Westinghouse

RADIO APPARATUS

AERIOLA SR RECEIVER

Type [illegible] Style 319584

Including Items A B and C

Type AD Antenna Outfit.

Turn Rheostat as far as it will go toward full of scale.

Connect head phones as shown.

Connect to positive (middle) terminal of the [illegible] dry cell.

Connect wire between this post and ground side of Protective Device as shown.

Connect to negative (side) terminal [illegible] dry cell.

Also connect to negative terminal (marked — 22½ volt dry battery.

Connect to positive terminal (marked + 22½ volt dry battery.

Connect antenna wire from Protective Device to [illegible] for amateur and broadcasting stations below 550 meters. Do not run closer than 1 foot to ground wire.

Connect antenna wire to this terminal for stations between 300 and 500 meters.

Insert Type WD-11 Aerotron Tube, Style No. 219578. Note holes in base which receive prongs on tube are not symmetrical, permitting insertion of tube in one way only. Be sure prongs register with holes and then press in firmly.

Turn Rheostat (2) toward point of scale until filament is dull red. Do not try to burn tube brighter as it will [illegible]

Place Tickler pointer on 0 point of scale.

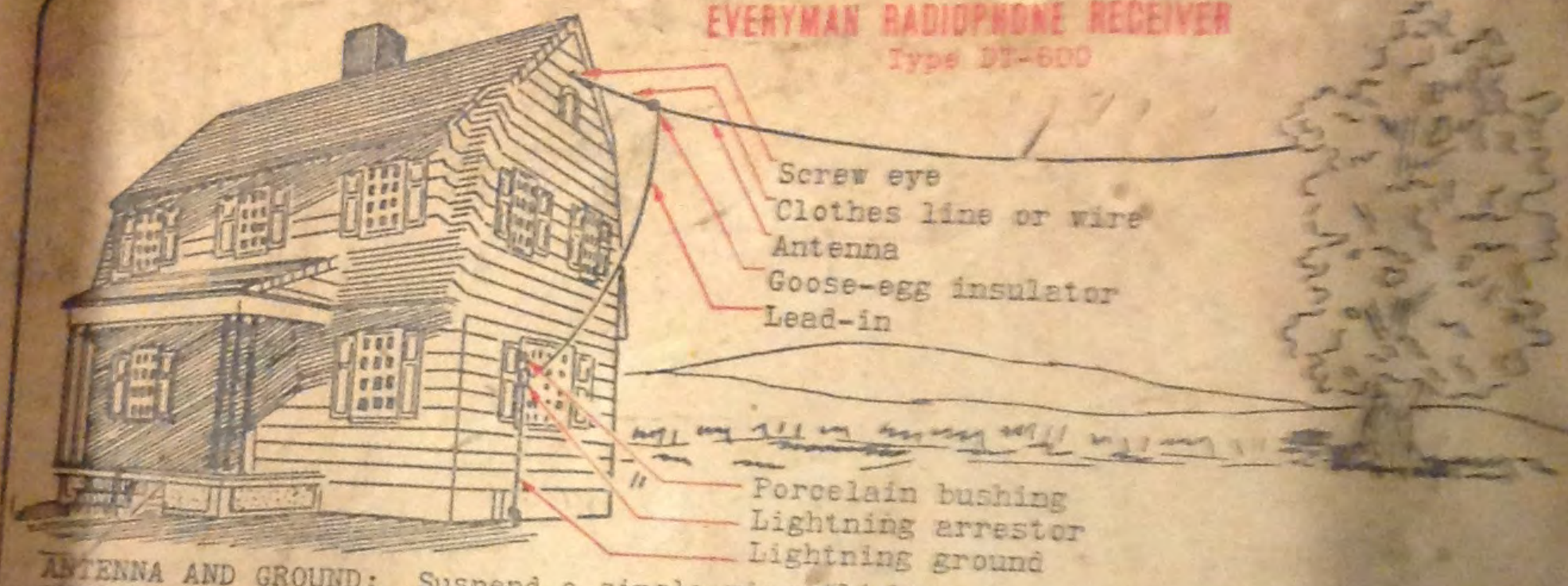
Move tuning handle slowly over scale. Remember to allow time to head set for signals. Adjust to best position as you increase Tickler (10) until maximum strength of signals is obtained. If Tickler is turned too far toward maximum point the signals will lose their characteristic tone, and telephone signals will be very difficult.

