

RADIO SUPPLY COMPANY

« PRESENTS »

FOR YOUR CONVENIENCE
A POCKET GUIDE TO
MODERN RADIO, SOUND,
AND TELEVISION PARTS

•
ONLY ONE STORE

**912-914 SO. BROADWAY
LOS ANGELES, CALIF.**

H. A. DEMAREST, Pres.

Cable address: "HAD, Los Angeles"

PHONES VAndike 3170 - 3178 - 3179
OPEN EVENINGS UNTIL 9 P.M.

•
**THE LARGEST AND OLDEST RADIO
PARTS JOBBER WEST of CHICAGO**

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RADIO SUPPLY CO.

912-14 South Broadway, LOS ANGELES, CALIF.

IN THIS CATALOG we have endeavored, for your convenience, to group radio merchandise of the same type under the heading where they can be easily found. For example, you will find all condensers together, all transformers together, all plugs together, etc. This enables you, at a glance, to choose between the different types.

We maintain here, AT YOUR COMMAND, an enormous, complete stock of the latest nationally advertised radio merchandise obtainable. This covers every phase of the business: BROADCAST RECEPTION, TRANSMITTING, SHORTWAVE, PUBLIC ADDRESS, THEATER SOUND EQUIPMENT. No dealer, engineer, amateur or set builder need send elsewhere for any standard part as time and money will be saved by placing your orders here, where they will receive our most careful attention.

Whenever you are interested in any item not listed in this catalog, write or call us. We shall be very glad to supply any information possible and give definite quotations.

A staff of HIGHLY TRAINED TECHNICIANS is at your service to help you solve your problems.

Our MAIL ORDER department is well equipped to handle shipments to any part of the country and we pride ourselves on the promptness with which all orders are filled. ALL MAIL ORDERS are shipped the SAME DAY the order is received, NO DELAYS.

PRICES in the catalog are manufacturers' list prices. If you are entitled to trade discounts, apply for DISCOUNT SHEET, showing proper credentials at time the request is made.

All merchandise sold by us is strictly NEW, FIRST CLASS and GUARANTEED against any defects by the Manufacturers and Ourselves.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Unless you have established an open account with us, all orders will be shipped C.O.D.—which earns a CASH DISCOUNT of 2%. If you remit with your order, deduct the 2%. Shipments made by Parcel Post, Express or Truck. If shipment is requested by Parcel Post be sure to include transportation charges in your remittance. Place your orders carefully and often. Small orders receive as much attention as large ones. See that your correspondence is directed to the correct address, and remember—when your order goes to the RADIO SUPPLY COMPANY the best possible SERVICE IS ASSURED BY THE

LARGEST AND OLDEST RADIO
PARTS JOBBER WEST OF CHICAGO

Discount Sheet

1933 Catalog

All items marked "A" in catalog are subject to 10% Dis.
 All items marked "B" in catalog are subject to 15% Dis.
 All items marked "C" in catalog are subject to 20% Dis.
 All items marked "D" in catalog are subject to 25% Dis.
 All items marked "E" in catalog are subject to 30% Dis.
 All items marked "K" in catalog are subject to 33 1-3% Dis.
 All items marked "F" in catalog are subject to 35% Dis.
 All items without a mark are subject to 40% Dis.
 All items marked "I" in catalog are subject to 50% Dis.
 Items marked "N" are Net, subject to no further discount.

BURGESS BATTERIES

	Net Price Single	Net Price each in Unit Pkg.	Quantity Unit Pkg.
6A	.45	.36	25
2370	.35	.27	10
5360	.40	.31	10
5540	.75	.58	10
4156	1.25	.97	10
5156	1.25	.97	10
2308	1.50	1.17	6
5308	2.00	1.54	5
10308	2.00	1.54	6
22308	1.95	1.51	6
21308	2.95	2.28	5

NOTE: The following merchandise is NOT subject to 2 per cent cash discount:
 Weston Meters, Jewell Meters, American Beauty Soldering Irons.

RADIO SUPPLY COMPANY

912-14 So. Broadway

LOS ANGELES, CALIF.

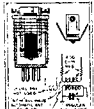
TELEPHONES, VAndike 3170 - 3178 - 3179

AERIALS AND GROUNDS

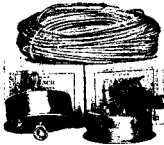
TALKING TAPE, 50-ft. roll.....	.60F
TALKING TAPE, 100-ft. roll.....	1.00F
STA-PUT Aerial Tape, adhesive on one side, per roll.....	1.00
YAHR-LANGE Ball Antenna, without base.....	4.75
YAHR-LANGE Base for Ball Antenna.....	.50
PREMAX Copper Ground Rod, GR4, 4 ft. long.....	.35
PREMAX Copper Ground Rod, GR6, 6 ft. long.....	.55
INSULINE No. 347 Antenna for Automobile Radio.....	3.00
TOBE 4 Purpose Light Socket Aerial.....	1.50



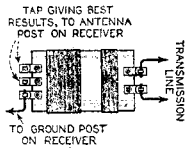
Lynch Doublet Kit



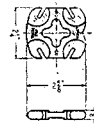
All Wave Coupler



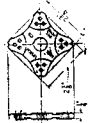
Lynch No-Stat



Lynch Universal Coupler



Transposition Block



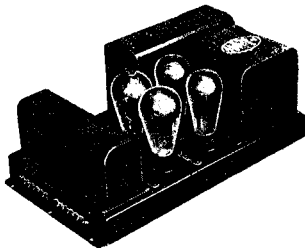
Cage Spreader

LYNCH Transposition Blocks, Kit of 10.....	2.50
LYNCH Cage Aerial Spreaders, Kit of 10.....	2.50
LYNCH Antenna Coupler all Wave.....	1.50
LYNCH Universal All Wave Antenna Coupler.....	1.00
LYNCH Short Wave Doublet Antenna Kit.....	5.00
LYNCH No Stat Kit.....	5.00
TOBE-DEUTSCHMANN No. 33 Filterizer Kit.....	4.65
RESONNANT ANTENNA KIT, Broadcast.....	8.50
RESONNANT ANTENNA KIT, All Waves.....	10.00
INTERFERENCE Antenna Couplers with Lead-in.....	5.00
ELECTRA, Antenna Noise Filter.....	3.50

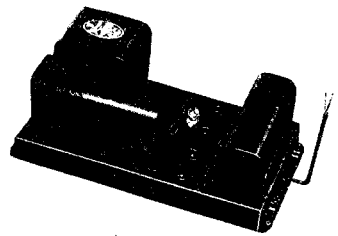
AMPLIFIERS



6023-JA



A-350

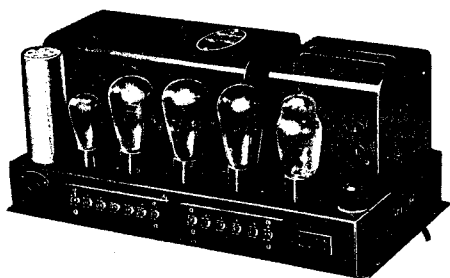


B-37-50

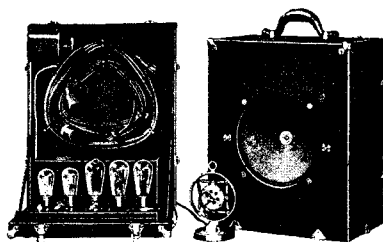
WEBSTER ELECTRIC CO.

B-37-50. A 3 stage 250 pushpull amplifier which will handle 5 large dynamic or about 25 magnetic speakers nicely. Its power consumption is 175 watts and undistorted output 15 watts. Uses 2 '27s, 2 '50s and 2 '81s. Less tubes.....	150.00
6023-JA Amplifier. A single position portable battery operated mike amplifier using 1 '30 tube. B batteries are self-contained. Input for standard 2 button mike and high impedance pickup. Weight 25 lbs. Less tubes.....	85.00
A-350 Power Stage using 2-250 and 2-281, to be used with radio or small power amplifier delivering 15 watts undistorted power output. Less tubes.....	92.50

AMPLIFIERS—Continued



6056-R



Pas-50

- PAS-347.** Portable amplifier using 2-227 or 2-256, 2-247 and 1-280, complete with microphone, speaker, cables and carrying case. Power output 6.5 watts. Less tubes..... 155.00
- PAS-50.** Portable amplifier using 1-235, 1-227, 2-250, 2-281, complete with microphone, speaker, cables and carrying case. Power output 15 watts, arranged to drive additional speakers. Less tubes..... 205.00
- 6056-R.** New class "B" amplifier 4 stages, using 1-35, 1-56, 1-45, 2-46, and 1-83 rectifier, has an amplification of 77 D.B. gain, undistorted power output: 36.4 D.B. or 26 watts; output impedances 2, 4, 8, 16, 250 and 500 ohms, two taps may be used simultaneously less tubes..... 125.00
- WEBSTER Rack and Panel Amplifiers,** 15 to 56 watts output.
Suitable for schools, hotels, auditoriums, hospitals or any place where sound must fill large spaces. Prices on application

BAKELITE

- SHEET BAKELITE***, Walnut or Black $\frac{3}{16}$ " thick, per sq. in.02 1/2
- See "Panels" for stock sizes.

BAKELITE TUBING

$\frac{1}{2}$ " OD per foot.....	\$.60	2 " OD per foot.....	.90
$\frac{3}{4}$ " OD per foot.....	.60	2 $\frac{1}{2}$ " OD per foot.....	1.00
1 " OD per foot.....	.65	2 $\frac{3}{4}$ " OD per foot.....	1.10
1 $\frac{1}{4}$ " OD per foot.....	.70	2 $\frac{3}{4}$ " OD per foot.....	1.20
1 $\frac{1}{2}$ " OD per foot.....	.75	2 $\frac{7}{8}$ " OD per foot.....	1.20
1 $\frac{3}{4}$ " OD per foot.....	.85	3 " OD per foot.....	1.30

Other sizes in proportion.

- BAKELITE** solid rod $\frac{1}{4}$ - diameter, per inch..... .05

BATTERIES

- METRO**, 45 volts, regular..... .80N
- BURGESS***
- | | | | |
|---------------------------------------|--------|-----------------------------|------|
| 6A 1 $\frac{1}{2}$ volt Dry Cell..... | \$.45 | 5308 45 volt Portable..... | 2.00 |
| 2370 4 $\frac{1}{2}$ volt C..... | .35 | 2308 45 volt Regulator..... | 1.50 |
| 5360 4 $\frac{1}{2}$ volt C..... | .40 | 10308 45 volt HD..... | 2.00 |
| 5540 7 $\frac{1}{2}$ volt C..... | .75 | 22308 45 volt Super..... | 1.95 |
| 4156 22 $\frac{1}{2}$ volt B..... | 1.25 | 21308 45 volt Super HD..... | 2.95 |
| 5156 22 $\frac{1}{2}$ volt B..... | 1.25 | | |

GENERAL MIDGET BATTERIES

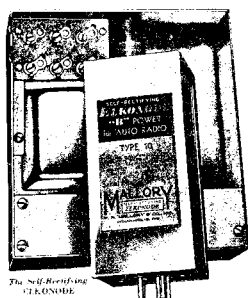
- P-2-X, 3 volt for "A" circuit $2\frac{5}{8}$ "x1 $\frac{3}{8}$ "x4 $\frac{1}{2}$ ". Weight 13 ounces..... .35N
- P-2-KX, 3 volts for "A" circuit $3\frac{1}{2}$ "x1 $\frac{1}{4}$ "x4 $\frac{1}{2}$ ". Weight 1 $\frac{1}{2}$ pounds..... .60N

BATTERIES—Continued

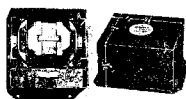
PHILCO UD44. 4 volt Storage Battery in Glass Case.....	7.50E
PHILCO UD96. 6 volt Storage Battery in Glass Case.....	13.90E
See "Battery Eliminators" for B Philcotrons, etc.	
REPUBLIC 6 volt 13 plate 100 ampere Storage Battery.....	10.00

BATTERY ELIMINATORS

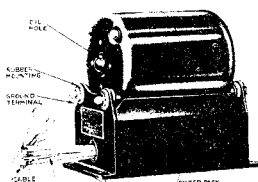
NATIONAL 5880-AB. Completely wired power supply for use with National ACSW5 and ACSW3 Thrill Box. Less tube.....	34.50
5880 ABS. Completely wired power supply for use with National ACS45 and ACS58. Less tube.....	39.50
NATIONAL 5887 AB. Completely wired power supply for use with National FB-7, less tube.....	24.50
UNIVERSAL 60. Operates from 6 volt D.C. to 110 volt AC and has an output of 60 watts. Battery drain 90 watts (6 volts at 15 amps.).....	28.00



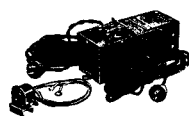
Mallory "B-1"



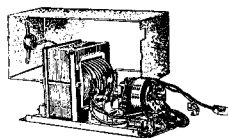
Pioneer Gene-Motor "B"



Emerson "B-1"



No. 250 Charger

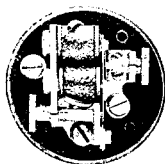


Universal No. 60 Converter

MALLORY Eliminator for Automobile Radios 180 volts 40 mills.....	17.50
EMERSON B. Power Unit for Automobile Radios 180 Volts 40 Mills.....	19.50
ELECTRON Auto-B Kit 180 Volts 40 Mills.....	14.00
PHILCO K463 Replacement charging jar for 6 volt units.....	4.00E
K458 Replacement charging jar for 4 volt units.....	3.00E
K457 Replacement B Cells, each.....	1.00E

BATTERY CHARGERS

KODEL KUPROX Units:	
A-110 Replacement unit for Balklite and similar chargers.....	2.50N
AR-3 Replacement unit for Philco charging jars.....	2.50N
MALLORY No. 250 Automobile battery charger rated 2.5 amps.....	10.00



Federal

BUZZERS

SIGNAL Type R60, High Frequency Buzzer.....	1.25
SPEED-X No. 400.....	1.00
FEDERAL High Frequency buzzer having 2 adjustments...	3.00E

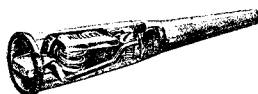
BATTERY CLIPS



21-A



24-A



29 Insulator



48-B



27



45

UNIVERSAL:

No. 21A Lead Coated $3\frac{3}{4}$ " long; jaw spread $1\frac{1}{2}$ "	.20
No. 24A Lead Coated $2\frac{1}{2}$ " long; jaw spread $1\frac{1}{2}$ "	.10
No. 27 Cadmium Plate. $2\frac{1}{4}$ " long; jaw spread $\frac{9}{16}$ "	.12½
No. 48B Cadmium Plated $1\frac{3}{4}$ " long; jaw spread $\frac{9}{16}$ "	.05
No. 45 Pee Wee Cadmium Plated $1\frac{1}{2}$ " long; jaw spread $\frac{3}{16}$ "	.05
No. 23 Rubber Insulator for No. 21A Clip	.23
No. 26 Rubber Insulator for No. 24A Clip	.16½
No. 29 Rubber Insulator for No. 27 Clip	.09½
No. 47 Rubber Insulator for No. 45 Clip	.06
SHERMAN Battery Connectors; for Dry Cells, per C	1.75N

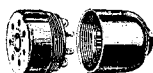
BATTERY CABLE

CABLE IN BULK:

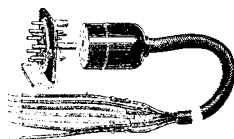
3 Wire, per C feet	\$ 5.00	8 Wire, per C feet	\$ 13.00
4 Wire, per C feet	6.00	9 Wire, per C feet	15.00
5 Wire, per C feet	7.00	10 Wire, per C feet	17.00
6 Wire, per C feet	8.00	12 Wire, per C feet	18.00
7 Wire, per C feet	9.00		

YAXLEY Cable Connectors:

660 7 Conductor with 5 ft. cable, base mounting	3.00
670 Like 660 but for use on sets with binding posts	3.25
612 Like 660 but has 12 conductors, two pair being twisted for AC leads, cable length 4 ft.	5.00



645



660



680



635

YAXLEY Cable Connector Parts:

7 Conductor		12 Conductor	
645 Receptacle Plug	\$ 1.00	615 Receptacle Plug	1.25
650 Rec. Plug and 5 ft. cable	2.25	682 Mounting Plate	1.00
680 Mounting Plate	.75	625 Pin Plug	1.25
635 Pin Plug	1.00		
4 Conductor			
645-4 Recp. Plug	\$.90	635-4 Pin plug	\$.90
		680-4 Mtg. Plate	.65

BRACKETS

BENJAMIN Adjustable Brackets, 9029, per pair	.50N
YAXLEY 310 Pilot light bracket with colored jewel	.50

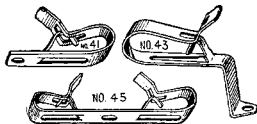
BINDING POSTS



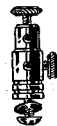
Ensign



Commander



Fahnstock



Ajax Double

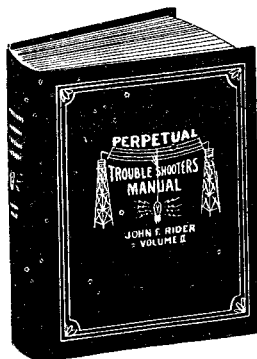


Ajax Single

EBY Ensign Posts.....					.15
EBY P-4 Insulated binding posts, each.....					.20
EBY Commander posts. Plain tops, heavier than Ensign.....					.25
AJAX Single nickel post, each.....					.05
AJAX Double nickel post, each.....					.12
FAHNESTOCK Spring Clips:					
No. 41 per C.....	\$	.85	No. 43 per C.....		1.25
No. 42 per C.....		1.10	No. 45 per C.....		3.50

BOOKS

RADIO PHYSICS COURSE—2nd Edition.....	3.50N
AMATEUR Radio Call Book.....	1.00N
DUNCAN & DREW "How to Pass U.S. Govt. Radio License Examinations"....	2.00N
ARRL "How to Become a Radio Amateur".....	.25N
ARRL Radio Amateur Hand Book.....	1.00N
Mathematics of Radio—Rider.....	1.75N
A.B.C. of Radio.....	.25N
NILSSON & HORNING "Radio Questions & Answers" 5th Edition.....	2.50N
RIDER'S Trouble Shooter's Manual, Volume No. 1.....	5.00N
RIDER'S Trouble Shooter's Manual, No. 2.....	5.00N
RIDER'S Trouble Shooter's Manual, Volume No. 3.....	7.50N
RIDER'S No. 1 Radio Service Questions and Answers.....	1.00N
Servicing Receivers by Means of Resistance Measurement.....	1.00N
Practical Testing Systems.....	1.00N
Servicing Superheterodynes.....	.95N
Modern Radio.....	.15N
GHILDARDI Radio Service Course.....	1.50N
Q. S. T.....	.25N



VOLUME III



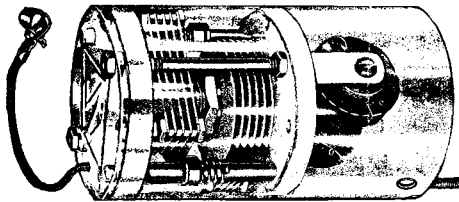
BOOKS—Continued

RADIO NEWS.....	.25N
SHORT WAVE CRAFT.....	.25N
RADIO CRAFT.....	.25N
RADIO WORLD.....	.15N
NATIONAL ULTRA SHORT WAVE BOOK.....	.25N

COILS



Hammarlund I.F.



National Air—Dielectric I.F.



National



Pacent

BRANSTON and PACENT Honeycomb Coils:

UNMOUNTED

25 Turns.....	\$.50	400 Turns.....	1.20
35 Turns.....	.55	500 Turns.....	1.40
50 Turns.....	.60	600 Turns.....	1.55
75 Turns.....	.60	700 Turns.....	1.80
100 Turns.....	.65	750 Turns.....	1.80
150 Turns.....	.75	1000 Turns.....	2.20
200 Turns.....	.80	1250 Turns.....	2.70
250 Turns.....	.95	1500 Turns.....	3.20
300 Turns.....	1.05		

MOUNTED

25 Turns.....	1.40	400 Turns.....	1.90
35 Turns.....	1.40	500 Turns.....	2.20
50 Turns.....	1.50	600 Turns.....	2.35
75 Turns.....	1.50	700 Turns.....	2.55
100 Turns.....	1.65	750 Turns.....	2.60
150 Turns.....	1.70	1000 Turns.....	2.85
200 Turns.....	1.75	1250 Turns.....	3.30
250 Turns.....	1.80	1500 Turns.....	3.85
300 Turns.....	1.85		

PREMIER Conoil Coils, Nos. 7, 8 or 9, each..... .25N

BAIRD Octocoils for shortwave-television. Set of four, 15-200 meters..... 5.00

NATIONAL Type R-39 Inductances for shortwave work. Same as SW5 receiver is equipped with:

Nos. 11, 12, 13 and 14, Black, red, white and green respectively covering 14.5-25; 23-41; 40-70 and 65-115 meters (used in pairs), per pair.....	5.00
No. 15. Blue, covering from 115 to 200 meters.....	5.00
Nos. 10, 16 and 17, Brown, Orange and Yellow respectively covering 9-15; 200-360 and 350-550 meters (used in pairs), per pair.....	5.50
Nos. 11A, 13A, 14A, Band-spreading coils for the 20, 40, 80 and meter band, per pair.....	4.75
Nos. 61A, 63A, 64A, Band-spreading coils for the 20, 40, 80 meter band, for use in SW 58.....	4.75
No. 18, 550-850 meters, per pair.....	6.50
Nos. 19, 20 and 21, covering respectively 850 to 1200 meters, 1200 to 1500 meters, 1500 to 2000 meters.....	8.00

COILS designed for use with National AC SW58 Nos. 65, 66, 67 covering respectively 115 to 200 meters, 200 to 360 meters, 350 to 550 meters, per pair.... 5.50

No. 68 covering from 500 to 850 meters, per pair..... 6.50

COILS—Continued

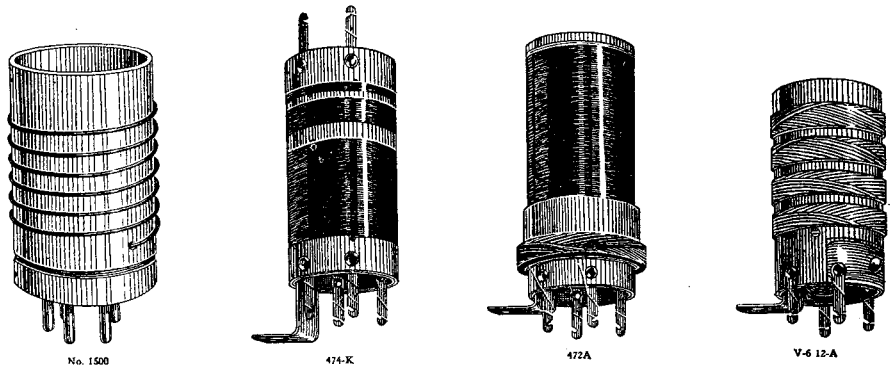
NATIONAL Coils for FB-7 regular and bandspread:

AB 20	20 meter bandspread	per pair.....	10.00
AB 40	40 meter bandspread	per pair.....	10.00
AB 80	80 meter bandspread	per pair.....	10.00
AB 160	160 meter bandspread	per pair.....	10.00
FB A	19500 to 11400 Kc	per pair.....	10.00
FB B	11700 to 7000 Kc	per pair.....	10.00
FB C	7300 to 4000 Kc	per pair.....	10.00
FB D	4200 to 2400 Kc	per pair.....	10.00
FB E	2500 to 1500 Kc	per pair.....	10.00

NATIONAL AIR DIELECTRIC Tuned I.F. Transformer Double bearing Precision Condensors, selflocking rotors, adjustable coupling, Litz Wound Coil, 450 to 550 Kc Turning range..... 5.00

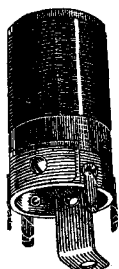
We carry in stock ALL COILS TRANSFORMERS and CHOKES for SINGLE SIGNAL SUPERHETERODYNE as specified by Q. S. T.

MILLER COILS and Superheterodyne Transformers:

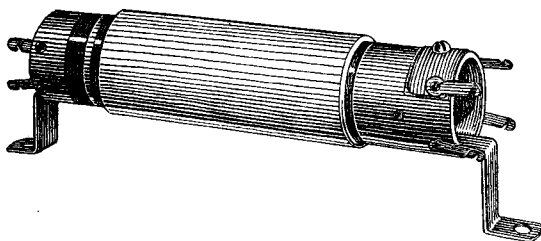


- No. 1500-SW. A high quality shortwave plug-in coil with slot pri. and space wound sec. Excellent for screen grid det. 4 or 5 prong. Size 1½"x2¼". 5 coils cover from 13 to 495 meters with .00014 cond., each..... .85
- No. 1250-SW. Moulded bakelite shortwave plug-in coil. Ideal for receivers with stage shielding. 5 coils cover from 13 to 300 meters with .00014 cond. Size 1¼"x2¼", each..... .75
- 472-A. Ant. coil for use in TRF or super circuits with duo-lateral primary resonating below the broadcast band. Sec. space wound on threaded bakelite. Coupling turns are provided to prevent loss of high frequencies. Requires 2¼"x3" shield and .00035 cond. Size 1"x2½"..... .75
- 472-RF. RF Coild similar to 472-A, for use in TRF or super circuits, with duo-lateral primary placed at zero coupling, and peaked at 500 KC for increased signal strength at low frequency end. Coupling turns are provided to prevent loss at high frequencies for .00035 cond. and 2¼"x3" shield..... .65
- 471-A and 471-RF. Same as 472 but for use unshielded. Size 1"x2½"..... .65
- 474-K. Oscillator coil, with cathode coupling winding, for 175 KC I.F. Used with 472 or 474 type ant. and RF coils. Requires padder of .001 mfd. .00035 variable cond., and 2¼"x3" shield. Size 1"x2" on bakelite form..... .50
- 474-C. Same as 474-K, but for 465 KC I.F. Requires .0005 padder..... .50
- V-612-A and V-612-RF. Special high gain ant. and RF coils for aircraft, beacon, and weather report receivers, with plate to grid coupling cond. assembled on coils. For use with short ant. Covers from 600 to 1250 meters with .00035 cond. Requires 2¼"x3" shield. Size 1"x1¾" on bakelite form..... 2.10
- V-612-D. Special tuned full wave Diode det. input coil for use with V-612-A and V-612-RF. Size overall 1"x2¾". Takes .00035..... 2.40

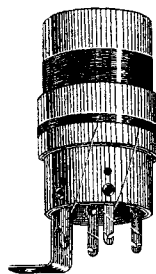
MILLER COILS—Continued



474RF

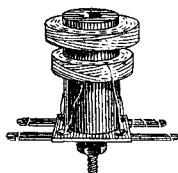


590TRK

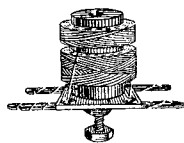


20-A

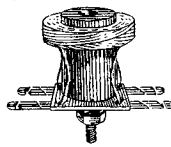
20. "Pee Wee" type ant. and RF coils on cardboard form 1"x1 3/4". For small 4 tube TRF sets. Covers from 1725 to 565 KC with .00035 cond.25
77. Same as No 20 but for 2 1/4"x3" shield cans. Size 1"x2 1/8"25
- 474-A. Ant. coil specially designed for auto sets. Is similar to 472-A, with high impedance primary resonating below broadcast band. Has adjustable mica coupling cond. to prevent loss at 1500 KC end. Requires .00035 cond. and 2 1/4"x3" shield. Size 1"x2"70
- 474-RF. RF coil similar to No. 474-A with high impedance primary, and coupling cond. Size 1"x2". Requires 2 1/4"x3" shield.70
- 474-UT. Untuned RF unit for TRF sets to couple any screen grid or RF pentode to Diode det. Plate and grid windings require .02 mfd. external coupling cond. Has uniform amplification. For use with 2 1/4"x3" shield. Size 1"x2"75
- No. 21. A bi-filar type untuned RF transformer for screen grid tubes to cover the broadcast band.60
- No. 21-W. Same as No. 21 but designed to couple into a full wave det.70
- No. 61. A bi-filar type 175 I.F. trans. similar in construction to No. 21. Used where tight coupling is desired. Sec. should be tuned with a 140 mmfd. adjustable trimmer.65
- No. 61-W. Same as No. 61 but for full wave detector.75
- 590-A. Ant. coil with high impedance primary similar in construction to 472-A. To track with 590-TR. To be used unshielded with .00035 cond. Size 1"x2 1/4" on bakelite form.65
- 590-TRK. A superheterodyne translator unit consisting of det. and oscillator coils on one tube. Det. coil is same as 472-RF. The osc. section has space wound pri. and sec. for 175 KC I.F. with .00035 variable cond. and .001 padder. Size 1"x4 1/4" 1.25
- 590-TRC. Same as 590-TRK but for 465 KC I.F. and .0005 padder. 1.25
- 590-TRH. Same as 590-TRK but for 262 KC I.F. and .0006 padder. 1.25
- PP-A. Peter Pan type ant. coil with pri. spiral wound over full length of sec.30
- PP-RF. RF coil to track with PP-A. Has pri. wound on adjustable sleeve over lower end of sec. Both are for use with .00035 cond. and are 1"x2 1/4" with bracket.30



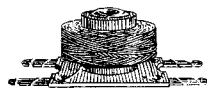
4249-C



4052-A



4052-C

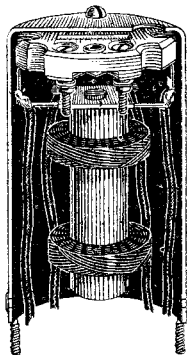


21

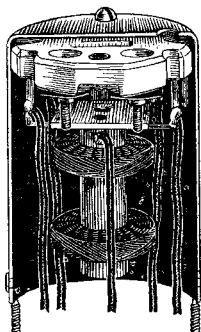
- 4249-C. A duo-lateral wound osc. coil for autodyne circuits, 465 KC I.F. and .0005 padder. Used with 36 or similar tube. Tracks with 4052 or 472 series ant. and RF coils.50

MILLER COILS—Continued

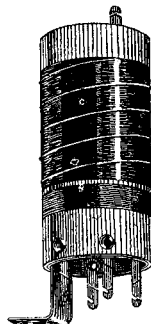
4249-H. Same as 4249-C but for 262 KC I.F. and .0006 padder.....	.50
4052-A. A Litz wound duo-lateral ant. coil. Size $1\frac{1}{2}" \times 1\frac{3}{16}"$. Uses .00035 variable.....	.50
4052-BP. A band pass unit with same ant. winding and physical size as 4052-A..	.55
4052-C. A duo-lateral oscillator coil for autodyne circuits and 465 KC I.F. Uses the 58 or similar tube. Tracks with 4052 and 472 series coils, using .00035 variable and .0005 padder. Requires no shield. Size $\frac{7}{8}" \times 1\frac{1}{8}"$	.50
4052-H. Same as 4052-C but for 262-KC I.F. and .0006 padder.....	.50



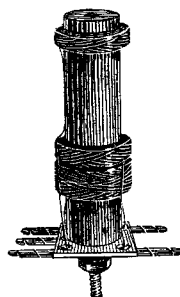
KOMPAK 312



STANDARD 212



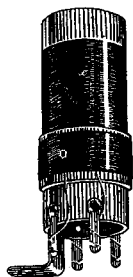
PPA



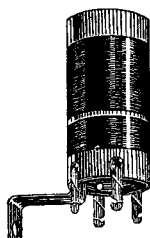
4052BP

312-1. One of the new "KOMPAK" series I. F. transformers for use as input in two or more 175 KC stages. Has copper ring for max. selectivity. Size complete with aluminum shield $1\frac{5}{8}" \times 2\frac{1}{2}"$	1.15
312-2. A Litz "KOMPAK" I.F. for second stage or as input or output of single stage.....	.115
312-W. A "KOMPAK" I.F. for input to full wave second det., either Wunderlich or Diode.....	1.30
312-3. Same as 312-W but for half wave Diode. When ordering please specify whether 175, 265, or 465 KC is desired.....	1.15
212-1. A "Standard" series I.F. transformer with copper ring. For use as input in two or more stages. Size $2\frac{1}{4}" \times 3"$	1.20
212-2. A Litz Wound IF for second stage or as input and output of single stage. Size $2\frac{1}{4}" \times 3"$	1.25
212-W. An I.F. for input to full wave second det., either Wunderlich or Diode. Size $2\frac{1}{4}" \times 3"$	1.40
212-3. Same as 212-W but for half wave Diode. When ordering please specify whether 175, 262, or 465 KC is desired.....	1.25
S-212-Q. Series 525 KC I.F. transformers have been designed especially for the amateur single signal receivers. All windings are Litz. Size $2\frac{1}{4}" \times 3"$. S-212-Q-1. Crystal Input.....	1.25
S-212-Q-2. Standard Input.....	1.50
S-212-Q-3. Inner-stage for use in second I.F. or det. stage.....	1.50
S-212-Q-W. Full wave Det.....	2.00
480-C. Oscillator coil for compact autodyne supers using 36 or similar 1st det. tube. For 465 KC I.F., .00035 cond., and .0005 padder. For use unshielded. Size $\frac{3}{4}" \times 1\frac{1}{2}"$ on bakelite. Tracks with RF and ant. coils of series 425, 472 and 474.....	.40
484-C. Cathode coupling type osc. coil for use with 36 or 56 osc. tubes. For 465 KC I.F., .00035 cond. and .0005 padder. Tracks with RF and ant. coils of 425, 472, 474 series. Used unshielded. Size $\frac{3}{4}" \times 1\frac{1}{2}"$ on bakelite.....	.45
4373-K. Oscillator coil for 36 or 58 autodyne det. tubes. For 175 KC I.F., .00035 cond. and .001 padder. Tracks with R.F. and ant. coils of 472 or 474 series. Used unshielded. Size $\frac{3}{4}" \times 1\frac{3}{4}"$ on bakelite.....	.45

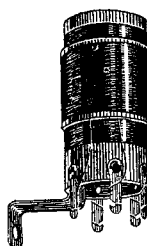
MILLER COILS—Continued



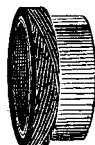
425A



430-C



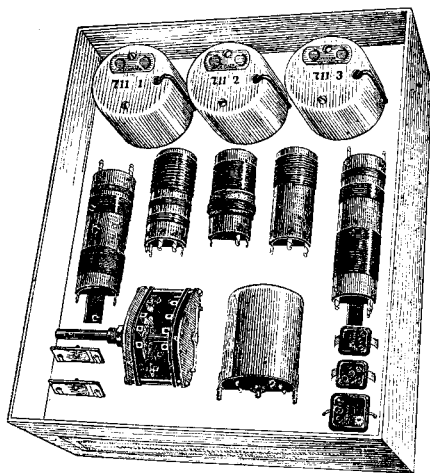
4373K



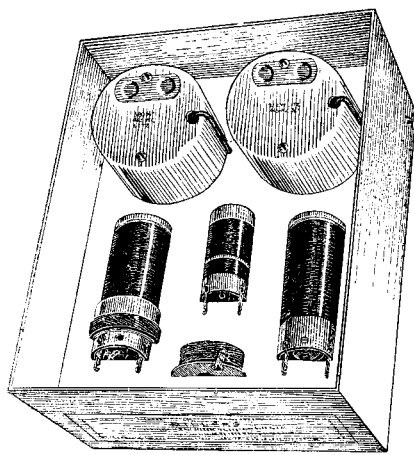
NO. 300

- | | |
|--|-----|
| 4373-H. Same as 4373-K but for 262 KC I.F. and .0006 padder..... | .45 |
| 4373-C. Same as 4373-K but for 465 KC I.F. and .0006 padder..... | .45 |
| 425-A. A compact ant. coil with adjustable primary. Shielded in aluminum can
1 5/8"x2 1/2". Requires .00035 cond..... | .40 |
| 425-RF. RF trans. to match 425-A with adjustable primary..... | .40 |
| 300. A separate duo-lateral high impedance type primary winding for attaching
to your own 1 1/4" OD sec. winding..... | .20 |
| 250. Same as No. 300 but for 1" coil forms..... | .18 |

