etc. RAE ates with from 10 to 14 volts, A.C. a tes with from 10 to 14 voits, A.C.
or D.C., on contacts. Voltage can be applied only momentarily. Will carry up to 1 ampere. Phos phor bronze contacts. Shpg. wt. 1 lb .
XN14624
Your Cost Each

## GREBE Phono Matching

## Transformer

Used to match a low impedance magnetic pick-up magnetic pick-up to any type input of Radio or power amplifier. Single winding, tapped at 150,300 and 1100 ohms D. C. resistance. Size
 $21 / 4 \times 17 / 8 \times 21 / 4^{\prime \prime}$. Shpg. wt. XC2237-Your Cost.

## STROMBERG-CARLSON

 Audio Filter Unit

For preventing burnout of magnetic speaker coils. Housed in a metal case with pin jacks for speaker connections and long cord with phone tips for connection to set. Can be used with any single output tube and magnetic speaker. Shpg. wt. 2 lbs.

## XC1639-Your Cost <br> $75^{\circ}$

## JEFFERSON Mike Trans-

 former-2-ButtonA transformer fordouble button microphone. Has a phone. Has a 1:45. Imped1:45. Impedance ratio 1:
2000. Has flat response curve from
$30-7000 \mathrm{cy}$ cles. $31 / 10 \times 2^{11} / 6$ $\times 31 /$ " $^{\prime \prime}$. Shpg.
wt. $21 / 2$ lbs. $\$ 1.19$

## MAJESTIC Phono

Matching Transformer
200 ohms to grid
of tube. Can be used as a single button miketransformer. Housed
 tainer with lug terminals Size $31 / 8 \times 27 / 8 \times 21 / 4$
Shpg, wt. 5 lbs.
Xour Cost Each, Special $59^{\circ}$
Fibre Tubing
For RF and IF Coils
Approximately $25 / 8 \times 11 / 4^{\prime \prime}$. Has holes for connections. Finest
quality. Quan-
tity limited
XH10230-
Your Cost Each
quality. Quan-

## Theatre

## Exciter Lamps

Designed and engineered by one of the pioneers in the field, these lamps are scientifically constructed to give long and satisfactory service under normal conditions.
$\begin{array}{llll}\text { Type } & \text { Volts } & \text { Amps, } & \text { Base } \\ 854 & 8.5 & 4.0 & \text { S.C. Bayonet } \\ 105 & 10 & 5.0 & \text { S.C. Bayonet } \\ 107 & 10 & 7.5 & \text { S.C. Bayonet } \\ \text { Your Cost } & & \\ \text { Each, Any Type.......... } & \end{array}$

## Lafayette

 MAJESTIC TYPE TUBES| Type | $\begin{aligned} & \text { List } \\ & \text { Price } \end{aligned}$ | Your Laf. | Ray. | Type | List | Your Laf. | Cost Ray. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 245 | \$1.30 | \$0.65 | \$0.70 | 85A-5 | \$1.70 | \$0.85 | \$0.92 |
| 25 | 3.80 | 1.90 | none | 2A7-S | 2.30 | 1.15 | 1.24 |
| 275 | . 80 | . 40 | . 43 | 6A7-S | 2.30 | 1.15 | 1.24 |
| 355-515 | 1.40 | . 70 | . 76 | 687 | 2.10 | 1.05 | 1.13 |
| 555 | 1.70 | . 85 | . 92 | $6 \mathrm{C7}$ | 1.90 | . 95 | 1.03 |
| 565 | 1.30 | . 65 | .70 | 6D7 | 1.75 | . 88 | . 95 |
| 575 | 1.75 | . 88 | . 95 | $6 E 7$ | 1.75 | . 88 | . 95 |
| 57A-S | 1.75 | . 88 | . 95 | 6F7-S | 1.90 | . 95 | 1.03 |
| 585 | 1.75 | . 88 | . 95 | $6 Y 5$ | 1.90 | . 95 | 1.03 |
| 58A-S | 1.75 | . 88 | . 95 | 625 | 1.90 | . 95 | . 95 |