WESTINGHOUSE ELECTRIC & MANUFACTURING CO.

EAST SPRINGFIELD, MASS.

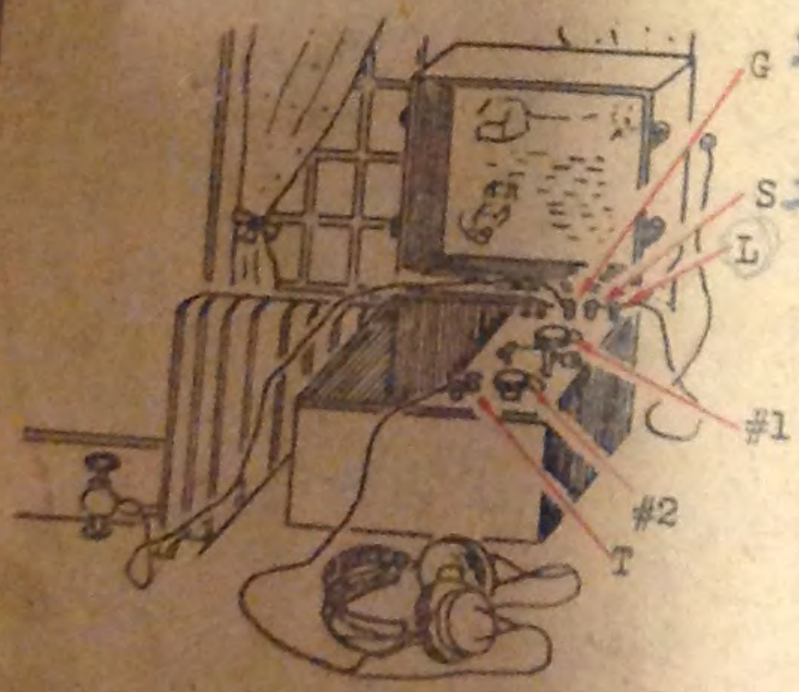
EVERYMAN RADIOPHONE RECEIVER

Type DT-600



ANTENNA AND GROUND: Suspend a single wire #14 bare copper 100 ft. long at least 30 ft. high from the ground with insulator at both ends, which should be kept at least one foot away from points of support. In apartment houses suspend wire from chimney to chimney or from clothes poles. Attach "lead-in wire" to the suspended antenna wire (between the two insulators) at the end. Bring "lead-in wire" down to top stud of "lightning arrestor" mounted in convenient place, such as window frame or side of house, and continue the same thru a porcelain bushing inside house. "Lead-in wire" should not touch any part of house. Connect bottom stud of "lightning arrestor" to "lightning ground" outside of house, such as waterpipe or metal plate buried in the ground.

INSTALLATION: Set up instrument on table or any convenient place near window. Connect antenna "lead-in wire" to binding post marked "S". Connect a wire from binding post "G" to waterpipe or radiator, thus forming your inside "receiving ground". To insure good contact clean pipe with file or sandpaper before attaching ground clamp. Attach head telephones to binding posts marked "T". The set is now ready for operation.



OPERATION: Set pointer of knob #2 on middle of scale. Turn knob #1 (wave length control) slowly over the scale and try different points of contact on crystal at the same time until signals are heard. Then readjust knob #2 for greater signal strength. After this do not disturb or let anything touch crystal detector adjustment. For reception of signals on longer wave lengths than [illegible] plug mounting is provided for increasing the wave length range by means of plug-in Duolateral Coils. When using Duolateral Coils for these longer wave lengths disconnect antenna "lead-in wire" from post "S" and connect to post "L". Then turn knob #2 over [illegible] knob #1 for wave length adjustment.