COIL KITS



NO. 1012 AND NO. 1012



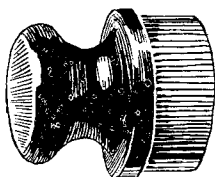
NO. 711 AND NO. 711

- | | |
|--|-------|
| No. 1012. A 10 tube all wave coil kit. Circuit included provides for minimum
image interference, trimmer or shortwave bands, a switch controlled auto-
matic sensitivity control, and A.V.C. on all bands..... | 15.00 |
| No. 711. A 7 tube all wave coil kit with same coils as No. 1012. Circuit also
the same but without sensitivity control tube and 1 power tube..... | 15.00 |
| 845-Super. A kit of handle type plug-in coils only, and circuit for a strictly
shortwave 7 tube super using I.F. of 525 KC..... | 8.00 |
| 1081. Complete coil kit for 5 or 6 tube auto-super. Circuit included provides
for autodyne det., A.V.C. and either 1-89 or the new 79 output tube..... | 5.00 |

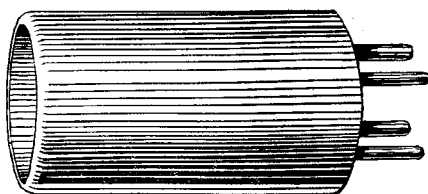
COIL FORMS



BUD



MILLER NO. 1254



MILLER NO. 1250-F



Hammarlund

PILOT 185 Form. 5 prong. $1\frac{3}{8}$ " dia. by $2\frac{1}{2}$ " long.....	.60
NATIONAL Forms. 4, 5, or 6 prong blanks, each.....	.75
NATIONAL Forms. R39 Midget, 4 prongs only.....	.50
INSULINE Forms. 4 and 5 prongs $2\frac{1}{4}$ "x $1\frac{1}{4}$ ".....	.17N
BUD No. 125 or 126. 4 or 5 prong blank forms, each $2\frac{7}{8}$ "x $1\frac{1}{2}$ ".....	.35
BUD No. 310. 6 prongs $2\frac{7}{8}$ "x $1\frac{1}{2}$ ".....	.50
HAMMARLUND. Isolantite equipped with black enameled wooden handle. 4, 5 or 6 prongs.....	1.00
MILLER 1250-F. Plug-in coil form $1\frac{1}{4}$ "x $2\frac{3}{16}$ ".....	.30
MILLER 1254. Plug-in coil handle.....	.20

CONNECTORS

MORSE No. 120 Flat extension cord connector.....	.20
NATIONAL Shield Grid Connector Cap only.....	.10
NATIONAL Shield Grid Connector Clip. Large.....	.20
WIZARD Shield Grid Connector Cap.....	.05
SPARKS Extension Cord Connector.....	.25
EAGLE Cord Connector.....	.20
POLYMET Extension Connector, SPECIAL.....	.08N

CHOKES

SILVER MARSHALL:

275RF Choke that operates on any wavelength up to 600 meters.....	.75
276RF Choke similar to 275 but operates from 600 meters up.....	.75
277RF Choke for shortwave between 10 and 200 meters.....	1.25
281U Choke. An unmounted choke coil 2 mh inductance used in 724 and 714 receivers.....	.65
SAMSON 85 RF Choke. 85 millihenries at 60 ma.....	2.00
SAMSON 125 RF Choke. 125 millihenries at 60 ma.....	2.25

THORDARSON:

R196 Single choke of 30 henries at 85 ma. case A.....	3.00
3647 30 Henry, 85 ma, 1500 ohms.....	1.50
T-1998, 27 Henries, 160 ma, DC resistance 190, case C.....	5.00
T-2376, 1.5 Henries, 200 ma, DC resistance 41, case A.....	3.00
T-2353, 8.1 Henries, 200 ma, DC resistance 100, case C.....	5.00
T-2071, 18.3 Henries, 150 ma, DC resistance 240, case D.....	10.00
T-2027, 23.5 Henries, 300 ma, DC resistance 134, case D.....	13.50
T-2073, 26.5 Henries, 500 ma, DC resistance 135, case D.....	17.00

THORDARSON CHOKES—Continued



Fig. B



Fig. D



Fig. E



Fig. C

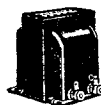
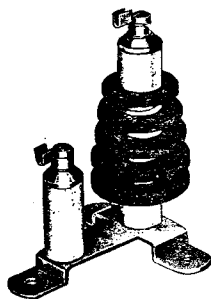


Fig. A



Fig. F

T-4451, 25	Henries, 150 ma, DC resistance 291, case B.....	10.00
T-4456, 25	Henries, 250 ma, DC resistance 140, case B.....	15.00
T-4461, 25	Henries, 750 ma, DC resistance 101, case B.....	50.00
T-2099, Double choke,	28.6 Henries, 130 ma, DC resistance 230, Case E.....	8.00
T-3099, Double choke,	27.3 Henries, 160 ma, DC resistance 190, case E.....	9.00
T-3100, Double choke,	15.2 Henries, 200 ma, DC resistance 125, case E.....	10.00



NATIONAL TRANS. R.F.C.



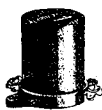
S.M. No. 275

Pilot
No. 131

National No. 90



National No. 100



Ham. R.F.C.



Ham. S.P.C.



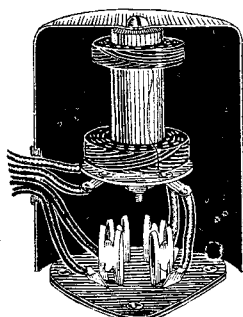
Ham. CH-8



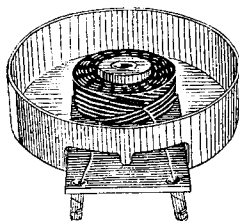
Ham. CH-500

NATIONAL 90 RF Choke plugs into standard leak mount, 90 millihenries.....	1.25
NATIONAL 91 RF Choke for S. W. 5.....	.70
NATIONAL 100 RF Choke, 2½ millihenry, 125 ma, 50 ohms.....	.75
NATIONAL RF CHOKE for Medium and High power transmitters. Inductance, 4 m.h., distributing capacity 1 mmfd. DC resistance 10 ohms, continuous current rating, .6 amp; intermittent current rating, .8 amp.....	2.25

MILLER CHOKES:



NO. 82



1000-S



MILLER RF CHOKE

MILLER CHOKES—Continued

610	100T	130 Micro-henries	.15
620	200T	880 Micro-henries	.15
630	300T	1,330 Micro-henries	.18
640	400T	2,400 Micro-henries	.20
650	500T	3,180 Micro-henries	.22
660	600T	5,700 Micro-henries	.25
670	700T	7,980 Micro-henries	.27
680	800T	10,620 Micro-henries	.30
690	900T	17,800 Micro-henries	.35
1000	1000T	20,000 Micro-henries	.40
1000S	1000T	Shielded. Size $2\frac{1}{8}" \times \frac{3}{4}"$	.50
1000 and 1000S especially recommended for super heterodyne second det. plate circuits.			
82. Contains 2 $4\frac{1}{2}$ milli-henry chokes and UX socket in shield can $1\frac{5}{8}" \times 2\frac{1}{4}"$ for 82 and 83 tube, rectifier plates.			
82-P. Same as 82 but unshielded.			
SICKLES, SCS-105, RF choke, 8 millihenries, shielded.			

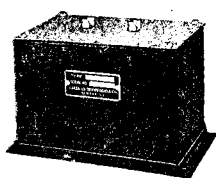
AMERTRAN:

Fig. 7



Fig. 6



Fig. 8



Fig. 5

418	Carries 2 amperes at 0.16 amps, case 6.	8.00
854	Carries 60 ma. at 45 henries, case 6.	8.00
709	Carries 120 ma. at 15 henries, case 6.	8.00
101	Output choke, 60 ma. 40 henries, for plate circuit for single 250 or smaller power tube, case 6.	10.00
641	An output impedance to take plate current of two 250 or smaller tubes.	10.00
557A	A heavy duty filter choke of high inductance for use in filter circuits passing up to 250 ma. DC 15 henries, case 7.	18.00
103	Audio parallel feed, 140 henries, .005 amps, case 6.	10.00
988A	Audio parallel feed, alloy core, 650 henries, .005 amps, case 6.	20.00
3842	Audio parallel feed, alloy core, 300 henries, .003 amps, case 1.	8.00
3793	Audio grid impedance, alloy core, 1500 henries, case 1.	8.00
4725	Filter, 8 henries at 320 ma, case 7.	18.00
4724	Filter, 10 henries at 120 ma, case 6.	8.00
AERO	Noskip RF Choke No. 60.	.70N
HAMMARLUND RFC85	Choke Inductance of 85 mh.	2.00
RFC250	Choke. Inductance of 250 mh.	2.25
SPC	Shielded, polarized RF Choke.	1.50
CH-8	Isolantite RF Choke, 8 millihenries, 70 ohms.	1.10
CH-500	Isolantite transmitting choke, 5.3 millihenries, DC resistance, 12 ohms.	2.25
REL 132 RF	for transmitters and receivers. Carries 150 ma. at .9 mh.	1.10F
250A	Choke .26 millihenries.	1.30F
JEFFERSON 466-962	Mfgs. Type Choke. 100 henries at 10 ma.	.85N
466-190	Input Choke for class "B" power supply.	3.20
466-200	Second Filter Choke for class "B" power supply.	3.20
FRANKLIN	High Impedance choke, 750 henries, same as used in National S-101.	1.25N

CHOKES—Continued

IN CA CHOKES, See transformers for picture of case:

D1, 30 Henries, 45 ma, 600 ohms, case 1.....	1.00
D2, 20 Henries, 100 ma, 250 ohms, case 1.....	1.60
D4, 30 Henries, 150 ma, 460 ohms, case 3.....	3.70
D5, 30 Henries, 150 ma, 460 ohms, cased.....	4.25
D6, 30 Henries, 250 ma, 260 ohms, case 3.....	5.95
D7, 30 Henries, 250 ma, 260 ohms, cased.....	6.75
D8, 20 Henries, 500 ma, 70 ohms, case 3.....	12.50
D9, 3 Henries, 100 ma, 105 ohms, for 82 tubes.....	.70
D21, 15 Henries, 30 ma, 350 ohms, for AC-DC sets, case 1.....	.85

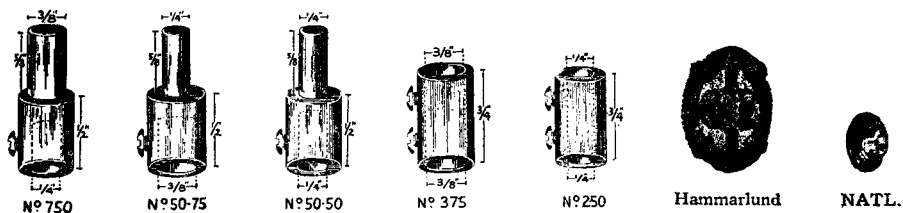
STANDARD TRANSFORMER CORPORATION:

STANCOR C-1231, Class "B", swinging choke, 1st section.....	3.25
STANCOR C-1232, Class "B", filter choke, 2nd section.....	3.25
PILOT, RF, Choke No. 130, 80 millihenries.....	.75
PILOT, RF, Choke No. 131, 30 millihenries.....	1.25

CRYSTALS

ADVANCE Fixed Crystal Detector.....	1.00
TOM MACK Fixed Crystal Detector.....	1.25
Mounted Argentite Crystal.....	.30
Mounted Iron Pyrites Crystal.....	.25
MEXICAN Pyrites Tubular Fixed Crystal Detector.....	.60
Pyrites Mounted Crystal.....	.15
PHILMORE Detector Rod, stand and cup.....	.25
NATIONAL Type SCM mounted Crystal for Stenode.....	15.00

COUPLERS



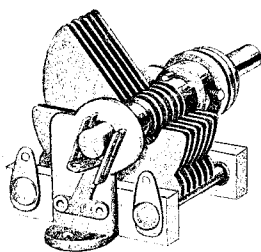
HAMMARLUND. Flexible Coupler.....	.60
NATIONAL. Flexible Coupler.....	.55
SHAFT COUPLINGS, $\frac{1}{4}$ " and $\frac{3}{8}$ ".....	.15
SHAFT EXTENSION, $\frac{1}{4}$ "- $\frac{1}{4}$ ".....	.15
SHAFT REDUCERS, $\frac{3}{8}$ " to $\frac{1}{4}$ ", and $\frac{1}{4}$ " to $\frac{3}{8}$ ".....	.15
UNIVERSAL JOINTS.....	.50

VARIABLE CONDENSERS

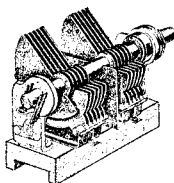
HAMMARLUND:

M C 20 S Midget	20 mmf	3 plates, straight line capacity.....	1.50
M C 35 S Midget	35 mmf	5 plates, straight line capacity.....	1.50
M C 50 S Midget	50 mmf	7 plates, straight line capacity.....	1.80
M C 75 S Midget	80 mmf	11 plates, straight line capacity.....	2.00
M C 75 M Midget	80 mmf	11 plates, Midline.....	2.00
M C 100 S Midget	100 mmf	14 plates, straight line capacity.....	2.30
M C 100 M Midget	100 mmf	14 plates, Midline.....	2.30

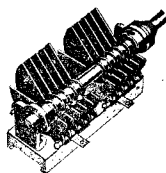
VARIABLE CONDENSERS—Continued



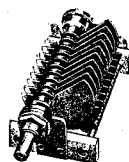
HAMMARLUND MC-100M



HAM. MCD-100M



HAM. MCD-35X



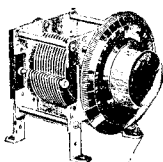
HAM. MC-50X

M C 140 M	Midget 140 mmf 19 plates, Midline.....	2.50
M C 200 M	Midget 200 mmf 27 plates, Midline.....	2.80
M C 250 M	Midget 260 mmf 34 plates, Midline.....	3.00
M C 325 M	Midget 320 mmf 43 plates, Midline.....	3.50
M C D 100 M	Midget Dual 100 mmf per section, Midline.....	4.40
M C D 140 M	Midget Dual 140 mmf per section, Midline.....	4.80
M C 35-X	Midget Double spaced 35 mmf, Midline.....	2.50
M C 50-X	Midget Double spaced 50 mmf, Midline.....	3.00
M C D 35-X	Midget Double spaced Dual 33 mmf per section, Midline.....	4.50
M C 120 B	Midget Band Spread Tuning Cap 20 mmf.....	3.00
M C 150 B	Midget Band Spread Tuning Cap 50 mmf.....	3.25
M C 175 B	Midget Band Spread Tuning Cap 75 mmf.....	3.50

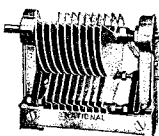
CARDWELL

191E	000075 mfd Taper Plate.....	4.00E
167E	00015 mfd Taper Plate.....	4.00E
168E	00025 mfd Taper Plate.....	4.25E
169E	00035 mfd Taper Plate.....	4.75E
192E	0005 mfd Taper Plate.....	5.00E
401B	26 mmf 3 plates.....	2.10E
402B	50 mmf 5 plates.....	2.20E
403B	70 mmf 7 plates.....	2.30E
404B	105 mmf 11 plates.....	2.40E
405B	150 mmf 15 plates.....	2.50E
406B	260 mmf 25 plates.....	2.75E
407B	365 mmf 35 plates.....	3.00E
408B	22 mmf 5 plates Transm. up to 75 watt tube.....	2.60E
409B	35 mmf 7 plates Transm. up to 75 watt tube.....	2.80E
410B	50 mmf 11 plates Transm. up to 75 watt tube.....	3.20E
411B	70 mmf 15 plates Transm. up to 75 watt tube.....	3.60E
412B	100 mmf 21 plates Transm. up to 75 watt tube.....	4.25E
413B	150 mmf 31 plates Transm. up to 75 watt tube.....	5.50E

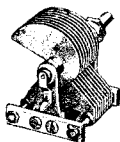
NATIONAL Equicyclic Condensers; especially for shortwave: 270 degrees



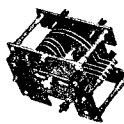
NATL. EM-500



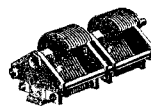
NATL. EC-125



NATL. SE-100



NATL. 40-75



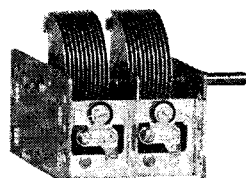
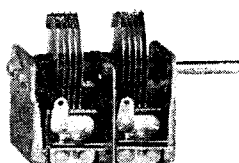
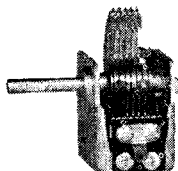
NATL. 2 SE-100

EC- 15	000015 mmfd 3 Plate.....	4.00
EC- 50	00005 mmfd 9 Plate.....	4.25
EC- 75	000075 mmfd 11 Plate.....	4.25
EC-100	0001 mmfd 15 Plate.....	4.50
EC-125	000125 mmfd 19 Plate.....	4.50

The LARGEST and OLDEST RADIO PARTS JOBBER West of Chicago

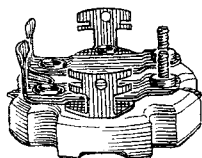
VARIABLE CONDENSERS—Continued

EC-150	00015	mmfd	9 Plate	4.00
EC-250	00025	mmfd	17 Plate	4.50
EC-350	00035	mmfd	23 Plate	4.75
EC-500	0005	mmfd	31 Plate	5.00
NATIONAL Equitone Condensers; Modified SFL: 180 degree				
ET-150	00015	mfd		4.25
ET-250	00025	mfd		4.50
ET-350	00035	mfd		4.75
ET-500	0005	mfd		5.00
NATIONAL Type SBC Balancing Condenser for Stenode				4.50
NATIONAL SE Small Space Shortwave Condensers. Size, 1½"x1¾"x2". Stand-				
ard SE-100, 100 mmfd has 10 rotor and 10 stator plates which are readily re-				
movable to cut capacity for special requirements.				
SE-100	0001	mmfd	equicycle, 270 deg.	3.75
SE-50	00005	mmfd	equicycle, 270 deg.	3.50
SE-150	00015	mmf	equicycle, 270 deg.	4.00
2 SE-50		Dual	50 mmf each section	5.50
2 SE-100		Dual	100 mmf each section	6.50
EMP		Split Stator	100 mmf per section, 1200 volts.	5.00
NATIONAL Special 3-gang .00035				7.5N
NATIONAL Equimeter Condensers, Straight Wave Line Suitable for low power				
Transmitter and oscillators where the peak voltages are not over 1000.				
Isolantite insulation				
EM-50	50	mmf	3 plates	2.50
EM-100	100	mmf	6 plates	2.50
EM-150	150	mmf	9 plates	3.00
EM-200	200	mmf	11 plates	3.50
EM-250	250	mmf	14 plates	3.50
EM-350	350	mmf	18 plates	3.75
EM-500	500	mmf	26 plates	4.00
EM-1000	1000	mmf	46 plates	5.50
RADIO CONDENSER CO.				

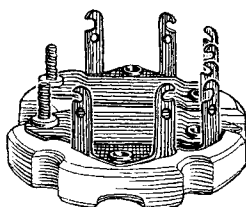


112-9	.0001	mmf	single	.60N
212-9	.0001	mmf	2 gang	1.00N
112-13	.00014	mmf	single	.60N
212-13	.00014	mmf	2 gang	1.00N
312-9	.0001	mmf	3 gang	1.50N
312-13	.00014	mmf	3 gang	1.50N
214 LW-15	.00035	mmf	2 gang	.90N
314 LW-15	.00035	mmf	3 gang	1.25N
414 LW-15	.00035	mmf	4 gang	1.50N
PILOT J-5, 5 plates midget condenser, 15 mmf				.85
J-7, 7 plates midget condenser, 25 mmf				.85
J-13, 13 plates midget condenser, 50 mmf				.90
J-23, 23 plates midget condenser, 100 mmf				1.00
PILOT, Centraline, S. L. F. Variable Condensers				
1611, maximum	.00016	mfd		1.75
1613, maximum	.00025	mfd		1.75
1617, maximum	.00035	mfd		1.85
1623, maximum	.0005	mfd		2.10

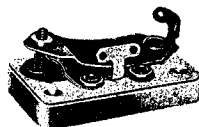
NEUTRALIZING CONDENSERS



Miller Series "S"



Miller Series "K"



Hammarlund Mics



Ham. EC

HAMMARLUND:

EC-35	35 mmfd Equalizer	.40
EC-80	80 mmfd Equalizer	.50
MICS-70	Isolantite base 10 to 70 mmf.	.50
MICS-100	Isolantite base 70 to 100 mmf.	.60
MICS-140	Isolantite base 70 to 140 mmf.	.60
MICS-220	Isolantite base 140 to 220 mmf.	.70
MICS-1000	Isolantite base 600 to 1000 mmf.	1.00
MICS-1300	Isolantite base 1000 to 1300 mmf.	1.25
MICD-70	Isolantite base 10 to 70 mmf two sections.	.80
MICD-140	Isolantite base 20 to 140 mmf two sections.	.90
MICD-220	Isolantite base 140 to 220 mmf two sections.	1.00

NATIONAL NEUTRALIZING CONDENSERS

STN, Isolantite insulation and polished plates maximum capacity 18 mmf, peak voltage 3000 volts. 3.50

TMN, Heavy Duty, peak voltage 6000 volts, suitable for use with 203-A, 852, 204-A, etc, maximum capacity 50 mmf. 6.00

MILLER STANDARD TRIMMERS, series S, 2" x 5⁵/₁₆"

No. 70	From 10 mmf to 90 mmf.	.40
No. 100	From 35 mmf to 150 mmf.	.40
No. 140	From 45 mmf to 200 mmf.	.40

KOMPAK TRIMMERS series K, 1⁵/₈" x 3³/₄"

No. 35	From 7.5 mmf to 45 mmf.	.40
No. 90	From 35 mmf to 100 mmf.	.40

FIXED CONDENSERS



G.H. Uncased



Sangamo



Polymet "Dry"



Mallory

SANGAMO Bakelite Encased Condensers:

00004 to 0008 mfd inclusive.	.40
001 to 0025 inclusive.	.50
003 to 004 mfd inclusive.	.60
005 mfd.	.70
006 mfd.	.85
007 mfd.	.90
0075 mfd.	.95
008 mfd.	1.00
01 mfd.	1.15
012 mfd.	1.20
015 mfd.	1.25

ELKON Type H Hum Filter for Dynamic Speakers on AC. 3.50

DUBILIER 1257-A Condenser, dynamic hum filter. 4.50

FIXED CONDENSERS—*Continued*

ACME PARVOLT By Pass & Filter Condensers:

(Series number indicates DC working voltage)

Series 200 .1 mfd.....	\$.85	Series 600 1. mfd.....	2.25
Series 200 .25 mfd.....	.90	Series 600 2. mfd.....	2.90
Series 200 .5 mfd.....	.95	Series 600 4. mfd.....	5.10
Series 200 1. mfd.....	1.10	Series 1000 1. mfd.....	2.90
Series 200 2. mfd.....	1.70	Series 1000 2. mfd.....	4.75
Series 200 4. mfd.....	2.80	Series 1000 4. mfd.....	8.80
Series 400 .5 mfd.....	1.80	Series 1500 1. mfd.....	4.00
Series 400 1. mfd.....	1.95	Series 1500 2. mfd.....	7.00
Series 400 2. mfd.....	2.45	Series 1500 4. mfd.....	10.00
Series 400 4. mfd.....	3.40	R171 Block.....	2.00N

POLYMET Type AA Filter Condensers, DC working voltage 300:

.1 mfd.....	\$.55 I	1. mfd.....	1.10 I
.25 mfd.....	.65 I	2. mfd.....	1.75 I
.5 mfd.....	.75 I	4. mfd.....	3.25 I
Buffer Condensers .1-0-1 mfd.....			.70 I
Triple Buffer Condenser .1-1.0-1 mfd.....			1.40 I

DRY ELECTROLYTIC

500 volt cardboard container 2 mfd.....	.27N
500 volt cardboard container 4 mfd.....	.29N
500 volt cardboard container 6 mfd.....	.36N
500 volt cardboard container 8 mfd.....	.39N

G-H Uncased Pigtailed Replacement Condensers:

300 volt .1 mfd.....	\$.40	800 volt 1. mfd.....	1.40
300 volt .25 mfd.....	.45	800 volt 2. mfd.....	2.60
300 volt .5 mfd.....	.50	1000 volt 1. mfd.....	1.60
300 volt 1. mfd.....	.70	1000 volt 2. mfd.....	3.00
300 volt 2. mfd.....	1.20	.1 mfd Cased for Crosley, etc...	.60
400 volt 1. mfd.....	1.00	.25 mfd Cased for Crosley, etc...	.70
400 volt 2. mfd.....	1.70	.5 mfd Cased for Crosley, etc...	.75
600 volt 1. mfd.....	1.20	1. mfd Cased for Crosley, etc...	.90
600 volt 2. mfd.....	2.10	2. mfd Cased for Crosley, etc...	1.50

ELKON Electrolytic

450 volt, cardboard container, 1 mfd.....	.80
450 volt, cardboard container, 2 mfd.....	.85
450 volt, cardboard container, 4 mfd.....	.95
450 volt, cardboard container, 8 mfd.....	1.15

IGRAD Transmitting Condensers:

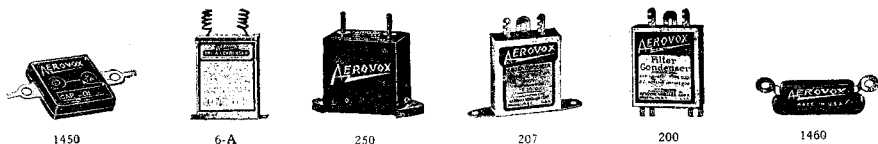
M-1 1000 volts, 1. mfd.....	4.25
M-2 1000 volts, 2. mfd.....	7.75
MC-1 1500 volts, 1. mfd.....	5.25
MC-2 1500 volts, 2. mfd.....	8.50
MM-1 2000 volts, 1. mfd.....	6.75
MM-2 2000 volts, 2. mfd.....	11.50
MMC-1 2500 volts, 1. mfd.....	7.80
MMC-2 2500 volts, 2. mfd.....	13.50
MMM-1 3500 volts, 1. mfd.....	12.00
MMM-2 3500 volts, 2. mfd.....	21.75
5M-1 5000 volts, 1. mfd.....	20.00
5M-2 5000 volts, 2. mfd.....	33.00

MERSHON Electrolytic Condensers: 450 volts DC:

S- 8 Upright, single 8 mfd.....	1.55
D- 8 Upright, two 8 mfd.....	2.45
T- 8 Upright, three 8 mfd.....	6.00
T-36 Upright, one 18 mfd and two 9 mfd.....	6.00

FIXED CONDENSERS—Continued

AEROVOX Condensers:



Type 1450, Bakelite moulded mica, Retest voltage 1000:

00004 to 0015 mfd inclusive.....	.30
002 and 0025 mfd.....	.35
003 and 005 mfd.....	.45
006 mfd.....	.55
0075 mfd.....	.65
01 mfd.....	.75
015 mfd.....	.90
02 mfd.....	1.05

Type 1475, Same as 1450 but with grid leak clips:

0001 to 0005 mfd inclusive.....	.40
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Type 1460, Small bakelite moulded, Retest voltage 600:

00004 to 00025 mfd inclusive.....	.20
00037 to 0015 mfd inclusive.....	.25
002 to 0025 mfd inclusive.....	.35
003 mfd.....	.40

Non-Inductive Condensers in Bakelite Cases:

Type 250, DC Voltage 200:

.05 mfd.....	\$.45	.5 mfd.....	.60
.1 mfd.....	.46	1. mfd.....	.85
.25 mfd.....	.52		

General Purpose Non-Inductive Condensers:

Type 207, DC Voltage 200:

.05 mfd.....	\$ 0.55	1. mfd.....	.85
.1 mfd.....	.55	2. mfd.....	1.25
.25 mfd.....	.60	4. mfd.....	2.25
.5 mfd.....	.70		

Type 407, DC Voltage 400:

.05 mfd.....	\$ 0.65	.5 mfd.....	.90
.1 mfd.....	.65	1. mfd.....	1.20
.25 mfd.....	.75	2. mfd.....	2.00

Type 200S, DC Voltage 200:

.05 mfd.....	\$ 0.55	1. mfd.....	.85
.1 mfd.....	.55	2. mfd.....	1.25
.25 mfd.....	.60	4. mfd.....	2.25
.5 mfd.....	.70		

Type 446 Buffer, 1-0-.1, 400 volts.....

1.50

Type E5 HiFarad Electrolytic Condenser, Voltage 500:

Metal Containers

1 mfd.....	\$ 1.00	4-4-4 mfd.....	3.10
2 mfd.....	1.05	4-4-4 mfd.....	3.85
2-2 mfd.....	1.65	8 mfd.....	1.45
2-2-2 mfd.....	2.85	8-8 mfd.....	2.55
2-2-2-2 mfd.....	3.50	8-8-8 mfd.....	3.90
4 mfd.....	1.25	8-8-8-8 mfd.....	5.25
4-4 mfd.....	2.20		

Type E25 Hi Farad Electrolytic Condenser, Voltage 25:

25 mfd.....	\$ 1.05	50 mfd.....	\$1.15
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FIXED CONDENSERS—Continued

AEROVOX Type 6A

A Power Condenser, 12 volts, 1500 mfd.	3.50
A Power Condenser, 12 volts, 2000 mfd.	4.00
A Power Condenser, 12 volts, 4000 mfd.	7.50

CORNELL CLUB. 400 volts, pigtailed.

0001 mfd.	\$0.09N	015 mfd.	.11N
001 mfd.	.09N	02 mfd.	.11N
002 mfd.	.09N	05 mfd.	.12N
005 mfd.	.10N	.1 mfd.	.14N
006 mfd.	.10N	.25 mfd.	.18N
01 mfd.	.11N	.5 mfd.	.26N

FLECHTHEIM Condensers:



HSM



NU



Transmitting



GF

Type GF, cased, 400 volts: non-inductive

.1 mfd.	\$0.26N	1. mfd.	.46
.25 mfd.	.28N	2. mfd.	.70
.5 mfd.	.33N		

Type NU, uncased, 600 volts: non-inductive

.1 mfd.	\$0.23N	1. mfd.	.49N
.25 mfd.	.26N	2. mfd.	.71N
.5 mfd.	.32N		

Type HSM, cased, 1000 volts: non-inductive

.05 mfd.	\$0.58N	1. mfd.	.85N
.1 mfd.	.64N	2. mfd.	1.50N
.25 mfd.	.66N	4. mfd.	2.50N
.5 mfd.	.69N		

Type TH, Regular Transmitting, DC Voltage 2000:

1. mfd.	\$ 7.00	4. mfd.	22.00
2. mfd.	12.50		

Type HP, Regular Transmitting, DC Voltage 3000:

1. mfd.	\$15.00	4. mfd.	48.00
2. mfd.	25.00		

MORRILL Transmitting Condensers:

844-1 mfd, operating voltage 1500 DC, test voltage 3000	3.50 I
845-2 mfd, operating voltage 1500 DC, test voltage 3000	5.75 I
486-4 mfd, operating voltage 1500 DC, test voltage 3000	10.00 I
487-1 mfd, operating voltage 2000 DC, test voltage 4000	6.25 I
488-2 mfd, operating voltage 2000 DC, test voltage 4000	11.25 I
490-4 mfd, operating voltage 2000 DC, test voltage 4000	19.50 I
507-1 mfd, operating voltage 3000 DC, test voltage 6000	11.00 I
509-2 mfd, operating voltage 3000 DC, test voltage 6000	16.75 I
512-4 mfd, operating voltage 3000 DC, test voltage 6000	32.50 I
527-1 mfd, operating voltage 4000 DC, test voltage 10,000	22.75 I
529-2 mfd, operating voltage 4000 DC, test voltage 10,000	40.00 I
530-4 mfd, operating voltage 4000 DC, test voltage 10,000	75.00 I

FIXED CONDENSERS—Continued

SPRAGUE. Tubular Condensers with pigtail terminals, 400 volts:

001, 002, 005, 006.....	.07N
01, 02 and 05.....	.08N
.1.....	.09N
.25.....	.10N
.5.....	.12N

MICAMOLD Electrolytic, cardboard container: 500 volts

1 mfd with lugs or wire terminals.....	.25N
2 mfd with lugs or wire terminals.....	.27N
4 mfd with lugs or wire terminals.....	.29N
8 mfd with lugs or wire terminals.....	.39N
4-4 mfd with lugs or wire terminals.....	.49N

CONCOURSE Electrolytic Condensers: 500 volts



Concourse T-8



S-8



D-4



Auto Cond.



Dubilier 1257-A



Cub



A-50

Single 1 mfd, metal case container.....	.24N
Single 2 mfd, metal case container.....	.30N
Single 4 mfd, metal case container.....	.44N
Single 8 mfd, metal case container.....	.50N
Double 4 mfd, metal case container.....	.60N
Double 6 mfd, metal case container.....	.90N
Double 8 mfd, metal case container.....	.95N
Triple 8 mfd, metal case container.....	1.20N
Quadruple 8 mfd, metal case container.....	1.80N
5 mfd 75 volts, metal container.....	.27N
10 mfd 35 volts, metal container.....	.27N
25 mfd 50 volts, metal container.....	.50N
50 mfd 50 volts, metal container.....	.50N

N. E. 1 mfd CONDENSERS for AUTOMOBILE RADIO..... .50N

PILOT, Fixed Condensers:

50-A .00004 mfd.....	\$.40	54 .002 mfd.....	.40
50-C .00015 mfd.....	.40	55 .003 mfd.....	.40
50-D .0002 mfd.....	.40	55 .004 mfd.....	.40
51 .00025 mfd.....	.40	57 .005 mfd.....	.40
52 .0005 mfd.....	.40	59 .01 mfd.....	.75
53 .001 mfd.....	.40	60 .15 mfd.....	.60

DIALS

KURZ-KASCH DIALS:

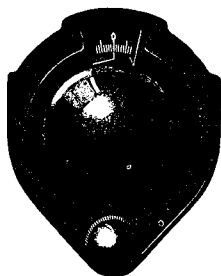
505 2- Rheostat Dial, Black.....	.12N
528 3- Dial, 100 to 0, black or walnut.....	.15N
529 3- Dial, 0 to 100, black or walnut.....	.15N
566 4- Dial, 100 to 0, black.....	.20N
567 4- Dial, 0 to 100 walnut.....	.20N

KURZ-KASH DIALS—Continued

KK-18



KK-505



KK-595



KK-139



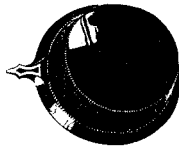
KK-146



KK-97



KK-566



KK-706



KK-702

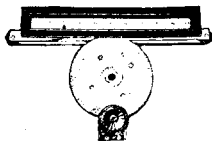
595	4- Port Vernier, 0-100-0, black or walnut	.93
598	3- Port Vernier, 0-100-0, black	.75
599	3- Port Vernier, 0-100-0, walnut	.75

NATIONAL DIALS:

TYPE "B"



TYPE "N"



TYPE "VKE"



Type "G"



S



J



TYPE "A"

Type A Velvet Vernier Dials:

VAC C4	4" Counter Clockwise 200-0	2.50
VAC 4	4" Clockwise 200-0	2.50
VAC E4	4" Clockwise 150-0	2.50

Types B and C Vernier Dials:

VB D	Dual Range 0-100-0	2.50
B.M.D.	Midget B Dual Range	2.00

Add 50c to above prices for Type C Dials for illuminator and bracket which is furnished.