## RAYTHEON

## Til

## Genuine

## KELLOGG Tubes

The genuine original overhead heater type tubes, for use in old Sonora and other receivers. Designed for use on alternating current only. All brand new, and fully guaran-
Type 401 List $\$ 4.00 \$ \$ .35$
Your Cost Each... $\$ 2.3$
Type 403. List $\$ 5.00 \$ 2.94$
Your Cost Each

## QUALII equipment ax SAVINGSG:

No Equal in $\star$ Quality $\star$ Cafayette Aerial Kits


## Standard Aerial Kit

 A low price kit containing all essentials for a dependable and effiicent aerial system. A very good dealer itern. Shipping weight 2 Dos. Contains: 90 ft. $7 / 25$ Copper Wire, 25 ft . Lead-in 25 ft . Ground Wire, 2 Porcelain Insulators, 1 Copper Ground Clamp, 1 Lead-in Strip, ${ }^{2}$ Nail Knobs.KQ16477-List 90c Your Cost.

## Economy Aerial Kit

 Especially designed for Midget Sets. The lowest price kit on the market made up of first quality merchandise. Shipping weight 2 ths. Contains: $90 \mathrm{ft} .7 / 27$ Copper Wire, 25 ft. Rubber Covered Lead-in, 1 Lead-in Strip, 1 rround Clamp, 2 Nail Knobs, Porcelain Insulators.$\times \quad 316478-$ List 75 c Your Cost.

## PARKSON Arrester



All bakelite. Noan-airgap type. Approved by the Underwriters. Shpg. wt. 1 lb . XR16705 Your Cost Each........
S. H. Arrester


## arn

Cotton Twisted Pair

## 

18 Gauge, $1 / 4$ R. C. wire with a fine cotton covering. Two col-ors-white or yellow and green mixture. Specify which
XY20902-Your Cost:
Per Ft. $\quad 100$ Ft.
$\underset{\$ 1.70}{250} \mathrm{ft} \cdot$

## Nail-It Knobs

 Heavy rectangular knob with extra strong nail. Has leather washer under nail head to prevent breakage when fastening. Makes a neat looking job. Easy to use.XR16978-
Your Cost Each
50 for 60c

## Parallel Lamp Cord

## Fivicitivinty

Due to the great demand for and waterproof, this wire has been made available. It is similar in size and appearance to the regular cotton or silk covered lamp cord. The two rubber covered wires are contained in a jacket of extremely tough live rubber put on by a new electrolytic process. Approved by the underwriters and can be had in black, green, ivory and brown. Specify color when ordering. Shpg. wt. 3 lbs. to 100 ft .
XY20920-18 gauge. Your Cost: Per Ft. 100 Ft . 500 Ft .

## Transmission Line

## Pundson

Especially designed for use with doublet antenna systems. Used extensively as the transmission line for Philco and other receivers. Consists of two rubber covered conductors covered by a weatherproof cotton outer braid. Shpg. wt. ( $100 \mathrm{ft} .$, ) 4 lbs .
XR17152
100 ft coil.
Xour Cost. 500 ft. coil. 83
Your Cost. . . . . . . . .

## BELDEN

Tinned Copper Shieldidg


The finest copper shield ng a vailable. Fine mesh closely woven; assures perfect shielding. Shpg. wt. per 100 ft ., 4 lbs .
$\times \mathrm{PQ16214}$-Inside diam. ${ }^{13 / 66^{\prime \prime}}$ P Per ft.
Your Cost
3
Per 100 ft .
. $\$ 2.30$
XQ16215-Inside diam. ${ }^{\text {P/ }}{ }^{\prime \prime}$
Per ft. Your Cost
Per 100 ft .
XQ16216-1n ............ $\$ 1.95$
Perft. Your Cost
Per 100 ft .