D.C. MILLIAMPERES
0 20 40 60 80 100
0 2 4 6 8 10
0 4 8 12 16 20 24
D.C. VOLTS

NATIONAL RADIO INSTITUTE
WASHINGTON, D.C.

TRANSI
POWE

RELEASE

ON
— PULL —

OFF
— PUSH —

VOLTAGE

VOLTS MA 10 MA 100 MA

FUNCTION — METER — RANG

BLACK (+) RED


LO
M
HI
CAPACITOR BRIDGE
MODEL
BN
SERIAL
.0002
.02
2.
.0001
.01
1.
3
.0004
.04
4.
.00005
.005
.5
6.
.001
.1
10
.002
.2
20
50
PAT-
ENTED
OPEN
SHORT
VOLTS
110
60
CORNELL-DUBILIER ELECT. CORP.
SO. PLAINFIELD, N.J., U.S.A.

CONAR COLOR GENERATOR

INTEGRATED CIRCUIT

MODEL 680

SOUND

PATTERN

POWER

CROSSHATCH DOTS

HORIZONTAL

VERTICAL

COLOR

NORMAL

MIN

MAX

RED

BLUE

GREEN

OFF

ON

DIVISION OF N.R.I., WASH. D.C.

1879 EDISON LAMP REPLICA 1979

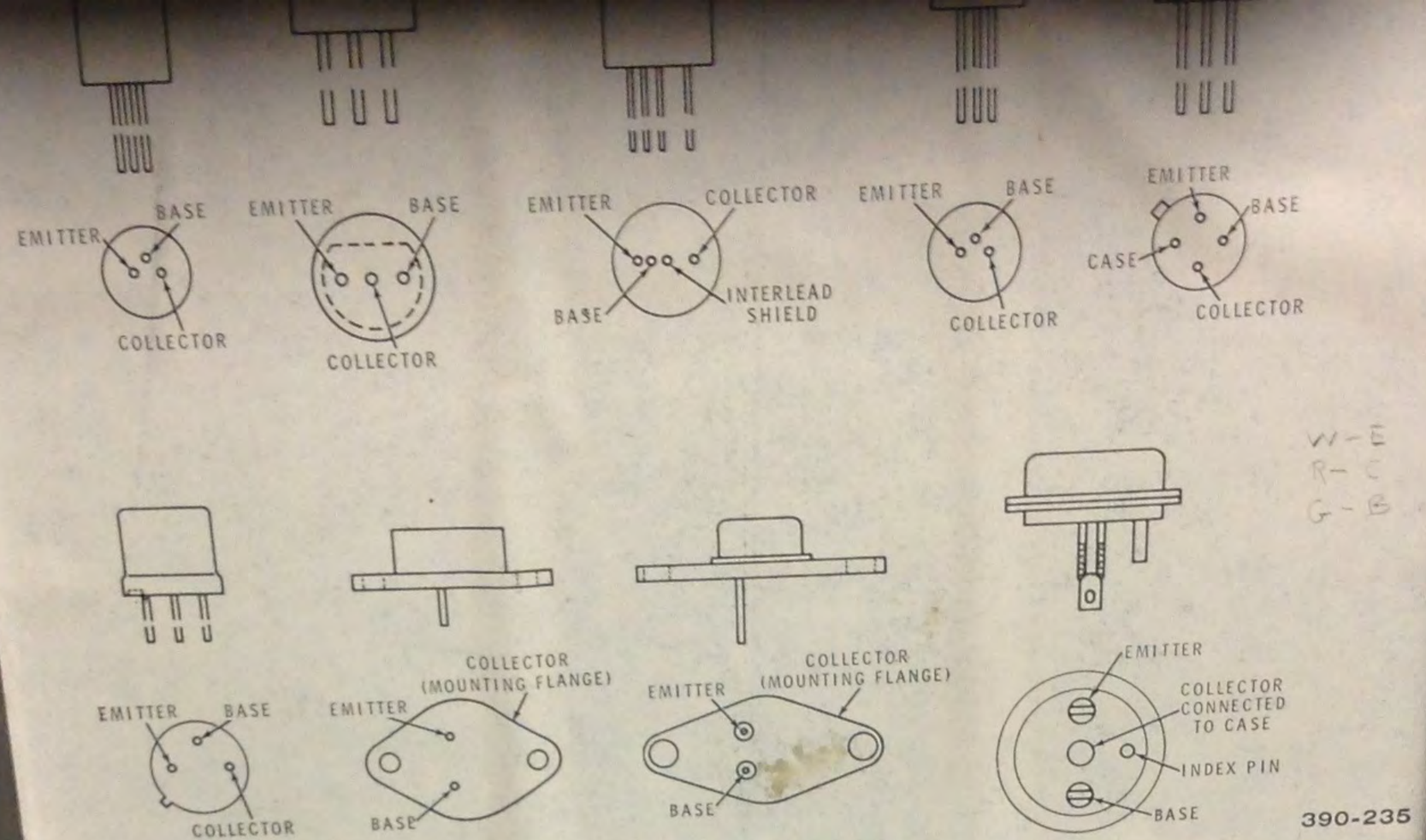

CONAR
12V
X100
30V
X1K
3V
X10
120V
X10K
AC
DC
OHMS
1.2V
X1
300V
X100K
ZERO
OHMS
NORM
REV
OFF
ON


OHMS
DC/AC
CONAR
INSTRUMENTS
Division of NATIONAL RADIO INSTITUTE Washington, D.C.
12V X100
30V X1K
120V X10K
3V X10
300V X100K
1.2V X1
1200V X1MEG
AC
DC
OHMS
ZERO
OHMS
NORM
REV.
OFF
ON