Type G Vernier Disc Dials (Modernistic Plate):

VGCC	Counter Clockwise 0-100	3.75
VGE	Clockwise 150-0	3.75

Type H Drum Dials (Modernistic Plate):

VHCC	Counter Clockwise 0-100, Monocolor	5.00
VHC	Clockwise 100-0, Monocolor	5.00
VHCCR	Counter Clockwise 0-100, Rainbow	5.50
VHCR	Clockwise 100-0, Rainbow	5.50

Type VKC	Full Vision Dial, 100-0, 180	4.00
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Type VKCC	Full Vision Dial, 0-100, 180	4.00
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Type VKE	Full Vision Dial, 0-100, 270	4.00
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Extra Knobs for National Kits, black or walnut	.25
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Type N 4" German Silver Precision Vernier Dials, each	6.50
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Furnished in VND 100-0 VNE 150-0 and VNC 200-0.

Type N 6" German Silver Precision Vernier Dial	15.00
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Type J Indicator:

For transmitter use. Bakelite knob and handle. Nickel plated brass pointer. 6" diameter etched scale can also be furnished. Available for $\frac{1}{4}$ " and $\frac{3}{8}$ " shaft.

Type S Indicator. Same as Type J but smaller model	2.75
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Type M Indicator	3.00
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NATIONAL DIALS—Continued

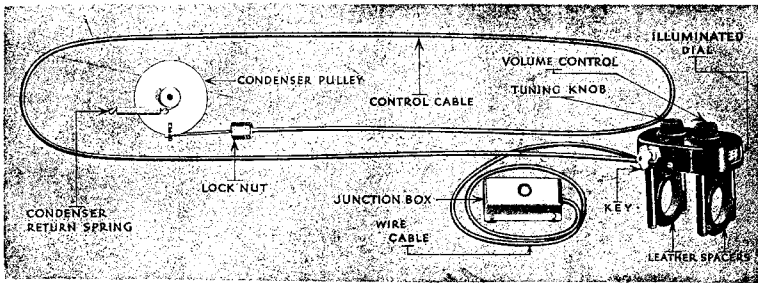
Type HS. Special dial assembly used in SW5AC Receiver.....	6.00
Type SVD. Special dial made for Stenode application. Has dual ratios of 250-1 5-1, the high reduction being essential for fine tuning on the extremely sensitive Stenode.....	16.50
NATIONAL Illuminator Bracket and Lamp.....	.50
Standard Full Vision Vernier Dial complete with escutcheon.....	1.25
Midget direct drive Dial complete with escutcheon.....	.30

DIAL KNOBS

KURZ-KASCH Knobs:

No. 17	1 1/8" Arrow Knob, Black or Walnut 1/4" shaft.....	.15
No. 18	1 1/2" Arrow Knob, Black or Walnut 1/4" shaft.....	.15
No. 97	1 3/8" Two-tone Walnut Knob 1/4" shaft.....	.20
No. 100	Knob, 2 Tone Walnut 1/4" shaft.....	.15
No. 101	1" 2 tones, Walnut 1/4" shaft.....	.15
No. 139	Fancy Knob, Walnut 1/4" shaft.....	.15
No. 146	Fancy Knob, Walnut 1/4" shaft.....	.15
No. 702	2 1/4" Pointer Knob, Black or Walnut.....	.20
No. 706	3 1/4" Pointer Knob, Black or Walnut.....	.25

DIAL REMOTE CONTROLS



UTAH REMOTE CONTROL

FEDERAL Remote Control for Automobile Radio.....	7.50
FALCK Remote Control for Automobile Radio.....	8.00
UTAH Remote Control for Automobile Radio.....	5.50N

EAR CUSHIONS

INSULINE No. 195 Soft Rubber Cushions for Head Sets, per pair.....	.75
---	------------

EXTENSION CORDS

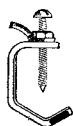
BIRNBACH Speaker Extension Cords, complete with connector:

166	10 ft.....	\$ 0.60	122	40 ft.....	\$1.25
120	20 ft.....	.75	123	50 ft.....	1.50
121	30 ft.....	1.00	124	100 ft.....	3.00

FUSES

JEFFERSON Union 3 AG 1, 2, 3, 5, 10, 20 Amp. Glass Tubular.....	.05
JEFFERSON Plug Fuses, 3 to 30 amps, each.....	.06

FUSES—Continued



**BEAR
GRIP**



**MUELLER
"C" CLAMP**



**3AG
FUSE**



COPPER STRAP



**Ins.
Staple**

AMERICAN RADIO No. 54 Fuse Clips, per C.....	1.75
LITTLE FUSES for protecting meters:	
1/100 amp., 1/32 amp., 1/16 amp.....	.20
1/8 amp., 1/4 amp., 3/8 amp., 1/2 amp.....	.15
1 amp., 2 amp.....	.12
Mounting blocks for above.....	.15

GROUND CLAMPS

SHERMAN 101 Light Copper Strap.....	.05
EKKO Clamp.....	.25
BEAR GRIP Clamp.....	.25
UNIVERSAL CLAMPIPE	.10
PERMANCO No. 900 Pipe Clamp.....	.10

HARDWARE

TIE-POINTS, resistor mounts:

1510 1 lug, 4 for.....	.05N
1520 2 lugs, 3 for.....	.05N
1530 3 lugs, 2 for.....	.05N
1540 4 lugs, 3 for.....	.10N
1550 5 lugs, 3 for.....	.10N
Small Brass Brackets, 7 for.....	.05N
SUPERIOR Insulated Staples. Nos. 1, 3 or 5, per C.....	.25

INSULATORS



**MILLER
NO. 1501**



MILLER NO. 1503



EMILY SCREW EYE

EMILY Porcelain Screw Eye Insulator, Long Type.....	.06
EMILY Porcelain Screw Eye Insulator, Short Type.....	.05
SPLIT NAILNOBS	.04
GENERAL RADIO 260 Wall Insulator.....	.20N
JOHNSON No. 24 Stand-off, 1/2", brown or white.....	.07
JOHNSON No. 20 Stand-off, 1 1/2", brown.....	.12
JOHNSON No. 22 Stand-off, 1", brown or white.....	.08
JOHNSON No. 62 Stand-off, 3", brown or white.....	.35
JOHNSON No. 60 5" Brown Glazed Porcelain Stand-off.....	.50
JOHNSON No.112 Antenna Insulator, 12".....	.65
JOHNSON No. 120 Antenna Insulator 20".....	1.00

INSULATORS—Continued

JOHNSON
No. 60 or 62LITTLE
JOE3 Inch
GlassNo. 500
KNOXKNOX
StandoffNo. 20
JohnsonNo. 866
Birnbach

BIRNBACH No. 766 Stand-off, 1½" brown.....	.15
BIRNBACH No. 866 Stand-off, 1⅜", brown or white.....	.10
BARKELEW 611 Stand-off.....	.50F
PERMANCO No. 501 Lead In Strip.....	.15

CORNING PYREX Insulators:

67107
StandoffLead-In
Assembly

67007



67017



PYREX 67021



67056

67009
BOWL

No. 67007, 3½" Broadcast Reception.....	.25F
No. 67106, 3" Stand-off, with Brass fittings.....	2.25F
No. 67107, 7" Stand-off, with Brass fittings.....	2.50F
No. 67017, 7¼" Amateur Transmitting.....	1.00F
No. 67021, 12½" Strain.....	3.00F
No. 67009, 1 KW Lead in Bowl, without fittings.....	1.00F
Amateur Lead-In Assembly. Consists of 2 No. 67056 mounted on a threaded brass rod with rubber cushion between. Rod 14" long.....	2.20F
No. 67056, Airplane Type Lead In Bowl without fittings.....	.80F
(No. 67009—4⅜" height, 6 ⅛" diameter at base. No. 67056—1⅝" length, 2½" diameter.)	

LOUIS ELECTRIC No. 101, Glass Insulator 3½".....	.05
KNOX No. 2 Little Joe Insulator Brown Glazed.....	.05
KNOX No. 500 Brown Glazed Strain.....	.10
KNOX No. 5 Brown Long Strain.....	.12½
KNOX No. 103 Glass 5 inches.....	.12
KNOX No. 401 Stand-off, same size and appearance as G. R.....	.20



LYNCH NAVY TYPE



WINDOW LEAD-IN

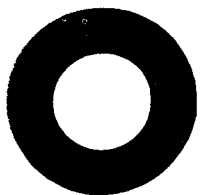


JOHNSON NO. 107 AND 112 INS.

FLERON No. 82 Stand-off 1¼".....	.10
FLERON Lead In Bushing. For walls up to 9¾" thick.....	1.10
LYNCH, Navy Type Insulators, Kit of 8.....	3.00
PORCELAIN Tube Insulators 6"x5⅞".....	.04

INSULATORS—Continued

ALPHA Brown Spaghetti, per 2½' length.....	.05N
EMPIRE Black Oiled Spaghetti, cut in 3' lengths:	
1. mm.....	\$0.07N
1.5 mm.....	.08N
2. mm.....	.09N
3. mm.....	.12N
4. mm.....	.13N
5. mm.....	.15N
6. mm.....	.16N
7. mm.....	.20N
8. mm.....	.21N
YAXLEY or CARTER Insulating Washers, per pair.....	.05



No. 5



No. 3



No. 4



No. 2



No. 1

RUBBER GROMMETS, No. 1 and No. 2.....	.01N
No. 3 and No. 4.....	.02N
No. 5.....	.02½N

INTERFERENCE ELIMINATORS

FALCK Claroceptors.....	5.00
TOBE Filterettes:	
Junior, for small motors, fans, cleaners, etc.....	1.85
Senior P O. for line power noises and slightly larger apparatus than that controlled by the Junior.....	5.50
110 P O. for 110 v. AC or DC apparatus, refrigerators, battery chargers, some types of signs, etc.....	10.50
110 P L. for direct application to the radio, for elimination of line noises, etc.	10.50
Other models available according to requirements.	

JACKS

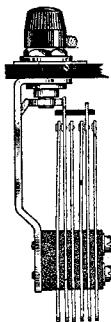
YAXLEY Jacks:

1 Open Circuit.....	\$.50	4 Interstage.....	.80
2 Circuit Closing.....	.60	4A 2 circuit Fil. Control.....	.80
2A Two Circuit.....	.60	5 2 Circuit Fil. Lighting.....	.90
3 Single Circuit Fil. Control.....	.70	6 Interstage Fil. Control.....	1.00
3A Circuit Reversing.....	.70	7 Interstage Fil. Lighting.....	1.10
3C Double Circuit.....	.70		

Junior Jacks, Extends only 1¼" behind panel:

701 Open Circuit.....	.40	703C Double Circuit.....	.65
702 Circuit Closing.....	.55	704 Interstage.....	.75
702A Two Circuit.....	.55	704A 2 Circuit Fil. Control.....	.75
703 Single Cir. Fil. Control.....	.65	705 2 Circuit Fil. Lighting.....	.85
703A Circuit Reversing.....	.65	706 Interstage Fil. Control.....	.95

JACKS—Continued



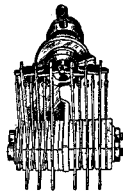
JACK
SWITCH



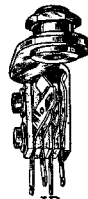
No. 100
JACK



No. 4
JACK



JR. JACK
SWITCH



JR.
JACK

YAXLEY Jack Switches, Two Positions

20	Single pole, single throw	.75
30	Single pole, double throw	.90
40	Double pole, single throw	1.00
45	Five springs, two make and one Break	1.15
60	Double pole, double throw	1.25
73	Three pole, single throw	1.25
74	Four pole, single throw	1.60

YAXLEY Jack Switches, Three positions, center off position

32	Single pole, double throw	.90
62	Double pole, double throw	1.25
63	Three pole, double throw	1.60
64	Four pole, double throw	2.00

YAXLEY Junior Jack Switches, Two Positions

720	Single pole, single throw	.70
730	Single pole, double throw	.85
740	Double pole, single throw	.95
745	Five spring, two make, and one break	1.10
760	Double pole, double throw	1.25
733	Three pole, single throw	1.25
744	Four pole, single throw	1.60

YAXLEY Junior Jack Switches, Three positions, center off position

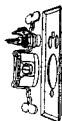
732	Single pole, double throw	.85
762	Double pole, double throw	1.20
763	Three pole, double throw	1.55
764	Four pole, double throw	1.95



No. 16
YAX.



No. 416
YAX.



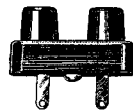
YAX. No. 241



NO. 135 YAX.



YAX. No. 432



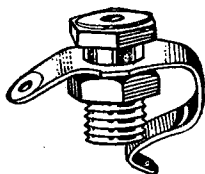
Jacks on Convenience Outlets:

133	For Aerial and Ground and AC connections	1.70
134	Equipped with impedance coil for speakers	2.50
135	For loud speaker connection	.90
136	For aerial and ground connection	.90
156	Single gang outlet for antenna and ground	.75
142	Loud speaker on a two-channel system	1.75

JACKS—Continued

YAXLEY, Jacks on Convenience Outlets—Continued

131	Volume control and loud speaker connection	2.75
137	Has 7 conductor plug for battery connections	2.50
241	For aerial and ground and AC connections	2.00
256	Two gang outlet for A and G and Duplex AC	1.50
353	For speaker, aerial and ground and AC connection	3.00
The above may be obtained with bakelite plates instead of brass if desired, at no extra cost.		
416	Pup Jack, for use with the Pup Plug, per pair	.25
16	Midget Jack. Used with the Midget Plug. Larger than the Pup	.30
100	Extension Jack. For extension cords, etc	.75
401	Twin Jacks. A pair of tip jacks molded into a bakelite block. Marked as follows: "S," "P," "F," "PM," each	.25
432	Moulded Twin Tip Jack shorting type	.25



**AMER.
RADIO**



**FROST
955**



**FROST
954**



**136
AMER.**



**418
Yax.**



**422
Yax.**

INSULATED TIP JACKS, Hexagone Bakelite top.

420	Red top	.15
421	Black top	.15
422	Pair (1 black and 1 red)	.25

Insulated Tip Jacks, round bakelite top

418	Red top	.20
419	Black top	.20
407	Pair (1 black and 1 red)	.35

A. R. H. No. 125, Plug Jacks for short wave and transmitting.08

A. R. H. No. 136 Prong Jacks insulated, all color tops, for use with plug-in-prongs, 3/4" long.15

FROST Gem Small Space Jacks:

951	Double Circuit	\$.50	954	Single Closed Circuit	.45
953	Single Open Circuit	.40	955	Single Filament Control	.50
253CT	Tip Jacks, per pair				.30

GENERAL RADIO 274J Jack for use with GR 274P Plug, each

AMERICAN RADIO Small Tip Jacks, per pair

MICROPHONE 3 Way receptable for wall outlet box

MICROPHONE 3 Way Cap only for above receptable

NICKEL or BRASS Finishing plate for receptacle

KITS

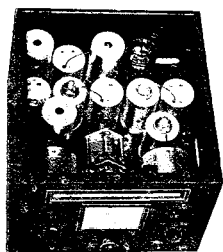
NATIONAL KITS:

NC5—5 Tube Short Wave Converter. Range, 15 to 185 meters. Do not use plug-in coils but switching panels. The tubes required are 2-235; 1-224; 1-227; 1-180. Completely wired and tested in metal cabinet (less tubes)

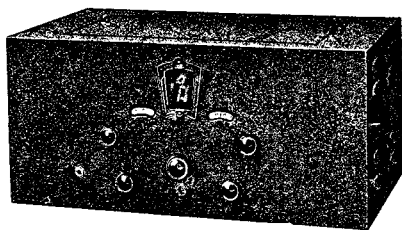
ACSW3. A compact AC operated short wave receiver for the amateur. Designed to operate on the amateur bands of 20, 40 and 80 meters. Uses 2-58, 1-56, all wired, less tubes and coils

DCSW3. Same as above, but battery operated, less tubes and coils

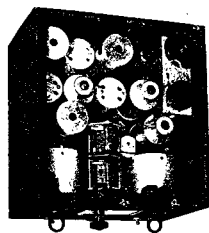
KITS—Continued



NATIONAL FB-7



HAMMARLUND "PRO"



NATIONAL FB-X

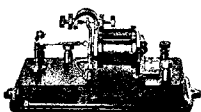
- ACSW58.** New AC short wave tuner, coils furnished to cover from 13.5 to 115 meters. Can be used with speaker or ear-phones. Uses 2-58, 1-56, 2-245. Completely wired, less tubes. **89.50**
- DCSW-34.** Same as SW-58 but battery operated, uses 2-234, 1-230, 2-231, completely wired, less tubes. **89.50**
- NATIONAL "FB-7".** A new short wave receiver designed primarily for the amateur, it is a seven tube receiver having exceptional sensitivity, selectivity and stability to contend with the crowded conditions of the amateur bands. The full vision dial, plug in coils, send and receive switch, beat oscillator switch calibration chart, etc., are all on the front panel, making it convenient to operate Full range 20 mc. to 1500 KC. Uses 1-56, 1-57, 2-58, 1-59, 2-24. Completely wired, with 80 meter coils, less tubes. **55.00**
- 5887 AB** Power supply for FB-7, wired, less tube. **24.50**
- 5880 AB** Power supply for SW5 or FB-7, wired less tube. **34.50**
- AGS.** Airways Communication Type Short Wave receiver. Uses 4-236, 4-237, 1-238. **165.00N**
- JLR.** Foundation Unit as used in SW3 containing the base, tuning condensers, trimmer condenser, 2-six prong Isolantite sockets and Type B Vernier Dial, for use in Q. S. T., single signal super receiver. **15.00**
- JLOW.** Special Oscillator Inductance Panel with Built-in band shifting switch with extension shaft and 4 inductances wound, for use in Q. S. T., single signal super receiver. **7.50**
- HAMMARLUND. New COMET "PRO"**
- Short Wave Superheterodyne, 15 to 200 meters band spread tuning at all frequencies within the range of the receiver. Uses 4-58, 2-57, 1-247, 1-80. Completely wired, in metal cabinet. The latest model is equipped with the Air Dielectric I.F. transformer. **153.00**
- PILOT 242,** Super-Heterodyne Coil Kit, composed of one Band-Pass coil, one oscillator coil, two special fixed condensers. **3.75**

KEYS AND SOUNDERS

SIGNAL 112-K.	2.25
R-48 ¼ KW.	2.80
R-62 ⅜" Contacts.	3.50
R-64 ⅝" Contacts.	3.90
R-68 Mounted on Board with Buzzer, Practice Set.	3.40
M-108. 4 ohm Sr. Leraner.	6.75
M-113. 20 ohm Jr. Learner.	4.25
M-102. 4 ohm Sounder.	3.70
112S. 4 ohm Sounder.	2.75
113S. 20 ohm Sounder.	3.00
916 150 ohm Relay.	10.50

KEYS AND SOUNDERS—*Continued*

SIGNAL 112-X



SIGNAL M-104



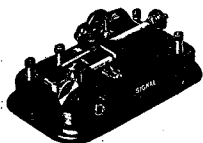
SIGNAL R-68



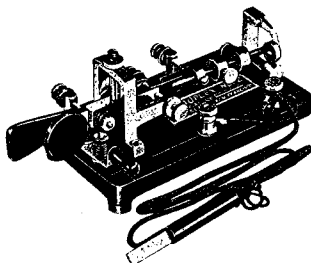
SIGNAL R-62



SIGNAL R-48



SIGNAL 916



LEACH SPEEDPLEX NO. 2



SIGNAL M-108

M-104.	4 ohm Pony Relay.....	4.75
M-105.	20 ohm Pony Relay.....	5.00
M-106.	50 ohm Pony Relay.....	5.25
Extra Knobs for Signal Keys.....		.20
VIBROPLEX No. 6 Key.	Automatic bug known by all "ops".....	17.00N
LEACH No. 2 Speedplex Key.	A very efficient automatic bug.....	17.00A
TELEPEX.	Learn the code by this automatic sender.....	27.50A
SPEED-X No. 300 Key.....		1.35
SPEED-X No. 301 Key, W.U. Type.....		1.75
SPEED-X No. 100 Hi-Speed Bug.....		12.50
NAVY KEY KNOB.....		.30

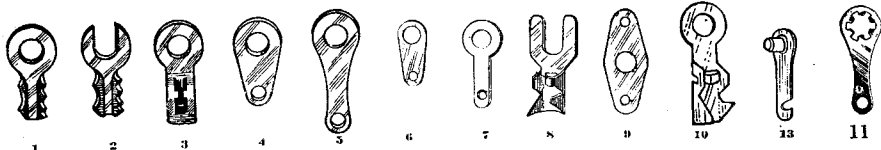
LIGHTNING ARRESTORS

EAGLE No. 261 Arrestor.	Standard Type.....	.25
INSULINE, Champion No. 339.....		.50

LAMPS

MAZDA T-3	2.5 or 6.3 volt Pilot and Dial Light.....	.09F
MAZDA,	3.2 volts.....	.12F
WESTINGHOUSE S-11	10 watt 115 volt Lamp for Victor Sets.....	.50E

LUGS



A. R. H. Co. No. 1	Cord $\frac{5}{8}$ ", No. 6 hole, per C.....	.20
No. 2	Cord $\frac{5}{8}$ ", No. 8 hole, per C.....	.20
No. 3	solderless $\frac{3}{4}$ ", No. 8 hole, per C.....	.25

LUGS—Continued

No. 4 Flat $\frac{5}{8}$ ", No. 6 hole, per C.....	.20
No. 5 Flat $\frac{7}{8}$ ", No. 6 hole, per C.....	.25
No. 6 Flat $\frac{1}{2}$ ", No. 6 hole, per C.....	.20
No. 7 Flat $\frac{11}{16}$ ", No. 4 hole, per C.....	.25
No. 8 Battery Cable 1", No. 8 hole, per C.....	.45
No. 9 Double End $\frac{7}{8}$ ", No. 6 hole, per C.....	.45
No. 10 Battery Cable 1", No. 10 hole, per C.....	.45
No. 11 Tite-lock $\frac{7}{8}$ ", No. 6 hole, per C.....	.35
No. 13 Eyelet lug $\frac{5}{8}$ "—NO. 6 Hole Per C.....	.36

METERS

WESTON METERS:

Model 301 Meters. $\frac{3}{4}$ " diameter with wide flange for flush mounting.

Model 301 DC Voltmeters:

0-3, 5, 8, 15, 20, 30, 50 and 100.....	8.00D
0-150.....	\$10.00D
0-200.....	10.50D
0-300.....	14.00D
0-500.....	16.00D
0-1000.....	25.25D
0-1500.....	30.75D
0-2000.....	42.75D
0-3000.....	59.75D

Model 301 DC Ammeters:

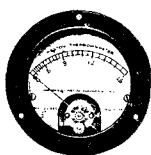
0-1-1.5-2-3-5-10-15-20-30-50.....	8.00D
Zero Center 1-1.5-2-3-5-10-15-20-30-and 50.....	8.00D

Model 301 DC milliammeters:

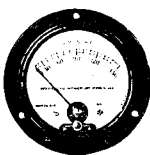
0 to 1, 1.5, 2, and 3.....	9.00D
0-5-10-15-25-30-50-100-150-200-300-500.....	8.00D



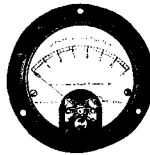
MODEL 489



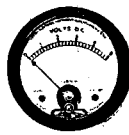
MODEL 425



MODEL 476



MODEL 301



MODEL 506

Model 301 DC microammeters:

0-200.....	13.50D
0-500.....	12.00D

Model 301 Voltohmmeters:

1.5 Volts, 0-1000 ohms.....	10.00D
1.5 Volts, 0-3000 ohms.....	10.00D
4.5 Volts, 0-10,000 ohms.....	10.00D
4.5 Volts, 0-30,000 ohms.....	11.00D
4.5 Volts, 0-100,000 ohms.....	12.00D
15 Volts, 0-500,000 ohms.....	12.00D
90 Volts, 0-2,000,000 ohms.....	16.00D
50 M. V., I. MA, 0-100,000 ohms.....	10.00D

Model 301 Voltmeters Rectifier Type:

3, 5 and 15 volts, 1000 ohms per volt.....	14.00D
50, 100 and 150 volts, 1000 ohms per volt.....	15.00D
300 volts, 1000 ohms per volt.....	16.50D
1, 1.5, 3, 5 and 15 volts, 2000 ohms per volt.....	16.50D
50 volts, 2000 ohms per volt.....	17.50D
100 volts, 2000 ohms per volt.....	18.50D
150 volts, 2000 ohms per volt.....	20.00D

Model 301 Milliammeters Rectifier Type:

0 to 0.5.....	14.50D
0 to 1, 2 and 5.....	12.50D

METERS—*Continued*

Model 301 Microammeters Rectifier Type:

500 14.50D

Model 476 Meters. Same diameter and style case as Model 301 but slightly deeper.

Model 476 AC Voltmeters:

0-1.5-3-5-10-15-20-30-50 and 100 8.00D
 0-150 10.00D
 0-250 and 300 12.00D
 500 16.00D
 750 18.00D
 1000 24.50D
 0-4-8-150 15.00D

Model 476 AC Ammeters:

0 to 1, 1.5, 2, 3, 5, 10, 15, 20 8.00D
 0-30 and 50 10.00D

Model 476 AC Milliammeters:

0-15-20-30-50-100-250 and 500 8.00D

Model 476 Condenser Meter:

15-1.5 mfd, 100-125 volt 60 cycles 28.00D

Model 425 Thermo-Coupled Ammeters. Same case as Model 301:

Model 425 AC Ammeters:

0-1-1.5-2-3-5-10-15 and 20 13.50D

Model 425 Thermo-Coupled Milliammeters:

0-120-250 and 500 15.00D
 0-115 MA Thermo-Coupled Galvanometer 15.00D

Model 489 DC Voltmeters:

200-8, 1000 ohms per volt 22.50D
 250-50, 1000 ohms per volt 22.50D
 750-250-10, 1000 ohms per volt 28.00D

Model 375 Students' Galvanometer. 30-0-30 mounted in a portable mounting base 11.00N

Model 571 Output Meter. A portable bakelite encased five range copper oxide rectifier meter. Ranges are 150, 60, 15, 6 and 1.5 volts, all having non-inductive impedance of 4000 ohms. Proper range obtained by switch 30.00D

Model 506 Meter. 2- diameter with flange for flush mounting. A very high grade instrument for use where less space than for the Model 301 is afforded.

Model 506 DC Voltmeters:

0-3-5-8-10-15-50-100 and 150 7.00F

Model 506 DC Voltmeters with Double Range & Pushbuttons:

0-140-7; 0-150-7.5 and 0-200-8 9.00F

Model 506 DC Voltmeters with Double Range & 4 Binding Posts:

0-140-7; 0-150-7.5 and 0-200-8 8.25F

Model 506 Resistance Meter:

0-3 volts, 10-10,000 ohms 7.00F

Model 506 DC Ammeters:

0-1-1.5-3-5-10-15-20-30 and 50 7.00F

Model 506 DC Milliammeters:

0-1-1.5 and 2 9.00F
 0-3-5-10-15-50-100-150-300 and 500 7.00F

Model 517 Meters. Same case and style as Model 506 but slightly deeper:

Model 517 AC Voltmeters:

0-1.5-3-5-10-15 and 50 8.00D
 0-150 10.00D
 0-250 and 300 12.00D

METERS—Continued

Model 517 AC Ammeters:

0-1-2-3-5-10 and 20.....	8.00D
0-30 and 50.....	10.00D

Model 517 AC Milliammeters:

0-15-50-100-250 and 500.....	8.00D
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Model 507 Thermo-Coupled Ammeters: Same case as Model 505:

0-1-1.5-2-3-5-10-15 and 20.....	12.50D
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Model 507 Thermo-Coupled Milliammeters:

0-120-250 and 500.....	14.00D
0-115 MA Thermo-Coupled Galvanometer.....	14.00D

Model 528 AC Voltmeters:

0-150-8-4 Triple Range.....	16.50D
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Model 600. 50 microammeters.....

20.00D

Model 301 Universal Meter:

AC: 5 volts; 1 MA rectifier type; DC: 50 millivolts; 1 MA. Above meter may be built up to any range desired.....	19.00D
Specify No. 89 spools when ordering resistors for above.	

Resistors for 301 Universal:

4950, 500, 1000, 5000, 10,000, 25,000 ohms.....	1.50F
30,000, 40,000, 50,000, 60,000 ohms.....	1.75F
75,000 ohms.....	2.00F
100,000 ohms.....	2.25F
150,000 ohms.....	2.50F
200,000 ohms.....	3.00F
250,000 ohms.....	3.25F
300,000 ohms.....	3.50F
400,000 ohms.....	3.75F
500,000 ohms.....	4.00F

Shunts for 301 Universal:

2.5, 25, 100, 250, 500 ma.....	1.50F
1, 2, 5, 10 amp.....	2.50D
Combination series connected 100, 25, 2.5 ma.....	3.50F

Photronic Cell.....

10.00D

Model 563 D.C. circuit tester.....

21.00D

Model 564 Volt-ohmmeter, 600-300-30-3 volts, 1000 ohms per volt and 1000 to 100,000 ohms.....

37.50D

Model 571 Output meter.....

30.00D

Model 695 Power Level meter and voltmeter.....

40.00D



MODEL 660



MODEL 661



MODEL 662



MODEL 663



MODEL 664

Model 660 SET ANALYZER

A single meter tester for complete voltage and current readings at the tube sockets.

All voltages and current ranges through the tester Cable are conveniently selected by a single rotary switch. Provision is made through the use of pin-tipped cables for continuity tests, resistance measurements and output meter readings.

Complete with accessories and Instruction book less carrying case..... 70.00D

660 Carrying case..... 5.00D

METERS—Continued

Model 661 TUBE CHECKER

Test 4, 5, 6, large 7 and small 7 prong tubes a line voltage control compensates for variations in line voltage.

Complete with full instructions less carrying case 45.00D
661 Carrying case..... 5.00D

Model 662 OSCILLATOR

Self-modulated with frequency ranges from 100 to 3000 K. C. Divided into four bands.

A multiple position switch selects the frequency bands. A main frequency control selects the exact frequency desired in one band.

Complete with a calibration curve for each wave band, one 32 tube, necessary batteries and instruction chart, less carrying case 50.00D

662 Carrying case..... 5.00D

Model 663 VOLT-OHMMETER

Will indicate readings as low as 0.1 ohm. The first calibrated meter division is 0.2 ohm, the high range permits the testing of grid leaks to 10 megohms. The wide coverage of ranges is made possible through the use of an especially sensitive 50 microampere instrument and a selector switch to connect the proper resistances and self contained batteries for each range of resistance.

Complete with self-contained batteries and test leads, less carrying case 60.00D

663 Carrying case..... 5.00D

Model 664 CAPACITY METER.

Designed for a wide range of capacity and A-C voltage measurements. Ranges: microfarads: 10-200, 1-20, 0.1 to 2, 0.01 to 0.2, 0.0001-0.02; volts: 4-8-40-200-400-800 AC, 1000 ohms per volt

Complete with test leads and instructions, less carrying case 55.00D

664 Carrying case..... 5.00D

Model 590 Oscillator with 571 output meter and tubes 138.00D

Model 590 Oscillator without output meter..... 108.00D

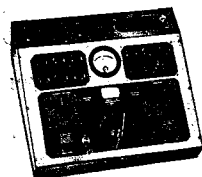
Bi-Polar Switch, 10 points..... 4.25F

Bi-Polar Switch, 24 points..... 11.00F

Portable Mounting Bases for 301 and 425 Meters..... 2.75D

Extra Bakelite Cases for 301 and 476 Meters..... 1.50N

JEWELL METERS. A full line of Jewell meters of all types. Order by pattern number. Standard discounts apply.



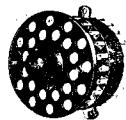
DAYRAD NO. 325



JEWELL NO. 444



Weston Universal



WESTON
23-Pt. Bi-Polar

Complete with long test leads with clips and adapter..... 29.00D

JEWELL 444 ANALYZER

Accurately tests every circuit in any radio receiver and tests 4, 5, 6 or 7 prong tubes under actual operating conditions.

Available meter readings are: AC 0.4-8 amperes, 0-100 milliamperes and 0.4-8-160-400-800 volts; DC 0-12-60-120 milliamperes, 0-6-12-30-60-120-300-600 volts and 0-1000-10,000-100,000 ohms.

Twenty-one ranges are available externally for test lead connections. Among these are three output meter ranges and three resistance measuring ranges.

Complete with all required accessories and instruction book..... 117.50D

JEWELL 675 TUBE CHECKER

A two range instrument permits reading on all types of tubes. Sixteen sockets are moulded in the panel to receive all present types of tubes..... 35.00D

METERS—Continued

JEWELL 559 OUTPUT METER

Three ranges 3, 15 and 60 volts. A $2\frac{3}{4}$ inch DC instrument in a full wave copper-oxide rectifier circuit measures the AC component of the current measures in the receiver output circuit.

BAR HANDLES FOR ROTARY SWITCHES

J-10767	Jewell bar handle $2\frac{1}{2}$ inches.....	.30D
J-10829	Jewell bar handle $1\frac{1}{2}$ inches.....	.25D
D-67669	Weston bar handle $2\frac{1}{4}$ inches.....	.35D

WESTON STANDARD TEST LEADS

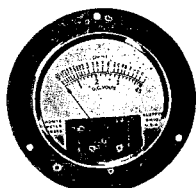
Insulated for 5000 volts, elbow terminals, long test prods.

Nb. D 70033-4..... 1.50D

DAYRAD Type 325 TUBE TESTER

A precision tube testing instrument employing a testing circuit for dynamic mutual conductance. Direct current plate voltage and grid bias voltage are supplied to the tube under test by means of a power pack and rectifier tube self contained in the instrument. Will test all types of tubes including the ones recently announced, also provision is made for installing testing of new types of tubes when announced.