## -

## E <br> *Exceptional Value!



## Ceramite

Transposition Blocks

A standard design ceramite transmission block at an heretofore unheard of price! $21 / 4 \mathrm{x}$
$21 / n$. Shpg. wt. of 10 $21 / 2^{n}$. S
XR17089 - 12 for 50c
Your Cost Each.
LYNCH Hi-Fi All-Wave "Duplex" Coupling System

For Use on any Doublet Type Antenna

This Lynch "Duplex" Coup-

ling System is especially suited for use where the area covered by the antenna is covered by the antenna is limited. It willimprove the efficiency of any doublet antenna now in use; is eftcient from 3 to 600 meters. Duplex Antenna Coupler made of polished molded bakelite; one Hi-Fi Receiver Coupler and one 50 foot length of Lynch Giant Killer Cable. Instructions included. Shpg. wt. 4 lbs. List $\$ 6.75$
4 Lbs List $\$ 6.75$
$\times R 17160-$ Complete Kit
Your Cost.
Special Transmission Line


A ten-strand wire covered with live rubber, a lacquered cotton braid and a woven-tinned shield. Wire tinned for easy soldering. This wire is the same type as used in many filtered aerial systems such as Tobe, Lynch, etc.
$\times Q 16240 \quad 50 \mathrm{Ft}$. 100 Ft . 500 Ft .
$\begin{array}{llll}\text { Your Cost } & 55 c & \$ 2.05 & \$ 4.95\end{array}$

# EGG SVMICS-WIRE  

## Service Wire Kit

 ONLY25
 , CORNISH Wire Co.

## WIRE SPOOL ASSORTMENT

## * Just the thing for the serviceman These popular types of wire are put up on metal spools. Manufactured by the most reputable wire manufacturer in the business. Guaranteed to be of

 A real money saver. This assortment contains the finest quality, full length and expractically every type of wire useful for Radio act gauge as specified. Don't fail to Service. Contents total approximately 200 feet in lengths varying from $4^{\prime \prime}$ to $24^{\prime \prime}$. Assortment includes push-back r.c., shielded, twisted, parallel and!other wire. Shpg. wt. 5 lbs. XR16299 - $\qquad$SPECIAL WIRE OFFER $\star$


## Electronic Vibrators

Electronic Vibrators are approved by allleading set manufacturers, and are being used as original equipment in many sets. Modern developments have been utilazed to produce a unit that will stand up under the most severe conditions of use. They feature: cushioned vibrating arm, special nickel-copper alloy spring reeds, cast iron frame and magnetic path, oversized contacts of pure tungsten

 248 cti $5=7$ 7EATH गुण Stock Stock
No.


## New! SHERWOOD Master Filter

## Eliminates Individual Suppressors

This filter is designed to replace all resistors, suppressors or filters as used in The Sherwood Master Filter is placed in The Sherwood Master Filter is placed in the distributor head only, thus eliminating the necessity for using any type of suppression on the spark plugs. Consists of eight individual coils wound into a master coil, having an A.C. resistance of 420 ohms at 3400 R.P.M. Constructed with solid bakelite housing that will resist heat of $400^{\circ}$ and is moisture proof. Will stand up under continuous excessive vibration. Shpg. wt. 8 oz. XN14135 Sherwood Master Filter.
Your Cost. .....



## rga <br> By-Pass Condensers

Midget units, in metal cases, provided with ribbon leads. May be used in any receĭver as oscillator grid condensers, padders, etc. Part No. 2269 is used in RCA Models 21, 22, 60, 62, $64,28,28 \mathrm{P}, 37,38$, RE40P, 120, 330 and 331. Part No. 2734 is used in Models 80, 82, 86, R7 8, 9, 10, 11, RE18, RAE26, RAE68, R21, 74 $76,77,110,111,115,210$ and 310 . X 2539 -Part No. 2269. CB540-Part No. 2734. 745 Mmf Your Cost, Either Type

## EVEREADI 50 By-Pass

Exact duplicate of the original Eveready Part No. 2822. Contains three .5 mfd .400 volt condensers. Can negative Can be used as a general replacement part. Shpg. wt. placement part. Shpg. wt.
1 lb.
XB41-Your Cost
XB541-Your Cost. 9