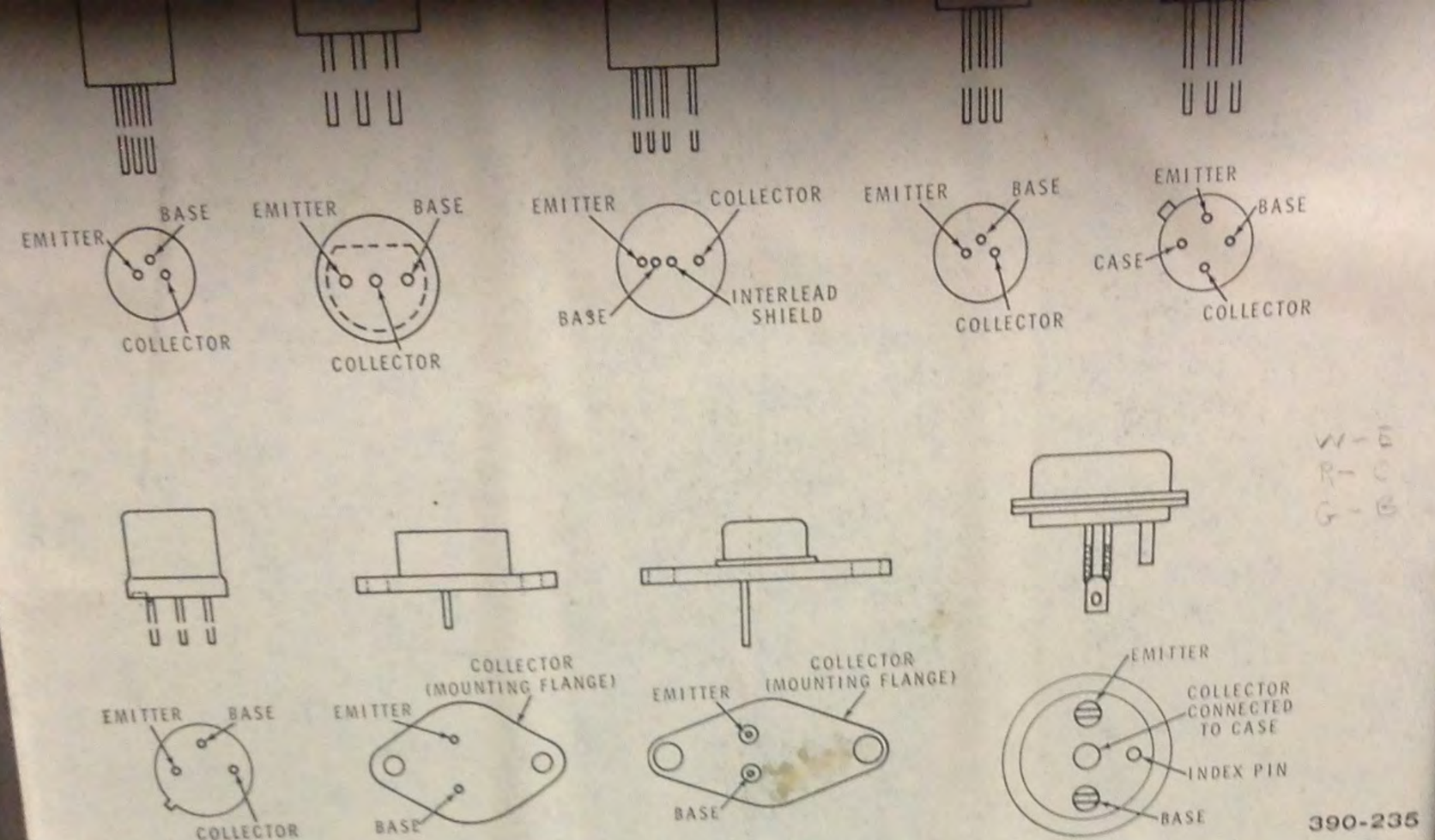

OHMS
DC/AC
DC
CONAR
INSTRUMENTS
Division of NATIONAL RADIO INSTITUTE Washington,D.C.
MODEL 212
12V
X100
30V
X1K
120V
X10K
3V
X10
300V
X100K
1.2V
X1
1200V
X1MEG
AC
DC
OHMS
ZERO
OHMS
NORM.
REV.
OFF
ON

OHMS
OHMS
DC
AC
P-P
3V AC
P-P
DIVISION OF
CONAR instruments
NATIONAL RADIO INSTITUTE
ZERO
OHMS
30V
120V
12V
3V
1200V
OFF
AC
DC
OHMS
Model 211


0 10 20 30
0 10 20 30


EMITTER
BASE
COLLECTOR
EMITTER
BASE
COLLECTOR
EMITTER
COLLECTOR
BASE
INTERLEAD SHIELD
EMITTER
BASE
COLLECTOR
EMITTER
BASE
CASE
COLLECTOR
W - E
R - C
G - B
EMITTER
BASE
COLLECTOR
COLLECTOR (MOUNTING FLANGE)
EMITTER
BASE
COLLECTOR (MOUNTING FLANGE)
EMITTER
BASE
EMITTER
COLLECTOR CONNECTED TO CASE
INDEX PIN
BASE
390-235


DC BETA
LEAKAGE MICROAMPS
CAL
HEATHKIT
TRANSISTOR TESTER
IN-CIRCUIT / OUT-OF-CIRCUIT
BETA CAL.
NPN
OFF
PNP
BETA
ICEO
ICBO
X1
BETA
X10
E WHT.
B GRN.
C RED
CAL.
TEST


EMITTER
BASE
COLLECTOR
EMITTER
BASE
COLLECTOR
EMITTER
COLLECTOR
BASE
INTERLEAD SHIELD
EMITTER
BASE
COLLECTOR
EMITTER
BASE
CASE
COLLECTOR
EMITTER
BASE
COLLECTOR
COLLECTOR (MOUNTING FLANGE)
EMITTER
BASE
EMITTER
COLLECTOR (MOUNTING FLANGE)
BASE
EMITTER
COLLECTOR CONNECTED TO CASE
INDEX PIN
BASE
390-235