44.80N



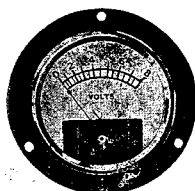
Readrite No. 501



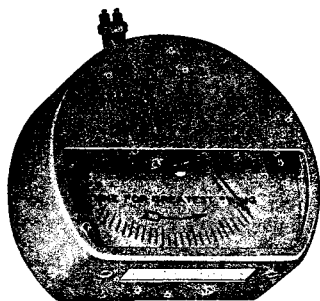
Weston D-70033-4



TRIPLETT
Model No. 321



Readrite Model 65



READRITE TM-103



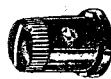
J-10767



J-10829



D-67669



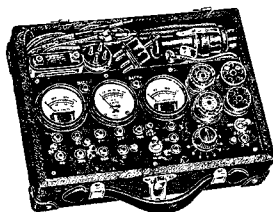
Push Button

READRITE METERS:

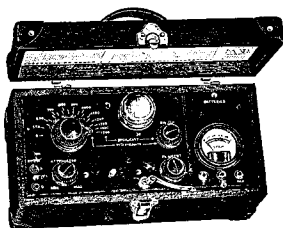
DC		Portable Type Voltmeters		AC	
346	0-300 Volts.....	\$ 4.50	348	0-150 Volts.....	4.00
347	0-500 Volts.....	5.50	349	0-300 Volts.....	5.00
446	0-60-300 Volts.....	4.50	247	0-600 Volts.....	6.00
750	0-750 Volts.....	6.00	248	0-150-750 Volts.....	8.00
DC		Portable Type Milliammeters		AC	
225	0-25 MA.....	\$ 3.00	470	0-25 MA.....	3.00
290	0-100 MA.....	3.00	471	0-50 MA.....	3.00
292	0-200 MA.....	3.00	472	0-100 MA.....	3.00
294	0-400 MA.....	3.00	473	0-250 MA.....	3.00
			474	0-500 MA.....	3.00

METERS—Continued

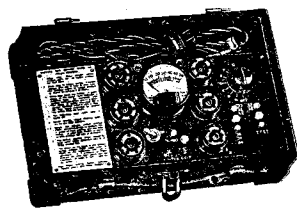
DC		Portable Type Ammeters		AC
280	0-1 Amperes.....	\$ 3.00	460	0-1 Amperes..... 3.00
281	0-5 Amperes.....	3.00	462	0-5 Amperes..... 3.00
328	0-10 Amperes.....	3.00	463	0-10 Amperes..... 3.00
201	0-50 Amperes.....	3.00	464	0-50 Amperes..... 3.00
Panel Type DC Voltmeter:				
601	0-1; 603 0-3; 605 0-5; 325 0-6; 335 0-8; 310 0-10; 316 0-15; 333 3-0-3;			
607	0-25 and 337 0-50 volts, each.....			1.00
608	0-25 Volts, high resistance.....			2.50
339	0-100 Volts.....	\$ 1.25	342	0-150 Volts..... 1.50
337-H 0-50; 339-H 0-100; 342-H 0-150 and 345-P 0-300 Volts, high resistance meters, each.....				3.00
347-P 0-500 and 246-P 0-60-300 Volts, high resistance, each.....				4.00
609	0-750 Volts high resistance.....			5.00
341	0-8-160 Volts.....			2.00
Panel Type DC Ammeters:				
380	0-1; 381 0-5; 336 0-3; 338 0-10; each.....			1.00
Panel Type DC Milliammeters:				
305	0-5 Milliampers.....			2.00
311	0-10; 395 0-20-100 and 402 0-15-150.....			1.75
315	0-15; 325 0-25; 350 0-50; 390 0-100; 391 0-150; 392 0-200; 399 0-300 and 394 0-400 Milliamperes, each.....			1.00
Panel Type AC Voltmeters:				
314	0-4; 353 0-6; 352 0-10 and 351 0-15 Volts, each.....			2.50
348-P	0-150 and 355-P 0-10-140 Volts, each.....			4.00
349-P	0-300.....	\$5.00	247-P 0-600.....	\$5.00
			249	0-750..... 7.00
Panel Type AC Ammeters:				
360	0-1; 361 0-3; 362 0-5 and 353 0-10 Amperes, each.....			2.50
364	0-50 Amperes.....			3.00
Panel Type AC Milliammeters:				
370	0-25; 371 0-50; 372 0-100; 373 0-250 and 374 0-500, each.....			2.50
500	Direct reading ohmmeter. 4.5 volts; 10,000 ohms. Portable.....			6.00
502	Direct reading ohmmeter 0-10,000-0-40.....			7.00
501	Resistance Meter. A panel mounting type.....			2.50
850	Capacity Tester. Tests paper, mica and electrolytic condensers, less cover.....			15.00
800	Double scale capacity tester for paper and mica condensers.....			8.00
575	Output Meter. Indicates voltage and power output, case type.....			7.50
555	Output AC voltmeter, panel type.....			6.50



READRITE NO. 710-No. 711



READRITE NO. 550



READRITE NO. 406

- 710 Set Analyzer. A three meter tester for checking all parts of tube circuits. The scale readings are 0-20-60-300-600 DC volts; 0-10-140-700 AC volts and 0-20-100 milliamperes. AC and DC filament voltages measured on one meter.....

25.00

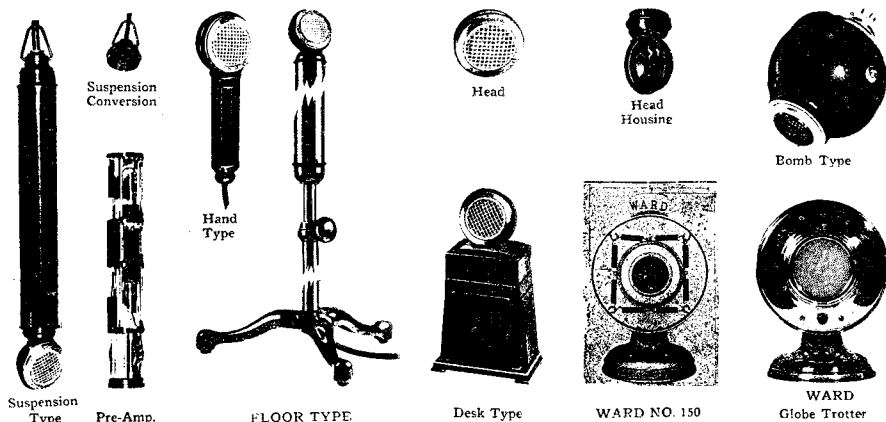
METERS—Continued

610	Set Analyzer. Same as 710 but with tool tray.....	30.00
406	Tube Tester. A single scale meter for testing 4, 5, 6 and 7 prong tubes, test both plates of 80 rectifier tube. The meter is connected in tip jacks. A pilot light is directly underneath the meter for illuminating the dial...	25.00
407	Tube and Short Tester. Combine the 406 tube tester with a complete Short test of the tube.....	30.00
406-710	Combination tube tester and set tester.....	50.00
550	Oscillator. A self modulated, shielded oscillator. The tuning dial is direct reading for intermediates 120-185 KC and 550-1500 KC. Sharp 2nd and 3rd harmonics cover intermediates 260-262 and 475 KC. Complete with panel output meter.....	35.00
551	Oscillator. Same as 550 but without output meter.....	30.00
1000	Continuity and capacity tester.....	55.00
TM-106	Tuning meter, 0-5, 0-7, 0-10, 0-15 ma.	1.50
	Escustcheon for TM-106.....	.25
560	Multiplier for AC voltmeter, 0-140.....	2.00
	Copper Oxide rectifier unit.....	3.00
TRIPLETT METERS		
Moving Coil Instruments, D'Arsonval Type, Guaranteed accuracy within 2%		
Model 321	Flush type 3½", scale length 2¾" DC voltmeters, 125 ohms per volt, 0 to 1, 3, 5, 10, 15, 25, 50, 100, 150.....	5.25K
	0 to 200, 250.....	6.25K
	0 to 300.....	7.50K
	0 to 500.....	8.50K
	0 to 1000.....	13.00K
	0 to 2000.....	16.00K
	DC Ammeters, self contained shunts:	
	0 to 1, 3, 5, 10, 25.....	5.25K
	0 to 50.....	6.25K
	DC Milliammeters:	
	0 to 1, 1.5, 3.....	6.25K
	0 to 5, 10, 15, 25, 50, 100, 200, 300, 500, 1000.....	5.25K
Model 223	2", rear clamp, scale length 1 2/32"	
	DC voltmeters, 125 ohms per volt	
	0 to 1, 3, 5, 10, 15, 25, 50, 100, 150.....	4.00K
	0 to 200, 250.....	5.25K
	0 to 300.....	6.00K
	0 to 500.....	7.00K
	DC Ammeters, self contained shunts:	
	0 to 1, 3, 5, 10, 25.....	4.00K
	0 to 50.....	5.25K
	DC Milliammeters:	
	0 to 1, 1.5, 3.....	5.25K
	0 to 5, 10, 15, 25, 50, 100, 200, 300, 500, 1000.....	4.00K
SUPREME AAA1 Diagaometer. This instrument makes every conceivable test on any radio set. It is the outstanding service instrument in the radio field.		
	Western net price.....	148.50N
AMERICAN RAD.O	Test Leads.....	.30N

MICROPHONES

WARD, Globe Trotter, for home broadcasting.....	1.00
WARD No. 150, single button, studio type, for home broadcasting.....	1.50

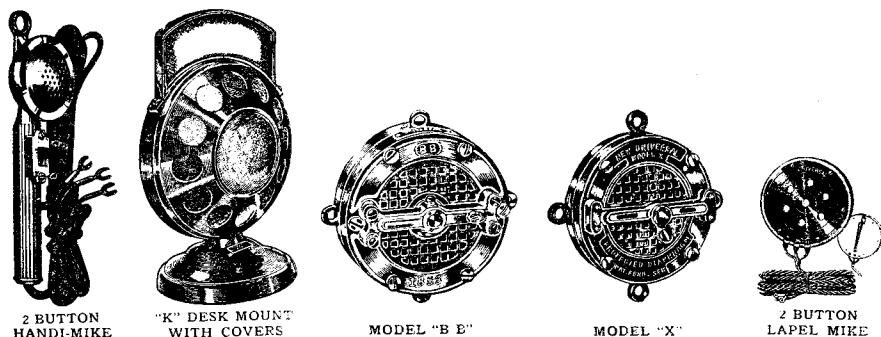
MICROPHONES—Continued



REMLER Condenser Microphone:

A hermetically sealed nitrogen gas filled transmitter head, acoustic equalizer and pressure equalized diaphragm. Completely moisture proof. Head housing is copper shielded and mica insulated. Two stages of amplification using 864 Tubes. Condensers sealed in bakelite casings. Floor type, adjustable from 43 61 inches, complete with tubes and 20 feet cable.

Suspension type, with tubes, less cable.	125.00
Desk type, with tubes and 20 foot cable.	100.00
Hand type, with tubes, less cable.	130.00
Bomb type, with tubes, less cable.	140.00
Transmitter Head, gold or chrome finish.	150.00
Head, with bakelite head housing.	40.00
Convertor, with 30 foot cable, for use with floor type.	48.00
Convertor, without cable.	10.00
Cable, rubber armored, 4 conductor and shield, per foot.	3.00
	.25



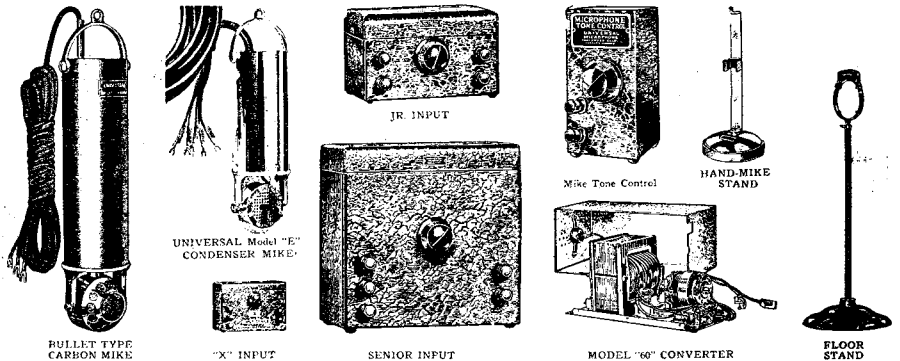
UNIVERSAL Microphones:

Model QRQ, A single button 200 ohms, for amateurs, mounted.	5.00
Model QRXF, A QRQ button mounted on Junior Input Stage.	12.00
BABY-MIKE, Single button, plugs into radio set for home entertainment.	7.50
HANDI-MIKE, A single gold faced button, equipped with an "off" and "on" thumb switch and 15 foot cord.	
Model No. 200, Regular Model.	10.00
Model No. 50, For home recording.	10.00

The LARGEST and OLDEST RADIO PARTS JOBBER West of Chicago

MICROPHONES—Continued

HAND-MIKE , double button, 200 ohms per button.....	15.00
Model W , Watch model single button, completely protected.....	3.00
Model Y , same as W, except that front face is diaphragm proper.....	2.00
Model X , 2 buttons, 200 ohms per button. Frequency 100 to 4000 cycles.....	10.00
Model A , gold faced button, 200 ohms, 3" diameter, 1 1/4" thick.....	15.00
Model BB , 2 buttons pure gold spot centers, 200 ohms per button, frequency 70 to 4000 cycles.....	25.00
Model KK Button . A rugged two button mike working 50 to 6000 cycles with 6 volts 8 to 10 mils. Gold center diaphragm.....	50.00
Model LL Button . Extra heavy broadcast type double button mike reproducing 30 to 7000 cycles on 6 volts 8 to 10 mils. This instrument is perfectly damped and is in performance a superlative microphone.....	75.00



Bullet Type with hiss eliminating filter:

BB.....	\$50.00	KK.....	\$75.00	LL.....	100.00
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Model K Desk Mount. 5" in diameter for the KK, BB or A buttons. Ring mount less covers..... 5.00

Model K covers for Desk Mount. Per pair..... 4.00

Model L Desk Mount. 6 1/2" in diameter, 10" in height overall. Chrom finish. Made for LL Button. Less covers..... 10.00

Model L covers for Desk Mount, per pair..... 6.00

Banquet Stand. Chrom finish, adjustable in height from 18 to 30 inches. For Model A, BB, KK or LL buttons..... 15.00

Adjustable Floor Stand. Total extended height 5 1/2 ft. Chrom finish. Made all buttons. Without covers..... 20.00

Double Adjustable Floor Stand. For two mikes.... 30.00

5 1/4" Suspension Ring for A, BB or KK units with 8 springs..... 2.50

6 1/2" Suspension Ring for LL, WE387, etc., units with 8 springs..... 4.00

Junior Input Stage for use with A, Baby or QRQ Microphones..... 8.00

Senior Input Stage for use with BB, KK or LL Buttons..... 15.00

Microphone Cables, 3 conductors shielded and rubber covered, with plug and socket: 6 ft., \$2.75; 12 ft., \$4.50; 25 ft., \$7.50; 50 ft., \$12.00; 100 ft..... 19.00

Microphone extra suspension springs, each..... .10

Carbon Granules. Per vial (for 2 two button mikes)..... 1.00

Telephone Type Jack, 3 conductors for microphone use..... .75

Telephone Type Plug, 3 conductors for microphone use..... 1.50

SKINDERVICKEN BUTTON..... .95

PANELS

GOODRICH Black Hard Rubber, $\frac{3}{16}$ " Thick:

7x12.....	\$.90	7x14.....	1.10
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FORMICA, CELERON or SPAULDING Bakelite, Black or Walnut, $\frac{3}{16}$ " Thick:

7x12.....	\$ 1.95	7x24.....	3.94
7x14.....	2.30	7x26.....	4.25
7x16.....	2.60	7x28.....	4.59
7x18.....	2.95	7x30.....	4.92
7x21.....	3.45		

BAKELITE Panels also cut to special sized to order. May be supplied in $\frac{3}{16}$ ", $\frac{1}{4}$ " or $\frac{3}{8}$ " thickness. See "Bakelite" in front of book.

ENGRAVED PANEL PLATES Available in size $\frac{5}{16}$ "x1 $\frac{1}{8}$ "25

• ANTENNA •

Available in following markings

Ammeter	Doubled	Ground	Oscillator	Plate Volts
Ant-Ammeter	Driver Stage	Mili Ammeter	Phone C.W.	Rec. Send
Amplifier	Final Amp.	Microphone	Plate	Tuning
Antenna	Filaments	Monitor	Plate Mills	Volt Meter
Buffer	Fil. Volts	Modulator	Power Amp.	1st Stage
Buffer Amp.	Grid	Negative	Positive	2nd Stage

ALUMINUM PANELS 14 Gage:

7x10.....	\$.70	7x16.....	1.00
7x11.....	.75	7x17.....	1.10
7x12.....	.80	7x18.....	1.20
7x13.....	.85	7x19.....	1.30
7x14.....	.90	7x20.....	1.35
7x15.....	.95		

DURALUMINUM PANELS, $\frac{3}{16}$ " :

	Plain	Crackled Finish	Knurled Finish
7x10.....	\$ 1.90	\$ 2.65	3.65
7x11.....	2.00	2.75	3.85
7x12.....	2.15	2.90	4.10
7x13.....	2.25	3.00	4.30
7x14.....	2.40	3.15	4.65
7x15.....	2.55	3.30	4.85
7x16.....	2.70	3.50	5.45
7x17.....	2.90	3.70	5.90
7x18.....	3.15	3.95	6.15
7x19.....	3.35	4.15	6.45
7x20.....	3.60	4.40	6.85

PANEL LIGHTS

YAXLEY 330 Panel light for illuminating dials.....	.50
YAXLEY 305 Panel light socket.....	.10N
YAXLEY 310 Panel light with jewel.....	.50N

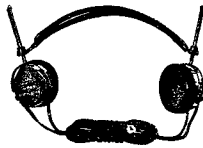
PHONE CORDS

HOLYOKE Single speaker cords. Pin, spade or loop terminals.....	.25
Double phone cords. Pin, spade or loop terminals.....	.30
1540 Three conductor Desk Stand cord.....	1.50
BIRNBACH:	
102 Speaker cord. Pin tips on both ends.....	.30
103 Speaker cord. Pin and spade tips.....	.30
106 Speaker cord. Pin and eye tips.....	.30
104, 105, 107 Phone cords.....	.50

PHONES



BRANDES



CANNONBALL



Trimm Feather Weight



ACME



Yax No. 305



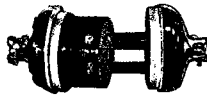
Yax. No. 310

BALDWIN Type E. Mica diaphragm 1 1/4" diameter.....	7.75
BALDWIN Type G. Mica diaphragm 1" diameter.....	7.75
BALDWIN Type C.....	6.60
ACME head-set, 2000 ohms.....	1.50E
WESTERN ELECTRIC 1002C.....	12.00D
CANNONBALL MASTER. A practical head-set for ordinary work.....	2.95
CANNONBALL "DIXIE".....	1.95
BRANDES Superior phones, 2000 ohms.....	3.00
TRIMM Featherweight Phones. An extremely light and sensitive headset.....	10.00

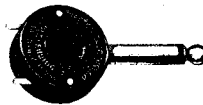
PLUGS



BUD PLUG



NO. 2724 "GE" NO. 2723



WESTON PLUG



YAX NO. 75 PLUG

WESTON. An automatic plug that fits any standard jack.....	.60F
YAXLEY:	
415 Pup plug. Fits all tip jacks or Yaxley 416 jack.....	.10
15 Midget plug. Fits Yaxley 16 Midget jack.....	.15
75 Duplex plug. Takes one or two speakers or phones.....	.50
BIRNBACH No. 402 Phone tips.....	.01
AMERICAN RADIO No. 10 Solderless plug.....	.05N
GENERAL Radio 274P. For use with the General Radio 274J jack.....	.10
JUBLEE Multi-plug. A plug to fit into phone tip jacks, arranged to take up to six phones. Used in pairs. Each.....	.10



NAALD
7BB-L



YAX. AMER R. AMERR. Yax.
NO. 15 NO. 180 PC NO. 120 No. 415



NAALD
NO. 95



NAALD
NO. 985



NAALD
NO. 985 F



NAALD
NO. 11 A



NAALD
105-104

NAALD 984. 4 Prong Plug for Cable End on Testers.....	.35
NAALD 985. 5 Prong Plug similar to 984.....	.35
NAALD 986. 6 Prong Plug similar to 984.....	.35
NAALD 984F, 985F, 986F. Handle type female plugs 4, 5 or 6 holes.....	.50
NAALD 94. Covered plug, 4 prongs.....	.15N
NAALD 95. Covered plug, 5 prongs.....	.15N
NAALD 96. Covered plug, 6 prongs.....	.15N

PLUGS—*Continued*

NAALD 97. Covered plug, 7 prongs.....	.15N
NAALD 104. Plain plug, 4 prongs.....	.09N
NAALD 105. Plain plug, 5 prongs.....	.09N
BUD 288. Cable plug, 4 prongs.....	.24N
BUD 289. Cable plug, 5 prongs.....	.24N
BUD 309. Cable plug, 6 prongs.....	.30N
BUD 313. Cable plug, 7 prongs.....	.30N
EBY. Cable plug 4, 6, 5 or 7 prongs.....	.20
EBY. Cable socket, 4 holes.....	.40
EBY. Cable socket, 5 holes.....	.45
EBY. Cable socket 6 holes.....	.50
EBY. Cable socket, 7 holes.....	.55
DEAL 875. Double socket.....	.10N
DEAL 76. 3 way tap.....	.16N
DEAL 550. 3 way plug.....	.10N
DEAL 901. Cap only.....	.03N
DEAL 74. Utility tap.....	.10N
WOODWIN 451. Wall tap.....	.09N
AMPEX cube tap.....	.10N
HERST 7003. Feed-through outlet.....	.06N
401. Rubber handle cap.....	.10N
INSULINE 1104. Long cable plug, 4 prongs.....	.24N
INSULINE 1105. Long cable plug, 5 prongs.....	.24N
G. E. 2723. Mike plug, 3 prongs.....	.75
G. E. 2724. Mike socket.....	1.00
ARROW 8146. Mike connector body only.....	1.00
ARROW 8147. Mike receptacle.....	1.75
ARROW S.A. Mike connector cap only.....	.75
UNIVERSAL telephone type plug for mike.....	1.50
UNIVERSAL telephone type jack for mike.....	.75
READRITE No. 66 plug with adapter clamp.....	.75
A.R.H. No. 120. Plug-in prongs, used. in coils and transmitting equipment, for use with no. 125 Jack.....	.08
A.R.H. No. 131. Insulated plug-in prongs, all colors, for use with No. 136 Jack, 1 3/4" long.....	.15

PHONOGRAPH PICKUPS



Universal Pickup and Recorder



Webster NO. 15 A



S-243



Audack Poly-Chron



WEBSTER NO. 10B



HYDRO-PICKUP



2 SPEED Green Flyer



Audack NO. 433

WEBSTER:

15A A Pickup. New modern design, flat type, bronze finished model complete with built-in volume control and adapter, 2000 ohms.....

10.50

PHONOGRAPH PICKUPS—*Continued*

WEBSTER

15B Same as 15A but adapted for new type records.....	12.50
17B Pickup. A special high output model for radio receivers with a low gain audio system. Complete with built-in volume control.....	17.00
10B Pickup. Complete for 33 r.p.m. and 78 r.p.m., 2000 ohms.....	18.50
10G Pickup. 500 ohms, complete.....	19.25
15AF Pickup, 200 ohms, complete.....	11.75
S243 Counter balance for new records.....	2.00
Thumb screw.....	.10
AUDAK 33. Polychron pickup.....	24.50
AUDAK 433. 2000 ohms pickup less volume control.....	8.50
HYDRO pickup, 2000 ohms with volume control.....	5.10N
UNIVERSAL MICROPHONE CO., Combination phonograph pickup and recording head. Approximate impedance 400 ohms designed to match the input terminals of all standard microphone transformers.....	15.00
AUDAK DUO-DISC, 33 $\frac{1}{3}$ to 78 R.P.M. transforms any machine into a modern dual-speed instrument.....	9.50

PACENT:

120 New type Phonovox complete.....	13.50
171 Recordovox. For home recording.....	25.00

REMSEN. Grooved or plain blank records for home recording:

6" blank.....	.30
8" blank.....	.50
10" blank.....	.75
12" blank.....	1.00

PHONOGRAPH MOTORS

NEW GREEN FLYER for new and old records 33 RPM and 78RPM. Complete with 12" turntable.....	10.50N
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PUBLIC ADDRESS EQUIPMENT

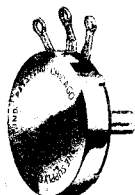
Equipment for Public Address work such as trumpet horns, units, amplifiers, microphones, etc., will be found in their respective places in this catalog. We are distributors of the famous WEBSTER ELECTRIC CO., of Racine, Wisc., line of rack and panel and portable amplifiers of all types for public address work, as well as the complementary lines of the equipment such as RACON and FOX for horns and trumpets; UNIVERSAL for microphones; and other lines which are used in this field. Our technicians will be more than glad to assist in specifying the proper equipment for any installation, or we should welcome an opportunity to give a demonstration in our sound room maintained for this purpose.

POTENTIOMETERS

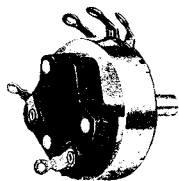
YAXLEY Potentiometers:

TYPE "H". Dissipates 4 watts, 1 $\frac{1}{2}$ " diameter; Resistances: 20, 25, 30, 40, 50, 60, 75, 100, 200, 400 and 600 ohms.....	1.00
Resistances: 1000, 2000, 3000, 4000 and 5000 ohms.....	1.25
Resistances: 10,000, 15,000, 20,000 and 25,000 ohms.....	1.50

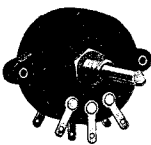
POTENTIOMETERS—Continued



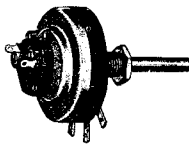
FROST Series "70"



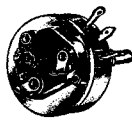
FROST Series "T-70"



CRL "TWIN"



CRL JR. with Switch



Carter CPS

CENTRALAB Potentiometers:

Junior Radiohm, without switch, all resistances.....	.75N
Junior Radiohm, with switch, all resistances.....	.90N
Junior Potentiometer, without switch, all resistances.....	.75N
Junior Potentiometer, with switch, all resistances.....	.90N
Senior Potentiometer, all resistances.....	2.50 I
Twin Junior Potentiometer, all standard resistances.....	

A big assortment of special volume controls in both single and twin units carried in stock at all times. In ordering give name and model number of set. Ask for quotation.

M-25, 250,000 ohm, and **M-5000**, 500,000 ohm modulators, each..... 2.50 I

Power Potentiometers. Wire wound, for voltage control in any circuit where dissipation in resistor does not exceed 35 watts:

48-015 15 ohms.....	\$ 1.50 I	48-250 250 ohms.....	1.50 I
48-150 150 ohms.....	1.50 I	48-400 400 ohms.....	1.50 I

Heavy Duty Potentiometers. Wire wound. Will carry a current load at a power dissipation of 20 watts through entire resistor itself:

32-002 2000 ohms.....	\$2.00 I	32-010 10000 ohms.....	2.00 I
32-005 5000 ohms.....	2.00 I	32-015 15000 ohms.....	2.00 I

CLAROSTAT:

Type P-58, wire wound:

50 to 500 ohms standard potentiometer.....	1.00
750 to 7500 ohms standard potentiometer.....	1.10
750 to 7500 ohms tapered potentiometer.....	1.20
10000 and 15000 ohms standard potentiometer.....	1.20
10000 and 15000 ohms tapered potentiometer.....	1.30
20000 ohms standard potentiometer.....	1.30

Type P-10, wire wound:

20000 and 30000 ohms.....	1.50
40000 and 50000 ohms.....	1.60

Type P-185, wire wound, ad-a-switch type:

50 to 500 ohms.....	.80
750 to 7500 ohms.....	.90
10000 and 15000 ohms.....	1.00
20000 ohms.....	1.10
25000 ohms.....	1.20
30000 ohms.....	1.30
40000 and 50000 ohms.....	1.40
S185 cover plate with switch.....	.50

POTENTIOMETERS—Continued

CARTER Potentiometers:

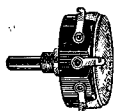
CP type from 1000 to 20,000 ohms.....	33.N
CPS type; same as CP but with switch.....	.46N

FROST Potentiometers:

Series 70, Without Switch

1000, 2000, 3000, 5000, 10,000, 15,000, 20,000, 25,000, 50,000, 75,000, 100,000, 150,000, 200,000, 250,000 and 500,000 ohms.....	.33N
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Series T-70, With switch, same resistances as series 70.....	.46N
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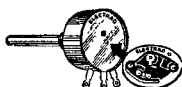
Clarostat P-185



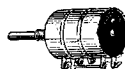
S-185



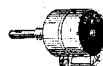
YAXLEY JR



Electrad "RI" Series



Electrad "TR"



Electrad "LR"

ELECTRAD, Potentiometers and Volume Controls:

STANDARD REPLACEMENT CONTROLS

Control Number	Value in Ohms	Control Number	Value in Ohms	Control Number	Value in Ohms
RI-201.....	15 000	RI-240.....	10 000	RI-276.....	1 000
RI-202.....	75 000	RI-241.....	30,000	RI-276.....	4,000
RI-203.....	500,000	RI-242.....	100,000	RI-278.....	5,000
RI-204.....	10	RI-269.....	20	RI-279.....	25,000
RI-205.....	50,000	RI-270.....	30	RI-280.....	25,000
RI-206.....	1,000,000	RI-271.....	50	RI-281.....	200,000
RI-208.....	250,000	RI-272.....	100	RI-282.....	600
RI-232.....	2,000	RI-273.....	200	RI-283.....	10,000
RI-233.....	3,000	RI-274.....	400	RI-560.....	7,500
RI-234.....	5,000	RI-275.....	800	RI-573.....	12,000

All Standard RI Controls—\$1.00 list Special "snap on" switch assembly—.50 list.

"R" TYPE SPECIAL REPLACEMENT CONTROLS

Control Number	Ohms	Price	Control Number	Ohms	Price	Control Number	Ohms	Price
R-49.....	500,000	\$1.25	R-1711.....	25,000	\$1.25	R-1809T.....	30,000	\$2.50
R-60.....	25,000	\$1.25	R-1712.....	40,000			75,000	
R-147.....	25,000	1.25	R-1713.....	1,500	1.50	R-1810T.....	645	2.50
R-166.....	75,000	1.25	R-1713.....	3,000	1.50			
R-179.....	50,000	1.25	R-1714TP.....	5,000	3.00	R-1812TP.....	2,000	3.00
R-205P.....	47,000	1.75		10,000			10,000	
R-277.....	6,000	1.25	R-1717TP.....	30,000	3.00	R-1816.....	10,000	1.00
R-296.....	10,000	1.25		50,000		R-1817TP.....	1,800	3.00
R-1387.....	10,000	1.00	R-1723G.....	1,800	1.25		5,000	
R-1434TP.....	11,500	3.00	R-1724.....	2,200	1.75	R-1823T.....	1,800	2.50
	110,000		R-1725.....	500,000	1.75		5,000	
R-1436.....	800	1.00	R-1735T.....	285	2.50	R-1824T.....	225	2.50
R-1437.....	10,000	1.00		5,000			5,000	
R-1513PG.....	5,000	1.75	R-1738.....	450	.75	R-1826T.....	250,000	2.50
R-1601T.....	800,000	2.50	R-1741TP.....	550	3.00		250,000	
	800,000			10,000		R-1827P.....	10,000	2.25
R-1618T.....	15,000	2.50	R-1742.....	6,000	.75	R-1828TP.....	10,000	3.25
	500,000		R-1745TP.....	2,000	3.00		5,000	
R-1651T.....	75,000	2.50		10,000		R-1832T.....	10,000	2.75
	10,000		R-1747.....	250,000	1.75		5,000	
R-1664.....	15,000	1.00	R-1748T.....	250,000	2.50	R-1833TG.....	50,000	2.75
R-1675.....	3,000	1.25		10,000			50,000	
R-1684.....	250,000	1.25	R-1757T.....	120,000	3.50	R-1844T.....	10,000	2.50
R-1686P.....	7,500	1.75		300,000			500,000	
R-1687.....	30,000	1.25	R-1759T.....	1,000	2.50	R-1848T.....	500,000	2.50
R-1688.....	5,000	1.50		100,000			500,000	
R-1706T.....	3,800	2.50	R-1802T.....	7,500	2.50			
	3,800			10,000				

POTENTIOMETERS—Continued

ELECTRAD, Potentiometers and Volume Controls—Continued

"RI" TYPE AND "RG" TYPE SPECIAL REPLACEMENT CONTROLS

Control Number	Ohms	Price	Control Number	Ohms	Price	Control Number	Ohms	Price
RI-31.....	20,000	\$1.25	RI-385.....	3,000	\$1.25	RI-479.....	600,000	\$1.25
RI-32.....	10,000	1.25	RI-400.....	10,000	1.75	RI-480.....	600,000	1.25
RI-110.....	100,000	1.25		5		RG-481.....	1,000	1.75
RI-111P.....	45,000	2.00	RI-401.....	2,000	1.50	RG-482.....	1,000	1.25
RI-131.....	60,000	1.25	RI-402.....	2,000	1.50	RG-483.....	250,000	1.75
RI-132P.....	100,000	2.00	RI-403.....	2,900	1.50	RG-484.....	500,000	1.75
RI-156P.....	10,000	2.00	RI-404.....	500	1.50	RI-485.....	100,000	1.50
RI-236P.....	45,000	2.00	RI-405.....	1,200	1.50	RI-488.....	2,800	1.25
RI-254.....	20,000	1.25	RI-406.....	2,000	1.50	RG-489.....	2,000,000	1.50
RI-255P.....	10,000	2.00	RI-407.....	550	1.50	RI-491.....	3,000	1.25
RI-292.....	3,000	1.25	RI-408.....	50,000	1.25	RG-492P.....	500,000	2.00
RI-298.....	32,000	1.25	RI-409P.....	12,000	2.00	RG-493P.....	10,000	1.75
RI-316.....	250,000	1.25	RI-413.....	42,000	1.25	RG-494.....	24,000	1.25
RI-325.....	3,000	1.25	RI-422.....	50,000	2.00	RI-495.....	500,000	1.25
RI-347.....	10,000	1.50	RI-424P.....	3,500	2.50	RI-496.....	100,000	1.25
RI-348.....	10,000	1.25	RI-433P.....	550	2.25	RG-498P.....	15,000	2.00
RI-354.....	250,000	1.25	RI-438.....	1,260	1.25	RI-504.....	125,000	1.25
RI-355.....	75	1.50	RI-439.....	90	1.25	RI-522P.....	250,000	2.00
RI-357.....	50,000	1.25	RI-440PG.....	11,500	2.25	RI-524T.....	15,000	3.00
RI-358P.....	5,000	2.00	RI-441.....	900	1.25	RI-531.....	5,000	1.75
RI-359P.....	750	2.00	RI-444PG.....	6,500	2.25		10	
RI-360P.....	2,200	2.00	RI-446PG.....	10,000	2.25	RI-549.....	50,000	1.25
RI-361P.....	15,000	2.00	RI-447P.....	50,000	2.00	RI-550P.....	50,000	2.00
RI-365.....	18,000	1.50	RI-448.....	50,000	1.25	RI-551.....	200,000	1.25
RI-372.....	20,000	1.25	RI-449.....	500,000	1.25	RI-552P.....	85,000	2.00
RI-376P.....	15,000	2.00	RI-450G.....	10,000	1.50	RI-553.....	50,000	1.25
RI-379.....	500,000	1.25	RG-460P.....	6,500	1.75	RI-561.....	2,000	1.25
RI-380P.....	200,000	2.00	RG-462PG.....	3,500	2.25	RI-592G.....	4,500	1.50
RI-381G.....	4,000	1.50	RG-463PG.....	600	2.25	RI-614P.....	500,000	2.00
RI-382.....	20,000	1.25	RG-464P.....	400,000	1.75	RI-615.....	500,000	1.25
RI-383G.....	4,000	1.50	RG-465.....	80,000	1.25			
RI-384.....	60	1.25						

"F" AND "FB" TYPE SPECIAL REPLACEMENT CONTROLS

Control Number	Ohms	Price	Control Number	Ohms	Price	Control Number	Ohms	Price
F-200.....	15,000	\$2.40	FB-449.....	100,000	\$2.40	FB-567T.....	25,000	\$4.00
FB-221.....	25,000	2.40	FB-478T.....	15,000	4.00	FB-570T.....	20,000	4.00
FB-228T.....	50,000	4.00	FB-479T.....	75,000	4.00		25,000	
FB-271T.....	50,000	4.00		15,000		FB-549T.....	50,000	10,000
	10,000		15,000	4.00	1,500			
FB-336T.....	50,000	4.00	500	FB-558.....	100,000	10,000		
	1,000							

ELECTRAD ROYALTY "T-PAD"

The panel and rear unit are series resistors the center unit is the shunt resistor.

