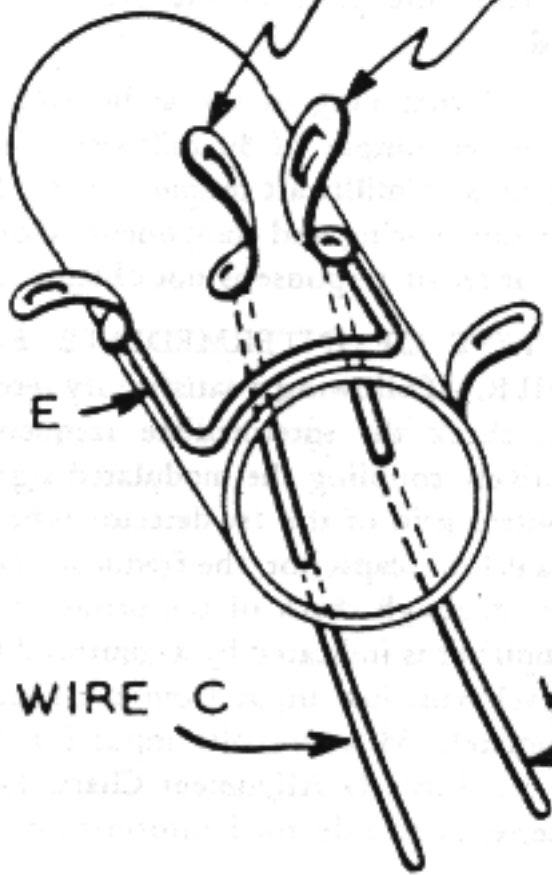


LUG A LUG B

WIRE E

WIRE C

WIRE D



VOLTAGES AT SOCKETS

UNLESS OTHERWISE INDICATED, THE VOLTAGE SHOWN IS BETWEEN SOCKET TERMINAL & GROUND.

THESE VOLTAGES ARE READ UNDER THE FOLLOWING CONDITIONS:

INPUT-28 VOLTS D.C.

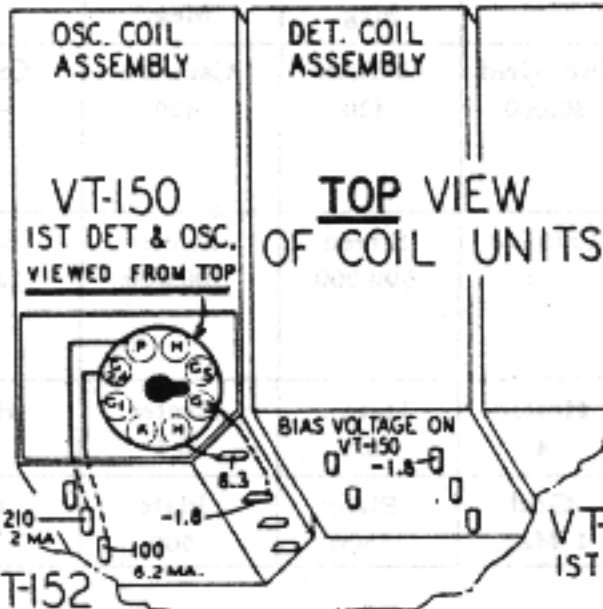
C.W. OSCILLATOR-OFF.

A.V.C.-OFF-M.V.C. SWITCH IN M.V.C. POSITION.

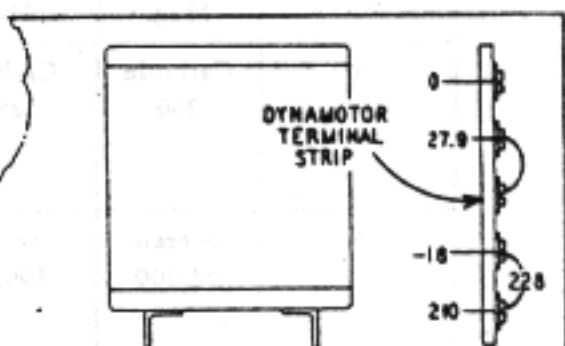
VOLUME CONTROL MAXIMUM.

READINGS TAKEN WITH 1000 OHM PER VOLT METER.

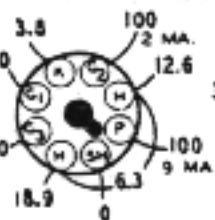
PLATE & SCREEN VOLTAGES ARE READ ON 500 VOLT SCALE.



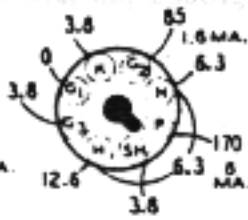
TOP VIEW OF COIL UNITS



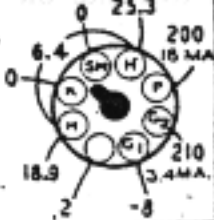
VT-117
1ST R.F.



VT-117
2ND R.F.



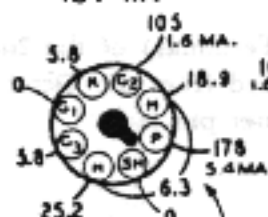
VT-152
AUDIO



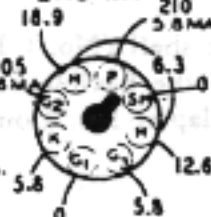
BOTTOM VIEW OF CHASSIS

NOTE "A" BIAS VOLTAGE IS-2.5 AS READ BETWEEN TERMINALS 3 & 4

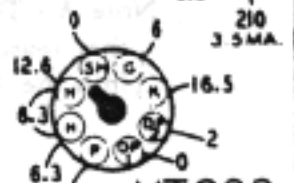
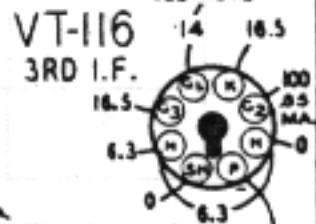
VT-117
1ST I.F.



VT-117
2ND I.F.



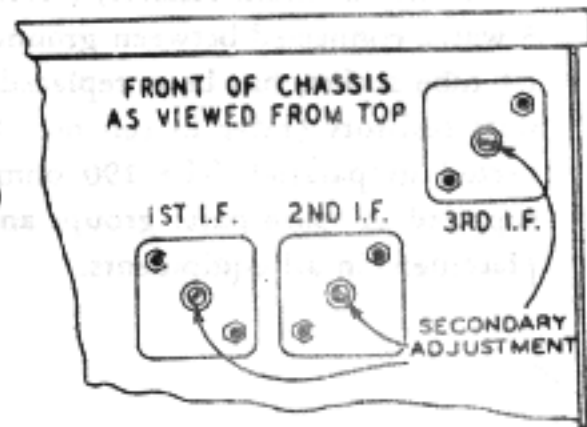
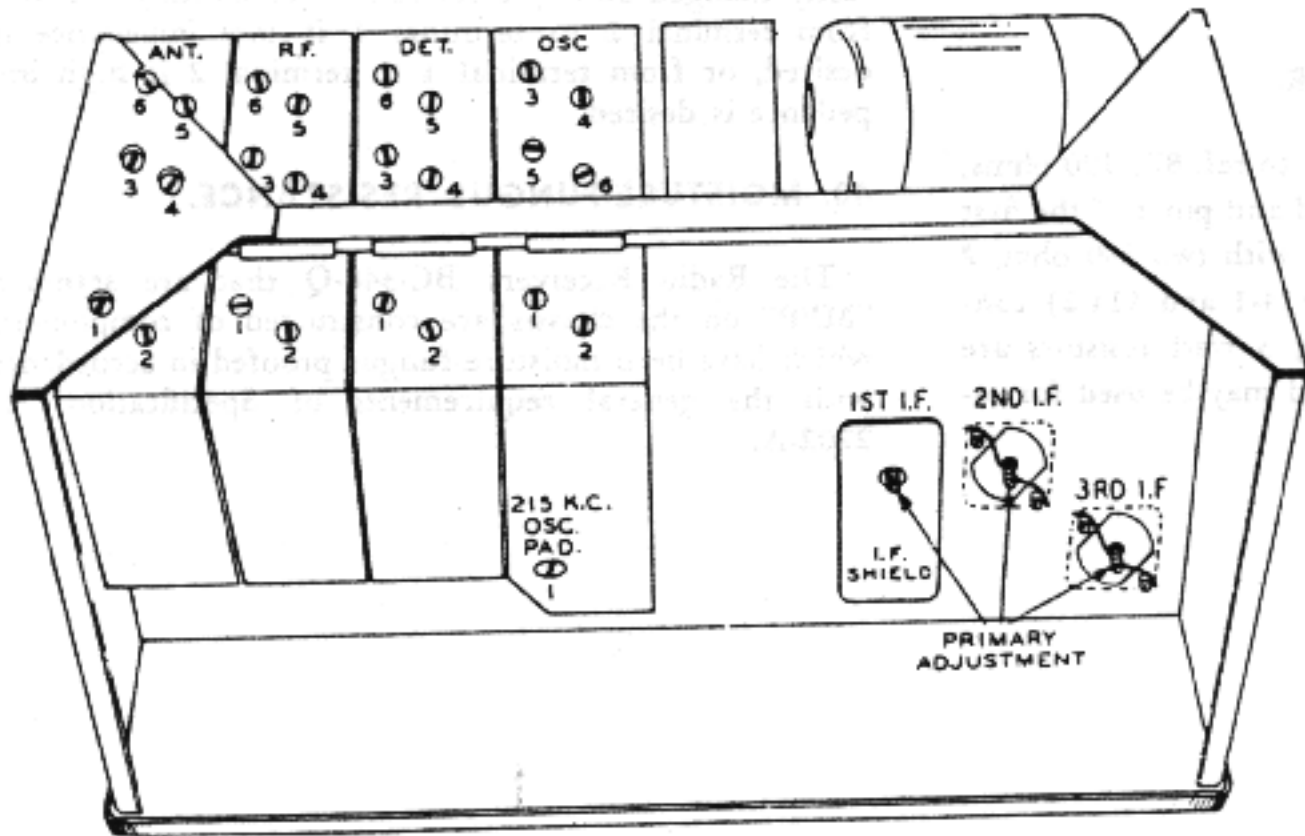
VT-116
3RD I.F.