DC BETA
LEAKAGE MICROAMPS
CAL
HEATHKIT
TRANSISTOR TESTER
IN-CIRCUIT / OUT-OF-CIRCUIT
NPN
OFF
PNP
BETA
ICEO
ICBO
X1
BETA
X10
E WHT.
B GRN.
C RED
CAL.
TEST


YASHICA
ELECTRO 8
LD-6
INSTRUCTION BOOKLET
GEBRAUCHSANWEISUNG
MODE D'EMPLOI
FOLLETO DE INSTRUCCIONES
YASHICA
ELECTRO 8
LD-6


SONY
VER
VOL
HOR
BRT
PIX

Jewell Electrical Instrument Company

CHICAGO - ILLINOIS

Made in U. S. A.

DIRECT CURRENT
FILAMENT
VOLTS

DIRECT CURRENT
FILAMENT
AMPERES

DIRECT CURRENT
NEGATIVE
GRID
VOLTS
POSITIVE

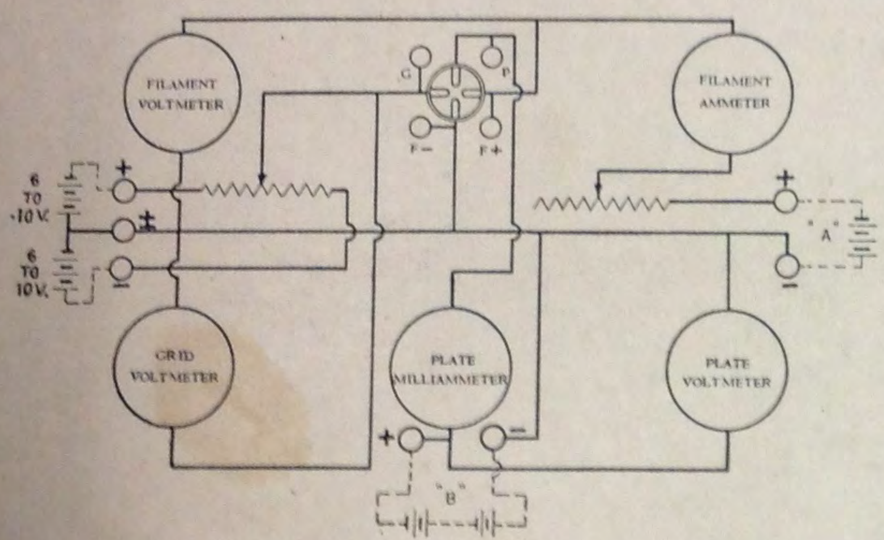
DIRECT CURRENT
PLATE
MILLIAMPERES

DIRECT CURRENT
40
80
PLATE
VOLTS

JEWELL RADIO TEST SET

PATTERN No. 95

SERIAL No. 416499



The many tests possible with this instrument, such as the taking of vacuum tube characteristics and characteristic curves, resistance measurements of receivers, transformers, grid leaks and the like, as well as battery voltage tests, are fully described in the instruction leaflet. A pad of cross-section paper for plotting the characteristic curves of vacuum tubes is enclosed with this instrument.

The diagram shows the internal connections. To take "A" battery voltage only, connect to the two right hand posts, and the full voltage will be indicated on the filament voltmeter. To test a "B" battery, connect to the two bottom posts and the voltage will be shown on the plate voltmeter.

This instrument is guaranteed to be free from defects in workmanship and material for a period of one year from date of sale.

Each of the instruments is further guaranteed to be correct within 2% of full scale deflection at 25° Centigrade.

Tested Oct. 4, 1924 By [illegible] Approved John H. Miller
In Charge of Standardization.

Jewell Electrical Instrument Company

CHICAGO - ILLINOIS

Made in U. S. A.