TR-15, 15 ohms.....	3.50
TR-200, 200 ohms.....	3.50
TR-500, 500 ohms.....	3.50
TR-3000, 3000 ohms.....	3.50
TR-5000, 5000 ohms.....	3.50

ELECTRAD ROYALTY "L-PAD"

The panel unit is the series resistor the rear unit is the shunt resistor.

LR-15, 15 ohms.....	2.50
LR-200, 200 ohms.....	2.50
LR-500, 500 ohms.....	2.50
LR-3000, 3000 ohms.....	2.50
LR-5000, 5000 ohms.....	2.50

POTENTIOMETERS—Continued

ELECTRAD SUPERTONATROL

3 watt capacity, pure silver low resistance contact resistance remains constant and uniform indefinitely.

FB-551,	500 ohms, uniform potentiometer	2.40
FB-552,	1000 ohms, uniform potentiometer	2.40
FB-553,	2000 ohms, uniform potentiometer	2.40
FB-554,	5000 ohms, uniform potentiometer	2.40
FB-555,	10,000 ohms, reverse potentiometer	2.40
FB-556,	25,000 ohms, Reverse potentiometer	2.40
FB-557,	50,000 ohms, Reverse potentiometer	2.40
FB-558,	100,000 ohms, Uniform potentiometer	2.40
FB-559S,	50,000 ohms, four terminal potentiometer with 25,000 ohms each side of center for phonograph fader	3.00

RESISTORS

Carbon Pigtailed Replacement Resistors. Colored according to RMA Code:

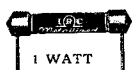
1 watt size, all resistances, each	.06N
2 watt size, all resistances, each	.12N
Suppressors, for Auto Radio spark plugs and distributor	.16N



AERVOX Adjustable



DISTRIBUTOR TYPE



1 WATT



Precision Wire Wound



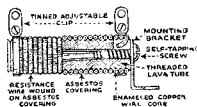
PLUG TYPE



"PG"



BUICK TYPE



Electrad "A" "B" "C" & "D"



READRITE NO. 41



CARTE "CE"



PLOT CENTER-TAPPED RESISTANCE

LYNCH Resistors:

Type LF4 (pigtailed) 1 watt, all resistances up to 10 meg.	.06N
Type LR4 (pigtailed) 2 watt, all resistances up to 2 meg.	.12N
Single grid Leak Mounts	.35
Double grid Leak Mounts	.45

DURHAM Resistors:

Type F1 (pigtailed) 1 watt, all resistances up to 10 meg.	.06N
Type F2 (pigtailed) 2 watt, all resistances up to 2 meg.	.12N

Precision Resistors, Wire Wound, Type WW1, 1 Watt, Tolerance 1%:

10 to 7,500 ohms, each	1.25E
10,000 to 90,000 ohms, each	1.50E
100,000 to 125,000 ohms, each	2.00E
150,000 to 175,000 ohms, each	2.25E
200,000 ohms	2.50E
225,000 to 250,000 ohms	\$2.75E
300,000 ohms	3.00E
400,000 ohms	3.50E
500,000 ohms	4.00E

RESISTORS — *Continued***Precision Wire Wound Resistors, Type WW2, 1 Watt, Tolerance 1%:**

500,000 ohms.....	\$4.00E	1,750,000 ohms.....	9.00E
750,000 ohms.....	4.50E	2,000,000 ohms.....	10.00E
1,000,000 ohms.....	5.00E	2,250,000 ohms.....	12.50E
1,250,000 ohms.....	7.50E	2,500,000 ohms.....	12.50E
1,500,000 ohms.....	7.50E		

I. R. C. Resistor Indicator

A calibrated variable wire wound resistor to determine resistance of defective or burnt-out resistors.....	4.00
--	-------------

BRADLEY X-26321 Spark Plug Suppressors for auto radio..... **.35**

BRADLEY X-26322 Ignition Coil Suppressors for auto radio..... **.35**

AEROVOX RESISTORS:**Pyrohm Resistors, Type 992, 15 watts:**

All resistances to 5000 ohms.....	.60
-----------------------------------	------------

Pyrohm Resistors, Type 994, 32 watts:

From 10 to 1000 ohms.....	.70
From 1500 to 12,000 ohms.....	.75

Pyrohm Resistors, Type 996-4, 60 watts:

From 100 to 1000 ohms.....	.85
From 1500 to 17,500 ohms.....	.90

Pyrohm Resistors, Type 996-5, 75 watts

From 100 to 25,000 ohms.....	1.10
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Pyrohm Resistors, Type 996, 100 watts

From 50 to 1000 ohms.....	1.20
From 1200 to 35,000 ohms.....	1.25

Pyrohm Resistors, Type 998, 200 watts:

From 10 ohms to 5000 ohms.....	1.75
10,000 ohms.....	1.85
20,000, 25,000, 50,000, 60,000 ohms.....	1.90

Pyrohm Adjustable Resistors, Type 952, 25 watts, 2" long:

1 to 10,000 ohms.....	.80
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Type 954, 50 watts, 4" long

5 to 5000 ohms.....	\$ 1.10	10,000 ohms.....	1.35
7500 ohms.....	1.25	15,000, 20,000, 25,000 ohms.....	1.45

Type 956, 75 watts, 6" long:

100 to 10,000 ohms.....	\$ 1.40	25,000 ohms.....	1.60
15,000 ohms.....	1.50	50,000 ohms.....	1.75

Pyrohm Resistor Mounts:

Types V-1 and H-1, each.....	.15
Types V-2, VV-1 and H-2, each.....	.25
Types VV-2, HH-1 and HH-2, each.....	.35

Grid Leak Mounts:

1049 Single.....	.25	1050 Double.....	.50
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WARD LEONARD Vitrohm Resistors:

3 5,000 ohms 200 watts Transmitting GL up to 1000 watts input.....	3.75
4 50,000 ohms 200 watts for circuits using UX852.....	8.75
5 20,000 ohms 200 watts for circuits using UX852.....	4.50
51 10,000 ohms 200 watts. Transmitting GL up to 1000 watts input.....	3.85
All Other WARD LEONARD Products obtainable, ask for Quotations.	

PILOT Resistors:

350 Resistograd, 20 watts, 40 to 10,000,000 ohms.....	.85
352 Center-tap, 10 ohms.....	.25
354 Center-tap, 20 ohms.....	.25
356 Center-tap, 50 ohms.....	.25
358 Center-tap, 75 ohms.....	.25

RESISTORS — *Continued***CARTER Resistors:**

Type E Upright type resistors. Will dissipate 2.5 watts:

All resistances from .25 to 50 ohms, each.....	.25
All resistances from 100 to 1000 ohms, each.....	.30
2000 ohms..... \$.40 3000 ohms.....	.50

Type CE Upright center-tapped resistors:

All resistances from 6 to 50 ohms.....	.25
All resistances from 60 to 400 ohms.....	.30

YAXLEY Resistors:**800 Series Wire Wound Filament Resistors:**

801, 1 ohm to 860, 60 ohms, each.....	.25
8100, 100 ohms, to 81000, 1000 ohms, each.....	.35

Tapped Resistors:

806C, 6 ohms to 864C, 64 ohms, each.....	.35
8100C, 100 ohms to 8400C, 400 ohms, each.....	.45

Grid Resistances:

7100, 100 ohms to 7500, 500 ohms, each.....	.30
7600, 600 ohms to 73,000, 3000 ohms, each.....	.40

OHMITE RESISTORS:

Wirohm Wire Wound refractory cement coated 10 watts resistors, Type RD.
Size $1\frac{3}{4}$ " long, less than $\frac{3}{8}$ " diameter.

1 ohm to 25,000 ohms, 10 watts.....	.35
50,000 ohms, 20 watts.....	.65
75,000 ohms to 100,000 ohms, 20 watts.....	.75

Ohmite Heavy Duty Fixed Resistors, vitreous enameled, also carried in stock for transmitters. When ordering state resistance and wattage required.

ELECTRAD, Truvolt Adjustable Resistors:**TYPE A**10 Watts $\frac{3}{8}$ "x $1\frac{3}{4}$ "

Type	Resistance Ohms	Current Milli- amperes	Maxi- mum Volts
A-.01	1	3150	3
A-.02	2	2200	4.5
A-.025	2.5	2000	5
A-.03	3	1800	5.5
A-.05	5	1400	7
A-.075	7.5	1150	8.5
A-.1	10	1000	10
A-.15	15	815	12
A-.2	20	700	14
A-.25	25	630	16
A-.3	30	570	17
A-.5	50	450	22
A-.75	75	360	27
A-1	100	315	31
A-2	200	220	45
A-3	300	180	55
A-4	400	158	63
A-5	500	141	70
A-8	800	112	89
A-10	1000	100	100
A-12.5	1250	89	111
A-15	1500	81	122
A-20	2000	70	141
A-25	2500	63	158
A-30	3000	56	173
A-40	4000	50	200
A-50	5000	45	222
A-75	7500	36	274
A-100	10000	31	316
A-150	15000	26	388
A-200	20000	20	395
A-250	25000	16	400

LIST PRICE, All Values, \$.50 each

TYPE B25 Watts $1\frac{1}{16}$ "x2"

Type	Reis- tance in Ohms	Current Milli- amperes	List Price
B-1	100	500	\$.85
B-2	200	353	.85
B-2.5	250	320	.85
B-3	300	289	.85
B-4	400	250	.85
B-5	500	224	.85
B7.5	750	182	.85
B-8	800	177	.85
B-8.5	850	165	.85
B-10	1000	158	.85
B-12.5	1250	141	.85
B-15	1500	129	.85
B-20	2000	112	.85
B-22.5	2250	105	.85
B-25	2500	100	.85
B-30	3000	91	.85
B-35	3500	84	.85
B-40	4000	79	.85
B-45	4500	75	.85
B-50	5000	71	.85
B-60	6000	64	.85
B-70	7000	60	.85
B-72	7200	59	.85
B-75	7500	58	.85
B-80	8000	56	.90
B-90	9000	53	.95
B-100	10000	50	1.00
B-120	12000	45	1.00
B-150	15000	41	1.00
B-200	20000	35	1.15
B-250	25000	32	1.15
B-300	30000	29	1.25
B-400	40000	25	1.30
B-500	50000	22.5	1.40

RESISTORS—Continued

ELECTRAD, Truvolt Adjustable Resistors:—Continued

TYPE C

50 Watts $\frac{1}{16}$ "x4"
With one extra sliding clip

Type	Resistance in Ohms	Current Milli-amperes	List Price \$
C-1	100	700	1.35
C-2	200	500	1.35
C-3	300	406	1.35
C-4	400	353	1.35
C-5	500	316	1.35
C-7.5	750	259	1.35
C-8	800	252	1.35
C-10	1000	224	1.35
C-12.5	1250	200	1.35
C-15	1500	182	1.35
C-20	2000	158	1.35
C-22.5	2250	149	1.35
C-25	2500	141	1.35
C-30	3000	129	1.35
C-35	3500	119	1.35
C-40	4000	112	1.35
C-45	4500	105	1.35
C-50	5000	100	1.35
C-60	6000	91	1.50
C-70	7000	84	1.50
C-72	7200	83	1.50
C-75	7500	82	1.50
C-80	8000	79	1.50
C-90	9000	74	1.50
C-100	10000	71	1.65
C-120	12000	65	1.65
C-150	15000	58	1.65
C-200	20000	50	1.80
C-250	25000	45	1.85
C-300	30000	41	1.90
C-400	40000	35	1.95
C-500	50000	32	2.00
C-600	60000	29	2.10
C-800	80000	25	2.25
C-1000	100000	22.5	2.50

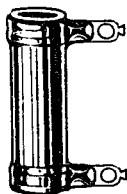
TYPE D

75 Watts $\frac{1}{16}$ "x6"
With one extra sliding clip

Type	Resistance in Ohms	Current Milli-amperes	List Price \$
D-1	100	865	1.60
D-2	200	610	1.60
D-3	300	500	1.60
D-4	400	432	1.60
D-5	500	387	1.60
D-7.5	750	316	1.60
D-8	800	306	1.60
D-10	1000	274	1.60
D-12.5	1250	245	1.60
D-15	1500	224	1.60
D-20	2000	194	1.60
D-22.5	2250	182	1.60
D-25	2500	173	1.60
D-30	3000	158	1.60
D-35	3500	146	1.60
D-40	4000	137	1.60
D-45	4500	129	1.60
D-50	5000	122	1.60
D-60	6000	112	1.65
D-70	7000	103	1.65
D-72	7200	102	1.65
D-75	7500	100	1.70
D-80	8000	97	1.70
D-90	9000	91	1.70
D-100	10000	87	1.90
D-120	12000	79	1.90
D-150	15000	71	2.15
D-200	20000	61	2.15
D-250	25000	55	2.25
D-300	30000	50	2.25
D-400	40000	43	2.25
D-500	50000	39	2.50
D-600	60000	35	2.75
D-800	80000	31	2.75
D-1000	100000	27	2.75

Sliding Taps Extra.....

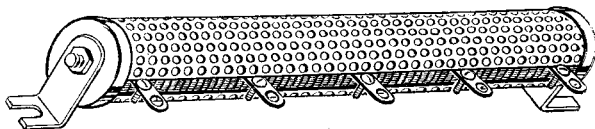
.10



ELECTRAD
TYPE "H"



ELECTRAD FLEXIBLE RES



ELECTRAD TYPE "SD"

Truvolt Tapped Units:

C 130S 13000 ohms in 5 sections.....	2.05
C 245-B2 Resistor Bank.....	3.50
V 586-D20-VC Special Loftin-White Resistor.....	1.75

Truvolt Wire Grid Resistances. Furnished in all sizes from 5 to 3000 ohms:
 Sizes 5 to 1000 ohms.....\$.25 Sizes 1100 to 3000 ohms..... .40

RESISTORS—Continued

ELECTRAD

TRUVOLT WIRE WOUND TYPE PG 1 WATT $\frac{5}{16}$ "x $\frac{1}{8}$ "

Type No.	Ohms	Milli-amperes	Resistor in Volts	Type No.	Ohms	Milli-amperes	Resistor in Volts
PG5	5	445	2.2	PG600	600	41	24
PG10	10	315	3.1	PG700	700	38	26
PG15	15	260	3.8	PG750	750	37	27
PG25	25	200	5	PG800	800	35	28
PG40	40	160	6.3	PG850	850	34	29
PG50	50	140	7	PG900	900	33	30
PG60	60	129	7.7	PG1000	1000	31	31
PG75	75	115	8.7	PG1250	1250	28	35
PG100	100	100	10	PG1500	1500	26	38
PG125	125	89	11	PG1600	1600	25	40
PG150	150	81	12.5	PG1750	1750	24	42
PG200	200	71	14	PG2000	2000	22	45
PG225	225	66	15	PG2250	2250	21	46
PG250	250	63	15.8	PG2500	2500	20	50
PG300	300	58	17	PG3000	3000	18	55
PG350	350	53	18	PG3500	3500	17	59
PG375	375	52	19	PG4000	4000	15	63
PG400	400	50	20	PG4500	4500	14	66
PG450	450	47	21	PG5000	5000	13	70
PG500	500	45	22				

All Resistances..... .25

TRUVOLT SHIELDED RESISTORS

1000 Volts Insulation provided with 3 extra adjustable taps overall $\frac{7}{8}$ "x $\frac{15}{16}$ "

Type No.	Resistance in Ohms	Current Milli-amperes	List Price	Type No	Resistance in Ohms	Current Milli-amperes	List Price
SD-1	100	865	\$1.85	SD-60	6000	112	1.90
SD-2	200	610	1.85	SD-70	7000	103	1.95
SD-3	300	500	1.85	SD-72	7200	102	1.95
SD-4	400	432	1.85	SD-75	7500	100	2.00
SD-5	500	387	1.85	SD-80	8000	97	2.00
SD-7.5	750	316	1.85	SD-90	9000	91	2.10
SD-8	800	306	1.85	SD-100	10000	87	2.25
SD-10	1000	274	1.85	SD-120	12000	79	2.25
SD-12.5	1250	245	1.85	SD-150	15000	71	2.50
SD-15	1500	224	1.85	SD-200	20000	61	2.50
SD-20	2000	194	1.85	SD-250	25000	55	2.65
SD-22.5	2250	182	1.85	SD-300	30000	50	2.65
SD-25	2500	173	1.85	SD-400	40000	43	2.65
SD-30	3000	158	1.85	SD-500	50000	39	2.75
SD-35	3500	146	1.85	SD-600	60000	35	2.80
SD-40	4000	137	1.85	SD-800	80000	31	2.90
SD-45	4500	129	1.85	SD-1000	100000	27	3.00
SD-50	5000	122	1.85				

ELECTRAD PRECISION RESISTORS

Enameled Wire Wound Low Temperature 5 Watt Rating Accuracy

 1% $\frac{1}{2}$ "x2" Isolantite Tube

Type	Resistance	Milli-amperes	List Price	Type	Resistance	Milli-amperes	List Price
V1181	500	100	\$.85	V1194	35000	12	1.25
V1182	1000	70	.85	V1195	40000	11	1.25
V1183	2000	50	.85	V1196	50000	10	1.25
V1184	3000	41	.85	V1197	60000	9	1.25
V1185	5000	31	1.00	V1198	75000	8	1.25
V1186	7500	25	1.00	V1199	80000	8	1.25
V1187	10000	22.5	1.25	V1200	90000	7.5	1.25
V1188	12500	20	1.25	V1201	100000	7	1.25
V1189	15000	18	1.25	V1202	125000	5.5	1.50
V1190	17500	17	1.25	V1203	150000	5	1.50
V1191	20000	16	1.25	V1204	200000	4.5	1.75
V1192	25000	14	1.25	V1205	250000	4	2.25
V1193	30000	13	1.25	V1206	500000	2.5	3.50

RESISTORS—Continued

ELECTRAD Wire Wound Vitreous Enamelled Resistors With Monel Metal Contact Lugs
 Isolantite Tube $\frac{3}{8}$ "x $\frac{1}{4}$ ". 10 Watt Rating.

Type No.	Ohms	Milli-amperes	Volts	Type No.	Ohms	Milli-ampere	Volts
H-875	1	3150	3	H-896	300	180	55
H-876	2	2200	4.5	H-897	400	158	63
H-877	3	1800	5.5	H-898	500	141	70
H-878	4	1600	6.5	H-899	600	130	77
H-879	5	1400	7	H-900	750	115	85
H-880	7.5	1150	8.5	H-901	1000	100	100
H-881	10	1000	10	H-902	1200	91	111
H-882	12	900	11	H-903	1500	81	122
H-883	15	800	12	H-904	2000	70	141
H-884	20	700	14	H-905	2500	63	158
H-885	25	630	16	H-906	3000	56	173
H-886	30	570	17	H-907	4000	50	200
H-887	35	530	19	H-908	5000	45	222
H-888	40	500	20	H-909	6000	41	245
H-889	50	450	22	H-910	7500	36	274
H-890	75	360	27	H-911	10000	31	316
H-891	100	315	31	H-912	12000	29	350
H-892	125	280	35	H-913	15000	26	388
H-893	150	260	39	H-914	20000	22	440
H-894	200	220	45	H-915	25000	20	500
H-895	250	200	50				

All Resistances..... .35

RHEOSTATS



**SUPER
POWER**



**UNIVERSAL
RANGE**



**VOLUME
CONTROL**



**RED
DEVIL**



**OHMITE
50 Watt RHED**

OHMITE, 50-watt Rheostat:

0309	1 ohm.....	\$ 4.00	0323	300 ohms.....	4.00
0310	2 ohms.....	4.00	0324	500 ohms.....	4.00
0311	4 ohms.....	4.00	0325	800 ohms.....	4.25
0312	6 ohms.....	4.00	0326	1000 ohms.....	4.25
0313	8 ohms.....	4.00	0327	1600 ohms.....	4.25
0314	12 ohms.....	4.00	0328	2500 ohms.....	4.25
0315	16 ohms.....	4.00	0329	3500 ohms.....	4.50
0316	22 ohms.....	4.00	0330	5000 ohms.....	4.50
0317	35 ohms.....	4.00	0331	8000 ohms.....	4.50
0318	50 ohms.....	4.00	0332	10000 ohms.....	4.50
0319	80 ohms.....	4.00	0333	15000 ohms.....	5.00
0320	125 ohms.....	4.00	0334	25000 ohms.....	5.50
0321	150 ohms.....	4.00	0335	35000 ohms.....	6.00
0322	225 ohms.....	4.00			

OHMITE 150 Watt Rheostat:

1, 2, 3, 5, 7.5, 10, 15, 35, 25, 50, 75, 100, 150, 200, 250, 350, 500 ohms, each.....	9.00
750, 1250 ohms, each.....	9.50
1800, 2250, 3000 ohms, each.....	10.00
4500 ohms, each.....	10.50
7500 ohms, each.....	11.00
10000 ohms, each.....	11.50
20000 ohms, each.....	12.00

RHEOSTATS—Continued

YAXLEY Rheostats:

Junior type and type "H", 4 watts. All resistances from 1 to 75 ohms.75

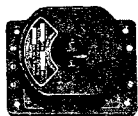
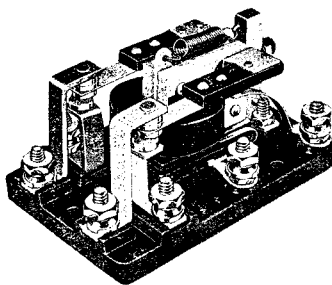
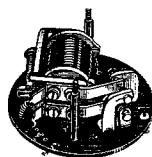
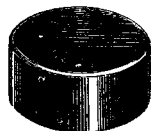
CLAROSTAT. Variable Resistors:

Standard Type, 20 watts, 100 to 5,000,000 ohms.2.25
 Power Filament Type, 40 watts, $\frac{1}{4}$ to 10 ohms.3.50
 Power Low Range Type, 40 watts, 25 to 500 ohms.3.50
 Power Universal Type, 40 watts, 200 to 100,000 ohms.3.50
 Super-Power Types: Same types as "Power" but 250 watts.6.00
 Volume Control, 8 watts, 10 to 500,000 ohms.1.50

RELAYS



NO. 634

WESTON
534LYNCH
SERIES "20" RELAYWESTON
D-68690

LEACH Type X20 Relay Code. For either A.C. or D.C. operation: the A.C. from 6 to 115 volts, and the D.C. from 2 to 24 volts.

S.P.S.T. double break, normally open or normally closed position.5.50A
 S.P.D.T. double break, normally open or normally closed position.6.50A
 D.P.S.T. normally open or normally closed position.6.00A
 D.P.D.T. normally open or normally closed position.7.50A

WESTON. Model 634; sensitive relay.13.50D
 Model 534; sensitive relay.27.50N
 ND 19747 auxiliary or power relay.5.00D

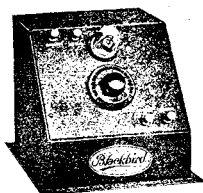
SHIELDS

HAMMARLUND TS-35. Tube shield for 224, 235 type.50
TS-50. Tube shield for 57, 58 type.60
NATIONAL T-58. Tube shield for 57, 58 type.40
NATIONAL TS. Tube shield for 24 type.40
NATIONAL J-30. Coil shield $2\frac{1}{2}$ " dia. $3\frac{3}{4}$ " high.35
NATIONAL B-30. Coil shield 3" dia., $3\frac{3}{4}$ " high.35
 Same as above with mounting base.50
ALUMINUM tube shield $4"x2\frac{1}{8}"$07N
ALUMINUM coil shield $3"x2\frac{1}{8}"$07N
ALUMINUM Tube shield for 57 type with Top Cap.10N
INSULINE 1184. Electralloy Can $8x8x6"$3.00
 1185. Electralloy Can $6x6x6"$2.75
 1187. Electralloy Can $5x5x6"$2.25
 1189. Electralloy Can $10x8x6"$3.50
 1212. Corner post.30
ALUMINUM corner moulding, per foot.14N
PILOT, 600 Shield cans.75

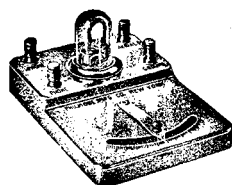
SETS



PHILMORE "SELECTIVE"

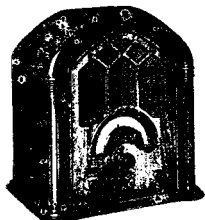


PHILMORE "BLACKBIRD"

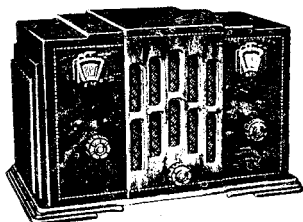


PHILMORE "SUPERTONE"

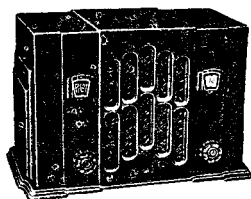
PHILMORE Supertone crystal set	1.50
Blackbird crystal set	3.00
Selective crystal set	5.00



PILOT "DRAGON"



PILOT MODEL E-20



PILOT MODEL B-2

P LOT "DRAGON," 7 tubes, All-Wave Superheterodyne. 9 coil circuit, no plug-in coils. Single control for all waves from 18 to 550 meters. Complete, all wired, with cabinet, tubes and speaker	59.50
DC model, 110 volts	64.50
PILOT B2, A superheterodyne 5 tube set. Operates on either 110 volts AC or 110 volts DC. Uses 2-77, 1-78, 1-43, 1-25Z5. Complete with tubes	25.00
PILOT E20, A Superheterodyne 6 tube set. Used 1-55, 1-57, 2-58, 1-2A5, 1-25Z5. Complete with tubes	30.00

SOLDER AND SOLDERING IRONS, ETC.

KESTER Rosin Core Solder, per 1 lb. spool	.70
KESTER Rosin Core Solder, per can of 6 feet	.25
W E 50-50 Solder, per lb.	.60
NOKORODE Paste, per can	.20



AMERICAN BEAUTY NO. 3128



AMERICAN BEAUTY NO. S-3138



AMERICAN BEAUTY NO. S-76

AMERICAN BEAUTY Irons:

S-76 Small electric iron. Flat tip. 50 watts	4.50D
3138 Iron; $\frac{3}{8}$ " Tip, 100 watts	8.00D
3158 Iron; $\frac{5}{8}$ " Tip, 200 watts	9.50D
3734 Tip only for S-76 Iron	.30C
3738 Tip only for 3138 Iron	.60C
3758 Tip only for 3158 Iron	1.20C
Element for S-76 Iron	3.00E
9273 Heating element for 3138 Iron	4.00E
9275 Heating element for 3158 Iron	5.25E

The LARGEST and OLDEST RADIO PARTS JOBBER West of Chicago

SOLDERING IRONS—Continued

JACKSON Standard No. 121 Electric Iron, 50 watts.....	1.25
JACKSON, No. 141, Electric Iron, 75 watts.....	2.50
JACKSON, No. 142, Electric Iron, 100 watts.....	3.10
JACKSON Tips, for No. 121.....	.15
WARD No. 168 Electric Iron.....	2.80
WARD No. 212 Electric Iron.....	1.75
WARD Radio Junior Electric Iron.....	2.50

SOCKETS



EBY Model "33"

JOHNSON
NO. 211

GR NO. 438



GP NO. 349

NATIONAL
ISOLANTITE

CRC WAFER



EBY "12"



EBY "8"

PILOT
UNIVERSALNAALD
436EJOHNSON
NO. 210

EENJAM N 9040 Spring type UX socket.....	40E
9044 Sub-panel mounting UX socket.....	.25E
9036 Spring type UY socket.....	.80E
9037 Sub-panel mounting UY socket.....	.35E
GENERAL RADIO 349 Bakelite rigid UX type socket.....	.35N
438 Bakelite rigid UY type socket.....	.35N
156 UV type socket with metal sleeve.....	.75N
EBY, Wafer sockets, 4, 5, 6 or 7 prongs.....	.15
Bakelite moulded top only, 4 or 5 prongs.....	.25
Bakelite moulded top only, 6 prongs.....	.30
Bakelite moulded top only, 7 prongs.....	.35
Full Bakelite moulded, 4 or 5 prongs.....	.35
Full Bakelite moulded, 6 prongs.....	.40
Full Bakelite moulded, 7 prongs.....	.50
Isolantite, 4, 5 or 6 prongs.....	.50
Isolantite, 7 prongs.....	.60
NATIONAL, SW Coil Socket, special 6 prongs.....	.75
Isolantite SW Coil socket, 6 prongs.....	.60
Isolantite Tube socket, 4, 5 or 6 prongs.....	.60
HAMMARLUND, Isolantite sockets for use with either coils or tubes:	
4, 5 or 6 prongs.....	.60
JOHNSON 210 Socket.....	1.50
JOHNSON 211 50 watt socket.....	2.00
NAALD 437, 7 prong socket.....	.35
437E, 7 prong socket heavy.....	.40
437A, 7 prong for small 7 prong tubes.....	.35
456E, Combination socket for testing apparatus, accommodate 4, 5 and 6 prong tubes.....	.60
READRITE Sockets especially designed for use in testing equipment	
4-S 4 prongs, 5-S 5 prongs.....	.25
6-S 6 prongs, 7-S prongs.....	.30
Combination socket, accommodate large or small 7 prong tubes.....	.30

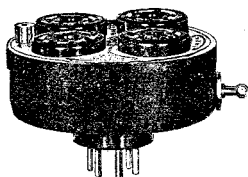
SOCKETS—Continued

MANUFACTURES Wafer sockets 4 or 5 prongs.....	.03N
Wafer sockets 6 or 7 prongs.....	.04N
C. R. C. Wafer sockets, with springs around the contacts 4, 5, 6 or 7 prongs....	.10
PILOT 212 Base type 5 prongs.....	.40
213 Base type 4 prongs.....	.40
214 Screw type 4 prongs.....	.25
215 Screw type 5 prongs.....	.25
216 Universal type 4 prongs.....	.25
217 Universal type 5 prongs.....	.25
CANDELABRA porcelain receptacle socket.....	.25
M'NIATURE porcelain receptacle socket.....	.25

SOCKET ADAPTERS



NAALD
907WL



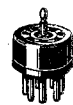
NAALD
950XYL



EBV
ADAPTER



NAALD
955KT



NAALD
977DS

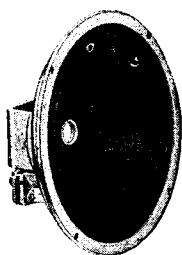
NAALD Adapters:

999	Puts any UX base tube into a UV199 socket.....	1.00
945	Four holes on top and five prongs below.....	1.00
954	Five holes on top and four prongs below.....	1.00
994N	To neutralize UX tubes in R. F. circuits.....	1.00
944-83	To check 83 tube in 80 socket of tube checker.....	2.50
944BHR	To check BH or BA tubes in 80 socket of tube checker.....	1.00
945GL	To analyze circuits of pentode tube with set analyzer having scale of 250 volts or more on screen grid voltage test of type 22 tube. Used with 954GL.....	1.25
954GL	Used with 945GL.....	1.25
955N	To neutralize UY tubes in R. F. circuits.....	1.00
955KT	To open cathode circuit of a UY socket to make series connections with a microphone, phonograph pick up, milliammeter, etc.	1.25
956DK	To analyze 57 and 58 tube circuits with a UY analyzer plug, where the set circuit has the suppressor-grid circuit tied to the cathode ...	1.00
964DS	For a 6 prong latch-lock analyzer plug in UX socket.....	1.25
965DS	For a 6 prong-latch lock analyzer plug in UY socket.....	1.25
965KS	To check 57 and 58 tubes in 24 socket, and 89 tubes in 36 socket of tube checkers.....	1.00
965DW	To analyze 6 prong tube circuit with set analyzer which test screen grid tubes and do not have a latch-lock analyzer plug.....	2.50
965DSW	To analyze 6 prongs tube circuits with set analyzer which test screen grid tubes and have latch-lock analyzer plug.....	2.50
965CG	To check 41, 42, 68, PA and PZH tubes in tube checkers having a UY screen grid socket with 6.3 volts applied to the heater contacts.	1.25
965-55	To check 55 and 85 tubes in 27 and 37 sockets of tube checker.....	3.00
965GGS	To check 29, 69, 70, wunderlich A and B tubes in UY screen grid socket of tube checkers.....	1.25
967SS	To analyze 7 hole socket for 59 tube with 6 prong analyzer plug with latch connected to the control grid circuit.....	1.25
974DS	For 7 prong latch-lock analyzer plug in 4 prong socket.....	1.25
975DS	For 7 prong latch-lock analyzer plug in 5 prong socket.....	1.25
976DS	For 7 prong latch-lock analyzer plug in 6 prong socket.....	1.25

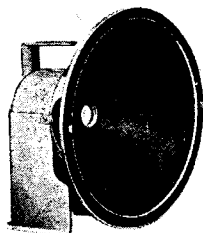
SOCKET ADAPTERS—Continued

982	To check 82 and 83 tubes in tube checkers which can test 45 and 80 tubes.	
905L	UY analyzer plug with one control grid insert.	.25
906WL	6 prong analyzer plug with 2 control grid inserts.	.35
907W	7 prong analyzer plug with 2 control grid inserts.	.40
954KPC	For testing pentode in 45 socket of tube tester.	.50
950XYL	Adapter for testing all the new tubes in practically all tube checkers. Will test the 19, 29, 33, 36, 37, 38, 39, 41, 42, 44, 46, 47, 49, 52, 55, 57, 58, 59, 64, 65, 67, 68, 69, 70, 80, 82, 83, 85, 88, 89, 293, 295, 985, 986, G2, G4, GA, LA, PA, PZ, PZH and Wunderlich tubes	.85
BUD No. 123	Adapter from 45 to pentode.	.35
No. 230	Duo Diode.	.35
EBY, Wired tube and Circuit Adapters:		.35
19AA	4 holes to 4 prongs.	.45
19AB	4 holes to 5 prongs.	.45
19AC	4 holes to 6 prongs.	.80
19BA	5 holes to 4 prongs.	.80
19BB	5 holes to 5 prongs.	.645
19BC	5 holes to 6 prongs.	.640
19CA	6 holes to 4 prongs.	.705
19CB	6 holes to 5 prongs.	.705
19CC	6 holes to 6 prongs.	.705

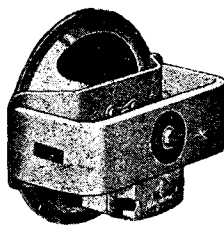
SPEAKERS



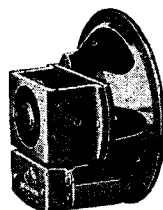
MODEL
152



MODEL
517



MODEL
254



MODEL
150

MAGNAVOX Dynamic Units:

150	(6 inch) 2500 ohms and 1500 ohms	7.50
150	(6 inch) 4 ohms, less case	7.50
150	(6 inch) 4 ohms, with case	10.50
154	(8 inch) 2500 ohms and 1500 ohms pushpull 45 or 47	9.50
152	(10 inch) 2500 ohms and 1500 ohms pushpull 45 or 47	10.50
443	110 volts AC push pull 45	25.00
517	(14 inch) Auditorium type 110 volts DC	36.00
521	(14 inch) Auditorium type 110 volts AC	60.00
254	Permanent magnet, push pull 45 or 47	15.00
20-201	Rectifier for 443 model.	5.00

RACON Units and Trumpets for public address:

BABY UNIT, Type A, operating capacity 5 watts, peak load 18 watts, 15 ohm voice coil, less transformer.	22.50
BABY UNIT, Type B, operating capacity 10 to 15 watts, peak load 50 watts, 15 ohm voice coil, less transformer.	25.00
JUNIOR UNIT, Type A, operating capacity 6 watts, peak load 20 watts, 15 ohms voice coil, less transformer.	30.00 ¹⁵
JUNIOR UNIT, Type B, operating capacity 15 to 20 watts, peak load 50 watts, 15 ohm voice coil, less transformer.	32.50 ⁹⁰

SPEAKERS—Continued

MANU

Waf

C. R.

PILOT

213

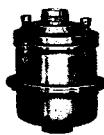
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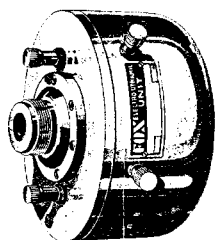
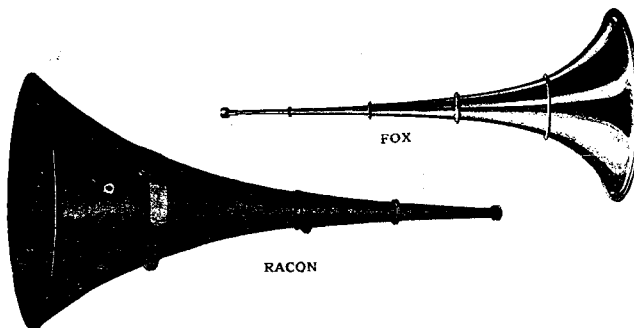
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CAT

RACON
GIANTRACON
MASTERRACON
JUNIORRACON
BABY

MASTER UNIT, operating capacity 20 watts, peak load 50 watts, 15 ohm voice coil, less transformer.....	40.00
GIANT UNIT, operating capacity 20 to 22 watts, peak load 50 watts, 15 ohm voice coil, less transformer.....	50.00
3½-foot Trumpet, DeLuxe. Equipped with metal beaded edge, cast aluminum ferrule and suspension ring, for indoor use.....	25.00
3½-foot Trumpet, Stormproof. Same as above but for outdoor use in all climates.....	40.00
6-foot Trumpet, regular. Equipped with metal beaded edge, cast aluminum throat, and 4 inch suspension ring; for indoor use only.....	50.00
6-foot Trumpet, Stormproof. Same as above but for outdoor use in all climates.....	65.00

Aeroplane type and theater type horns available. Prices on request.