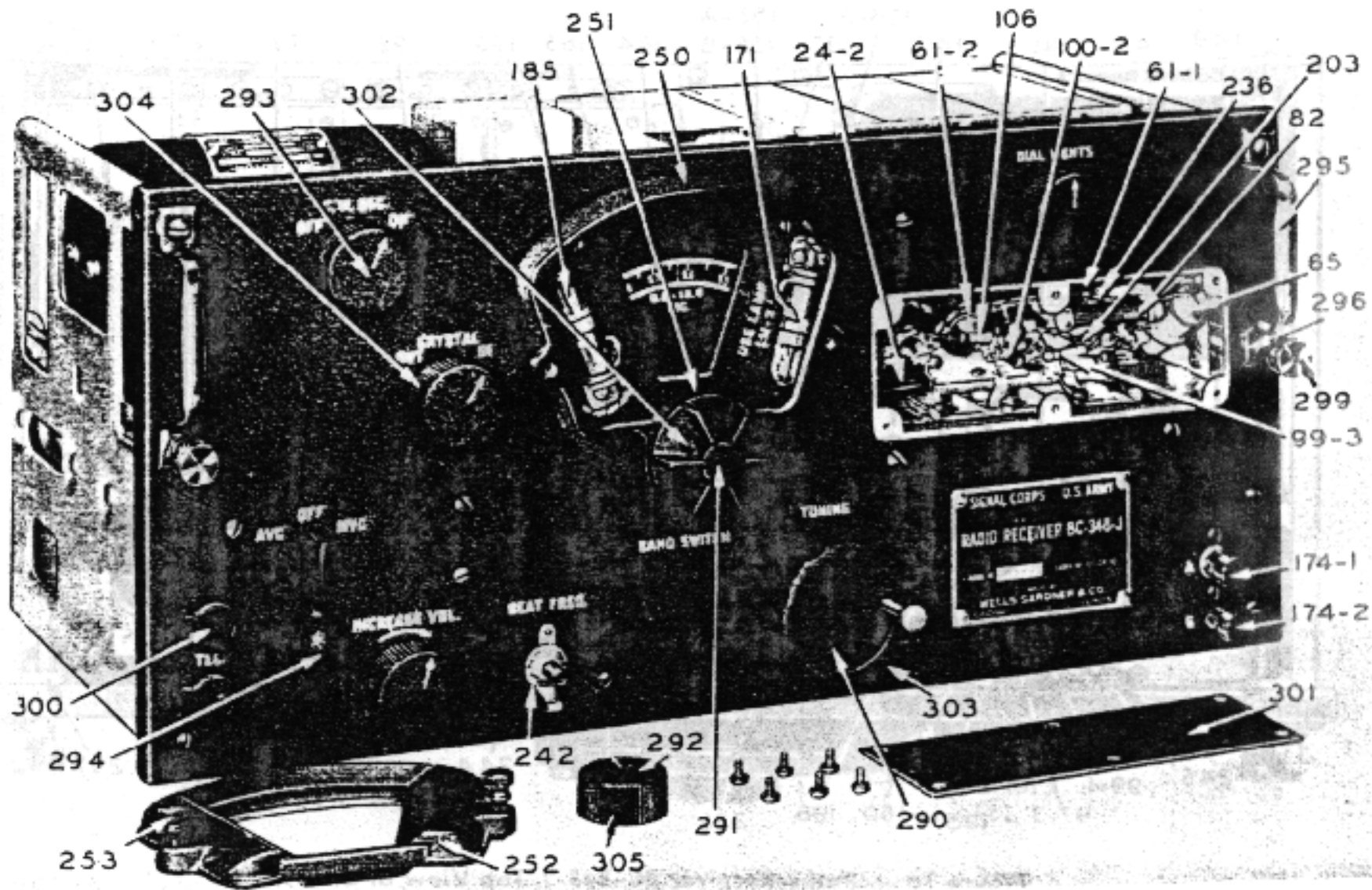


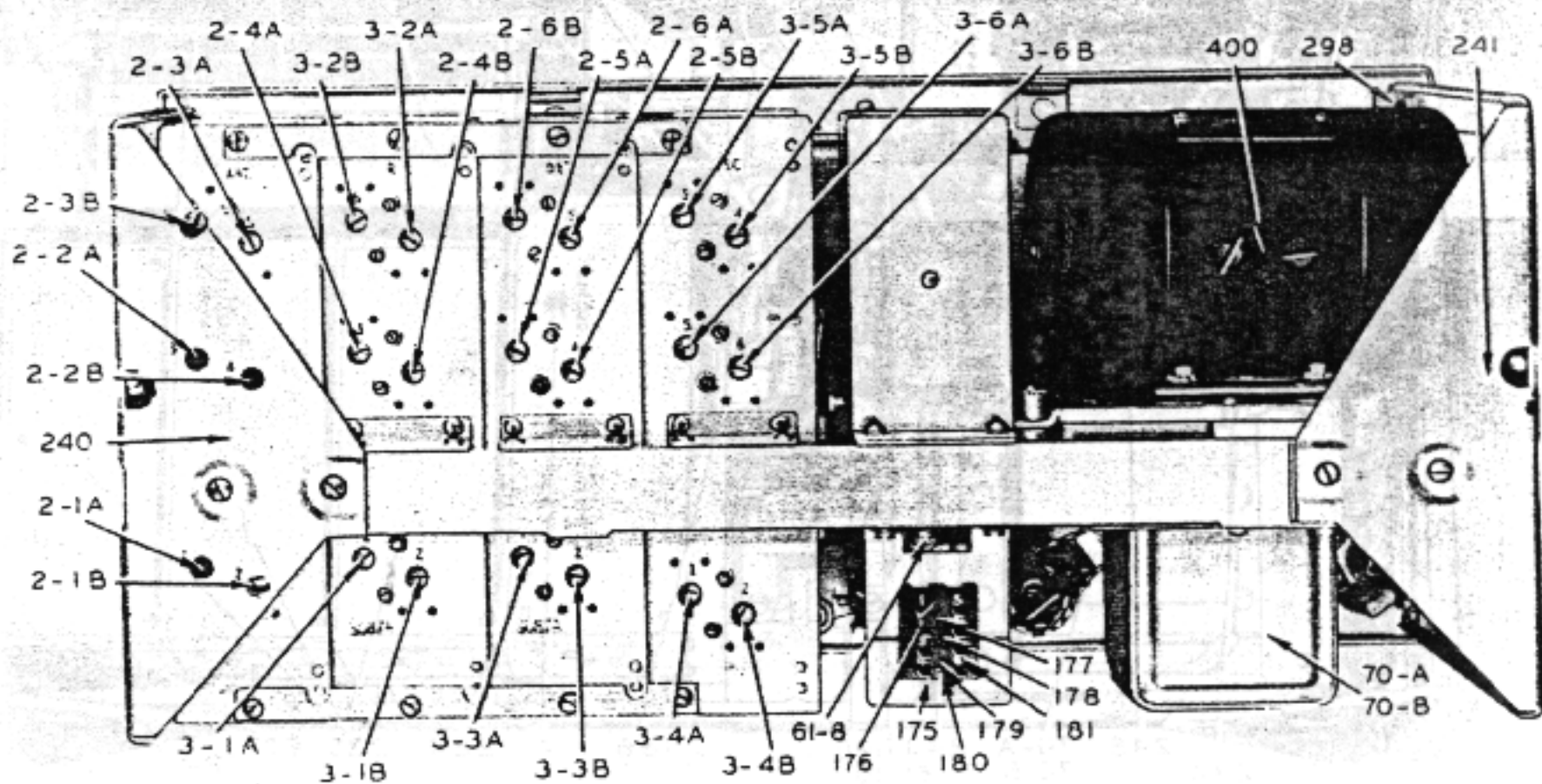
VT-233

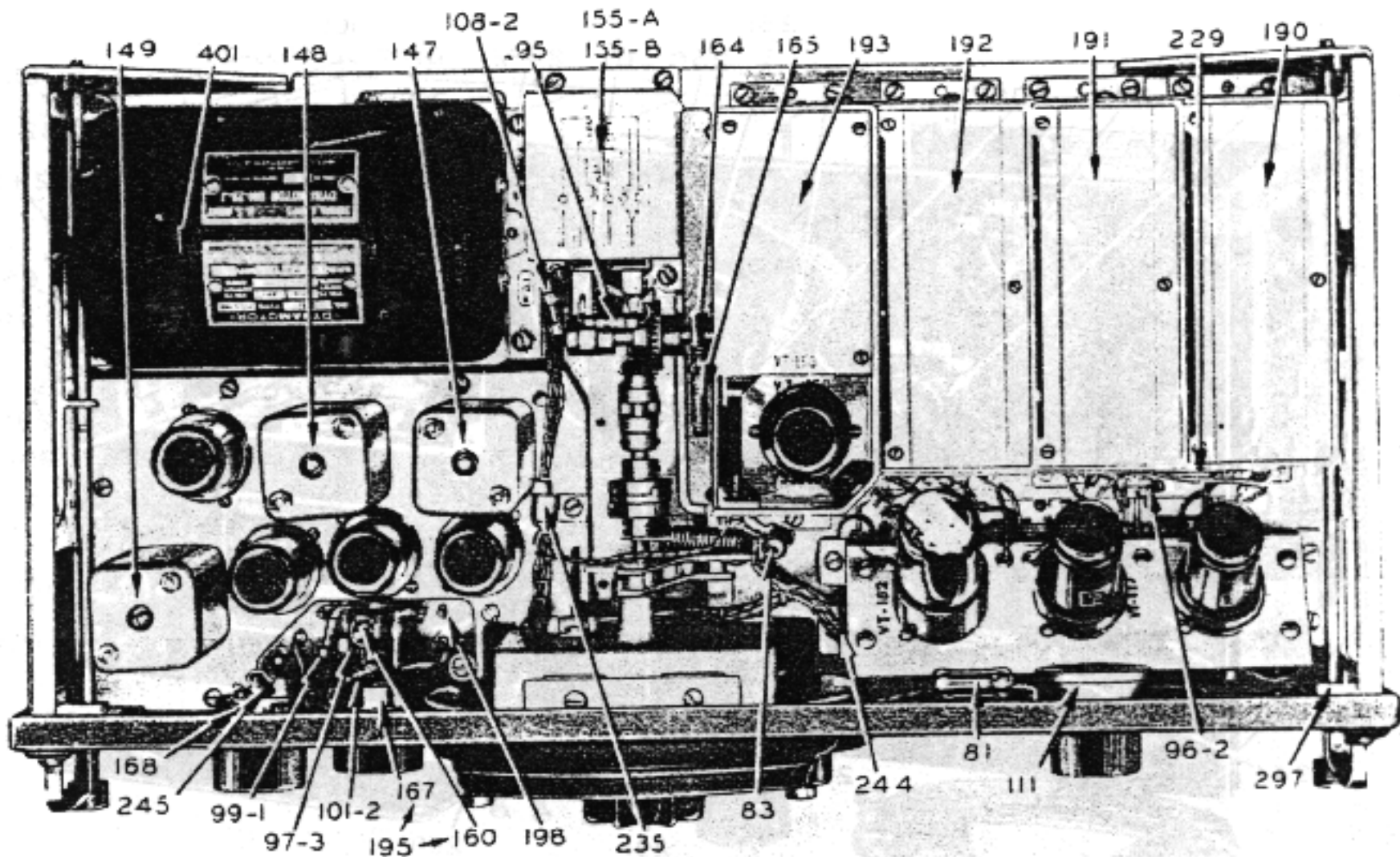
.95 MA. 2ND DET. & C.W. OSC.
(C.W. OSC. ON)

REMOVE PLATE TO REACH SOCKET TERMINALS.