## SPARTON By-Pass Condenser

 Models 9A,
## 410 and 420



An exact dupl placement for the original Sparton Part No. A6456. Contains four sections, 3 be equal to if not superior to th. Guaranteed to Wt. ${ }^{8}{ }^{\text {ozz }}$. Your Cost Each

## SPARTON Tubular Condensers

 in Drawn Metal ShellsA new and improved type conmodels. In heavy in sparton with threaded insert in shell, Fit chassis exactly changes. Shpg. wt. 1 lb .
XB545-. 25 Mfd .
Your Cost
 Your Cost XB547-1.0 Mfd. Your Cost. .....
$37 c$
$32 c^{b}$
$37 c$

## SPECIAL BARGAINS

ELECTRAD .5 Mfd. 400 Volts By-Pass Condenser



Ideal for use as a general purpose replacement. Can be used in practically any set. Conservatively rated at .5 mfd ., 400 volts working voltage. Hermetically sealed in a drawn metal can which is provided with mounting feet. Has long leads. Shpg. wt. 1 lb . $\rightarrow$
$\times 8542$
Special.
$15^{\circ}$
Quantity Limited 4 Mfd. 600 Volt Filter

## Condenser

 Just the thing for use in P.A. equipment or in power amplifiers. This high voltage filter condenser is conservatively rated at 4 mfd., 600 volt D.C. working voltage. Best grade foil and condenser paper used. In lacquered metal can $5 \times 28 / 4 \times 15 / 8$. Long leads for connections. XB554 Your Cost Each.
$35^{c}$


## RCA-Victor

By-Pass Assemblies
Models 17-50-60-62-64
Genuine RCA Part No. 5 XB481-Your Cost Each


## For Models 44-46-47

Genuine Part No. 6002 . Contains one .25 mfd . and one .75 mfd . condensers.
XB485-Your Cost Each
I( ${ }^{c}$
For Models 18 and 51
Part No. 2241. Contains four .5 mfd .
$11^{c}$
Shipping weight $1 \mathbf{i b}$.

| Models R-32, RE-45, R-52 and RE.75 |  |
| :---: | :---: |
|  |  |
|  | Part No. 60074. Contains |
|  | two .1 mfd , and one .125 |
|  | Mr8478- |
|  | Your Cost Each |

## FARADON Interference

 and Noise FilterHigh capacity filter for
use on either A.C. or use on either A.C. or
D.C., 110 to 220 volts. D.C., 110 to 220 volts.
May be connected across lines directly at source of interference. Makes a fine line filter for any radio set, and may be used with motors rated
 one 2 mfd . and one 5 mf wt. 41 bs . Your Cost Each

## POLTMET DOOI MECA

" popular unit at a price. Tested bargain price. Tested at 600
volts. In moulded voits. In moulded
XD3817
Your Cost Each.
10 For

Tast Ghance titese Prices

## SANGAMO <br> "Illini" Mica Condensers



Hereia an opportunity for man to stock up on brand

quality mica condensers at prices far below the present market quots tions. These Sangamo condensers are constructed with the finest ruby mica, and are housed in moulded bakelite cases. All units have capacities marked on them. Although this company has purchased a large quantity, they will not last long at the prices shown below. Consult listing for available sizes

| Stock No. | Cap'y | Your Cost | Stock | Cap'y |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { No. } \\ & \times \text { D4176 } \end{aligned}$ | Mfd. | Each | No. | Mfd. | Each |
| $\times$ X4177 | . 002 |  | XD4173 | $.0005$ |  |
| XD4171 | . 003 |  | $\times 14174$ | . 00 |  |
| XD4170 | . 000125 | 3 | $\times \mathrm{XD4175}$ | . 00002 |  |
| XD4172 | . 00045 |  |  |  |  | XD4172 . 00045

SPECIAL KIT- 12 UNITS
Contains the following
$\begin{array}{lll}1-.001 & 2-.000125 & 1-.0009\end{array}$ $\begin{array}{lll}1 \text { 1-. } 002 & 1-.00045 & 1-.00002\end{array}$ $1=.0031-.0005$ 1-. 00005 XD4166-Kit of $12 \ldots 35^{\text {C }}$

## SPECIAL KIT- 25 UNITS

Contains the following
6-. $001 \quad$ 4-. 000125 2-. 0009 $\begin{array}{lll}2-.002 & 2-.00045 & 2-.00002\end{array}$ $2-.003 \quad 2-.0005 \quad 3-.00005$ XD4167-Kit of 25
Your Cost, Special....