FOX ELECTRO DYNAMIC UNIT. Fox diaphragm, only .002 inch thick, is moulded so that it forms its own core for the voice coil. Diaphragm is fully protected by a substantial die casting. The voice coil can be replaced without factory service. It is assembled with one large master screw, and a reserve coil cartridge can be substituted for the damaged one. 25 watts on the input, not to exceed 15 volts at 2 amp., voice coil 16 ohms.....		49.50
FOX ALUMINUM TRUMPETS:		
Weather proof light in weight, constructed in 3 sections.		
4 foot horn with 24 inch Bell.....		60.00
6 foot horn with 32 inch Bell.....		75.00
LANSING MAGNETIC SPEAKER		1.45N

SWITCHES

MARCO, Knife Switches, Small Space, Bakelite Base:

153 S.P.S.T.....	\$.60	157 3P.S.T.....	1.25
154 S.P.D.T.....	.70	158 3P.D.T.....	1.50
155 D.P.S.T.....	.90	159 4P.S.T.....	1.75
156 D.P.D.T.....	1.00	160 4P.D.T.....	2.00

SWITCHES—Continued

INSUL'NE Porcelain Base Knife Switches:

No. 235	Single pole, single throw.....	.25
No. 236	Single pole, double throw.....	.35
No. 237	Double pole, single throw.....	.40
No. 238	Double pole, double throw.....	.50
No. 239	Triple pole, double throw.....	.85

HART and HEGEMAN Switches:

20994B	Toggle, S.P.S.T., Nickel or Brass, short shank.....	.35
20994B	Toggle, S.P.S.T., Gun Metal, short shank.....	.40
21615BA	Toggle, S.P.S.T., Nickel, long shank.....	.35
21350	Toggle, S.P.D.T., 3 contacts, Nickel, short shank.....	.35
21661	Toggle, S.P.D.T., 3 contacts, Nickel, long shank.....	.35
21991	Toggle, S.P.D.T., 4 contacts, Nickel, short shank.....	.45
21656	Toggle, S.P.D.T., 4 contacts, Nickel, long shank.....	.45
20905H	Toggle, D.P.D.T., Nickel, short shank.....	.80
20905F	Toggle, D.P.D.T., Nickel, long shank.....	.80
3597	S.P.S.T., Nickel, push pull.....	.45
20599DF	Toggle, slotted, with leads for repl. Volume controls.....	.40
1671	Knob and pointer snap switch, 4 circuits.....	1.25
1561	Knob type, short shank.....	.35
1561AN	Knob type, long shank.....	.40
1561LC	Lock Switch.....	.60

HUBBELL 8480, Toggle S.P.S.T., Nickel.....

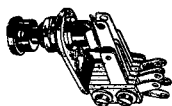
YAXLEY Switches:

NO. 10	Midget Filament Switch. With "On and Off" Plate.....	
NO. 11	Aerial Switch. For switching long and short aerial.....	
Tap Switch, Selector Switch, All Wave Switch.....		.60
No. 1612	Single gang, 2 points.....	1.50
No. 1622	Two gang, 2 points.....	
No. 1632	Three gang, 2 points.....	1.35
No. 1642	Four gang, 2 points.....	1.50
No. 1613	Single gang, 3 points.....	
No. 1623	Two gang, 3 points.....	
No. 1633	Three gang, 3 points.....	.25N
No. 1643	Four gang, 3 points.....	.25N
No. 1614	Single gang, 4 points.....	.25N
No. 1624	Two gang, 4 points.....	.25N
No. 1634	Three gang, 4 points.....	5N
No. 1644	Four gang, 4 points.....	
No. 1615	Single gang, 5 points.....	5N
No. 1625	Two gang, 5 points.....	N
No. 1635	Three gang, 5 points.....	N
No. 1645	Four gang, 5 points.....	N
No. 1616	Single gang, 6 points.....	N
No. 1626	Two gang, 6 points.....	1.
No. 1636	Three gang, 6 points.....	2.
No. 1646	Four gang, 6 points.....	2.
No. 1617	Single gang, 7 points.....	.95
No. 1627	Two gang, 7 points.....	1.60
No. 1637	Three gang, 7 points.....	2.20
No. 1647	Four gang, 7 points.....	2.80
No. 1618	Single gang, 8 points.....	1.15
No. 1628	Two gang, 8 points.....	1.90
No. 1638	Three gang, 8 points.....	2.50
No. 1648	Four gang, 8 points.....	3.10
No. 1619	Single gang, 9 points.....	1.15
No. 1629	Two gang, 9 points.....	1.90
No. 1639	Three gang, 9 points.....	2.50
No. 1649	Four gang, 9 points.....	3.10

SWITCHES—Continued

YAXLEY

No. 1610	Single gang, 10 points.....	1.15
No. 1620	Two gang, 10 points.....	1.90
No. 1630	Three gang, 10 points.....	2.50
No. 1640	Four gang, 10 points.....	3.10



YAX. 2000 Series



YAX. NO. 10



C-H 4 POSITION



GR NO. 202



GR



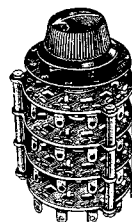
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EBY NO. 14



IO OWL

FEDERAL
1425WFEDERAL
1424WYAXLEY
Multi-Deck-Switch

Button Switches, made on the Junior Frame:

01	Make contact.....	.90
02	Break contact.....	.90
03	Single pole, double throw.....	1.00
04	Two make contacts.....	1.20
05	Two break contacts.....	1.20
06	Double pole, double throw.....	1.50
07	Make two, break one.....	1.30
08	Double throw, make before break.....	1.65

FEDERAL RADIO 138C Switch point..... .05N

FEDERAL RADIO 138Q Switch stop..... .05N

FEDERAL RADIO 202 Low Resistance Contact Switch. 1 3/8" radius..... .75N

FO STON 10 point Bi-Polar Switch. Consists of two single-pole multiple point switches mounted on the same shaft so they turn together but are electrically insulated from each other, center common contacts on the two switches are brought out to soldering lugs. The other contact points are brought out at the sides of the switch housing as soldering lugs arranged in pairs..... 4.25F

Point Bi-Polar Switch..... 11.00F

FEDERAL 1242W. Anti-capacity Switch. Four pole double throw..... 2.90

FEDERAL 1425W. Anti-capacity Switch. Double pole double throw..... 2.45

RADIO OWL Time Switch. The Owl connected to any AC or DC set will automatically turn it off at any time set for. Prevents set from being left "on"..... 5.00

RHODES 601 MARK TIME SWITCH. Will turn radio or other electrical device off or on at any time set within 15 hours..... 4.40

CUTLER-HAMMER, Togle 4 positions, single pole tripple throw and off position. 1.25N

TAPE

DUTCH Brand No. 8, 1/2 lb. roll.....	.35
DUTCH Brand No. 4, 1/4 lb. roll.....	.20
DUTCH Brand No. 2, 1/8 lb. roll.....	.10

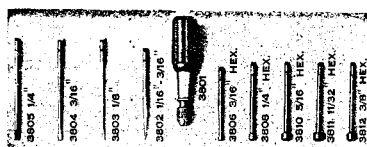
TONE CONTROLS

BUD Type A Bakelite box with knob outside.....	3.85
Type B for panel mounting.....	2.85
Clarostat Graphotone Panel Mtg type.....	1.80
Clarostat Outside Box Mtg.....	2.35
FILTERMATIC Tone control.....	3.0N

TOOLS



NO. 240



TRANSFORMERS—Continued

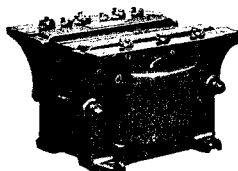


FIG. 15



FIG. 4



FIG. 3



FIG. 1

AMERTRAN—Continued

OUTPUT TRANSFORMERS:

152	Two 210 type tubes to 2,000-4,000 ohm magnetic speaker, Fig. 1	12.00
200	Two 210 type tubes to 10-15 ohm dynamic speaker, Fig. 1	12.00
442	Two 245 or 171 type tubes to 2,000-4,000 ohm speaker, Fig. 1	12.00
443	Two 245 or 171 type tubes to 10-15 ohm dynamic speaker, Fig. 1	12.00
115	One 250, 210, 245, or 171 type tube to 10-15 ohm speaker, Fig. 1	15.00
678	Two 250 or 245 type tubes to 1-9 15 ohm dynamic speakers in series parallel or 200 ohm line, Fig. 3	22.00

PENTODE OUTPUT TRANSFORMERS:

6150	Two 247 type tubes to 500 ohm line, Fig. 1	15.00
6152	Two 247 type tubes to 2,000-4,000 ohm magnetic speaker, Fig. 1	15.00
6200	Two 247 type tubes to 10-15 ohm dynamic speaker, Fig. 1	15.00

DETECTOR-TO-LINE TRANSFORMERS:

994	Detector to 500 ohm line—level 10 db., Fig. 1	15.00
805	Detector to 200 ohm line—level 10 db., Fig. 1	15.00

PHONOGRAPH PICK-UP TRANSFORMERS:

389	5,000, 6,000, or 8,000 ohm pick-up to 1st stage De Luxe, Fig. 1	8.00
406A	500, 1,000, or 2,000 ohm pick-up to grid of tube, Fig. 1	15.00
806A	500, 1,000, or 2,000 ohm pick-up to 200 or 500 ohm line, Fig. 1	18.00

LINE-TO-GRID TRANSFORMER:

547A	500 ohm line to grid of tube (150,000 ohms)—level 0 db., Fig. 1	15.00
923A	200 ohm line to grid of tube (150,000 ohms)—level 0 db., Fig. 1	15.00
5153	500 ohm line to two grids (2x75,000 ohms)—level 0 db., Fig. 1	20.00
3664	500 ohm line to two 50,000 ohm grids (211 or 845 type tubes)—level + 20 db., Fig. 3	22.00

TUBE-TO-LINE TRANSFORMERS:

678	Two 250 or 245 type tubes to 200 ohms line or 1-9 15 ohm dynamic speakers in series parallel Fig. 3	22.00
3332	Two 250 or 245 type tubes to 500 ohm line—15 ohm monitor winding	22.00
3540	Two 210 or 112 type tubes to 500 ohm line—15 ohm monitor winding	22.00
993	20,000 ohms to 500 ohm line Fig. 1	12.00
6150	Two 247 type tubes to 500 ohm line Fig. 1	15.00

LINE-TO-SPEAKER AUTO TRANSFORMERS

3377	500 ohm line to 0.16-16 ohms, 12 step, 12 watts Fig. 3	28.00
3432	500 ohm line to 4,000-333 ohms, 12 steps, 12 watts Fig. 3	28.00
6492	500 ohm line to 500-83 ohms, 6 steps, 12 watts Fig. 3	28.00
3567	500 or 200 ohm line to 3.75-60 ohms, 6 steps, 4.5 watts Fig. 3	20.00
4293	4000 or 500 ohm line to 3.75-15 ohms, 4 steps, 4.5 watts Fig. 3	25.00

Mixer Transformers:

095	200 ohms to 200 ohms-level—20 db Fig. 1	15.00
999	200 ohms to 200 ohms-level 0 db Fig. 1	15.00
4338	200 ohms to 500 ohms-level 0 db Fig. 1	15.00
4339	500 ohms to 500 ohms-level 0 db Fig. 1	15.00
3246	67 ohms (3 microphones in parallel) to 200 ohms-level 0 db Fig. 1	15.00
3259	100 ohms (2 microphones in parallel) to 200 ohms-level 0 db Fig. 1	15.00

TRANSFORMERS—Continued

AMERTRAN—Continued

Filament Transformers:

H-66A	2.5-1.25 volts at 10 amps., 12,000 volts insulation Fig. 14	16.00
H-4650	5-2.5 volts at 10 amps., 12,000 volts test Fig. 15	20.00
H-4652	5-2.5 volts at 20 amps., 12,000 volts test Fig. 15	24.00

JEFFERSON Replacement Transformers:

467-935	P.P. Input	.70N
463-906	Power Transf. 700 v. CT 100 ma; 2½ v. CT 12¼ amp; 2½ v. CT 3 amp; 5 v. 2 amp.	2.40N
463-900	Power Transf. 700 v. CT 100 ma; 2-2.5 v. 8¾ amp; 1-2.5 v. 3 amp; 1-5 v. 2 amp.	3.00N
463-241	Power Transf. 600 v. CT 75 ma; 1-1.5 v. 4.5 amp; 1-2.5 v. 2 amp; 1-5 v. 2 amp; 1-5 v. ½ amp.	2.60N
463-251	Power Transf. 750 v. CT 60 ma; 1-2.5 v. 10¾ amp; 1-2.5 v. 1.5 amp; 1-5 v. 2 amp.	2.60N
463-261	Power Transf. 750 volts, 120 am CT, 2.5 volts CT 14 amp, 2.5 volts 3 amp, 5 volts 2 amp.	3.00N
463-271	Power Transf. 700 volts 60 mill CT, 2.5 volts CT 1.75 amp, 2.5 volts CT 8.5 amp; 5 volts, 2 amp.	2.60N
464-231	Unshielded filament transformer, secondary windingsg two 7½ volt CT 2½ amp.	3.85
464-241	Unshielded filament transformer, secondary 10 volts CT 7 amp for 50 watt tubes.	4.35



164-191



467-281



463-251



467-105



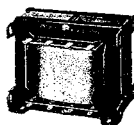
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464-151



467-271



463-261



467-171



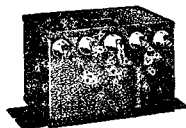
467-261

467-876	Push pull input, split secondary	2.50N
467-168	Push pull or straight audio, universal bracket	1.05N
467-170	Universal tapped output for all type tubes	1.05N
467-171	Shielded universal output	3.00N
467-261	Single button microphone transformer	1.32N
467-262	Double button microphone transformer	2.25N
465-151	Plate supply for class "B" amplifiers, designed for use with 82 or 83 rectifier tubes.	7.85
464-191	Filament transformer, has 4 2.5 volts windings, 1 at 9 amp, 1 at 1.75 amp, 1 at 3 amp, 1 at 3.5 amp.	6.95
467-271	Coupling transformer for class "B", for coupling 1-46 driver to 2-46 push push, or 2-27 push pull to 2-46 push push.	6.25
467-281	Output push push for class "B" from 2-46 tubes to speakers having coil resistances of 1, 3, 6 and 10 ohms.	6.25

TRANSFORMERS—Continued

THORDARSON Transformers:

R-100	A quality replacement audio transformer, unshielded, Fig. 4.....	1.75
R-101	High quality pushpull input replacement transformer, Fig. 4.....	2.25
R-152	Standard 2 to 1 Audio transformer.....	5.00
R-190	Autofomer transformer, Fig. 7.....	3.00
R-300	A very high quality 3-1 cased audio transformer, Fig. 7.....	4.00
T-4831	Audio for PP Pentodes. Ratio 38-1; impedance ratio 1444:1, Fig. 7...	3.50
T-2973	Pushpull Interstage. Couples two stages of pushpull, Fig. 8.....	7.00
T-2629	Output for 210 PP to dynamic speaker, Fig. 8.....	4.00
T-2903	Output for 2 250s to dynamic speaker, Fig. 8.....	4.00
T-2880	Output for 2 250s to high impedance speaker, Fig. 8.....	4.00
T-2098	Power Transformer. Has one 1100 v. CT 130 ma. winding and two 7.5 v. 2.5 amp. CT windings. Uses 2 281s, Fig. 12.....	9.00
T-2900	Power Transformer. Has one 1150 volt CT 130 ma. winding and two 7.5 v. 2.5 amp. CT windings. Uses 2 281s, Fig. 12.....	12.00
T-2950	Power Transformer. Has one 1220 volt CT winding and two 7.5 v. 2.5 amp. CT windings. Uses 2 281s, Fig. 21.....	15.00
T-3624E	Replacement Power Transformer. Has one 5 volt CT 2 amp.; one 2.5 volt CT 3 amp.; one 2.5 volt 9 amp. and 730 volt CT 100 ma windings. Primary 120 v. tapped at 110, Fig. 5.....	7.00
T-4900	Pentran. 966 volts CT 70 ma.; 5 volts 2 amp.; 2½ volts 8½ amp. CT, for Pentode.....	4.00



2



1



5



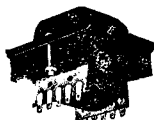
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8



7



6



3



12



11



9



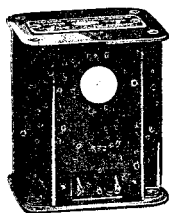
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T-2230	Filament Transformer. 7.5 volts CT at 2.5 amps., Fig. 8.....	6.00
T-2382	Filament Transformer. 12 volts CT, 80 VA, Fig. 10.....	6.00
T-2383	Filament Transformer. 12 volts CT, 175 VA, Fig. 10.....	10.00
T-3680	Filament Transformer. 2.5 volts CT at 5 amps; insulation 5000 v. to case. For two UX866 tubes, Fig. 8.....	7.50
4585	Filament Transformer. 2½ v. CT; 25 va; 10 amps, Fig. 1.....	12.00
4586	Filament Transformer. 5 v. CT; 100 va; 20 amps, Fig. 1.....	15.00
T-2385	Plate Supply. 550 and 750 volts each side. 100 VA, Fig. 1.....	14.00
T-2387	Plate Supply. 1000 and 1500 volts each side. 300 VA, Fig. 1.....	19.00
T-2388	Plate Supply. 1500 and 2000 volts each side. 500 VA, Fig. 2.....	25.00
T-2389A	Plate Supply. 1500 and 2000 volts each side. 1000 VA, Fig. 2.....	30.00
T-4450	Plate Supply. Primary 110-220, secondary 1050 v. CT, 150 ma.....	20.00
T-4455	Plate Supply. Primary 110-220, secondary 3740 v. CT, 250 ma.....	35.00
T-4460	Plate Supply. Primary 110-220, secondary 3860 v. CT, 750 ma.....	85.00
T-3020	Double Button Microphone transformer, Fig. 7.....	5.00

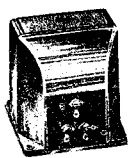
TRANSFORMERS—Continued

THORDARSON—Continued

T-5303	Plate Supply. Primary 115 v., secondary 968 v. CT; 200 mill, Fig 3...	8.00
T-5448	Plate Supply. Primary 110 v., secondary 1600 v. CT; 125 mill.	7.50
T-3665	Output, push pull 245 or 250 to 9-15 ohms.	2.75
T-5701	Universal tapped output.	2.00
T-5100	45's push pull to 210's class "B" Fig. 9.	5.00
T-5101	210's class "B" to 2500 or 5000 ohms, Fig. 10.	6.00
T-5251	250's push pull to 203A class "B", Fig. 10.	10.00
T-5488	203A class "B" to 2500 or 10,000 ohms.	20.00
T-5289	Single 46 to 46's class "B", Fig. 7.	5.00
T-5339	46's class "B" to 500 ohms, Fig. 10.	5.00
T-5356	46's class "B" to 4 or 8 ohms., Fig. 10.	5.00
T-5291	46's class "B" to 5000 or 10,000 ohms, Fig. 10.	5.00
T-5381	500 ohm line to 4 or 8 ohms, Fig. 10.	4.50



SANGAMO

UNIVERSAL
1089NATIONAL
S-101WEBSTER
MT-665UNIVERSAL
0175

NATIONAL S101 Coupler, S51 and S11, PP transformers for SW5, each.	5.50
STENODE Compensated transformer.	7.50
SANGAMO AX, audio.	2.50N
SANGAMO BX, Input.	2.50N

UNIVERSAL MICROPHONE Transformers:

1089	Two button microphone transf., center tapped primary 200 ohms each side secondary impedance 100,000 ohms.	10.00
1152	Microphone coupling or line matching.	10.00
0075	Single button microphone transf., uncased, primary 200 ohms, secondary 100,000 ohms.	3.00
0089	Two-button microphone transf., uncased, primary 200 ohms each side, center tap, secondary 100,000 ohms.	4.00

WEBSTER MT 665	Two button microphone transformer.	5.00
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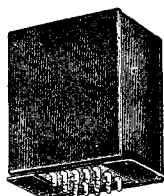
STANCOR, Exact duplicate replacement transformers physically and electrically identical to originals:

P-1038	All American Mohawk Lyric 90.	6.50
P-1134	All American Mohawk Lyric D and H.	8.50
P- 340	Apex 36, 37.	8.75
P-1016	Apex Superheterodyne.	7.25
P- 716	Atwater-Kent 37, 38.	5.00
P- 913	Atwater-Kent 55, 55C, late model.	9.50
P- 918	Atwater-Kent 55, 55C, early models.	9.75
P-1066	Atwater-Kent 60, 60C.	9.50
P-1213	Atwater-Kent 66.	8.50
P-1068	Atwater-Kent H1, H2, L1, L2.	7.00
P-1088	Atwater-Kent 80, 83.	7.00

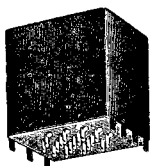
TRANSFORMERS—Continued

STANCOR—Continued

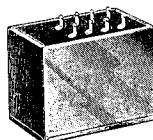
P-1084	Atwater-Kent 82, 85.....	7.00
P-1086	Atwater-Kent 84.....	7.00
P-1089	Atwater-Kent 87, 89, 89P.....	7.75
P- 859	Bosch 29, 825.....	8.75
P- 791	Brunswick 2 KRO, 3KRO, 5KRO, 3KR-6, 5KR-6, 5KR.....	6.10
P- 715	Brunswick 3NC-8, 5NC-8.....	6.85
P-1142	Brunswick 10.....	4.75
P-1112	Brunswick 14, 21, 81, 82, S14, S21, S81, S82.....	7.50
P- 230	Columbia SG8.....	9.00
P-1015	Crosley 40S, 41S, 42S, 82S.....	9.50
P- 893	Earl 31, 32, 32S, 41.....	7.00
P- 961	Edison R1, R2, C2.....	4.90
P-1143	Edison R4, R5, C4.....	9.50
P-1030	Eveready 30 Series.....	12.50
P- 956	Eveready 40 Series.....	9.00
P- 901	Eveready 50 Series.....	9.00
P- 893	Freed 65, 78, 79, 79S, 90, 95.....	7.00
P-1101	Freed-Eisemann NR85.....	6.50
P- 910	Freshman Q15, Q16, 3Q15, 3Q16.....	8.50
P- 919	Freshman QD-16S.....	9.00
P-1000	Freshman 41, 47.....	5.15
P- 453	Freshman 51.....	6.35
P- 597	Freshman 51A, 51B.....	5.15



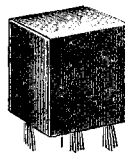
ZENITH
STANCOR P-712



RCA VICTOR
STANCOR P-717



MAJESTIC
STANCOR P-798



ATWATER KENT
STANCOR P-716



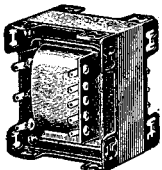
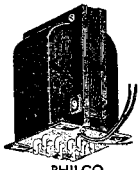
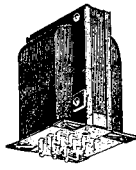
SPARTON
STANCOR P-864

P- 713	General Electric H31, 51, 71.....	7.10
P- 927	General Electric T41.....	6.75
P-1271	General Motors S-9-A.....	5.20
P- 791	Graybar GB-310, 311.....	6.10
P- 715	Graybar GB-340.....	6.85
P- 714	Graybar GB-500, 550.....	6.60
P- 883	Graybar GB-600.....	6.60
P- 927	Graybar GB-678.....	6.75
P- 713	Graybar GB-700, 770, 900.....	7.10
P- 792	Kennedy 10, 20.....	6.20
P-1190	Kolster-Brandes K20, 22, 25, 27, 37.....	9.50
P-1191	Kolster-Brandes K24, K36.....	11.00
P-1192	Kolster-Brandes K43.....	10.25
P-1193	Kolster-Brandes B-15, B-16.....	10.50
P- 906	Majestic 15A Series.....	4.00
P- 954	Majestic 21, 22, 23.....	9.00
P-1102	Majestic 130, 131, 132, 233.....	10.50
P-1168	Majestic 25, 25B.....	9.00
P- 905	Majestic 50.....	9.50
P- 790	Majestic 70, 7-P-6.....	4.60
P- 798	Majestic 70, 7-P-6.....	4.60
P- 939	Majestic 90B, 100B.....	10.60
P- 757	Majestic 90, 9-P-6.....	8.65
P- 805	Majestic 180, 8-P-6 filament.....	6.35
P- 789	Majestic 180, 8-P-6 plate.....	7.40
P- 762	Philco 20, 220.....	5.90
P- 711	Philco 65.....	6.10

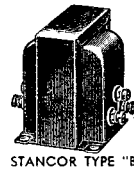
TRANSFORMERS—Continued

STANCOR—Continued

P- 785	Philco 76, 77	6.10
P- 786	Philco 86	5.90
P- 763	Philco 87	6.10
P- 787	Philco 95, 96, 296	7.15
P- 788	Philco 111, 211, 112, 212	7.55
P- 882	Philco 112, 212 (247 tubes)	7.35
P- 784	Philco 511	5.90
P-1119	Philco 70, 270, 370, 470, 570	6.50
P- 791	R.C.A. 17, 18, 33, 50, 51	6.10
P- 927	R.C.A. 42, 48	6.75
P- 714	R.C.A. 44, 46, 47	6.60
P- 715	R.C.A. 60, 62	6.85
P- 827	R.C.A. 64, 67	22.50
P- 883	R.C.A. 66	6.60
P- 713	R.C.A. 80, 82, 86	7.10
P- 791	R.C.A. Victor 7-11, 7-25	6.10
P- 827	R.C.A. Victor 9-18, 9-54	22.50
P- 927	R.C.A. Victor R-15	6.75
P- 717	R.C.A. Victor R-32, R-52, RE-45, RE-75	6.85
P- 718	R.C.A. Victor R-35, R-39, RE-57	8.00

UNIVERSAL
MTG.PHILCO
STANCOR P-711

STANCOR TYPE "A"



STANCOR TYPE "B"

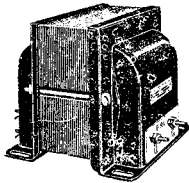
PHILCO AUDIO
STANCOR A-104-C-P

P-1380	Sonora 2RP25, 3R, 4R, A-30, A-32, A-40	12.00
P-1373	Sparton AC-7, 62, 63	7.15
P-1204	Sparton 25, 26, 26AW, 30, 45	11.50
P- 921	Sparton 89A	11.00
P-1372	Sparton 103, 301A, 578, 740, 750	11.25
P-1042	Sparton 301	12.00
P-1196	Sparton 410, 420	8.00
P- 909	Sparton 589	8.00
P- 864	Sparton 591, 593, 931	8.00
P- 865	Steinite 40, 50, 102	10.50
P-1163	Steinite 40C, 41C, 60C, 102C	10.25
P-1108	Stewart-Warner 801, 801A, 802	6.50
P-1209	Stromberg-Carlson 10, 11	10.50
P- 834	Stromberg-Carlson, 641, 642, 652, 654	9.50
P-1053	Stromberg-Carlson, 846, 848	11.00
P- 927	Westinghouse WR4	6.75
P- 713	Westinghouse WR5-6-7	7.10
P- 851	Zenith 10, 11, 12	7.50
P- 712	Zenith 50, 60, 70	7.40
P- 929	570 volts, C. T. 70 Ma., 5 volts 2 amps., 2.5 volts 1.75 amps., 5 volt ½ amp., 1.5 volts 6.3 amps.	4.00
P- 931	700 volts, C. T. 110 Ma., 5 volts 2 amps., 2.5 volts 3 amps., 2.5 volts 12.25 amps.	5.00
A-2056	Transformer for Microphone double button to grid transf. Case B	3.05
A-2160	Transformer for Phono pick up to grid transformer case B	3.05
A-2086B	One 46 to two 46 class "B" case B	4.25
A-2101B	Two 27 or two 56 to two 46 class "B" case B	4.25
A-2141B	Two 250 to 203A class "B" case B	4.25
A-2542B	Two 46 to 15 ohms, tapped for 8 and 4 ohms class "B" case B	4.10
A-2505B	Two 203A to two 2500 ohms or 10,000 ohms (two 2500 ohm windings in series) class "B" case A	12.50

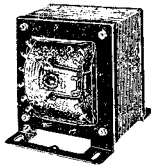
TRANSFORMERS—Continued

INCA TRANSFORMERS:

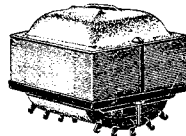
J1,	Filament, 2.5 volts 3.5 amps., case 1.....	1.60
J2,	Filament, 2.5 volts 6 amps., 1500 volt Insulation, case 1.....	2.20
J3,	Filament, 2.5 volts 14, amps., 7500 volt Insulation, case 3.....	3.25
J4,	Two 7.5 volts 2.5 amps., C. T., 2500 volt Insulation, case 3.....	3.25
J5,	10 volts 7 amps., C. T., 2500 volt Insulation, case 3.....	4.25
J6,	11 volts 8 amps., C. T., 5000 volt Insulation, case 3.....	4.50
J7,	15 volts 10 amps., C. T., 5000 volt Insulation, case 3.....	7.50
J10,	5 volts 3.5 amps., C. T., 2500 volts Insulation, case 1.....	2.20
J11,	7½ volts 2.5 amps., C. T., 2500 volts Insulation, case 1.....	2.20
L1,	750 volts, C. T., 125 Ma., 5 volts 3 amps., C. T., 2.5 volts 3 amps., C. T., 2.5 volts 8.5 amps., case 2.....	5.10
L2,	Same as L1 but flat mount, case 3.....	5.10
L3,	Audio, 1-46 class A to 2-46 class "B".....	3.00
L5,	2-27 or 56's push pull to 2-46 or 59's class "B", case 1.....	3.10
L7,	Output 46's or 59's Primary plate to plate, secondary 1-2-3-5-25-15 ohms, Case 2.....	5.60
L8,	Same as L7 but cased.....	6.00
L9,	Output, 2-46 or 59's class "B" to 200 or 500 ohms.....	6.50
L10,	Modulation 46 or 59 class "B" to 2-46 or 10 tubes RF amp.....	6.50
L14,	Audio to couple one 46 or 59 class A to 2-46 or 59's class "B".....	7.50
L16,	Audio to couple 2-56's or 227's or 46's or 59's in push pull to grid of Class "B" 46's or 59's.....	7.50
I3,	Mike transformer double button 400 C. T. to 100,000 ohms grid of tube.....	3.35
F1,	Output for one 47 to 3.4 ohms primary. Imp. 7500 ohms.....	1.10



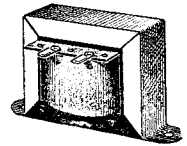
CASE 4



CASE 3



CASE 2



CASE 1

164-PT-1463,	600 volts C. T. 40 ma., 2.5 volts C. T. 4 amps., 5 volts 2 amps.....	1.65
331-PT-1144,	700 volts C. T. 40 ma., 2.5 volts, C. T. 5.5 amps., 5 volts 2 amps., upright mount.....	1.95
321-PT-1144,	Same as 331-PT-1144 but flat mount.....	1.95
350-HU-1144S,	Same as 331-PT-1144 but cased.....	2.10
332-PT-804,	720 volts C. T. 50 ma., 2.5 volts 6.75 amps., 5 volts 2 amps., Uncased.....	2.15
357-HU-804,	Same as 332-PT-804 but cased.....	2.30
406-PN-1227,	750 volts C. T. 60 ma., 2.5 volts 6.75 amps., 5 volts 2 amps., Uncased.....	2.90
449-HU-1227,	Same as 406-PN-1227 but cased.....	3.05
630-P-811,	Universal Input.....	.68N

INCA TRANSMITTING TRANSFORMERS:

B1,	Primary 115 volts, secondary 1300 volts C. T. 150 ma., two 7.5 volts C. T. 2.5 amps., 2.5 volts 10.5 amps., 1.5 volts 4.5 amps., cased No. 4.....	12.50
B11,	Primary 115 volts, secondary 1000 volts C. T. 250 ma., 5 volts C. T., 3 amps.....	7.60
B14,	Primary 115 volts, secondary 1500 volts C. T., 225 ma.....	10.00
B3,	Primary 115 volts, secondary 3000 volts and 2000 volts C. T. 250 ma.....	17.50

TRANSMITTING EQUIPMENT

SANGAMO Fixed Condensors, Bakelite encased:

5000 volt 00004 to 002 mfd.....	2.00
2500 volt 002 to 01 mfd.....	1.75

TRANSMITTING EQUIPMENT—Continued

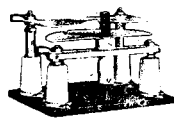
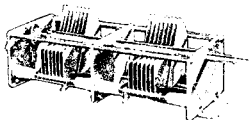
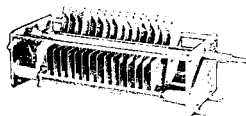
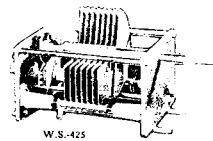
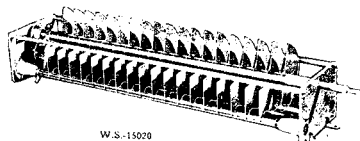
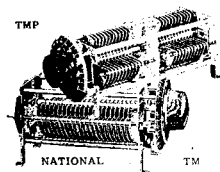
AEROVOX. Transmitting mica condensers, 5000 volts, 00005, .0001, 0002, 00025 and 0005.