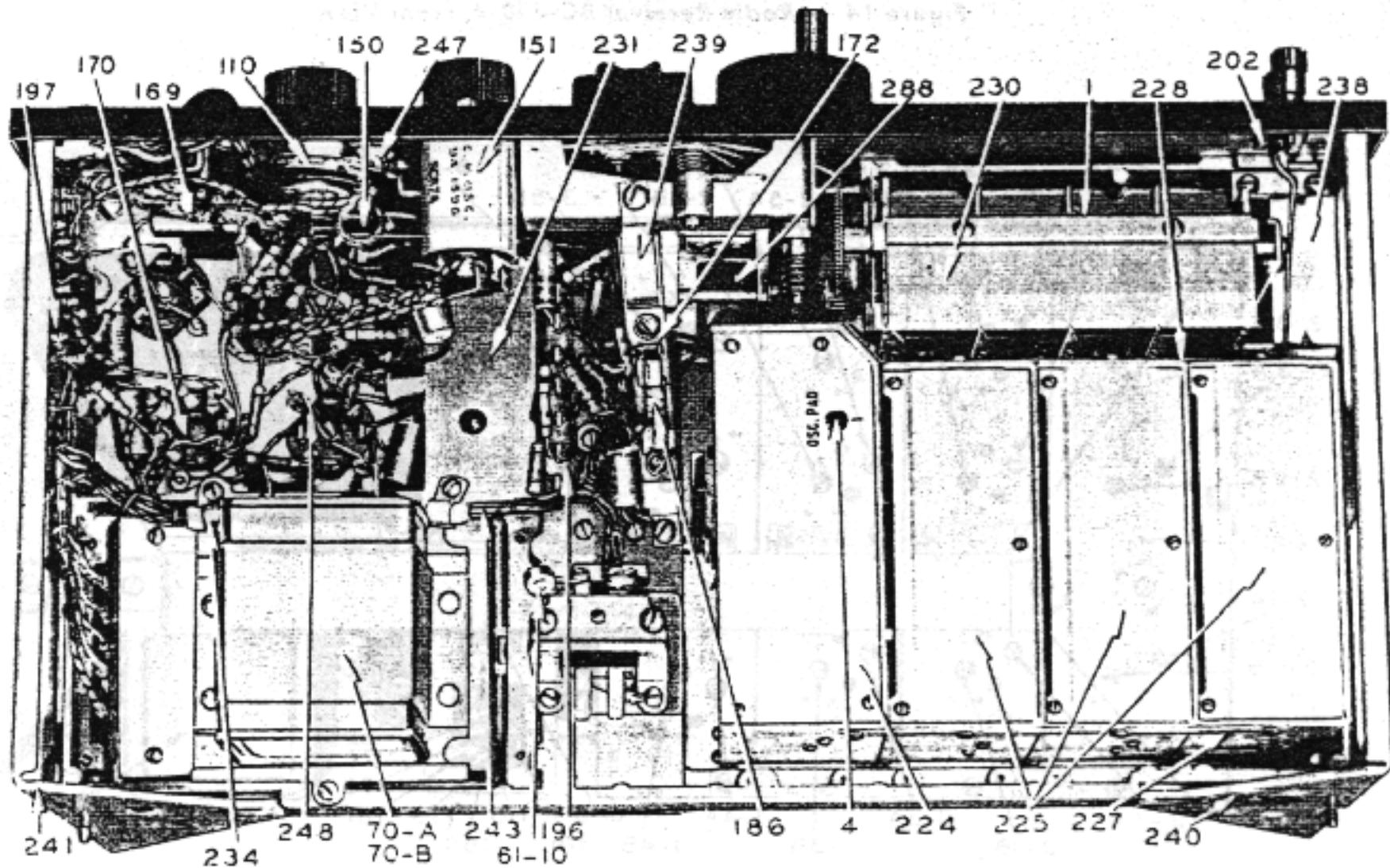


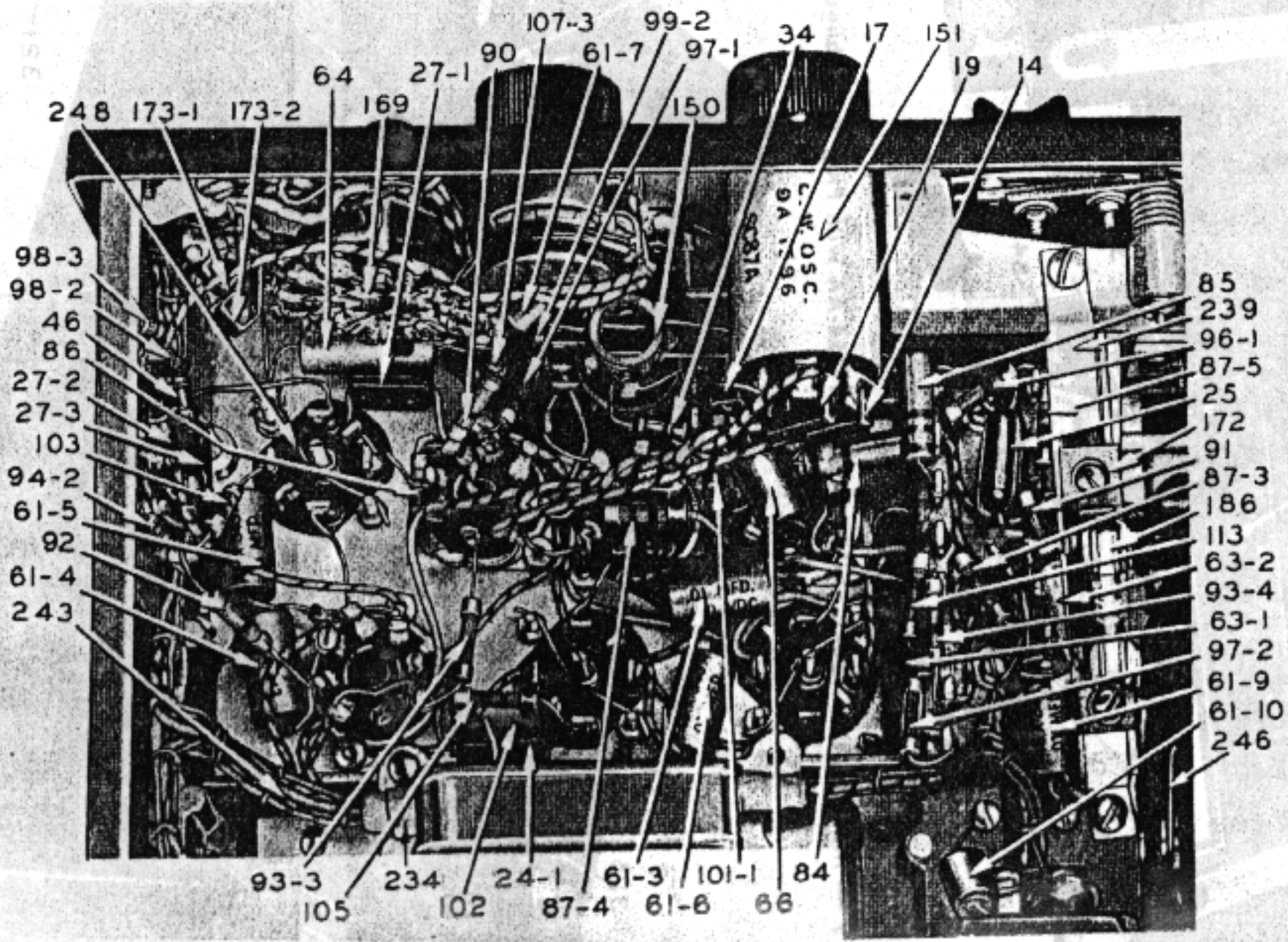


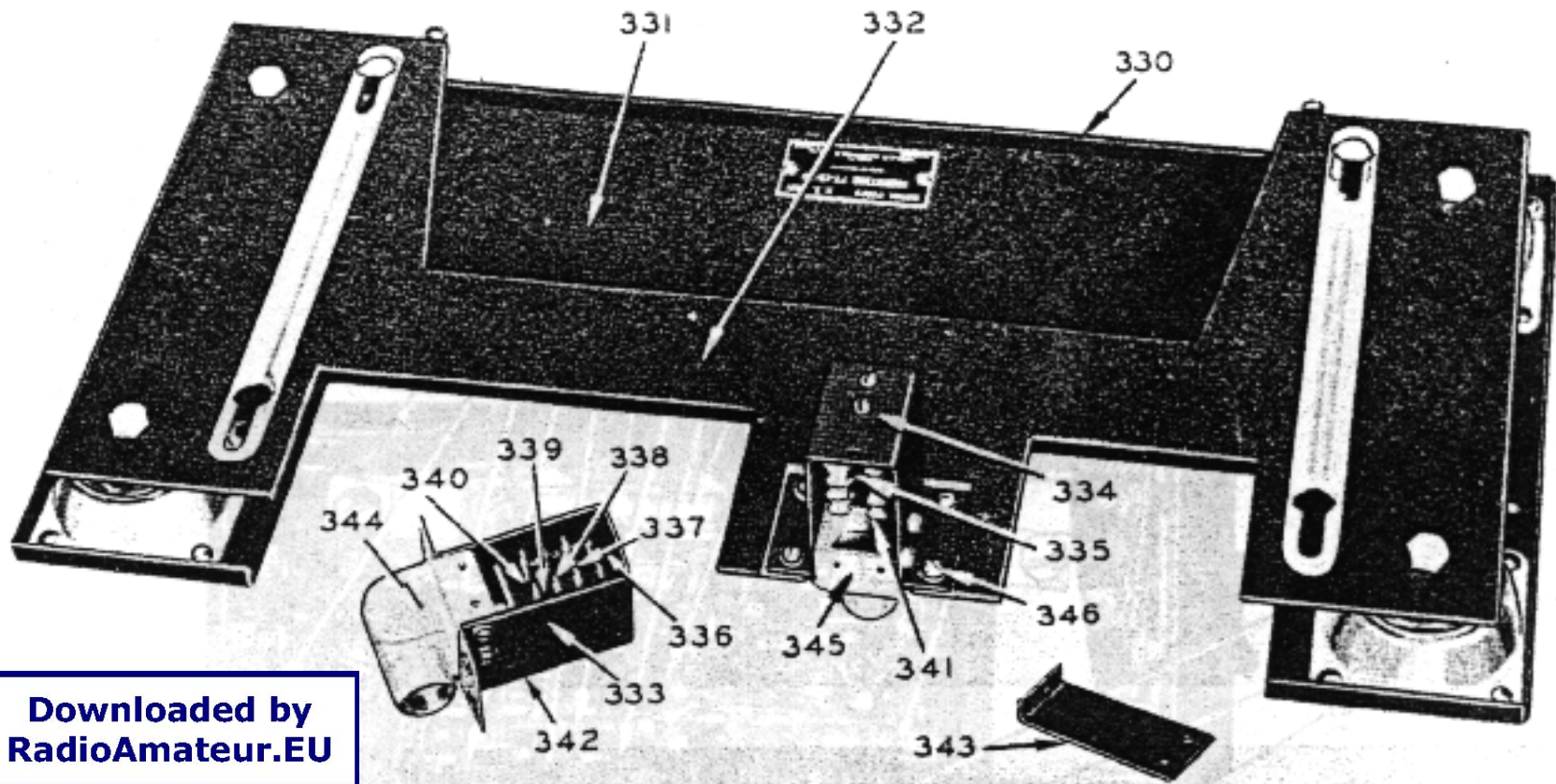


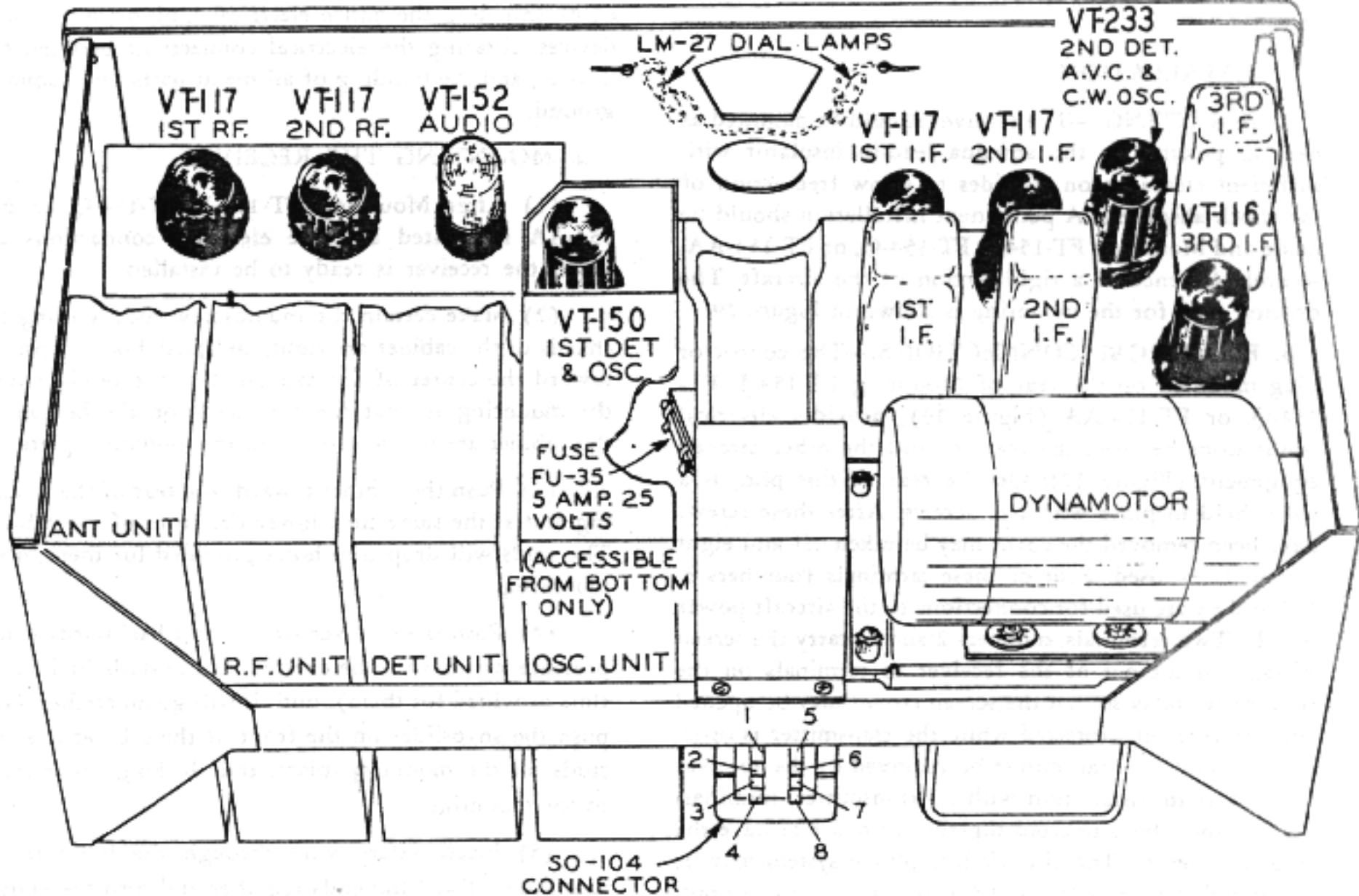


Approved for Release by NSA on 05-08-2014 pursuant to E.O. 13526









VF117 1ST RF. VF117 2ND RF. VF152 AUDIO

LM-27 DIAL LAMPS

VF233
2ND DET.
A.V.C. &
C.W. OSC.

VF117 1ST I.F. VF117 2ND I.F.

3RD I.F.
VF16
3RD I.F.

VF150
1ST DET
& OSC

1ST I.F.

2ND I.F.