SPECIAL KIT- 50 UNITS
SPECIAL KIT-50 UNITS Contains the following: 4 -. 002 5-. 00045 5-. 00002 $4-.003$ 8-. 0005 5-. 00005 XD4168-Kit of 50
$\$ 1.25$

## SPECIAL KIT-100 UNITS

 Contains the following 24-. 001 16-. 000125 8-. 0009 8 -. 002 8-. 00045 10-. 00002 8 8-. $003 \quad 8-.0005 \quad 10-.00005$ XD4169-Kit of $100 \$ 2.010$

Only the purchase of the entire factory surplus on the items listed thein numerable uses to which these switches and jacks may be placed the hardware alone may be salvaged to afford a far greater placed, than their cost.


## Single Filament <br> Control Jack

Nickel plated brass hardware. Single $3 / 8^{\prime \prime}$ panel hole mounting

## KM12857

Double Circuit Jack
Closed circuit. Nickel plated brass mount. List $\$ 1.00$.
XM12858


4A" Battery Switch Push button type. Moulded bakeIite mount. Nickel plated brass hardware. Binding post terminals Mounts in single $3 / 8^{\prime \prime}$ panel hole
List $\$ 1.00$.
XM12859

## 细

Reduced Prices! on CROSLEY Coils


Genuine Crosley replacement antenna and R.F. parts. Can be used for other sets.
Your choice of any of the folfowing coils. Each
Shpg. wt., any coil, 1 ib.
Models 20, 21 and 22 XC1855-R.F. Coil No. 6435

Models 53, 54, 57, 77 and 91 XC1862-Antenna Coil No. 20444.

Models 602, 704, 704A, 704B XC1860-R.F. Coil No. 4365.


Litz wire coils on ${ }^{13} /$ /t $^{\prime \prime}$ diameter forms, $214^{\prime \prime}$ long. Mounted in shields $1^{\prime \prime}$ diameter, $21 / 2^{\prime \prime}$ long. Have mounting lugs. Designed for use with a .00036 mfd. condenser. Blue print furnished with each kit. For 4-Tube Set
2 Coils, 1 Ant., 1 R.F.
XH10045-List $\$ 1.75$
Your Cost.


For 5-Tube Set
3 Coils, 1 Antenna, 2 R.F.
XH10046
List $\$ 2.60$
Your Cost
s. 1.40 For 6-Tube Set
4 Coils, 1 Antenna, 3 R.F.
XH10047-
List $\$ 3.25$
Your Cost
$S 105$
X:510089-Antenna Coil only
Xris10090-R.F. Coil
only
Your Cost,
Either Type


## Final Close Out !

Majestic 175 Kc.

## 1. F. Coil

Can be used in Majeatic or any other 175 Kc I.F. trang175 Kc . F. F. translormers. Each sec-

tion accurately
wound and perfectly insulated. On genuine isolantite form. Inductance of each section approximately $40-$ mh. Every serviceman should keep a few in stock at all time
$\times H 10048$
Your Cost Each........