4.00

WIRELESS SHOP. Transmitting Condensers:

Type	Maximum Capacity	Minimum Capacity	Voltage Rating	No. of Plates	Spacing Betw'n Adjac't Stator or Rotor Plates	Total Length	List Prices
WS-410	.0001	.00001	4000	7	1/4"	5 3/4"	\$12.00K
WS-425	.00035	.00002	4000	15	1/4"	7"	14.00K
WS-435	.00035	.000025	4000	21	1/4"	7 3/4"	14.00K
WS-450	.0005	.00003	4000	31	1/4"	9"	15.00K
*WS-4210	2-.0001	2-.00001	4000	14	1/4"	11 1/4"	15.00K
*WS-4225	2-.00025	2-.00002	4000	30	1/4"	13 1/2"	19.00K
WS-7510	.0001	.00002	7500	13	1/2"	8 1/4"	16.00K
WS-7525	.00025	.00004	7500	31	1/2"	13"	18.00K
WS-7535	.00035	.00005	7500	43	1/2"	16 1/4"	19.50K
WS-7550	.0005	.00007	7500	61	1/2"	21 1/4"	23.00K
*WS-75210	2-.0001	2-.00001	7500	26	1/2"	16 1/2"	20.00K
*WS-75225	2-.00025	2-.00004	7500	62	1/2"	26 1/2"	25.00K
WS-15010	.0001	.000025	15000	21	1"	17"	20.00K
WS-15015	.00015	.00005	15000	31	1"	22"	24.00K
WS-15020	.0002	.00007	15000	41	1"	27"	28.00K
WSN-852	.00001	.000002	7500	2	1/2"	4"	5.00K
WSN-204	.00003	.000005	7500	5	1/2"	6"	7.50K

***NOTE**—Types 4210, 4225, 75210 and 75225 are of the Split Stator Type for Push-Pull Circuits. Type WSN-852 is a neutralizing condenser for 852 tubes or any type having less than 10 micro-mikes grid to plate capacity. Type WSN-204 neutralizing condenser is for 204 tubes and having a maximum capacity of 30 micro-mikes will take care of most high power tubes.



NATIONAL CO.

Type TMP, a split stator condenser, especially suited for 5 meter work, isolantite stator insulators.

TMP 120 each section 100 mmf, 3000 volts. 12.50

TMP 230 each section 230 mmf, 3000 volts. 17.50

TMP 100A each section 100 mmf, 6000 volts. 18.50

Type EMP Condensers, split stator, for low power push-pull transmitters:

1200 volt breakdown. Standard size EMP 100 mmf, per section. 5.00

High voltage shaft coupling with 6" Leakagepath bar. 8.50

NATIONAL Type GPTC Transmitter Kit with Power Pack. 57.50

GTO. Transmitter Kit only. 29.50

The LARGEST and OLDEST RADIO PARTS JOBBER West of Chicago

TRANSMITTING EQUIPMENT—Continued

NATIONAL VARIABLE TRANSMITTING CONDENSERS:

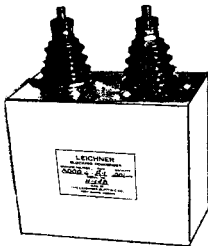
TM 35A .000035 6000 volts 7 plates.....	4.50
TM 50A .00005 6000 volts 12 plates.....	6.00
TM 100 .0001 3000 volts 11 plates.....	4.50
TM 100A .0001 6000 volts 23 plates.....	10.00
TM 150 .00015 3000 volts 17 plates.....	5.00
TM 150A .00015 6000 volts 35 plates.....	14.00
TM 230 .00023-5 3000 volts 23 plates.....	9.00
TM 230A .00023-5 6000 volts 51 plates.....	17.00
TM 350 .00035 3000 volts 35 plates.....	11.00
TM 450 .00045 3000 volts 43 plates.....	12.00

Prices do not include Dials, dials extra..... 2.50

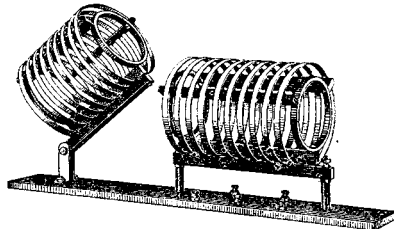
R E L Transmitting Apparatus:

Inductances:

Type S. 3" diameter flatwise wound on glass. Used chiefly for 20 and 40 meter bands. Single Coils.....	5.50F
Type S. Double Coils.....	11.00F
Type L. 5" diameter coils similar to Type S. Used chiefly for 40 and 80 meter bands. Single Coils.....	5.50F
Type L. Double Coils.....	11.00F
131A 250 Watt Transmitting Socket, Isolantite base.....	2.75F
128A 250 Watt Tube Mounts, isolantite base, per pair.....	4.75C
129 UX852 Tube Holder.....	2.50F
132 RF Choke, for 15-100 meter, 9 millihenries.....	1.10F
250A Choke, 26 millihenries 15 to 90 meters.....	1.30F
Extra Inductance clips, each.....	.15F



LEICHNER A-1



A-8 MUNZIG P-40



Coil Chuck

Leichner Transmitting
Small One

MUNZIG TRANSMITTING COILS:

Type P-20 20 meters.....	2.00	Type P-100 100 meters.....	3.50
Type P-40 40 meters.....	2.75	Type P-160 160 meters.....	4.50
Type P-80 80 meters.....	3.25	Type A-8 Antenna coil.....	2.75

BAKELITE ANTENNA SPREADERS:

2".....	.20	4".....	.25	7".....	.30
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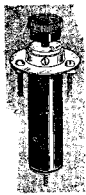
LEICHNER. Flint Glass dielectric plate blocking Capacitor:

A-1 8000 volts, maximum RF current 7.5 amp. at 1500 Kc, 1500 mmf, 2000 mmf, 2500 mmf.....	4.75
A-2 800 volts, maximum RF current 7.5. amp at 1500 KC, 500 mmf, 750 mmf, 1000 mmf, 1250 mmf.....	3.75
A-4 Same rating as A-1, 200 mmf.....	2.50
A-3 5000 volts, maximum RF current ½ amp. at 60 Mcs, 75 mmf, 100 mmf, 150 mmf, 200 mmf, 250 mmf.....	1.00
B-3 Same as A-3 but upright with mounting feet.....	1.00

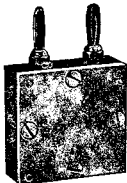
JOHNSON No. 30M, Feeder spreader..... .25

TRANSMITTING EQUIPMENT—Continued

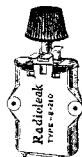
BRADLEY adjustable crystal holder.....	5.50
WESTERN WIRELESS Duplex Crystal Oven.....	19.50
MONITOR TRANSMITTING and STENODE CRYSTALS:	
X or Y cut, to any frequency between 1715 and 2000 KC or 3500 to 4000 KC ..	4.50N
X cut, polished clear, same frequencies as above.....	5.50N
X cut, 7000 to 7300 KC.....	5.50N
X or Y cut, blank crystals.....	1.25N
X or Y cut, crystal kit, composed of one blank crystal one can of coarse paste, one can finishing paste and instructions.....	1.50N
STENODE crystals Y cut, 465 or 525 KC.....	4.50N
STENODE crystals, polished finish.....	5.50N
STENODE crystal blank Y cut.....	2.00N
MONITOR crystal holder.....	1.75N
MONITOR crystal holder for Stenode.....	2.50N
BLILEY-PIEZO , round crystal holder.....	1.50N
EASTERN COIL CO. , crystal holder.....	1.50N
D. X. crystal holder.....	.90N



Radiostat



Eastern Coil Co.



Radioleak



Cardwell



WESTERN WIRELESS



Xtal Holder

CARDWELL, Transmitting inductance, edgewise wound: copper ribbon, $\frac{1}{16}$ " x $\frac{1}{4}$ " :

5 $\frac{1}{4}$ " Outside diameter per turn.....	.10N
8" Outside diameter per turn.....	.12N
9" Outside diameter per turn.....	.15N
Connecting clip assembly, for tapping transmitting inductors:	
803A, male connecting contact $1\frac{1}{16}$ " x $\frac{5}{16}$ ".....	.09F
804A, female connecting contact $1\frac{1}{16}$ " x $\frac{5}{16}$ ".....	.12F
BRADLEY Radiostat . Variable resistance 4 to 100 ohms, 75 watts. A filament control rheostat for primary circuits of supply transformers of 500 watts or less...	6.50A
BRADLEY Radioleak . A stepless and noiseless variable grid leak. Range of 2,000 to 30,000 ohms, thermal capacity of 10 watts.....	5.00A
BRADLEY E210 Bradleystat . Suited for filament controls on 10 watt transmitters. Range of 4 to 150 ohms, 10 watts.....	4.00A
COPPER TUBING , $\frac{3}{16}$ ", per foot.....	.06N
COPPER TUBING , $\frac{1}{4}$ ", per foot.....	.07N
COPPER TUBING , $\frac{5}{16}$ ", per foot.....	.07N
COPPER TUBING , $\frac{3}{8}$ ", per foot.....	.08N
BRADLEY . $\frac{1}{4}$ " copper tube chuck.....	.30N

AMATEUR RADIO STATION W6FBI

Located in our Building

« »

Hams are invited to inspect it

TUBES

STANDARD PRICE LIST

RCA RADIOTRONS, CUNNINGHAM, SYLVANIA, ARCTURUS:

2A3	Power Amplifier Triode (AC filament) 2.5 volts.....	\$ 4.00
2A5	Power Amplifier Pentode (AC heater) 2.5 volts.....	1.60
2A6	Duplex Diode Triode (High Mu) 2.5 volts.....	1.60
2A7	Pentagrid converter (AC heater) 2.5 volts.....	2.20
2B7	Duplex-Diode Pentode (AC heater) 2.5 volts.....	2.00
5Z3	Heavy Duty Full Wave Rectifier 5.0 volts.....	1.50
6A4	Power Amplifier Pentode 6.3 volts.....	1.60
6A7	Pentagrid Converter (AC heater) 6.3 volts.....	2.20
6B7	Duplex-Diode Pentode (AC heater) 6.3 volts.....	2.00
25Z5	Rectifier-Doubler (heater) 25.0 volts.....	2.00
200A	Detector 5.0 volts.....	4.00
201A	Detector Amplifier 5.0 volts.....	.70
1	Half-Wave Mercury Vapor Rectifier (heater) 6.3 volts.....	1.50
10	Power Amplifier Oscillator (AC filament) 7.5 volts.....	5.00
112A	Amplifier Detector 5.0 volts.....	1.30
120	Power Amplifier 3.3 volts.....	3.00
22	Screen-Grid Radio Frequency Amplifier 3.3 volts.....	2.00
24A	Screen-Grid R. F. Amplifier (AC heater) 2.5 volts.....	1.40
26	Amplifier (AC Filament).....	.75
27	Detector Amplifier (AC heater) 2.5 volts.....	.80
30	Detector Amplifier 2.0 volts.....	1.30
31	Power Amplifier 2.0 volts.....	1.30
32	Screen Grid Radio Frequency Amplifier 2.0 volts.....	1.90
33	Power Amplifier Pentode 2.0 volts.....	2.10
34	Super-Control R. F. Amplifier Pentode 2.0 volts.....	2.15
35	Super-Control R. F. Amplifier (AC heater) 2.5 volts.....	1.50
36	Screen Grid R. F. Amplifier (AC heater) 6.3 volts.....	1.80
37	Detector Amplifier (AC heater) 6.3 volts.....	1.40
38	Power Amplifier Pentode (AC heater) 6.3 volts.....	1.60
39	Super-Control R. F. Amplifier Pentode (AC heater) 6.3 volts.....	1.80
240	Voltage Amplifier Detector 5.0 volts.....	2.00
41	Power Amplifier Pentode (AC heater) 6.3 volts.....	1.60
42	Power Amplifier Pentode (AC heater) 6.3 volts.....	1.60
43	Power Amplifier Pentode (AC heater) 25.0 volts.....	2.50
44	Super-Control R. F. Amplifier Pentode (AC heater) 6.3 volts.....	1.80
45	Power Amplifier (AC Filament) 2.5 volts.....	.85
46	Dual-Grid Power Amplifier (AC Filament) 2.5 volts.....	1.55
47	Power Amplifier Pentode (AC Filament) 2.5 volts.....	1.50
48	Power Amplifier Tetrode (DC heater) 30.0 volts.....	3.00
49	Dual-Grid Power Amplifier 2.0 volts.....	1.70
250	Power Amplifier (AC Filament) 7.5 volts.....	4.00
55	Duplex-Diode Triode (AC heater) 2.5 volts.....	1.60
56	Super Triode Amplifier (AC heater) 2.5 volts.....	1.20
57	Triple-Grid Detector Amplifier (AC heater) 2.5 volts.....	1.65
58	Triple-Grid Super Control R. F. Amplifier (AC heater) 2.5 volts.....	1.65
59	Triple-Grid Power Amplifier (AC heater) 2.5 volts.....	2.00
71A	Power Amplifier 5.0 volts.....	.85
75	Duplex-Diode High Mu Triode (AC heater) 6.3 volts.....	1.60
77	Triple-Grid Detector Amplifier (AC heater) 6.3 volts.....	1.80
78	Triple-Grid Super Control R. F. Amplifier (AC heater) 6.3 Vvolts.....	1.80
79	Class "B" Twin Amplifier (AC heater) 6.3 volts.....	2.60
80	Full-Wave Rectifier 5.0 volts.....	.80
81	Half-Wave Rectifier 7.5 volts.....	3.50
82	Full-Wave Mercury Vapor Rectifier 2.5 volts.....	1.20
83	Heavy Duty Full Wave Mercury Vapor Rectifier 5.0 volts.....	1.55
84	Full-Wave Rectifier (Heater) 6.3 volts.....	1.75
85	Duplex-Diode Triode (AC heater) 6.3 volts.....	1.60
89	Triple-Grid Power Amplifier (AC heater) 6.3 volts.....	1.80

TUBES—Continued

UV199	Detector Amplifier 3.3 volts.....	2.25
UX199	Detector Amplifier 3.3 volts.....	1.50
841	Voltage or R. F. Power Amplifier 7.5 volts.....	10.40D
842	Power Amplifier and Modulator 7.5 volts.....	10.40D
852	100 Watt Oscillator or R. F. Power Amplifier 10.0 volts.....	28.00B
864	Amplifier Detector 1.1 volts.....	2.10E
865	12.5 Watt Screen Grid R. F. Amplifier 7.5 volts.....	15.00B
866	Half-Wave Mercury Vapor Rectifier 2.5 volts.....	6.75B
868	Phototube.....	7.50D
874	Voltage Regulator.....	4.90
UV876	Current Regulator (Ballast Tube).....	6.70
UV886	Current Regulator (Ballast Tube).....	6.75

SYLVANIA, in addition to all the tubes listed in general list makes the following types:

1V	Half-Wave High Vacuum Rectifier 6.3 volts.....	1.50
12Z3	Half-Wave High Vacuum Rectifier, 12.6 volts.....	1.50
15	R. F. Pentode 2 volts.....	2.85
18	Out pentode 14 volts.....	2.75
19	Class "B" Amplifier 2 volts.....	2.85
51	Variable Mu Tetrode 2.5 volts.....	1.65
182B	Power Amplifier for Sparton 5 volts.....	2.30
183	Power Amplifier for Sparton 5 volts.....	2.05
485	Detector Amplifier for Sparton 3 volts.....	1.80

ARCTURUS 15 Volt Tubes:

26	Detector.....	\$ 4.00	40	Power Amplifier.....	\$ 3.00
28	Amplifier.....	3.00	32	High Mu.....	3.00
48	Amplifier.....	3.00	22	Screen Grid.....	7.50
30	Power Amplifier.....	3.00			

ARCTURUS, WUNDERLICH TUBES:

5 and 6 prong tubes 2.5 volts.....	3.00
6 prongs 6.0 volts.....	3.00

CARDON SPARTON TUBES:

182B.....	2.35E	485.....	1.80E
183.....	2.10E	301.....	3.10E

DE FOREST Transmitting Tubes:

510.....	4.20N	545.....	15.00N
511.....	15.00N	566.....	.400N
503A.....	15.00N	572.....	16.50N

All other types available. Prices on request.

WESTON PHOTRONIC CELL, Model 594. Can be exposed to sunlight without harmful results; delivers 80 microamperes per lumen. Exposed to direct sunlight the output is approximately 5 milliamperes.

EVEREADY RAYTHEON Type BH 125 ma Rectifier tube.....	4.50
EVEREADY RAYTHEON Type BA 300 ma Rectifier tube.....	7.50
EVEREADY RAYTHEON Type BR.....	2.75
KELLOGG AC Type 401.....	4.00
KELLOGG AC Type 403.....	5.00
TUNGAR Rectifying Tube .6 ampere.....	4.00D
TUNGAR Rectifying Tube 2 ampere.....	4.00D
TUNGAR Rectifying Tube 6 ampere.....	8.00D
G E Neon Glow Lamps, S4½, ¼ watt, candelabra base.....	.40N
G E Neon Glow Lamps, G-10, standard base, ½ watt, 1 watt.....	.40N
G E Neon Glow Lamp, S14, 2 watt, 3 watt.....	.50N

DURESITE Ballast Tubes:

98, 105, 110, 125, 150.....	3.00
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CLAROSTAT Line Ballast, all types..... 2.50

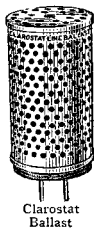
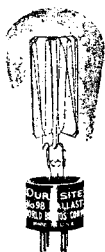
ELKON Rectifiers:

XB-16 Replacement unit for Majestic, Knapp, Webster, Elkon, etc., A Eliminators.....	7.00
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ELKON Rectifiers—Continued

V-4	Replacement units for Elkon, National, etc., trickle chargers. Price per set of three units.	4.00
XB-12 Unit.	Replacement for Elkon Tapering Charger.	4.00
BNK Unit.	Replaces acid jar in Balkite Models N & K.	5.00

VOLTAGE REGULATORS



WARD LEONARD 507-109 Voltage Control. Keeps AC voltage constant. Handles up to 65 watts.		1.75
507-109A.	Handles sets up to 130 watts.	1.75
507-109B.	Handles sets up to 285 watts.	2.10
MASTER Regular Type Voltage Control, 60 watts.		1.75
Heavy Duty Type. Handles sets up to 150 watts.		1.75
CLAROSTAT Type A Control, handles sets up to 100 watts.		1.75
Type B Control, handles sets up to 150 watts.		1.75
Also see Ballast Tubes.		

WIRE

MAGNET WIRE on Spools:

Size		Enameled Double Cotton Double Silk		
No.	18			
	1/4 lb.	\$.20	\$.24	\$.40
	1/2 lb.	.35	.44	.73
20	1/4 lb.	.22	.26	.49
	1/2 lb.	.37	.49	.93
22	1/4 lb.	.22	.33	.60
	1/2 lb.	.40	.55	1.20
24	1/4 lb.	.24	.37	.73
	1/2 lb.	.42	.64	1.33
26	1/4 lb.	.26	.44	.86
	1/2 lb.	.46	.82	1.67
28	1/4 lb.	.31	.55	1.00
	1/2 lb.	.55	1.02	1.95
30	1/4 lb.	.35	.71	1.27
	1/2 lb.	.62	1.31	2.45
32	1/4 lb.	.37	.86	1.67
	1/2 lb.	.66	1.51	
34	1/4 lb.	.42	.98	2.00
36	1/4 lb.	.51	1.11	2.60

ENAMELED AND DCC MAGNET Wire in Bulk:

DCC Wire:

12	48.9'	per lb.	lb.	\$.55
14	77.3'	per lb.	lb.	.60
16	122.0'	per lb.	lb.	.65
18	192.0'	per lb.	lb.	.70
20	298.0'	per lb.	lb.	.80

Enameled Wire:

10	31.7'	per lb.	lb.	.40
12	50.3'	per lb.	lb.	.45
14	79.8'	per lb.	lb.	.50
16	127.0'	per lb.	lb.	.55
18	202.0'	per lb.	lb.	.60

WIRE—Continued

CORWICO Rolled Wire:

57 No. 14 Solid HD Bare Copper Wire, per 100".....	.60
Braidite Stranded or Solid Flexible, push back type, hook-up wire, per foot...	.01
265 Auto Radio Cable, 2 wires.....	.09
266 Auto Radio Cable, 3 wires.....	.10
KELLOG, flexible hook-up, push-back wire, per foot.....	.01½

ANTENNA WIRE

100 ft. Roll, Bare Copper Stranded 7-27, per roll.....	.10N
100 ft. Roll, Bare Copper Stranded 7-22, per roll.....	.45
100 ft. Roll, Bare Copper Stranded 7-24, per roll.....	.30
100 ft. Roll, Bare Copper Stranded 7-26, per roll.....	.30
100 ft. Roll, Tinned Copper Stranded 7-22, per roll.....	.60
100 ft. Roll, Tinned Copper Stranded 7-24, per roll.....	.45
100 ft. Roll, Tinned Copper Stranded 7-26, per roll.....	.40
100 ft. Roll, Enameled Copper Stranded 7-22, per roll.....	.60
100 ft. Roll, Enameled Copper Stranded 7-24, per roll.....	.45
100 ft. Roll, Enameled Copper Stranded 7-26, per roll.....	.40

BATTERY CABLE, in Bulk;

3 wires, per foot..... \$.05	8 wires, per foot..... .13
4 wires, per foot..... .06	9 wires, per foot..... .15
5 wires, per foot..... .07	10 wires, per foot..... .17
6 wires, per foot..... .10½	12 wires, per foot..... .18
7 wires, per foot..... .11½	

HOLYOKE, CABLE SHIELDED and Cotton Covered:

1 conductor, per foot..... \$.01½N	4 conductors, per foot..... .04N
2 conductors, per foot..... .02 N	5 conductors, per foot..... .04½N
3 conductors, per foot..... .03 N	

DIAL Cables

Whitney, wire braid, per foot.....	.03
Warner, stranded, per foot.....	.05
J. F. phosphor bronze, per foot.....	.07
National Drum Dial Cable, per foot.....	.02N
Corwico No. 78, 100 ft. spool.....	1.75

ACME Wire:

No. 14 Solid Enameled Copper Wire, per 100 ft.....	.50
Solid Celatsite Hook-up, Wire, per 30" length.....	.05N

BELDEN Wire:

No. 8895 Flexible Shielded No 16 Lead-in Wire, per foot.....	.03
No. 8858 Flexible Shielded No. 16, special insulation, per foot.....	.05
No. 8930 13-64 Tinned Copper Shielding.....	.06
Chamfer braided copper shield, ¼ inch width.....	.05
No. 8875 18-3 shielded microphone cable, rubber covered.....	.15
No. 7778 7-mm Shielded Cable (Similar to Packard Cable), ft.....	.15
No. 16 Airview Shielded double lighting wire, per foot.....	.06
No. 18 Airview Shielded double lighting wire, per foot.....	.05
No. VRX886, Flat "Under the Rug", 2 conductors.....	.07

LEAD Covered No. 14 Single Conductor Lead-in Wire, per foot.....

.04

Lead Covered No. 14 Double Conductor Lead-in Wire, per foot.....

.06

Tinned Bus Bar, Round 2½' lengths, each.....

.01N

Tinned Bus Bar, Square, 2½' length, each.....

.01½N

ROEBLING, Flat Copper Braided Shielding:

No. 14, ⅜ inch width, per ft.....	.03
No. 8, ½ inch width, per ft.....	.07

ROEBLING, 17, ¼ Bronze Twin Telephone wire, per ft.....

.03

UNIVERSAL MICROPHONE CABLE

3 Conductors, flexible, shielded, rubber covered, per ft.....	.25
6 Conductors, flexible, shielded, rubber covered, per ft.....	.50

Crescent Maroon Silk Covered Loop Wire, per foot.....

.01

WIRE—Continued

CRESCENT WIRE

18 Twisted C. C. Lamp cord, $\frac{1}{64}$, per ft.	.02
18 Twisted Rayon Lamp cord, per ft.	.03
18 Twisted C. C. Lamp cord, $\frac{1}{32}$, per ft.	.03
18 Parallel Rayon Lamp cord $\frac{1}{64}$ per foot.	.02
18 Parallel Rayon Lamp cord, heavy, per ft.	.02 $\frac{1}{2}$
18 Single, cotton fixture wire, per ft.	.01
14 Single, cotton fixture wire, per ft.	.02
18-2 Type SJ, 2 condensers, crescord R.C., per ft.	.05 $\frac{1}{2}$
16 R. C. Stranded Tinned Copper, $\frac{1}{32}$, per ft.	.01 $\frac{1}{2}$
18 R. C. Stranded Tinned Copper, $\frac{1}{64}$, per ft.	.01
20 R. C. solid Tinned Copper, per ft.	.01
18 Solid Hook up wire, type R, per foot.	.01
18 Stranded Hook up wire, Type R, per ft.	.01 $\frac{1}{2}$
20 Stranded Hook up wire, type R, per ft.	.01
Annunciator wire, $\frac{1}{2}$ lb. roll.	.30
Annunciator wire, 1 lb. roll.	.55

READ

The following pages for valuable technical information

WIRE

Size B. & S Gauge	Diam. Bare Wire in inches	Diam. Bare Wire in MM	Area in Circular Mils	Ohms Per 1000 Ft. Approximate 77° F.	Ft. Per Pound Bare Approximate	Ft. Per Pound DCC	Turns Per In. SSC DSC	Turns Per In. DCC	Turns Per In. SSC	Turns Per In. Enamel
1.	.2893	7.348	83690.	.1264	3.947					
2.	.2576	6.544	66370.	.1593	4.977					
4.	.2043	5.189	41740.	.2533	7.914					
6.	.1620	4.115	26250.	.4028	12.58					
8.	.1285	3.264	16510.	.6405	20.01	19.6	7.4	7.1		7.6
10.	.1019	2.588	10380.	1.018	31.82	30.9	9.3	8.9		9.6
12.	.0808	2.053	6530.	1.619	50.59	48.9	11.5	10.9		12.0
14.	.0641	1.628	4107.	2.575	80.44	77.3	14.2	13.3		15.0
16.	.0508	1.291	2583.	4.094	127.9	119.	17.9	16.4	18.9	18.9
18.	.0403	1.025	1624.	6.510	203.4	188.	22.0	19.8	23.6	23.6
20.	.0320	.8118	1022.	10.35	323.4	293.	27.0	23.8	29.4	29.4
22.	.0253	.6438	642.4	16.46	514.2	461.	34.1	30.0	36.5	37.0
24.	.0201	.5016	404.	25.17	817.7	745.	41.5	35.6	45.3	46.3
26.	.0159	.4049	254.1	41.62	1300.	1118.	50.2	41.8	55.6	58.0
28.	.0126	.3211	159.8	66.17	2067.	1759.	60.2	48.5	68.6	72.7
30.	.0100	.2546	100.5	105.2	3287.	2534.	71.5	55.5	83.3	90.5
32.	.0080	.2019	63.21	167.3	5227.	3137.	83.6	62.6	101.	113.
34.	.0063	.1601	39.75	266.0	8310.	6168.	97.0	70.0	120.	143.
36.	.0050	.1270	25.00	423.0	13210.	7877.	111.	77.0	143.	175.
38.	.0040	.1007	15.72	672.6	21010.	10666.	126.	83.6	166.	224.
40.	.0031	.0799	9.88	1069.	33410.	14222.	140.	89.7	194.	282.

The LARGEST and OLDEST RADIO PARTS JOBBER West of Chicago

TUBE CHARACTERISTICS

RADIO RECEIVING TUBES

Type No.	Used As:	Emitter			Plate Volts	Plate Current Ma.	Screen Volts	Screen Current Ma.	Grid Bias Volts	Amp. Factor	Plate Resistance	Mutual Conductance	Load Resistance	Power Output Watts	Base No.
		Type	Volts	Amps.											
01A	DET. AMP.	Fil.	5	.25	90	2.5			4.5	8.0	11,000	725	11,000	.015	1
					135	3.0			9.0	8.0	10,000	800	20,000	.055	1
2A3	Single Pwr. Amp.	Fil.	2.5	2.5	250	60			42	4.2	725	5500	2,500	3.5	1
2A3	P. P. Pwr. Amp.—Fixed Bias				300	40			62	Distortion 2.5%			3,000	15.0	1
2A3	P. P. Power Amp.—Self Bias				300	40			62	Distortion 5.0%			5,000	15.0	1
2A5	Output Pentode	Heater	2.5	1.75	250	34	250	7.5	16.5	165	75,000	2200	9,000	3.0	15A
2A6	Det.	Heater	2.5	1	Same as No. 75										13
2A7	OSC.—1st DET.	Heater	2.5	0.8	250	4.0	100	2	3.0		300,000	Anode grid 250 v., 3.5 Mills			
								Osc. grid Res. = 50,000 ohms				Osc. grid current 0.5 Mill			20
2B7	Duplex Diode	Heater	2.5	0.8	100	5.8	100	1.7	3.0	285	300,000	950 ip cutoff when Eg = -17			21
	Pentode Unit				180	3.4	75	0.9	3.0	840	1 Meg	840 ip cutoff when Eg = -13			21
	Pentode Unit				250	6.0	100	1.5	3.0	800	800,000	1000 ip cutoff when Eg = -17			21
	Pentode Unit				250	9.0	125	2.3	3.0	730	650,000	1125 ip cutoff when Eg = -21			21
2B7	AF. Amp.	Plate Supply =			250	.65	50		4.5		Load Resistance = 200,000				21
6A4	Output Pentode	Fil.	6.3	0.3	100	9	100	1.6	6.4	100	83,250	1200	11,000	0.31	6
					135	12	135	2.5	9	100		1900	9,500	0.70	6
					165	17	165	3.5	11	100		2100	8,000	1.20	6
6C6	RF or AF Pentode	Heater	6.3	0.3	Same as 57										11
6D6	Vario-Mu RF or AF	Heater	6.3	0.3	Same as 58										11
6A7	Osc.—1st Det.	Heater	6.3	0.3	Same as 2A7										20
6B7	Duplex Diode Pentode	Heater	6.3	0.3	Same as 2B7										21
12A	Det. Amp.	Fil.	5.0	.25	180	7.7			13.5	8.5	4,700	1800	10,650	.260	1
15	Osc. Det. Amp.	Heater	2.0	.22	135	1.85	67.5	.60	1.5	500	800,000	625			9
18	Output Pentode	Heater	14.0	0.3	Otherwise same as 6A5										15A
19	Complete	Fil.	2.0	.26	135	10-27			0	Input Pwr. Req. = .170			10,000	2.1	25
	Class "B"				135	4-25			3	Input Pwr. Req. = .130			10,000	1.9	25
	Power Amp.				135	1-22			6	Input Pwr. Req. = .095			10,000	1.6	25

RADIO RECEIVING TUBES—Continued

Type No.	Used As:	Emitter			Plate Volts	Plate Current Ma.	Screen Volts	Screen Current Ma.	Grid Bias Volts	Amp. Factor	Plate Resistance	Mutual Conductance	Load Resistance	Power Output Watts	Base No.
		Type	Volts	Amps.											
20	Pwr. Amp.	Fil.	3.3	.132	135	6.5			22.5	3.3	6,300	525	6,500	.110	1
22	Arcturus	Heater	15	.35	135	1.0	30		1.5	400	700,000	570			
22	RF. Amp.	Fil.	3.3	.132	135	1.7	45	.6	1.5	270	725,000	375			4
					135	3.7	67.5	1.3	1.5	160	325,000	500			4
22	AF. Amp.	Fil.	3.3	.132	135	0.3	22.5		1.5	350	2 Meg	175			4
24A	RF. Amp.	Heater	2.5	1.75	180	4	75		1.5	420					9
					180	4	90	1.7	3.0	400	400,000	1000			9
					250	4	90	1.7	3.0	630	600,000	1050			9
24A	Det.	Heater	2.5	1.75	250	0.1	20-45		5.0	Plate current is with no signal					9
24A	AF. Amp.	Heater	2.5	1.75	250	0.5	25		1.0	1000	2 Meg	500	250,000		9
26	Amp.	Fil.	1.5	1.05	90	2.9			7	8.3	8,900	935	9,800	0.03	1
					135	5.5			10	8.3	7,600	1100	8,800	0.08	1
					180	6.2			14.5	8.3	7,300	1150	10,500	0.13	1
26	Arcturus	Heater	15	.35	90	4.5			1.5	10.5	9,000	1165			
27	Amp.	Heater	2.5	1.75	90	2.7			6.0	9.0	11,000	820	14,000	0.03	8
					135	4.5			9.0	9.0	9,000	1000	13,000	0.08	8
					180	5.0			13.5	9.0	9,000	1000	18,700	0.165	8
					250	5.2			21	9.0	9,250	975	34,000	0.30	8
7	Det.	Heater	2.5	1.75	275	0.2			30	Plate current is with no signal					8
28	Arcturus	Heater	15.0	.35	90	7.5			1.5	10.5	9,000	1165			
29	Sylvania	Heater	2.5	1.0	180	4.5			3.0	30	20,700	1450	Dual Grid Det.		24
30	Arcturus	Heater	15	.35	180	22			27	3.8	3,500	1100			
30	Det. Amp.	Fil.	2.0	.06	90	2.5			4.5	9.3	11,000	850	15,000	.016	1
					180	3.1			13.5	9.3	10,300	900			1
31	Pwr. Amp.	Fil.	2.0	.13	135	8.0			22.5	3.8	4,100	925	7,000	.185	1