FUSE
FU-35
5 AMP. 25
VOLTS

(ACCESSIBLE
FROM BOTTOM
ONLY)

DYNAMOTOR

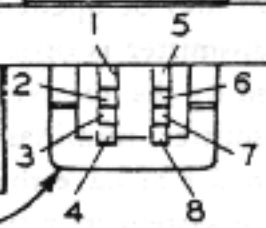
ANT UNIT

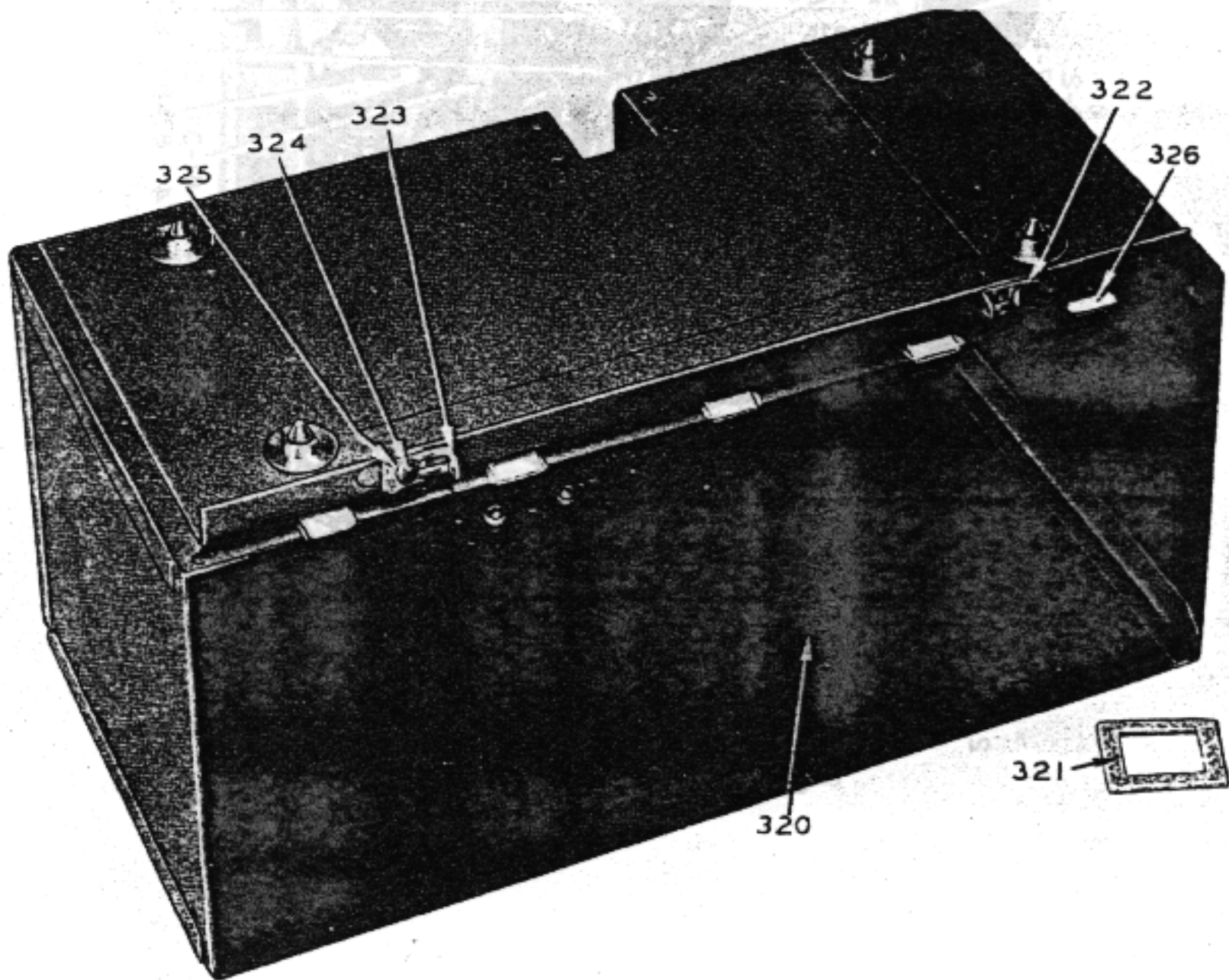
R.F. UNIT

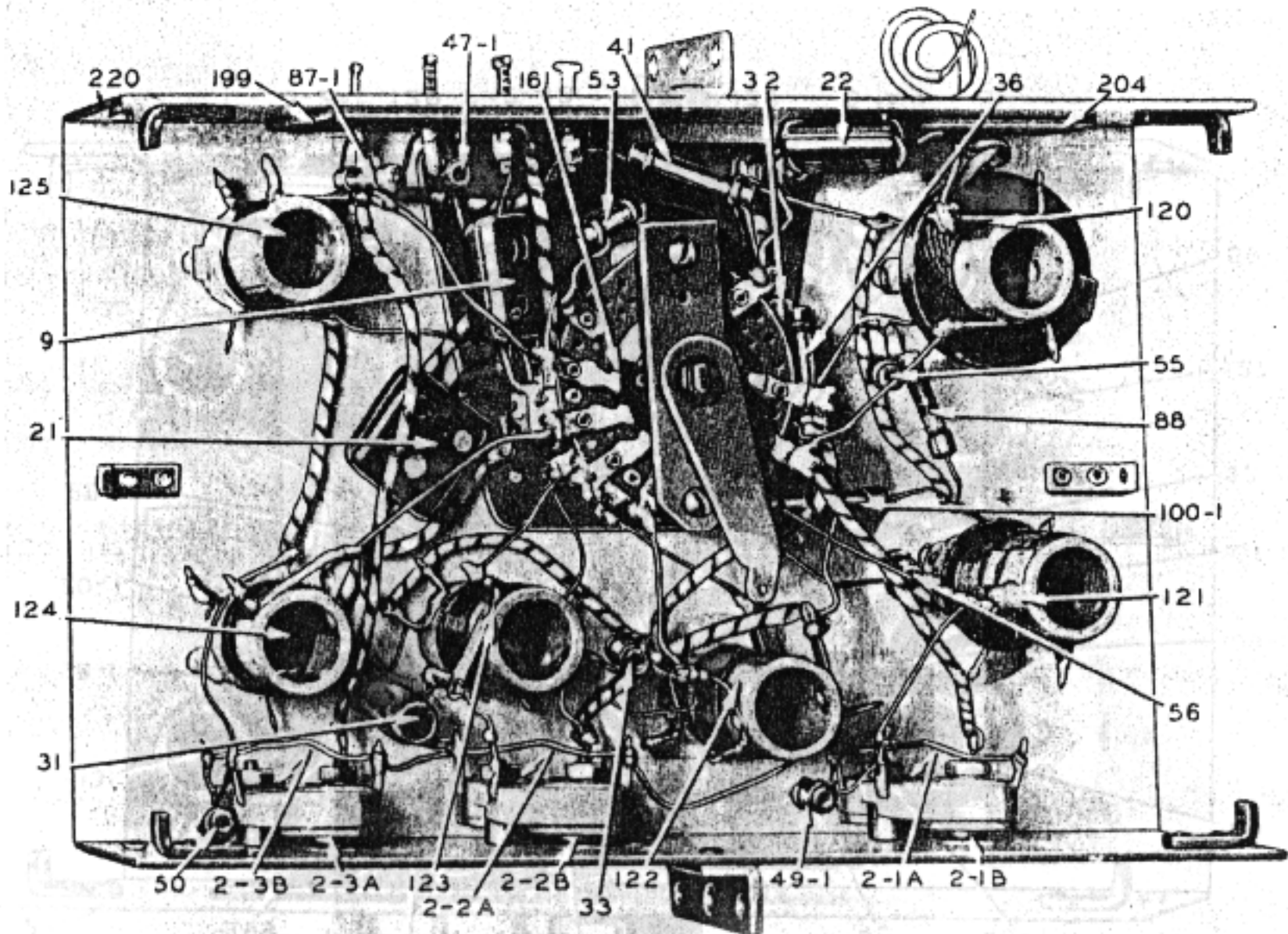
DET UNIT

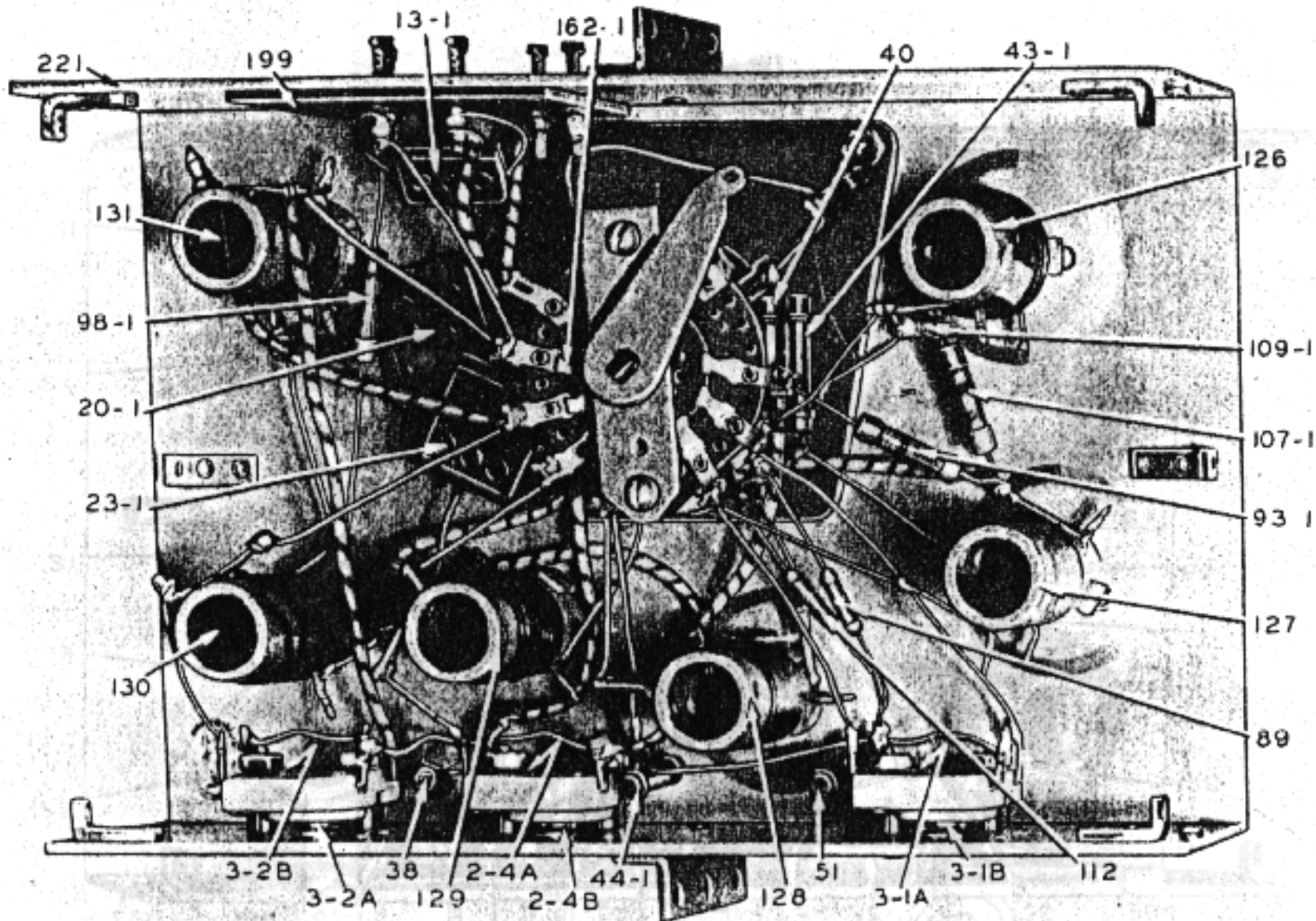
OSC. UNIT