Form No. 813


MARINE RADIONAVIGATION
AIRCRAFT RADIONAVIGATION
STANDARD BROADCAST
MARINE
AMATEUR
WWV
INTER. B.C.
AMATEUR
INTER. B.C.
WWV
INTER. B.C.
AMATEUR
INTER. B.C.
AMATEUR
C.B.
BAND SPREAD
ANTENNA
BAND SELECTOR
VOLUME
SENSITIVITY
TUNE
POWER
OFF ON
AVC
OFF ON
ANL
OFF ON
PHONE
Star Roamer
ALLIED RADIO CORPORATION • CHICAGO

SHORT INDICATOR

NOISE TEST

MICROAMPS +60 +300

AC A DC

6000V.AC 6000V.DC 1200V. EXT. TEST

BATTERY TEST

LINE ADJUSTMENT

OFF A FILAMENT CONTINUITY

B C D E F G H I

READ METER TUBE MERIT

SUPER-SENSITIVE TESTER – 20,000 OHMS PER VOLT D.C.

TUBE	SECTION	A	B	C	D	E	F	DEPRESS
6SQ7	diode-2	7			35	15		
	triode-2	3			30			

TUBE	SECTION	A	B	C	D	E	F	DEPRESS

SERIES 954 ELECTRONAMIC TUBE AND SET TESTER

PRECISION APPARATUS COMPANY, BROOKLYN, N.Y., U.S.A.

SUPER SENSITIVE TESTER — 20,000 OHMS PER VOLT D.C.

SERIES 954 ELECTRONAMIC TUBE AND SET TESTER


FRAME
270


VOLUME
Z E N I T H
20
105
90
80


VOLUME
Z E N I T H
20
105
90
80


OHMS
RX10K
RX1K
RX100
RX1
OHMS
ADJ
120
30
DC V
6000
3000
1200
600
60
DC mA
V-Ω-A
+


OHMS
Lafayette
OHMS
RX1K
RX100
RX10K
RX1
OHMS
600
50UA
120
30
DCA
6000
3000
1200
600
COM
V-Ω-A

CONAR
instruments
DIVISION OF NATIONAL RADIO INSTITUTE

NULL
INDICATOR

EXTENDED RANGE
RESISTANCE
1
1.5
2
2.5
3
3.5
4
5
6
8
10
15
20
30
40
50
60
80
100
150
200
500
1000
1.8
EXTENDED RANGE
1.8M-
150M
18-
1500
MFD.
CAPACITY
.1-
50 MFD
.001-
.5 MFD
.00001-
.005
MFD
PAPER
MICA
DISCHARGE
ELEC.
LEAKAGE
1-
500
100-
50K
10K-
5M
SELECTOR

R. C. TESTER
MODEL 311

200
100
300
0
400
OFF
LEAKAGE TEST VOLTAGE

30
40
20
50
10
0
%
POWER FACTOR

CONAR
instruments
DIVISION OF NATIONAL RADIO INSTITUTE

NULL
INDICATOR

EXTENDED RANGE
3.0
3.5
4.0
5.0
6.0
2.5
2.0
1.8
10
15
20
30
40
50
60
80
100
150
200
500
RESISTANCE

CAPACITY
EXTENDED RANGE
1.8M-
150M
18-
1500
MFD.
0.1-
50 MFD
.001-
.5 MFD
.00001-
.005
MFD
PAPER
MICA
DISCHARGE
ELEC.
1-
500
100-
50K
10K-
5M
LEAKAGE
SELECTOR

R. C. TESTER
MODEL 311

200
100
300
0
400
LEAKAGE TEST VOLTAGE

30
40
20
50
10
0
%
POWER FACTOR

REPLACE ? GOOD

USE THIS AMP FOR PICTURE TUBES ONLY

ADJUST LINE

CONAR
instruments
DIVISION OF NATIONAL RADIO INSTITUTE

ADJUST LINE

FIL.-CONT SHORTS AND LEAKAGE

PRESS TO READ METER

OFF

A

B

C

D

TUBE	A	B	C	D	CATH. SHORTS	TEST
6BY6	s 3	8	3	16	2	1-6
	s 3	8	3	16		1-5-6-7
6BY7	2	8	4	14	1-3	2-7-8
6BY7—Must show short on 1-3—Cathode short test—Throw 1-3 together						
6BY8	pe 3	8	4	16	9	1-2-7-8