RADIO RECEIVING TUBES—Continued

Type No.	Used As:	Emitter			Plate Volts	Plate Current Ma.	Screen Volts	Screen Current Ma.	Grid Bias Volts	Amp. Factor	Plate Resistance	Mutual Conductance	Load Resistance	Power Output Watts	Base No.
		Type	Volts	Amps.											
32	RF. Amp.	Fil.	2.0	0.06	135	1.7	67.5	0.4	3.0	610	950,000	640			4
					180	1.7	67.5	0.4	3.0	780	1.2 Megs	650			4
32	Det.	Fil.	2.0	.06	180	0.2	67.5		6.0	Plate current is with no signal					4
33	Output Pentode	Fil.	2.0	.26	135	14.5	135	3.0	13.5	70	50,000	1450	7,000	.700	6
34	Vario-Mu RF.	Fil.	2.0	.06	67.5	2.7	67.5		3.0	224	400,000	560			4A
					135	2.8	67.5	1.0	3.0	360	600,000	600			4A
					180	2.8	67.5	1.0	3.0	620	1 Meg	620			4A
34	AF. Amp.	Fil.	2.0	.06	180		22-45		1.0				250,000		4A
35	Vario-Mu RF.	Heater	2.5	1.75	180	6.3	90	2.5	3.0	305	300,000	1020			9
					250	6.5	90	2.5	3.0	420	400,000	1050			9
35	AF. Amp.	Heater	2.5	1.75	250	0.5	45-67		1		2 Megs		250,000		9
36	RF Amp.	Heater	6.3	0.3	135	3.0	67.5	1.7	1.5	315	300,000	1050			9
					180	3.1	90	1.7	3.0	370	350,000	1050			9
					250	3.4	90	1.7	3	440	400,000	1100			9
36	Det.	Heater	6.3	0.3	250	0.1	20-45		6	Plate current is with no signal					9
37	Det. Amp.	Heater	6.3	0.3	90	2.6			6	9	11,500	780	17,500	.03	8
					135	4.3			9	9	10,000	900	14,000	.08	8
					180	4.7			13.5	9	10,000	900	20,000	.175	8
					250	5.8			20	9.2	9,000	980			8
38	Output Pentode	Heater	6.3	0.3	135	9.0	135	2.5	13.5	100	102,000	975	13,500	.525	9A
39-44	Vario-Mu RF	Heater	6.3	0.3	90	5.6	90	1.6	3	360	375,000	950			9A
					180	5.8	90	1.4	3	750	750,000	1000	ip = 0 when Eg = -42.5		9A
					250	5.8	90	1.4	3	1050	1 Meg	1050			9A
39-44	Mixer	Heater	6.3	0.3	90	2.4	90		7	Bias shown is minimum for osc.					9A
					180	2.4	90		7	Peak of 6 volts. Plate currents					9A
					250	2.5	90		7	Are without osc. input signal					9A
39-44	AF. Amp.	Heater	6.3	0.3	250	0.5	67.5		1		2 Megs				9A

RADIO RECEIVING TUBES—Continued

Type No.	Used As:	Emitter			Plate Volts	Plate Current Ma.	Screen Volts	Screen Current Ma.	Grid Bias Volts	Amp. Factor	Plate Resistance	Mutual Conductance	Load Resistance	Power Output Watts	Base No.
		Type	Volts	Amps.											
40	AF. Amp.	Fil.	5.0	0.25	135	0.2			1.5	30	150,000	200			1
					180	0.2			3.0	30	150,000	200			1
40	Arcturus	Heater	15.0	0.4	180	21			40.5	3.0	2,000	1500			
41	Output Pentode	Heater	6.3	0.4	125	11	125	2.	10	150	100,000	1525	11,000	.65	15A
					167.5	17	167.5	3	12.5	150	85,000	1800	9,500	1.25	15A
					180	18.5	180	3	13.5	150	81,000	1850	9,000	1.5	15A
42	Output Pentode	Heater	6.3	0.7	250	34	250	6.5	16.5	220	100,000	2200	7,000	3.0	15A
43	Output Pentode	Heater	25	0.3	95	20	95	4	15	90	45,000	2000	4,500	.9	15A
					135	34	135	7	20	80	35,000	2300	4,000	2.0	15A
44	See No. 39-40														
45	Pwr. Amp.	Fil.	2.5	1.5	180	31			31.5	3.5	1,650	2125	2,700	.825	1
					250	34			50	3.5	1,610	2175	3,900	1.6	1
					275	36			56	3.5	1,700	2050	4,600	2.0	1
46	Class "A"	Fil.	2.5	1.75	250	22			33	5.6	2,380	2350	6,400	1.25	7
	Class "B"	Fil.	2.5	1.75	300	4			0				5200 P-P	10(2)	7
	Class "B"	Fil.	2.5	1.75	400	6			0				5800 P-P	20(2)	7
47	Pwr. Amp.	Fil.	2.5	1.75	150	31	250	6	16.5	150	60,000	2500	7,000	2.7	6
48	Arcturus	Heater	15.0	0.35	90	4.5			4.5	10.5	9,000	1185			
48	Output Pentode	Heater	30	0.4	95	47	95	9	20	28	10,000	2800	2,000	1.6	15
					125	50	100	9	22.5	28	10,000	2800	2,000	2.5	15
49	Class "A"	Fil.	2	.120	135	5.7			20	4.5	4,000	1125	8,000	.17	7
49	Class "B"	Fil.	2	.120	180	4			0				12,000(2)	3.5(2)	7
50	Pwr. Amp.	Fil.	7.5	1.25	350	45			63	3.8	1,900	2000	4,100	2.4	1
					400	55			70	3.8	1,800	2100	3,070	3.4	1
					450	55			84	3.8	1,800	2100	4,350	4.6	1
51	Vario-Mu RF.	Heater	2.5	1.75	250	6.3	90	.9	3	400	360,000	1110	Arcturus		9

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Type No.	Used As:	Emitter			Plate Volts	Plate Current Ma.	Screen Volts	Screen Current Ma.	Grid Bias Volts	Amp. Factor	Plate Resistance	Mutual Conductance	Load Resistance	Power Output Watts	Base No.	
		Type	Volts	Amps.												
53	Class "B"	Heater	2.5	2	300	12-70		0	Complete "B" in one envelope				10,000	10	19	
55	Det. A.V.C.	Heater	2.5	1.0	135	3.7			10.5	8.3	11,000	750	25,000	.075	13	
	Triode				180	6			13.5	8.3	8,500	975	20,000	.160	11	
	Section				250	8.0			20	8.3	7,500	1100	20,000	.350	13	
56	Amp.	Heater	2.5	1.0	250	5.0			13.5	13.8	9,500	1450			8	
56	Det.	Heater	2.5	1.0	250	0.2			20	Plate current is with no signal					8	
57	RF. Amp.	Heater	2.5	1.0	250	2.0	100	0.5	3	1500+	1.5 Meg+	1225 ip = 0, when Eg = -7			11	
57	AF. Amp.	Heater	2.5	1.0	250	0.5	50		1	1800	3 Megs	600	250,000		11	
57	Det.	Heater	2.5	1.0	250	0.1	100		6	Plate current is with no signal				250,000	11	
58	Vario-Mu RF.	Heater	2.5	1.0	250	8.2	100	2.0	3	1280	800,000	1600 ip = 0, when Eg = -50			11	
58	AF. Amp.	Heater	2.5	1.0	250	0.5	75		3	900	1.5 Meg	600	250,000		11	
58	Mixer	Heater	2.5	1.0	250	3	100		10	Plate current is with osc. input signal					11	
59	Class "A" Triode	Heater	2.5	2.0	250	26			28	6	2,400	2600	5,000	1.25	18	
59	"A" Pentode	Heater	2.5	2.0	250	35	250	9	18	100	40,000	2500	6,000	3.0	18	
59	Class "B"	Heater	2.5	2.0	300	10			0				4600(2)	15(2)	18	
					400	13			0				6000(2)	20(2)	18	
69	Sylvania	Heater	6.3	0.3	180	4.5			3	30	20,700	1450	2 Grid Det.		24	
71A	Pwr. Amp.	Fil.	5.0	0.25	135	17.3			27	3.0	1,820	1650	3,000	.4	1	
					180	20			40.5	3.0	1,750	1700	4,800	.79	1	
75	Det.	Heater	6.3	0.3	250	0.8	Triode Section		2	100	91,000	1100	100,000		13	
77	3 Grid Amp.	Heater	6.3	0.3	250	2.3	100	0.6	3	1500	1.5 Meg	1250			11	
77	3 Grid Det.	Heater	6.3	0.3	250	.1	100		7	Plate current is without Sig.			250,000		11	
78	3 Grid Vario-Mu RF.	Heater	6.3	0.3	180	4	75	1	3	1100	1 Meg	1100			11	
					250	7	100	2	3	1160	800,000	1450			11	
					250	10.5	125	3	3	990	600,000	1650			11	
79	Dual "B" Amp.	Heater	6.3	0.3	180	7.5-90			0	Input to Grids			.38 Watts	7000(2)	5.5	19
85	Det. A.V.C.	Heater	6.3	0.3	See No. 55										13	

RADIO RECEIVING TUBES—*Continued*

[illegible]

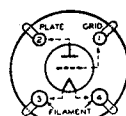


FIG. 1

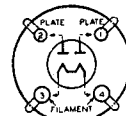


FIG. 2

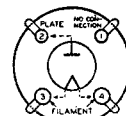


FIG. 3

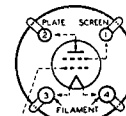


FIG. 4

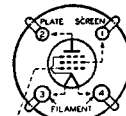


FIG. 4A

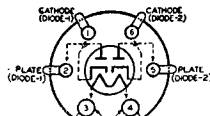


FIG. 5

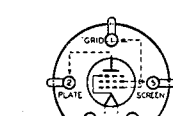


FIG. 6

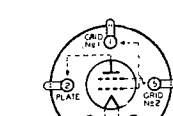


FIG. 7

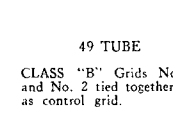


FIG. 7A

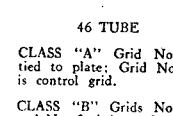


FIG. 8

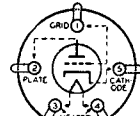


FIG. 8A

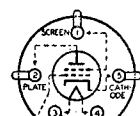


FIG. 9

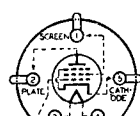


FIG. 9A

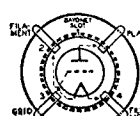


FIG. 10

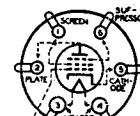


FIG. 11

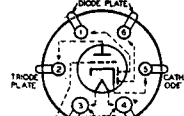


FIG. 13

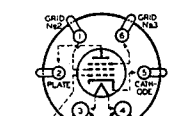


FIG. 14

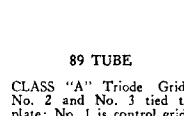


FIG. 15

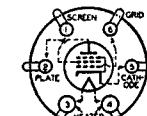


FIG. 15A

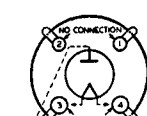


FIG. 16

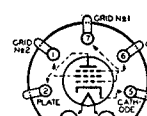


FIG. 18

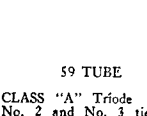


FIG. 19

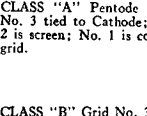


FIG. 20

FIG. 20

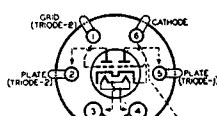


FIG. 21

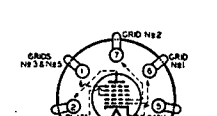


FIG. 22

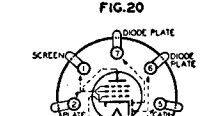


FIG. 23

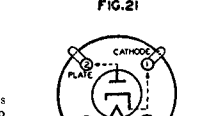


FIG. 24

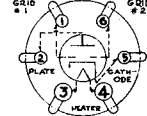


FIG. 24A

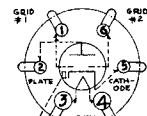


FIG. 25

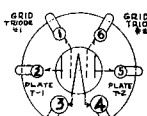


FIG. 26

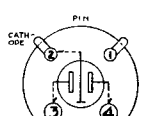


FIG. 27

CLASS "A" Triode Grids No. 2 and No. 3 tied to plate; No. 1 is control grid.

CLASS "A" Pentode Grid No. 3 tied to Cathode; No. 2 is screen; No. 1 is control grid.

CLASS "B" Grid No. 3 tied to plate; No. 2 and No. 1 tied together is control grid.

CLASS "A" Triode Grids No. 2 and No. 3 tied to plate; No. 1 is control grid.

CLASS "A" Pentode Grid No. 3 tied to Cathode; No. 2 is screen; No. 1 is control grid.

CLASS "B" Grid No. 3 tied to plate; No. 2 and No. 1 tied together is control grid.

RECTIFIER TUBES

Type No.	Half Wave	Full Wave	Type		Emitter		Amperes	Maximum Voltage Per Plate RMS	Maximum Current in Amperes	Base Connections
			Gaseous	High Vacuum	Type	Volts				
1	x		x		Heater	6.3	0.3	350	.05	22
1V	x			x	Filament	6.3	0.3	350	.05	22
80		x		x	Filament	5.0	2.0	550	.135	2
81	x			x	Filament	7.5	1.25	700	.085	3
82		x	x		Filament	2.5	3.0	500	.125	2
83		x	x		Filament	5.0	3.0	500	.250	2
84		See No. 6Z4								
96		x	x		Heater	10.0	0.3	350	.10	23
98	x		x		Heater	6.3	0.5	350	.05	22
5Z3		x		x	Filament	5.0	3.0	500	.25	2
6Z3	x				Heater	6.3	0.3	350	.050	
6Z4		x		x	Heater	6.3	0.3	225	.05	23
12Z5		x			Heater	12.6				
12Z3	x			x	Heater	12.6	0.3	230	.06	22
25Z3	x				Heater	25.0				
25Z5		x		x	Heater	25.0	0.3	125	.10	5
HZ50	x			x	Heater	12.6	0.3	125		22
866	x		x		Filament	2.5	5.0	7500 Peak	.6 Peak	16
871	x		x		Filament	2.5	2.0	5000 Peak	.3 Peak	
872	x		x		Filament	5.0	10.0	7500 Peak	2.5 Peak	
985		x	x		Filament	5.0	0.5	500	.10	2
Rectobulb R-81	x		x		Heater	7.5			.085	
Rectobulb R- 3	x		x		Heater	10.0	1.7		1.0 Peak	
BA		x	x		None			350	.35	26
BH		x	x		None			350	.125	26
BR	x		x		None			600 Peak	.05	27

TRANSMITTING TUBES

Type No.	Class of Use	Emitter			Max. DC Volts		Normal Plate Volts	Max. Plate Diss. Watts	Plate Amps Max.	Max. Grid RF Amps.	Screen Volts	Max. Screen Diss. Watts	Grid Bias Volts	Avg. Mutual Conductance Micro-mhos	Amp. Factor	Avg. AC Plate Res.	Normal Output Watts		
		Type	Volts	Amps.	Mod.	Unmod.													
210	A B C	Tung.	7.5	1.25	See Receiving Tubes					39.0 100.	12.0 10.0								
					350	450	350	15.0	0.043 0.060										
203-A	A B C	Tung.	10.0	3.25	1,000	1,250	1,000	100.	0.075 0.130 0.175	7.5 7.5	32.0 70.0 175.0	4,200 4,000	25.0 25.0	6,000 6,300	160. 100.				
204-A	A B C	Thor.	11.0	3.85	2,000	2,500	2,000	250.	0.125 0.143 0.275	10.0 10.0	50.0 75.0 200.	3,530	12.0	3,400	10.0 160. 100.				
211	A B C	Thor.	10.0	3.25	1,000	1,250	1,000	100.	0.075 0.130 0.175	7.5 7.5	30.0 60.0 80.0	3,900 7,500 3,600	12.0 16.0 13.0	3,200 2,150 3,500					
211-D-E	A	Coated	10.0	3.00			750	65.	0.065										
212-D	A	Coated	14.0	6.00			1,500	250.	0.150										
242-A	A	Thor.	10.0	3.25			1,000	100.	0.085										
245	A B C	Coated	2.5	1.50				300 300	0.050 0.050	See Receiving Tubes for Class A					1.60 5.00 5.00				
247	A B C	Coated	2.5	1.75				250	0.050 0.050	See Receiving Tubes for Class A					2.50 5.00 5.00				
261-A	A	Thor.	10.0	3.25			1,000	100.	0.072										
525	B—C	Thor.	7.5	2.50			425												
571	B C	Thor.	11.0	10.0	3,000	4,000	3,000	500.	0.350				250. 400.	3,200	16.0	5,000	500. 500.		
831	C												121.						
841	Voltage Amp.	Thor.	7.5	1.25			425		0.0075				8.0	1,400	30.0	21,500			

TRANSMITTING TUBES—Continued

Type No.	Class of Use	Emitter			Max. DC Volts		Normal Plate Volts	Max. Plate Diss. Watts	Plate Amps. Max.	Max. Grid RF Amps.	Screen Volts	Max. Screen Diss. Watts	Grid Bias Volts	Avg Mutual Conductance Micro-mhos	Amp. Factor	Avg. Plate AC Res.	Normal Output Watts
		Type	Volts	Amps.	Mod.	Unmod.											
842	A C	Thor.	7.5	1.25	350	450	425 350	15.0 15.0	0.028 0.060				100. 250.	1,200	3.0	2,500	3.0 7.5
845	A	Thor.	10.0	3.25			1,000		0.075				147.0	3,000	5.0	1,800	23.0
849	A	Thor.	11.0	5.00	2,000	2,500	3,000		0.100				132.0	6,000	19.0	3,200	100.
	B						2,000	400.	0.260	10.0			95.0				660.
	C						2,000		0.350				200.0				450.
850	B—C	Thor.	10.0	3.25	1,000	1,250	1,000	100.	0.175		7.5 200	10.0			550	200,000	100.
851	A	Thor.	11.0	15.5	2,000	2,500		600.	0.300				65.0	15,000	20.0	1,400	100.
	B						2,000	750.	0.375	10.0			100.0				250.
	C							750.	1.000				200.0				1000.
852	B	Thor.	10.0	3.25	2,000	3,000	2,000	100.	0.060				150.0	1,200	12	10,000	120.
	C								0.100	10.0			250.0				100.
860	B	Thor.	10.0	3.25	2,000	3,000	2,000	100.	0.060	10.0	300	10.0	50.0	1,100	200	180,000	120.
	C								0.100				200.0				100.
861	B	Thor.	11.0	10.0	3,500	4,000	3,000	400.	0.167	10.0	500	35.0	60.0	2,100	300	143,000	600.
	C								0.350				200.0				540.
865	B	Thor.	7.5	2.0	750	750	500	15.0	0.030	5.0	125	3.0	40.0	750	150	200,000	12.5
	C								0.060				90.0				12.5

CRYSTAL DATA

TO DETERMINE PROPER THICKNESS TO GRIND YOUR BLANK

For "X" Cut, $T = \frac{112.6}{f}$

For "Y" Cut, $T = \frac{77}{f}$

Where f = frequency in KC.

TEMPERATURE CONVERSION

Temp. in C = $5/9$ (Temp. in F) — 32

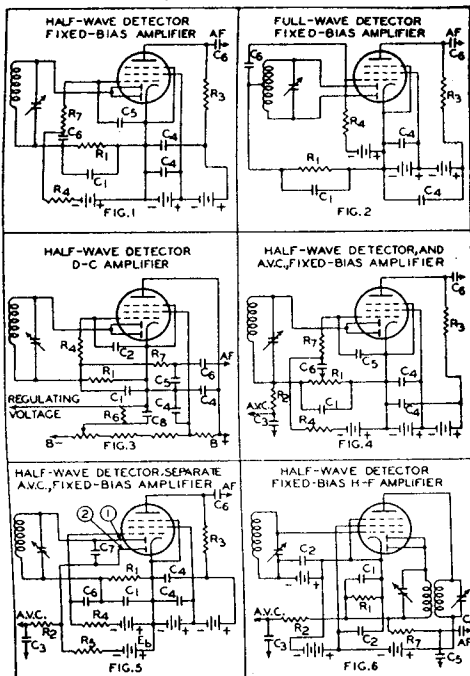
Temp. in F = $9/5$ (Temp. in C) + 32

TO COMPLETE The usefulness of the Chart, on back cover, the inductance or the capacity for any Wave-Length X, in the formulas, may be found as follows:

$LC = .002816 \left(\frac{x}{100} \right)^2$, from which we obtain

$L = .002816 C \left(\frac{x}{100} \right)^2$, or $C = .002816 L \left(\frac{x}{100} \right)^2$

TYPICAL DUPLEX-DIODE PENTODE CIRCUITS FOR NO. 237 TUBE



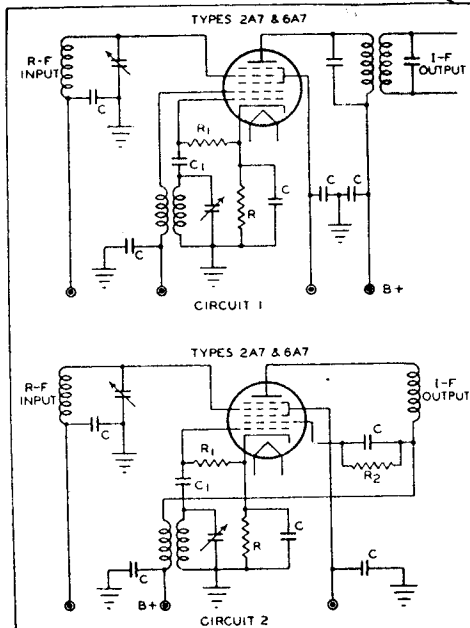
APPROXIMATE VALUES

$C_1 = 150 \mu\text{F}$ FOR 500-1500 MC
 $C_1 = 450 \mu\text{F}$ FOR 175 MC
 $C_2 = 0.1 \mu\text{F}$
 $C_3 = 0.1 \mu\text{F}$
 $C_4 = 0.5 \mu\text{F}$ OR LARGER
 $C_5 = 0.0001 \mu\text{F}$ OR SMALLER
 $C_6 = 0.01 \mu\text{F}$
 $C_7 = 0.0005 - 0.001 \mu\text{F}$
 $C_8 = 0.1 \mu\text{F}$ OR LARGER

$R_1 = 0.5 - 1.0 \text{ MEGOHM}$
 $R_2 = 1.0 - 1.5 \text{ MEGOHMS}$
 $R_3 = 0.1 - 0.2 \text{ MEGOHM}$
 $R_4 = 0.5 - 1.0 \text{ MEGOHM}$
 $R_5 = 1.0 \text{ MEGOHM}$
 $R_6 = 30000 - 100000 \text{ OHMS}$
 $R_7 = 0.1 - 0.2 \text{ MEGOHMS}$
 $E_b = \text{VOLTAGE FOR SENSITIVITY CONTROL}$

NOTE: SUPPRESSOR CONNECTED TO CATHODE WITHIN BULB

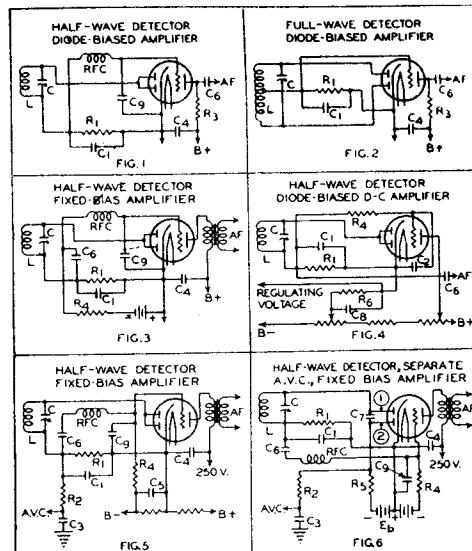
TYPICAL PENTAGRID DIODE PENTODE CIRCUITS FOR NO. 2 AT TUBE



$C = 0.1 \text{ MICROFARAD}$
 $C_1 = 100 \text{ MICRO-MICROFARADS}$
 $R_1 = 150 \text{ OHMS APPROX.}$
 $R_2 = 10000 - 25000 \text{ OHMS, WHEN SCREEN VOLTS} = 50$
 $15000 - 40000 \text{ OHMS, WHEN SCREEN VOLTS} = 75$
 $50000 - 100000 \text{ OHMS, WHEN SCREEN VOLTS} = 100$
 $R_2 = 20000 \text{ OHMS APPROX. 1 VOLTAGE REDUCING RESISTOR 1, WHEN PLATE VOLTS} = 250$

Circuit 2 differs from Circuit 1 in that the current from the plate and the anode-grid returns through the oscillator plate coil. This circuit provides exceptionally uniform oscillator output over the entire grid-bias range, while Circuit 1 is not quite as good in this respect, it will ordinarily give excellent results.

TYPICAL DUPLEX-DIODE TRIODE CIRCUITS FOR NO. 55 TUBE



APPROXIMATE VALUES

$C_1 = 150 \mu\text{F}$ FOR 500-1500 MC
 $C_1 = 450 \mu\text{F}$ FOR 175 MC
 $C_2 = 0.1 \mu\text{F}$
 $C_3 = 0.1 \mu\text{F}$
 $C_4 = 0.5 \mu\text{F}$ OR LARGER
 $C_5 = 0.5 \mu\text{F}$ OR LARGER
 $C_6 = 0.01 - 0.1 \mu\text{F}$
 $C_7 = 0.0005 - 0.001 \mu\text{F}$
 $C_8 = 0.1 \mu\text{F}$ OR LARGER
 $C_9 = 0.0001 \mu\text{F}$ OR SMALLER
 $R_1 = 0.5 - 1.0 \text{ MEGOHM}$
 $R_2 = 1.0 - 1.5 \text{ MEGOHMS}$
 $R_3 = 0.1 \text{ MEGOHM}$
 $R_4 = 0.5 - 1.0 \text{ MEGOHM}$
 $R_5 = 1.0 \text{ MEGOHM}$
 $R_6 = 25000 - 75000 \text{ OHMS}$
 $E_b = \text{VOLTAGE FOR SENSITIVITY CONTROL}$

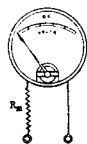
Figs. 1, 2, 3: Various arrangements for using the 55 as a detector and amplifier.

Fig. 4: Half-wave detection and a method for obtaining a regulating voltage for general use in a-v-c systems.

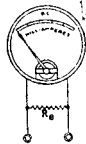
Fig. 5: Half-wave detection and a-v-c arrangement with fixed-bias triode.

Fig. 6: Arrangement whereby one diode serves as half-wave detector (Plate 1), the other diode as a-v-c tube (Plate 2) and the triode as an amplifier with fixed bias. The use of a voltage E_b for sensitivity control is also shown.

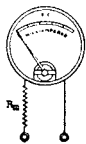
CONVERSION OF AND EXTENSION OF RANGES OF METERS



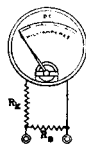
Extending the Range of a D. C. Voltmeter



Converting a D. C. Milliammeter into a D. C. Voltmeter



Finding the Shunt Required to Extend the Range of a D. C. Milliammeter



R_v = Resistance of the voltmeter in ohms, or, if ohms per volt is given, R_v can be found by multiplying the ohms per volt by the maximum reading in volts of the voltmeter.

V_1 = Original maximum reading of the meter in volts.

V_2 = The desired new maximum reading of the voltmeter in volts.

N = Multiplying factor = $\frac{V_2}{V_1}$

R_m = Resistance in ohms required in the meter multiplier as an external resistor.

Then: $R_m = R_v \times (N - 1)$

I = Original maximum reading in milliamperes.

V = Desired maximum reading in volts.

R_m = Resistance of multiplier required, in ohms.

Then:

$$R_m = \frac{V \times 1,000}{I}$$

Note: The internal resistance of the milliammeter may be neglected without seriously affecting the result, for all practical purposes.

I. R. C. Precision Wire Wound Resistors are specially suited for use in converting or extending the range of meters.

R_m = Resistance of the meter in ohms.

I_m = The original maximum reading, in milliamperes.

I = The desired new maximum reading, in milliamperes.

N = Multiplying factor = $\frac{I}{I_m}$

R_s = The value of resistance in ohms of the shunt required.

Then:

$$R_s = \frac{R_m}{N - 1}$$

In using the above method, the resistance of the meter must be known accurately.

If the meter resistance is not accurately known, great-

er accuracy in scale conversion may be obtained by using two I. R. C. Precision Wire Wound Resistors as shown in the accompanying illustration. The use of this circuit arrangement, reduces considerably the error that would otherwise occur when the resistance of the meter is not accurately known.

R_m = Approximate meter resistance, as from manufacturer's catalog.

R_k = A resistor, equal, in ohms, to 9 times R_m .

Then:

$$R_s = \frac{R_k + R_m}{N - 1} = \frac{10 \times R_m}{N - 1}$$

OHM'S LAW AND POWER FORMULAS

VOLTAGE in Volts	CURRENT in Ma.	RESISTANCE in Ohms	POWER in Watts
KNOWN	KNOWN	$\frac{\text{Volts} \times 1,000}{\text{Ma.}}$	$\frac{\text{Volts} \times \text{Ma.}}{1,000}$
$\frac{\text{Ma.} \times \text{Ohms}}{1,000}$	KNOWN	KNOWN	$\frac{\text{Ma.} \times \text{Ma.} \times \text{Ohms}}{1,000,000}$
KNOWN	$\frac{\text{Volts} \times 1,000}{\text{Ohms}}$	KNOWN	$\frac{\text{Volts} \times \text{Volts}}{\text{Ohms}}$
KNOWN	$\frac{\text{Watts} \times 1,000}{\text{Volts}}$	$\frac{\text{Volts} \times \text{Volts}}{\text{Watts}}$	KNOWN
$\frac{\text{Watts} \times 1,000}{\text{Ma.}}$	KNOWN	$\frac{\text{Watts} \times 1,000,000}{\text{Ma.} \times \text{Ma.}}$	KNOWN
$\sqrt{\text{Ohms} \times \text{Watts}}$	$\frac{1,000 \sqrt{\text{Ohms} \times \text{Watts}}}{\text{Watts}}$	KNOWN	KNOWN

To find the number of turns on the primary of a power transformer with common core material:

$$T_p = \frac{KV}{X}$$

where:

T_p = No. of primary turns.

K = a constant

and is = $\begin{cases} 9 & \text{for 50 cycles} \\ 7.5 & \text{for 60 cycles} \end{cases}$

X = cross section of core in square inches.

Frequency—Wavelength Conversion:

$$\frac{WL}{f} = 300,000,000$$

RMA COLOR CODE FOR RESISTORS

Color	Body	Tip	Dot
BROWN	1	1	,0
Red	2	2	,00
ORANGE	3	3	,000
YELLOW	4	4	0,000
GREEN	5	5	00,000
BLUE	6	6	000,000
PURPLE	7	7	
GREY	8	8	
WHITE	9	9	
BLACK	0	0	

TO USE CHART, REMEMBER THAT, in the group of numbers representing the number of ohms of the resistance in question, the BODY COLOR represents the first figure, the TIP COLOR represents the second or following figure, and the DOT COLOR represents the number of ciphers following the first two figures.

EXAMPLE: If resistance has brown body, red tip and orange dot, the resistance value would be 12,000 ohms.

If resistance was all brown we would consider that it had a brown body, a brown tip, and a brown dot, and would then have a resistance of 110 ohms.

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If resistance is all yellow body, black tip, and orange dot, the resistance would be 11,000 ohms not 110 ohms.

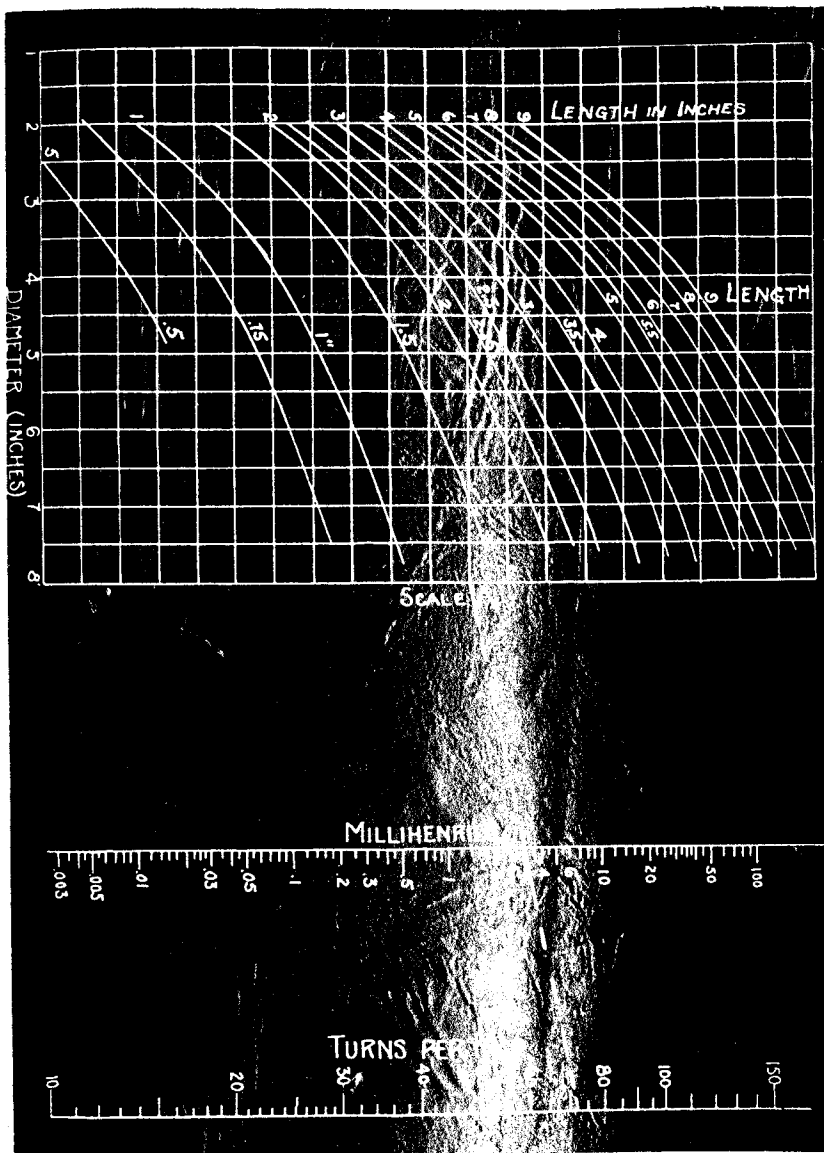


CHART FOR INDUCTANCE OF ONE-LAYER COILS (Cylindrical or Helical)

The dashed line illustrates the use of the chart for two different problems. View the chart, right side down.

Problem A. A 3 millihenry coil is to be wound of 31 D. S. C. wire. What dimensions are necessary? From the wire table we find that No. 31 D. S. C. winds 72 turns per inch, therefore we draw the dashed line from 72 on the "turns per inch" scale, through 3 on the "millihenry" scale to the scale A. The horizontal line we are following crosses the 1.5-inch (length) curve right at a diameter of 7 inches and so on. Offhand we can write down:

Length	Diameter
1.5	2.2
2	2.5
3	3.1
4	3.5
5	5.1
7.5	7.0

Problem B. On a coil-form $4\frac{1}{4}$ inches in diameter and only $2\frac{1}{4}$ inches long we are to wind a millihenry coil. How many turns are needed? On the $2\frac{1}{4}$ -inch length-curve is touched, then vertically to "scale A". From the point at which the line is touched, draw a line through the desired millihenry point on the inductance scale horizontally. This line touches the "turns per inch" curve at 72. Now use the wire table on page 76.

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