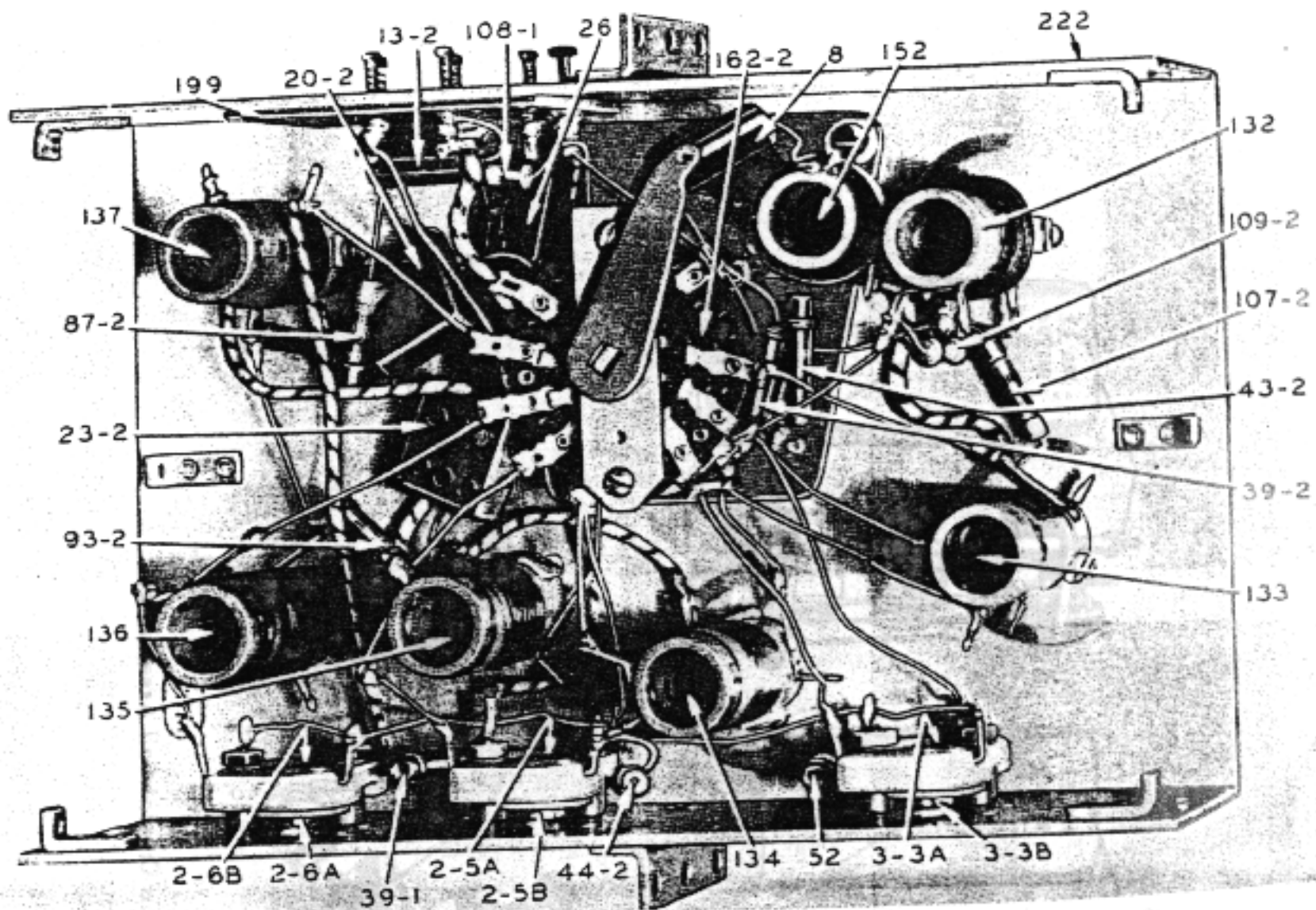
50-104
CONNECTOR

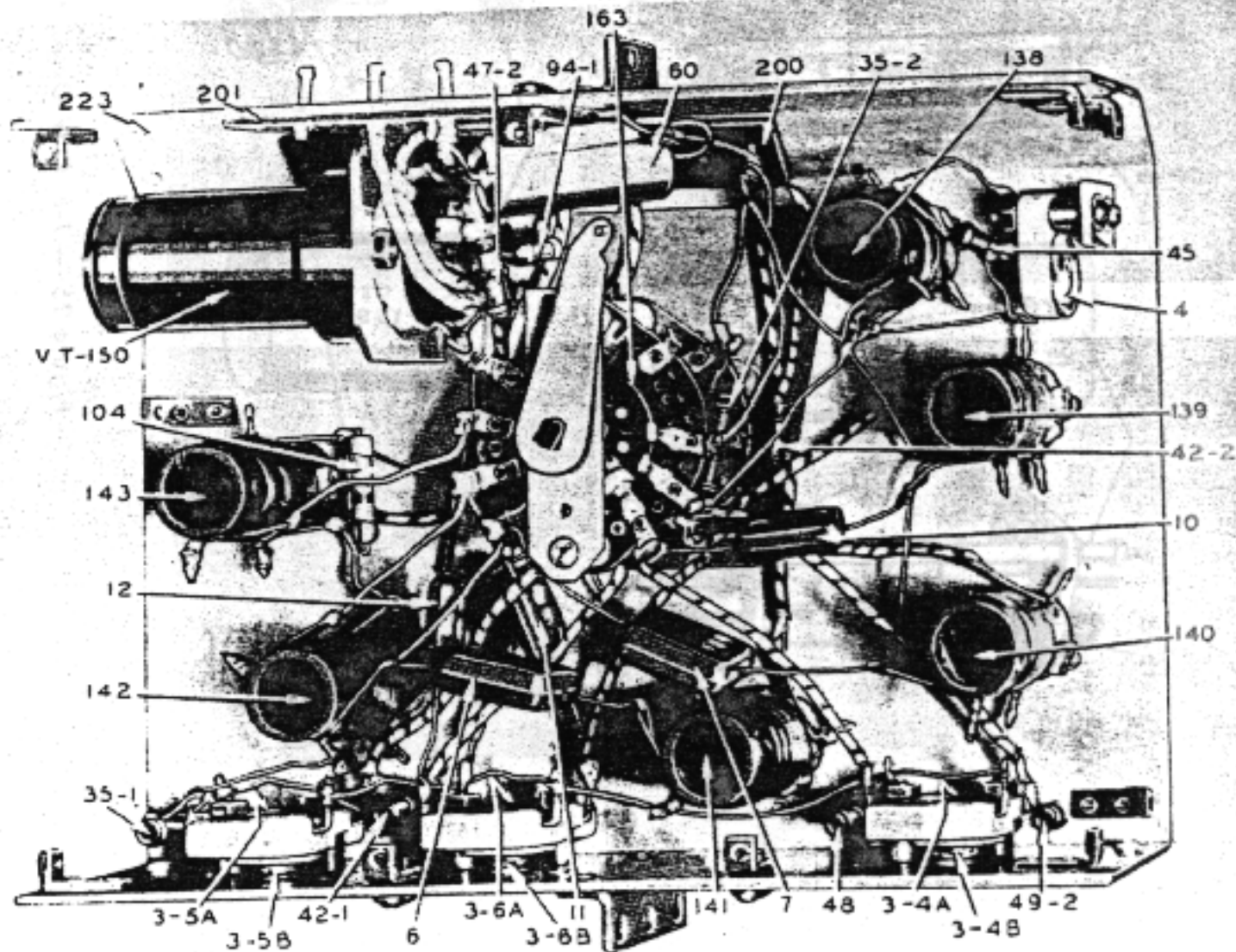




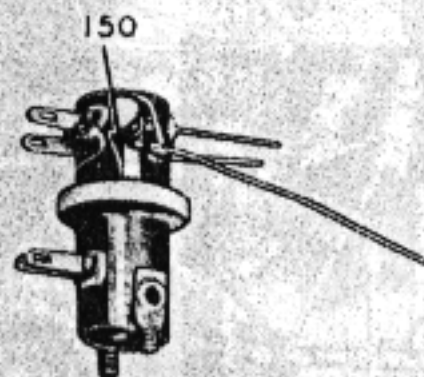
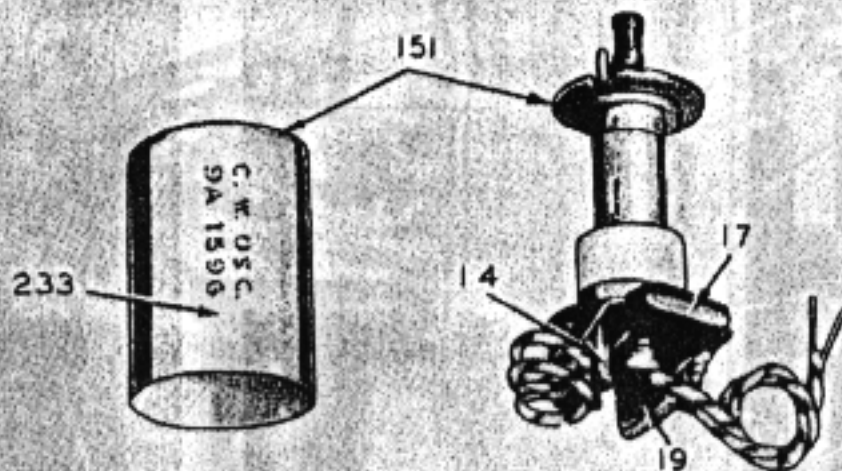
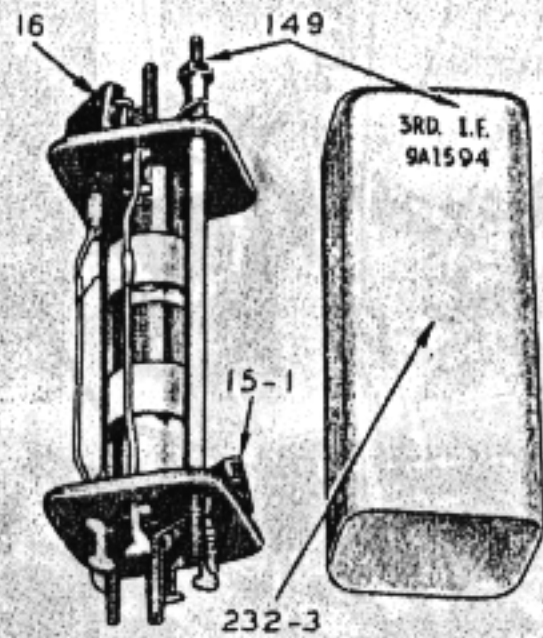
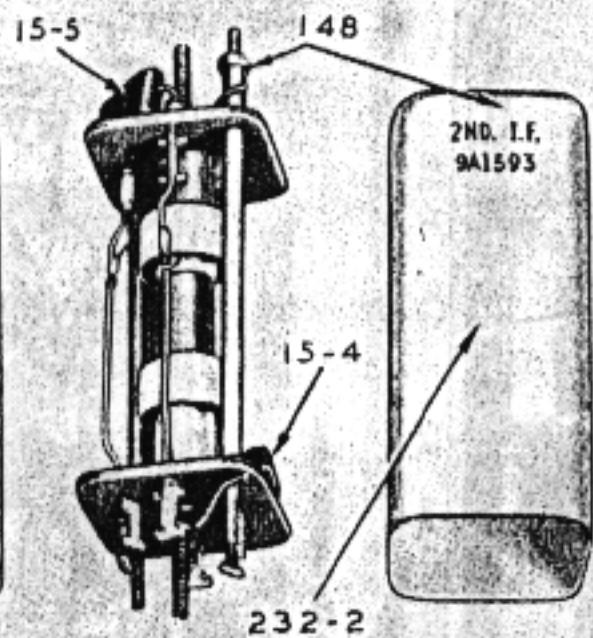
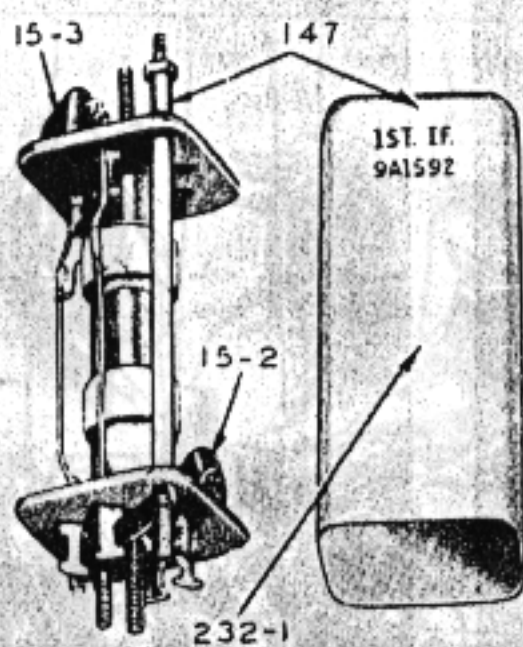