VICTOR Antenna Choke
Models R32, RE45, R52, RE75
Replacement Part No. 10444, for the above models. Consists of 150 turns of No. 34 wire, wound on a wooden spool. XH10122Your

## NATIONAL Coil Dope



An R.F. Iacquer apecially designed to give low power factor. For use as a cement for holding windings in position without affecting the low loss features of the coil form. Provides a tough protective film, seals surace pores and gives a moisture repellant aurface. To be applied with a clean brush. Dries quickly. In metal can. Shpg. wt. 1 lb . XP15237 Your Cost

## Each.

## sUTVow.

## YOULL PAY mORE LATER

## Timitest

Small Eared Coils and Forms

New small short wave coils wound on brown bakelite forms equipped with ears for handling. Three H. F. coils are spaced wound, two being wound with plated wire. Each coil individually color coded. Ranges: 10-21; 20-41; 40-81; and 80-200 meters with .00014 mfd condenser. 4 coils to set. XH10040. Set of 4 coils.
Your Cost
Two broadcast coils- 18
XH10041-Your Cost
Ultra short-wa ve coil-9.5 to 21 ..........
XH10039-Your Cost
4 coils similar to above but with 6 prongs and having primary dary and tickler windings.
XH10042-Set of four. Your Cost
Two broadcast coils, similar to XH10041, but having thre like above.
XH10043-Set of two. Your Cost
Ultra short-wa ve coil- 9.5 to 21 meters, similar to XHiO039, b three windings.
XH10044-Your, Cost Each
Coil Forms only, similar to above, but no winding.
Xh10060-4-prong. $\mathbb{\text { Your Cost Each..... Set of four } 4 \text { -prong forms }}$ XH100c1 5 prong Your Cost Expeng. XH100 Cost Each.
Your cos-6-prong
Your Cost, Per Set.......
Set of four 6 -prong forms
Your Cost, Per Sett......
Set of four 6-prong forms.

VICTOR R.F. Coils Original Victor parts used in Models RE35, 39 and 57. No. 10817 is the antenna or link coil; No. 10830 is the
R.F. coil coupling two screen grid tubes. On fine bakelite forms. XH10107-Ant. Coil. Your Cost
Each
XH10109-R F C
Your Cost Each
Coil

## VICTOR R.F. Coil



Genuine part used in Models R32, RE45, R52, RE75. Part No. 10448. For. 1st, 3rd and 4 th R.F. stages. Shpg. wt. 1 lb . XH10054Your cost ISc

## $\star$ Low Sale Price

## these Trutest

Band Spread Coils
These Trutest coils are provided with adjustable band-setting condensers mounted on top of each coil. Available for 20,40 , 80 and 160-meter Amateur bands, and for the $19,25,31$, and 49 -meter B.C. bands. For use with 140 or 150 mmfd. tuning condenser. These coils offer the most practical method for spreading these bands over the entire tuning dial. Forms have five prong bases.
Stock Meter Stock Meter No. Band No. Band $\mathrm{XH9973}$
$\times \mathrm{H} 974$

19

## XH9975

XH9976
Your Cost Any Type, Each.


## New Clip-Tite Bakelite



## Sockets

A new type sturdy socket madeot moulded bakelite. Has long contacts which grip tube pins firmly. Socket mounts in special adapter plate and is held in place by a locking ring. Slotted mounting holes permit replacing of any socket having rom 13 to 2-inch mounting centers.

Stock Prongs Stock
Prong
XM13057 4 XM13060 7, large XM13058 5 XM13061 7, small XM13059 6
Your Cost Each, Any Type.
It's Time To Buy! Bargain!

many uses in radio circuits. Have wood cores and are provided with tinned leads for easy solder connections. Minimum distributed capacity. All accurately rated. XH10146-2 M. H.,
Type B
Your Cost Each.
XH10148-8 M. H., Type A Your Cost Each.

## LimitedQuantity

465 K. C. Midget I. W.

## Transformers

XH10150-Midget double tuned I.F. Transformer Compact type used in most late type receivers Dimensions $13 / 8^{\prime \prime}$ diameter, $25 / 8^{\prime \prime}$ high. New alloy shield. Due to precision winding, these units provide exceptionally high gain. Trimmer condensers have genuine isolantite bases, and are tuned from the top of the assembly. It's small size makeas t particulary well suited for use in Auto Radio Receivers. Shpg. wt. 1 lb.
XH10151-The model illustrated at the right is similar to the above but is $136^{\prime \prime}$ in diameter and $3^{\prime \prime}$ high. This model is used in larger receivers and is particularly suitable for all-wave and short-wave receivers. Shpg. wt. 1 lb . Your Cost,
Special,
Either Type