TUBE	A	B	C	D	CATH. SHORTS	TEST
6DZ4—Cont. Test—1-7 & 2-6						
6DY7	pe 2	8	2	16	8	5-6
	pe 2	8	2	16		1-3
6DX8	t 2	8	4	14	3	1-2
	pe 2	8	4	14	7	6-8-9
6DW5	2	8	4	14	7	1-3-6-9

TUBE	A	B	C	D	CATH. SHORTS	TEST
33GT7—Cont. Test—9-11						
33GY7	d1 4	12	7	12	4	2
	pe 3	12	7	14	8	5-9-10-11
33GY7—Cont. Test—9-10						
33JV6	pe 3	14	12	14	2	3-4-7-10-11

CONAR instruments MODEL 223 TUBE TESTER

1 2 3 4 5 6 7 8 9 10 11 12

TEST

NORMAL

DIVISION OF NRI, WASHINGTON, D. C.

REPLACE ? GOOD

USE THIS ARC FOR PICTURE TUBES ONLY

ADJUST LINE

CONAR
Instruments
DIVISION OF NATIONAL RADIO INSTITUTE

ADJUST LINE

FIL -CONT SHORTS AND LEAKAGE

PRESS TO READ METER

OFF

A

TUBE	A	B	C	D	CATH. SHORTS	TEST
6BY6	s	3	8	3	16	2	1-6
	s	3	8	3	16		1-5-6-7
6BY7		2	8	4	14	1-3	2-7-8
6BY7—Must show short on 1-3—Cathode short test—Throw 1-3 together							
6BY8	pe	3	8	4	16	9	1-2-7-8

TUBE	A	B	C	D	CATH. SHORTS	TEST
6DZ4—Cont. Test—1-7 & 2-6						
6DY7	pe	2	8	2	16	8	5-6
	pe	2	8	2	16		1-3
6DX8	t	2	8	4	14	3	1-2
	pe	2	8	4	14	7	6-8-9
6DW5		2	8	4	14	7	1-3-6-9

TUBE	A	B	C	D	CATH. SHORTS	TEST
	pe	3	12	7	12	14	8	9-11-10-5
33GT7—Cont. Test—9-11								
33GY7	d1	4	12	7	12	4		2
	pe	3	12	7	14	8		5-9-10-11
33GY7—Cont. Test—9-10								
33JV6	pe	3	14	12	14	2		3-4-7-10-11

CONAR instruments MODEL 223 TUBE TESTER

B

C

C

D

TEST

TEST

NORMAL

DIVISION OF NRI, WASHINGTON, D. C.


1200 1000 900 700 650
Pilot


1200 1000 800 700 650
100
70


ATWATER KENT
RADIO

ATWATER KENT
RADIO


REWIND
POSITION
BELL & HOWELL
COMPATIBLE
AUTOLOAD
OFF
MOTOR
LAMP
SUPER 8
8 MM
Bell & Howell
COMPATIBLE
AUTOLOAD


REWIND
POSITION
BELL & HOWELL
COMPATIBLE
AUTOLOAD
OFF
MOTOR
LAMP
SUPER 8
8 MM
Bell & Howell
COMPATIBLE
AUTOLOAD


B
SPECIAL
POLICE
2.3
2.5
AIRCRAFT
3.0
3.5
4.0
5.0
A
55
60
70
80
C
9.3
9.5
10

B
SPECIAL
POLICE
2.3
2.5
AIRCRAFT
3.0
3.5
4.0
5.0
A
STANDARD
55
60
70
80
100
C
ORT WAVE
9.3
31M
9.5
10
11
RCA