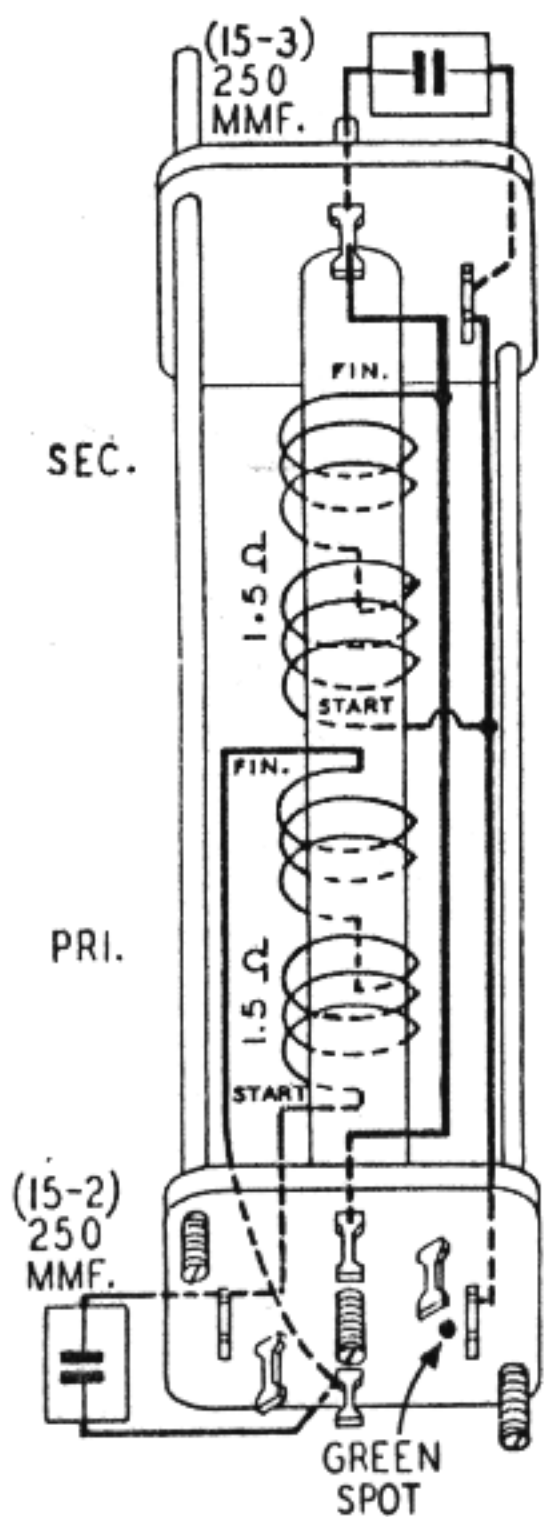




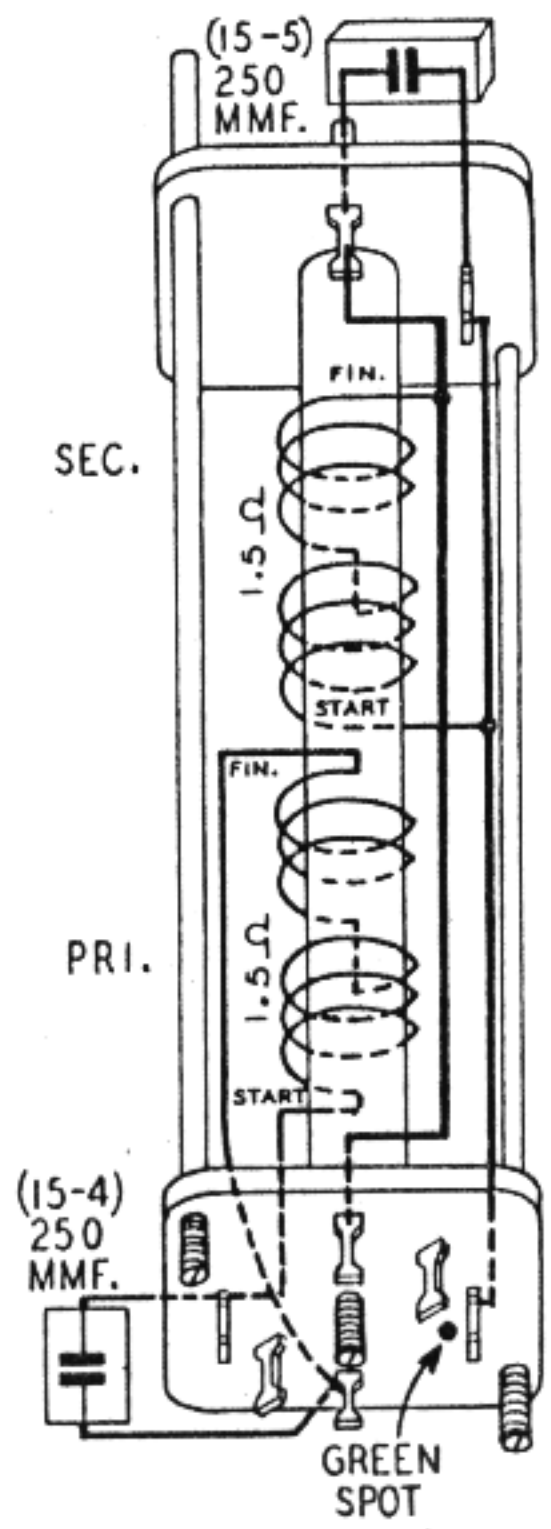


The 750 ohm resistor (refer to ref. No. 104) is not used in Radio Receiver BC-348-Q.

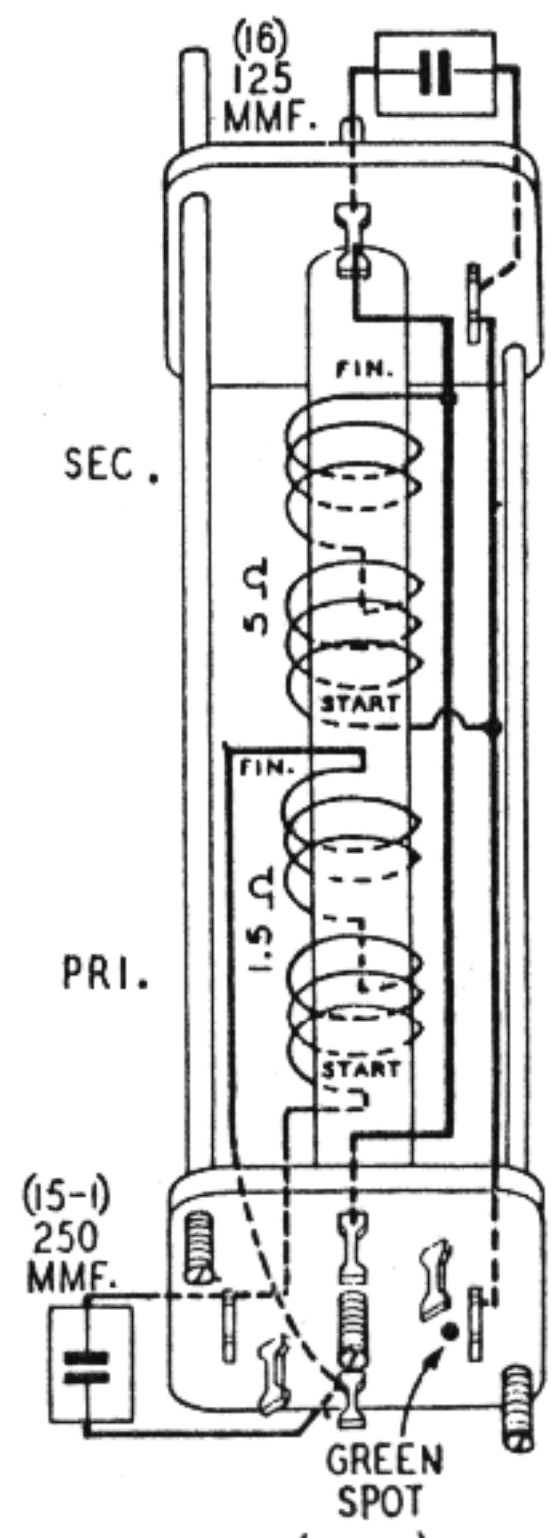




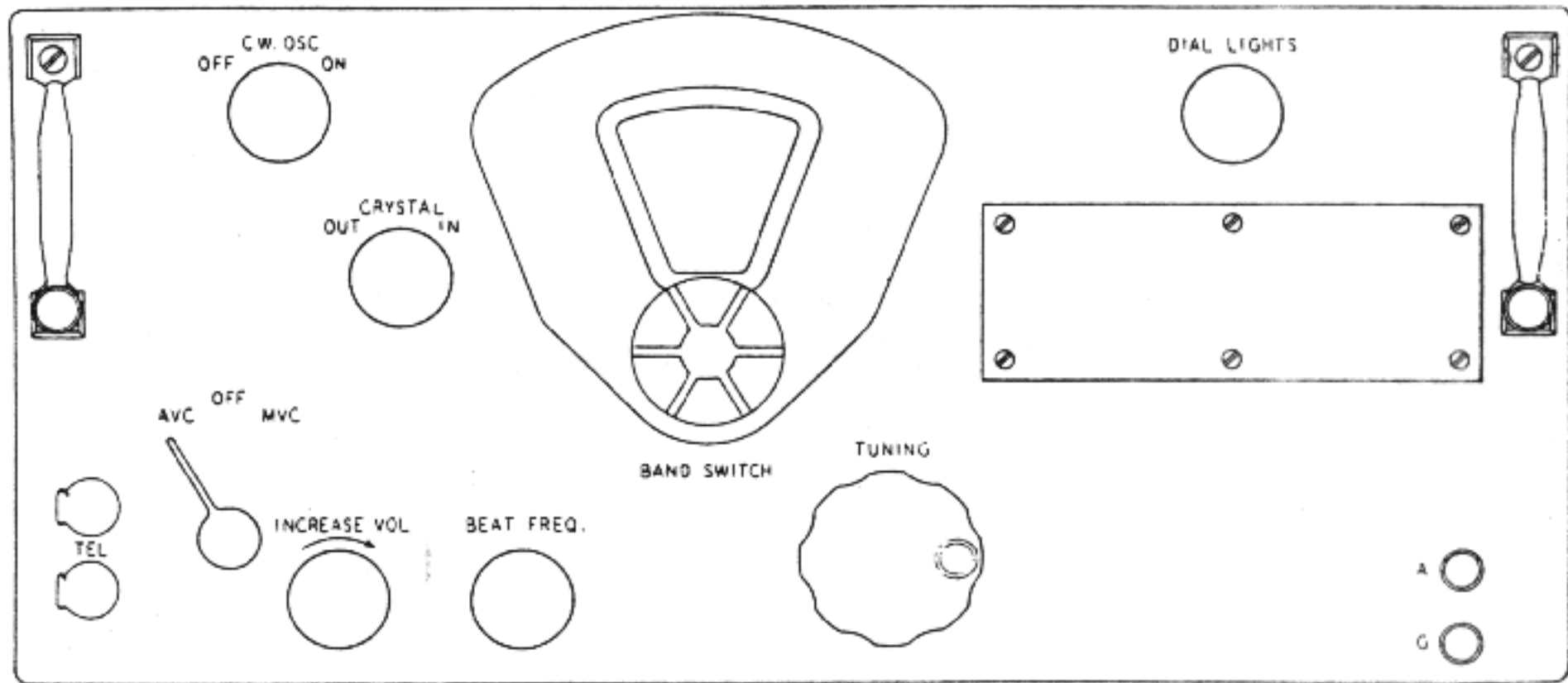
(147)
FIRST I.F.



(148)
SECOND I.F.

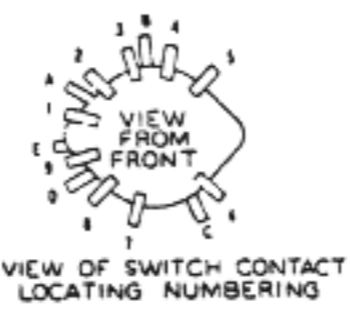


(149)
THIRD I.F.



NOTE -
TURN BAND SWITCH TO
BAND COIL IS IN BEFORE
READING COIL RESISTANCES

ALL BAND SWITCH SECTIONS
ARE SHOWN IN THE NO. 6
POSITION (U S - 18 M.C.)



BAND SWITCH SECTION NO. 1
IS NEAREST COIL CAN.