## $\star$ Priced Low! $\star$

## Trutest Tube Base

 S. W. Coils
## A new and nove

 addition to the Trutest line of shortwave equipment Although midget in size, however, they are highly efficient in operation. All have fourprong bases. Shpg. wt. 1 lb . XH9981-Set of four coils, 15 to
200 meters. Your Cost, Special.
$45^{\circ}$

# GOOD WS FOR SHORT WAVE <br> <br> ENERS 

 <br> <br> ENERS}

Convert Your Present Set into an All Wave Receiver with the

## Lafayelte

## , Short Wave Converter

This Lafayette Short Wave Converter was designed solely for the purpose of offering to the radio trade a converter both easy to install and operate and highly efficient in operation. Circuit employs four tubes as follows: one 6C6 as first detector and modulator; one 6D6 as I.F. amplifier; one 76 as oscillator and one 80 rectifier. Power supply is built in. For $50-60$ cycles, $105-125$ volts A.C. Covers the range from 13 to 200 meters in four steps: from 1.5
 to 3.3 from 6.0 to 12.5 and from 11.0 to 23 Megacycles.

## Easy to Operate and Install

Installation consists of connecting two wires; one to antenna and one to ground post of the receiver with which converter is used. Operation consists of selecting desired band by means of a band switch, and tuning by means of Vernier tuning dial. Dial affords an 8:1 reduction and is calibrated in megacycles.

Provision for Doublet Antenna
Two binding posts on rear of chassis provided for doublet antenna. Single wire antenna may also be used. Unit housed in metal chassis floished in black crystalline. Size $10^{\circ}$ long, $71 /^{\prime \prime}$ wide and $7^{\prime \prime}$ high. Shpg. wt: 15 lbs .


Beautiful modern cabinet with burl walnut center, striped walnut inserts and attractive carved base.
XP15914-Lafayette S. W. Converter
lese
tubes.
Your cost
Ypic XP15953-Lafayette S. W. Converter in cabinet, less tubes. Your cost ............. $\$ 23.45$ Set of Matched Tubes for above
Your Cost............... $\$ 1.55$

## New! Short Wave Station Finder

## Makes Shortwave Tuning Easy

Up to the present time, beat note osciliators on the market have been of a radio frequency nature. These Station Finders, however, have been uniquely designed to produce an audio frequency note. They are completely independent of the intermediate frequency used in the receiver, and thus eliminate any possibility of reaction in the I.F. circuits. The units operate with a single tube which secures its necessary power from the receiver with which the Station Finder is used. It produces a clear 450 cycle note, which is almost inaudible until a station is tuned-in, when it becomes very loud, A toggle switch is then thrown to the "off" position and the station is left accurately tuned-in. Besides being useful as a station locater, this unit is excellent for clarifying low pitched CW signals and making them unibs excellent for clarifying low pitched C. Wignals and making them legible. Switch with 18 leads provided. Units furnished with six
prong wafer sockets as standard equipment. No changes in receiver prong wafer sockets as standard equipment. No changes in receiver
wiring necessary to install the "Finder." Uses a 27 or 56 when set wiring necessary to install the "Finder." Uses a 27 or 56 when set
uses a 58 in the first I.F. or R.F. stage and a 37 when set uses a 78. Full instructions for installation in any type set, whether TRF, Superheterodyne or Short Wave Converter, included with each unit. Size $3 \times 3 \times 5{ }^{7}$. Shpg. wt. 3 lbs. XN14143 Station Finder, less tube
Your Cost. .
s4.50
NOTE: Be sure to specify type of set and type of tubes when ordering. Units with five prong adapters available on order.

## HOYT Hot Wire Ammeters



High grade meters known for their accuracy. Ha ve jewelled movements. $3^{\prime \prime}$ overall diameter; mount in a $21 / 4^{\prime \prime}$ panel hole. Shipping weight 1 lb .
X $J 10445$-Range $0-1.5$ amperes - 10446 -Range $0-3$ amperes Your Cost Each, Any Type.

[^2]
## Thake a PROFESSIONAL JOB of YOUR Equipment

Standard Relay Racks and Rack Panels
Finished in black crystallized lacquer, for use with standard $19^{\prime \prime}$ long panels and are accurately drilled standard 19 " long panels and are accurately drilled
for mounting screws every $13 / 4$. Holes tapped for for mounting screws every $13 / 4^{n}$. Holes tapped for
$10 / 32$ thread. Substantially braced base to prevent wobble and to keep units in correct alignment For Transmitters or Public Address Systems. Steel rack panels are slotted for mounting screws at ends.
 These are the same types of panels and racks that are used in our own transmitters, they are NOT cheap flimsy ones built down to a price! It pays to buy a good rack.

## Relay Racks

Stock No. H. W. D. Shpg. Wt. Your $\begin{array}{llllll}\text { XY22150 } & 6 \mathrm{ft.} & 193^{\prime \prime} & 16^{\prime \prime} & 60 \mathrm{lbs} . & \$ 10.75 \\ \text { XY22151 } & 3 \text { ft. } & 19 \%^{\prime \prime} & 16^{\prime \prime} & 30 \mathrm{lbs} & 80\end{array}$

Steel Rack Panels $19^{\prime \prime}$ Long


FRONT PANEL ACCESSORIES

Dials (4" Diam.)
Highly polished
aluminum scaleswith etched figures. $118^{\prime \prime}$ mtg. centers. Marked: Amplifier Plate; Amplifier Grid; Oseillator; Andenna; B
XH9858-Your Cost,
Any Type.


Similiar to above, but $2^{\prime \prime}$ " diameter. Marked: Neutralization; Blank. Specify type. XH9857-Your Cost, EitherType.
.30 Same, but $28 / /^{\prime \prime}$ in diam. AlumiTone; Voles on black. Marked: ton Current. Specify type desired.
XH9859- Any Type $10^{c}$

## Indicator Knobs

Black bakelite. $23 / 8$ " diam. For $1 / 4^{\prime \prime}$ shafts.
XH9895.
Your Cost Each
Same as above, but il 13 XH9896-
Your Cost Each.

Indicator Plates Rectan-
gulara-
luminum SPEAR2R O
plates, plates,
Black background, aluminum figures. Marked: Filament-1st On -2nd OH; Plate-2nd On-18t Off; Oscillator Plate Current; Amplifier Gria Current; Buffer Plate Current; Amplifier Plate Current; Modulation Indicator; Speaker; Phono Pick-up or Radio Input; Amplifier Screen Current; Antenna Feeder Circuit; Output-Grd-Grid. Specify marking desired. XH9898-
Your Cost Each
Any Type.

## Each

milar to the above, but $2^{\prime \prime}$ Marked: Microphone 2 long. Gnd-Button; Low Imp Line-Gnd-Line. Specify type. XH9897-
Your Cost, Either Type $1{ }^{\text {c }}$

## Circular Plates

Circular plates similar to above $1^{\prime \prime}$ diam., 1/0" hole. Marked: Mike-Phono; Cell-Disc; AdjustCell Voltage; On-Off. Specify marking.
XH9899
Your Cost, Any Type. . I( ${ }^{\circ}$


[^0]:     A more complete listing of Brunswick parts will be found on page 44 of Catalog 56. We can supply practically any part not shown. Write, giving description and we will quote.

[^1]:     A complete listing of carbon resistors and voltago dividers will be found on pages $131,132,133,134$
    135,136 in Catalog 56.

[^2]:    
    For a complete listing of all Short Wave sets and parts, refer to pages 49 to 68 in Catalog 55 . A complete Iisting of P.A. equipment will be found on pages 69 to 91 in Catalog 56. For a complete listing of Transmitting and Ham Supplies see our 192 page crmplete Catalog 56 .