OSC. BAND SWITCH CONNECTIONS

SECT.	POS. 1	POS. 2	POS. 3	POS. 4	POS. 5	POS. 6
NO. 1 FRONT	4-7	4-8	4-9	1-4	2-4	3-4
NO. 2 FRONT	6	7-8	1-8-9	1-7-8-9	1-2-7-8-9	1-2-3-7-8-9
NO. 2 REAR	A-B	A-B	A-B	A-B	B A-D	B E-A

DETECTOR BAND SWITCH CONNECTIONS

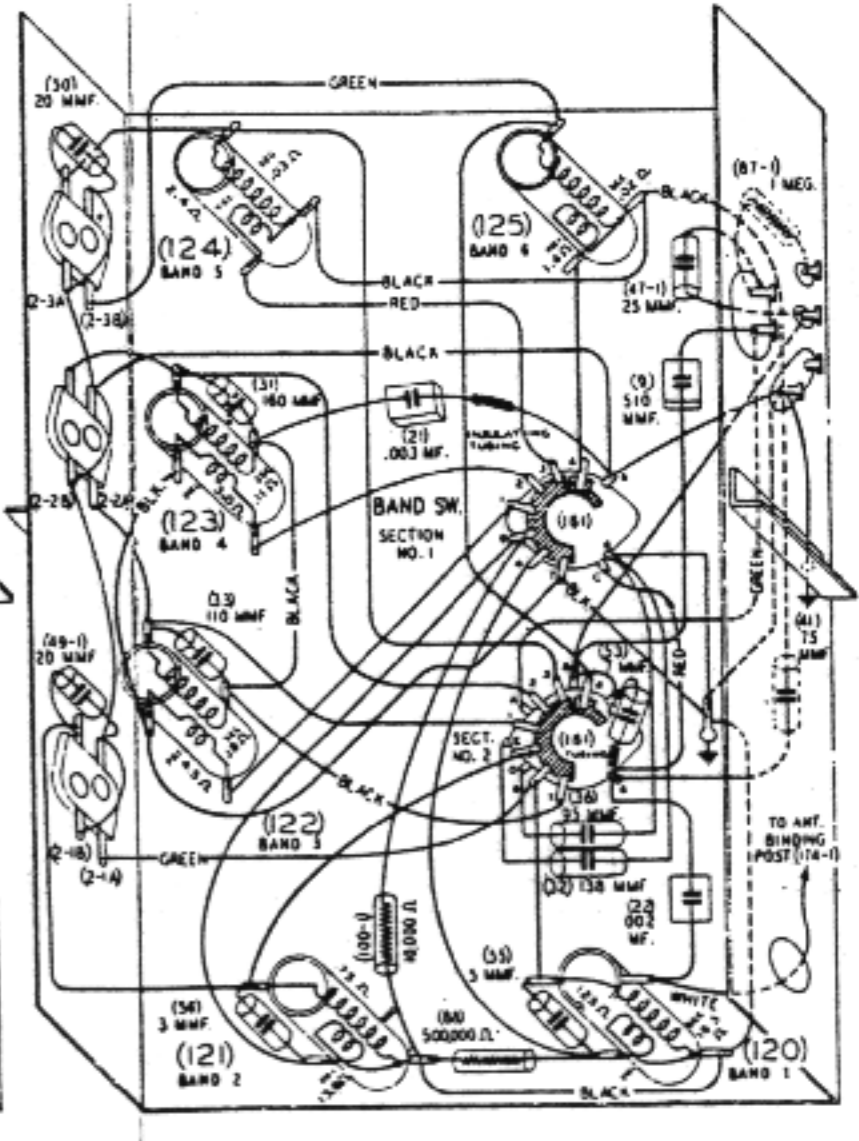
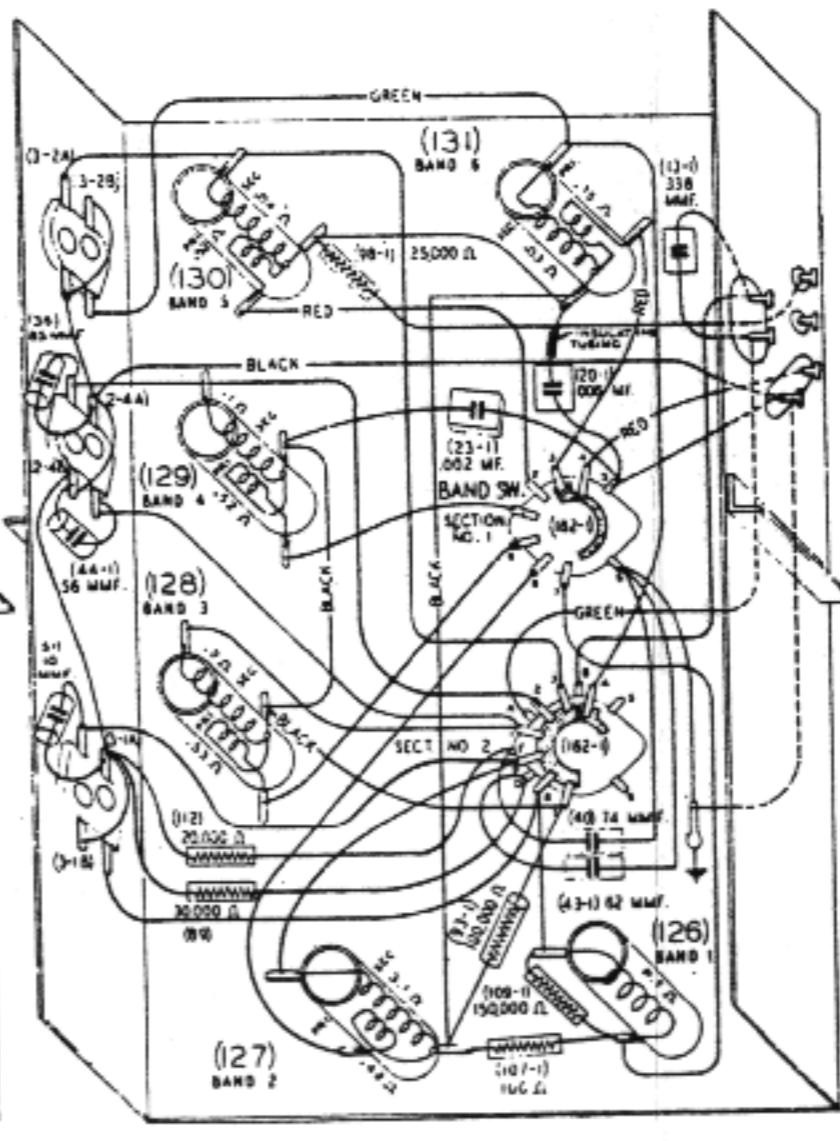
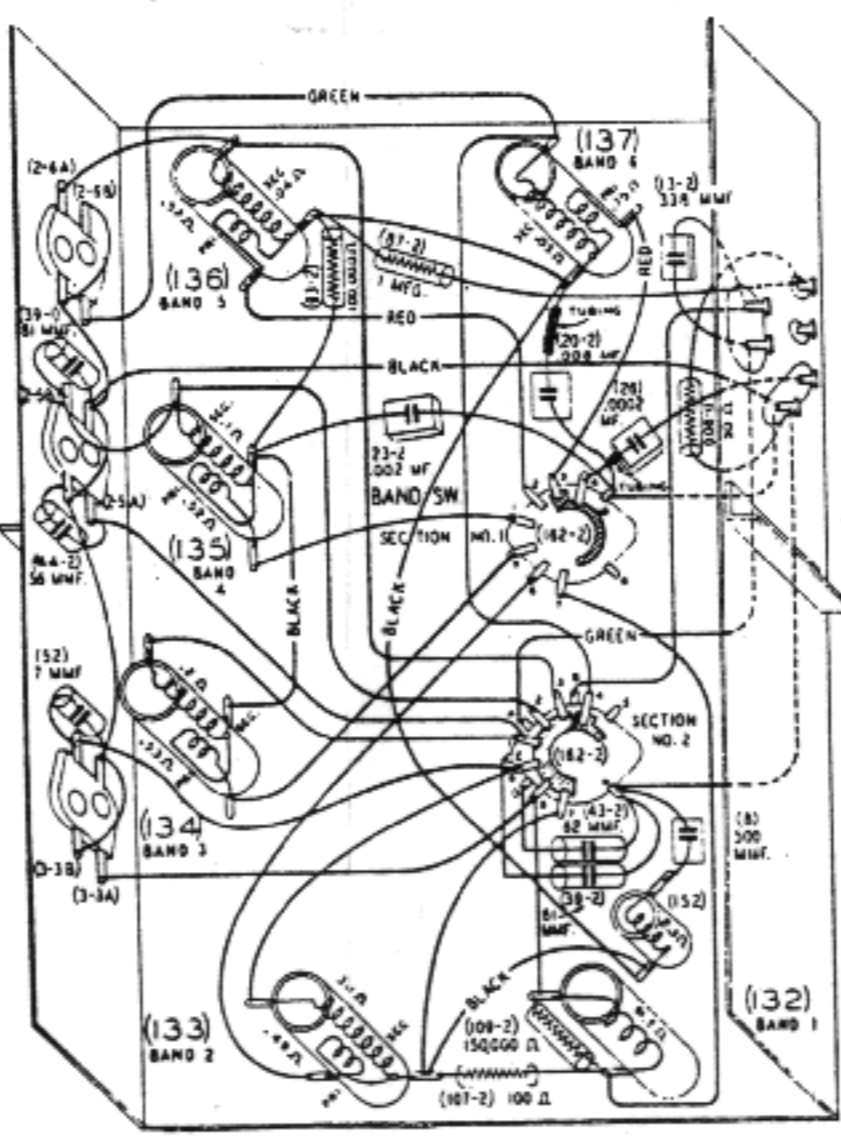
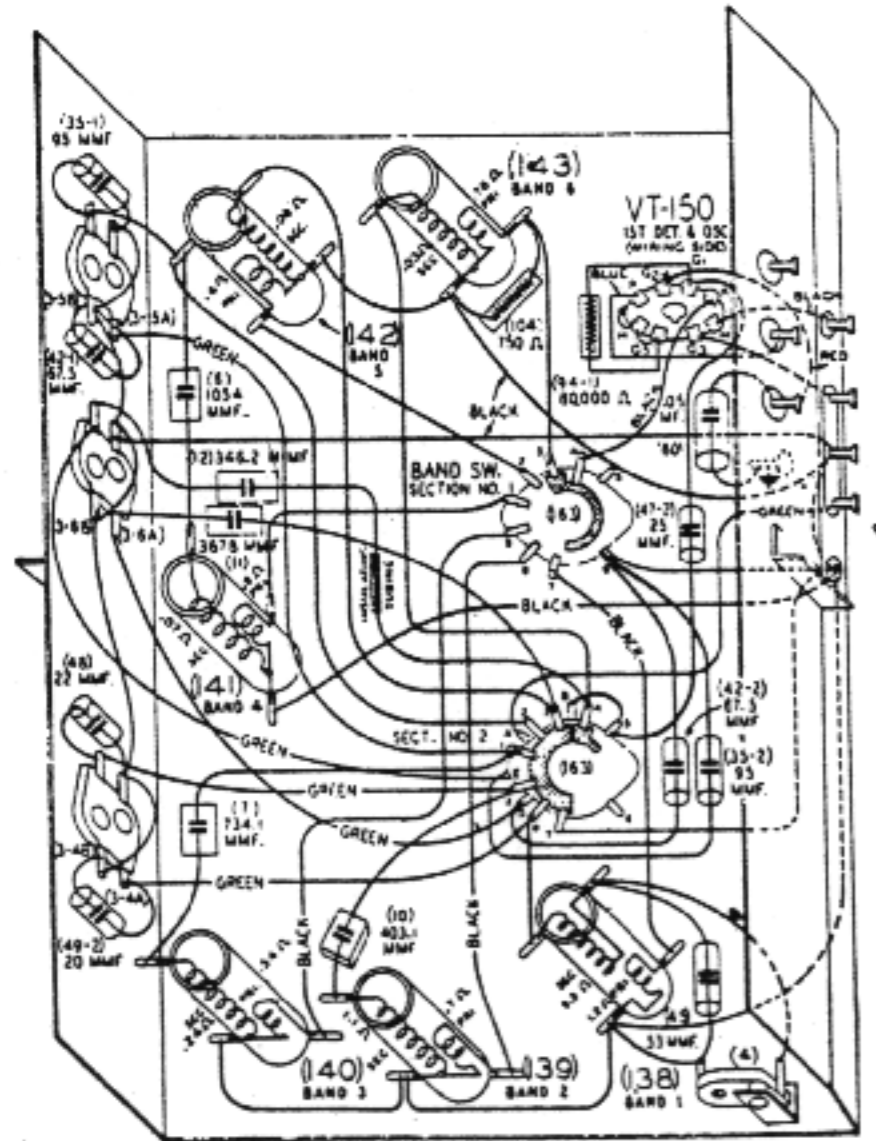
SECT.	POS. 1	POS. 2	POS. 3	POS. 4	POS. 5	POS. 6
NO. 1 FRONT	4-7	4-8	4-9	1-4	2-4	3-4
NO. 2 FRONT	6	7-8	1-8-9	1-7-8-9	1-2-7-8-9	1-2-3-7-8-9
NO. 2 REAR	A-B	A-B	A-B	A-B	B A-D	B E-A

R.F. BAND SWITCH CONNECTIONS

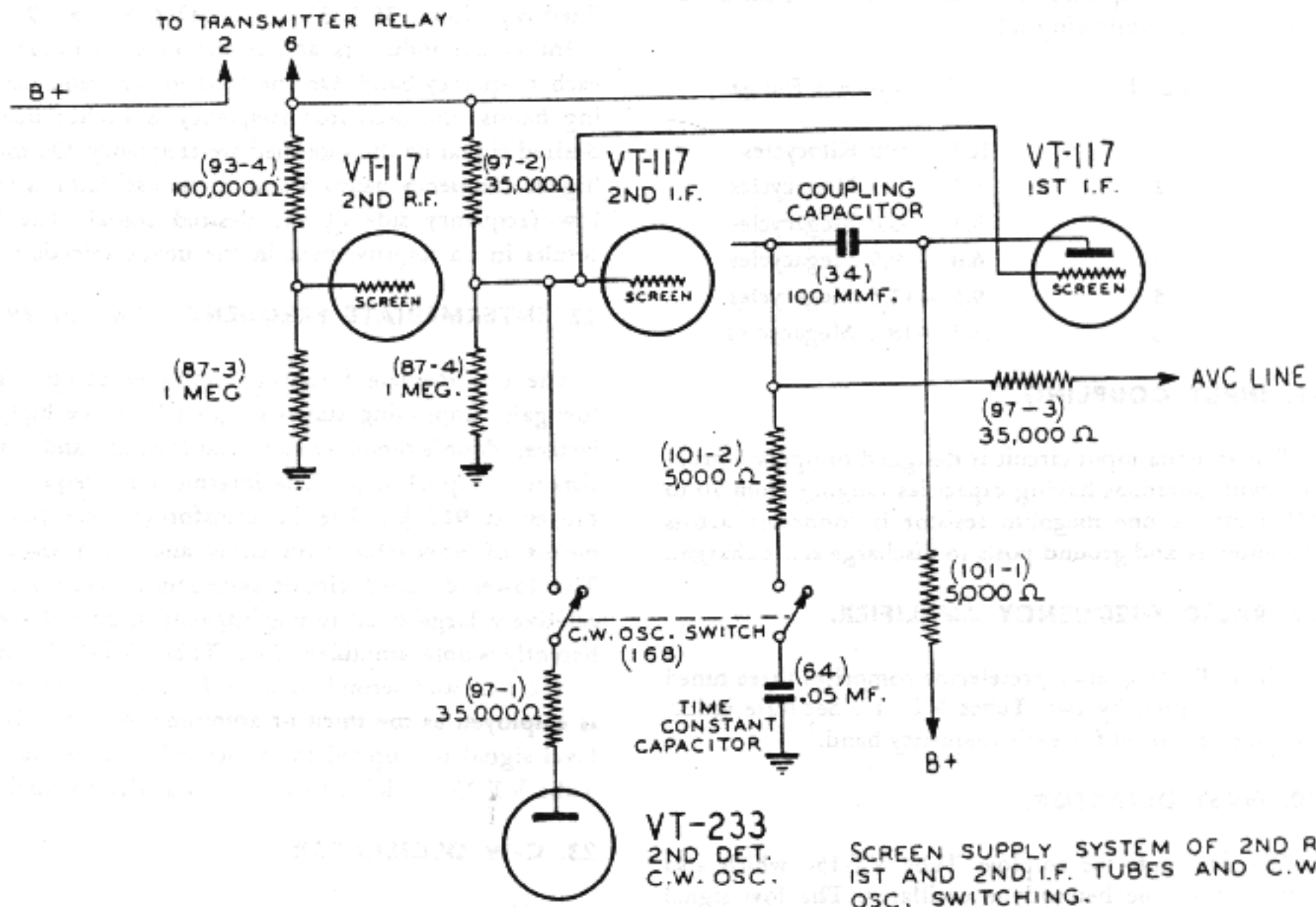
SECT.	POS. 1	POS. 2	POS. 3	POS. 4	POS. 5	POS. 6
NO. 1 FRONT	4-7	4-8	4-9	1-4	2-4	3-4
NO. 2 FRONT	6	7-8	1-8-9	1-7-8-9	1-2-7-8-9	1-2-3-7-8-9
NO. 2 REAR	A-B	A-B	A-B	A-B	B A-D	B E-A

ANTENNA BAND SWITCH CONNECTIONS

SECT.	POS. 1	POS. 2	POS. 3	POS. 4	POS. 5	POS. 6
NO. 1 FRONT	6	7-8	1-8-9	1-7-8-9	1-2-7-8-9	1-2-3-7-8-9
NO. 1 REAR	C	C	C	C	C	C
NO. 2 FRONT	6	7-8	1-8-9	1-7-8-9	1-2-7-8-9	1-2-3-7-8-9
NO. 2 REAR	A-B	A-B	A-B	A-B	B A-D	B E-A

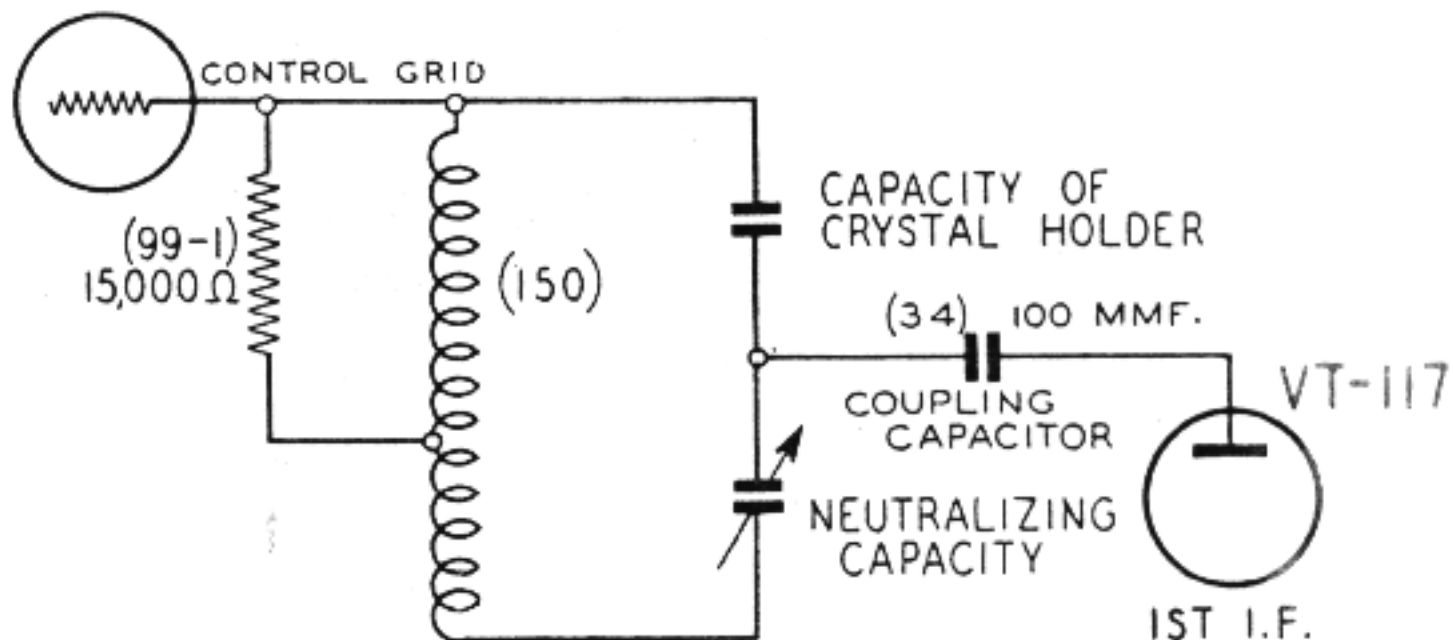


The 750 ohm resistor (refer to ref. No. 104) is not used in Radio Receiver BC-348-Q.

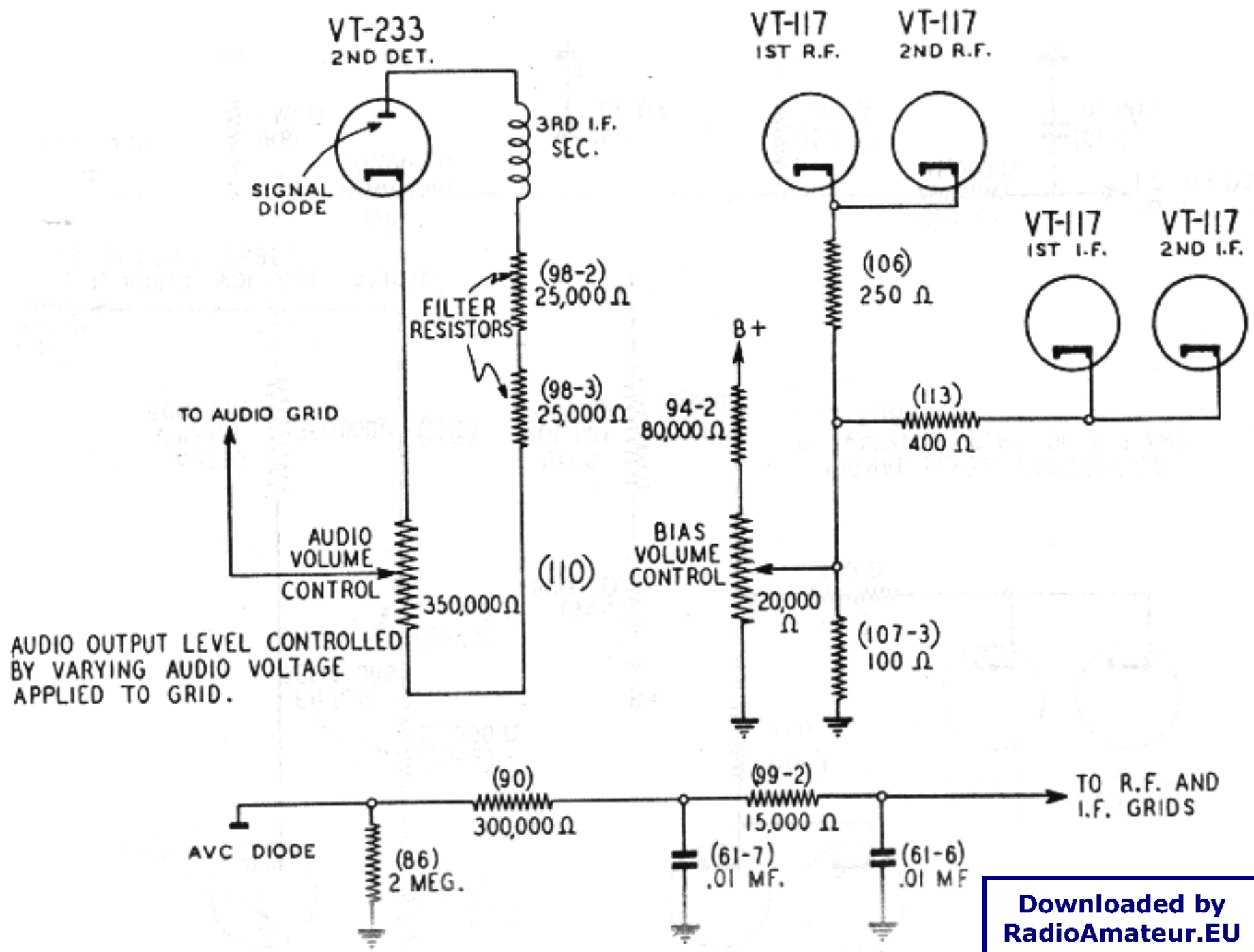


SCREEN SUPPLY SYSTEM OF 2ND R.F., 1ST AND 2ND I.F. TUBES AND C.W. OSC. SWITCHING.

VT-117
2ND I.F.



AUTO TRANSFORMER
EQUAL AND OPPOSITE VOLTAGE
DEVELOPED

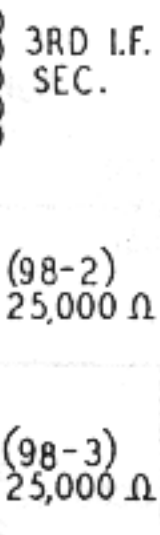


AUDIO OUTPUT LEVEL CONTROLLED BY VARYING AUDIO VOLTAGE APPLIED TO GRID.

VT-233
2ND DET.



FILTER RESISTORS

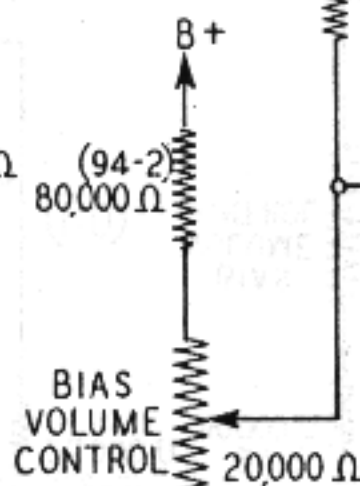
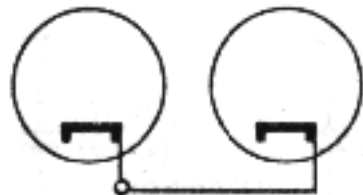


AUDIO VOLUME CONTROL
350,000 Ω (110)

TO AUDIO GRID
FULL AUDIO VOLTAGE APPLIED TO OUTPUT TUBE.

VT-117
1ST R.F.

VT-117
2ND R.F.



VT-117
1ST I.F. VT-117
2ND I.F.



SIGNAL LEVEL CONTROLLED BY VARYING BIAS OF R.F. AND I.F. TUBES.

