RESTRICTED

B.R.1616(2)

HANDBOOK FOR TYPE 612 SERIES

VOLUME II

DIAGRAMS

RADIO EQUIPMENT DEPARTMENT,
ADMIRALTY.
MAY 1948. (R. E. 39/46)

★ AMENDMENTS ★

When an amendment to this handbook is promulgated the brief details required below are to be filled in.

AMENDMENT Nº	AUTHORITY (A.F.O. Nº ETC.)	DATE OF INSERTION	INITIALS

ADMIRALTY, S.W.1.

6th May, 1948.

R.E. 39/46

B.R. 1616(2) (Restricted) "Handbook for Type 612 Series, Volume II, Diagrams, 1948", having been approved by My Lords Commissioners of the Admiralty, is promulgated for information and guidance.

By Command of Their Lordships,

D. E. Lang

To Flag Officers and
Commanding Officers
of H.M. Ships and
Vessels concerned.

HANDBOOK FOR TYPE 612

VOLUME II - DIAGRAMS

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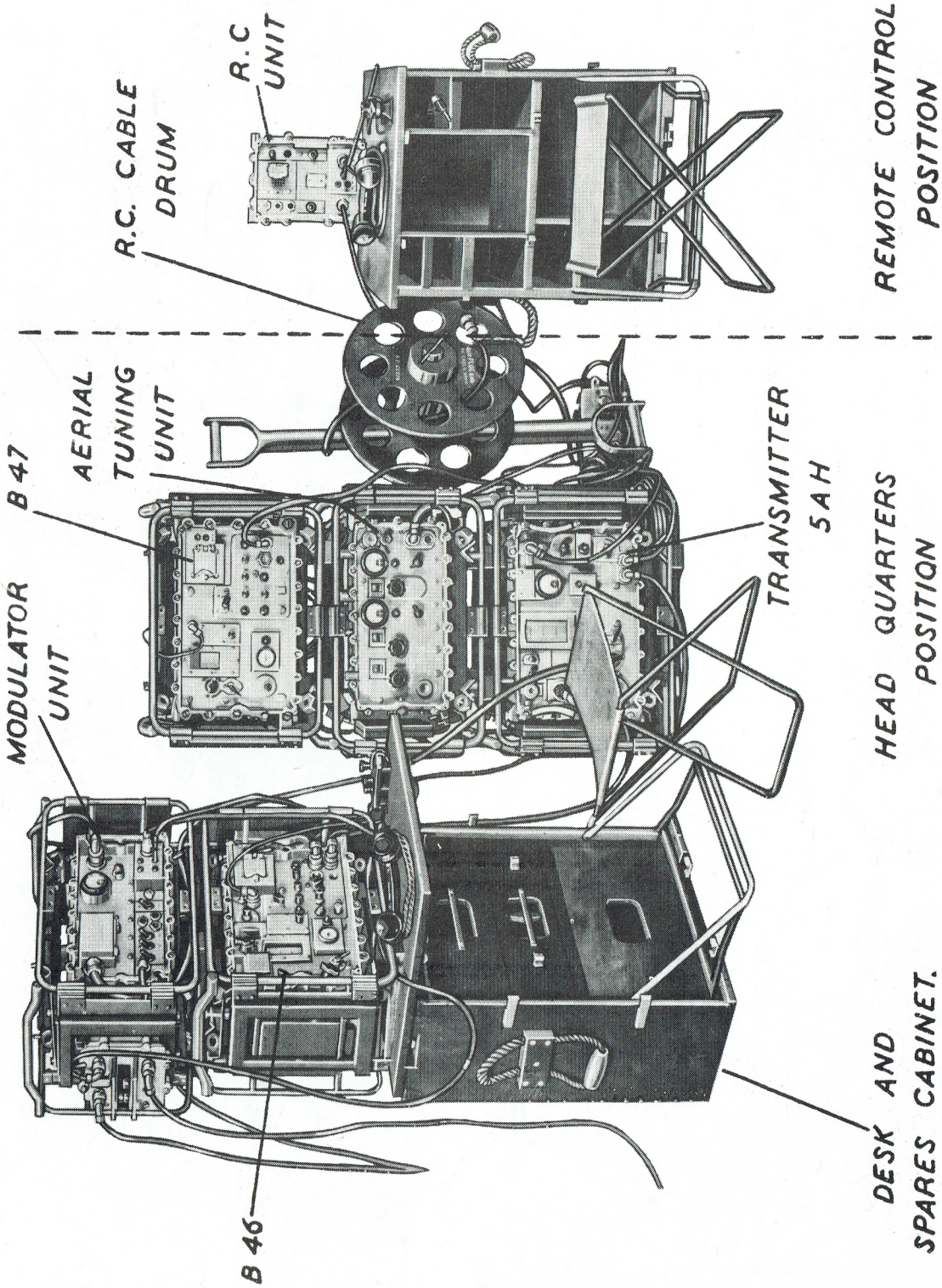
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TYPICAL ARRANGEMENT

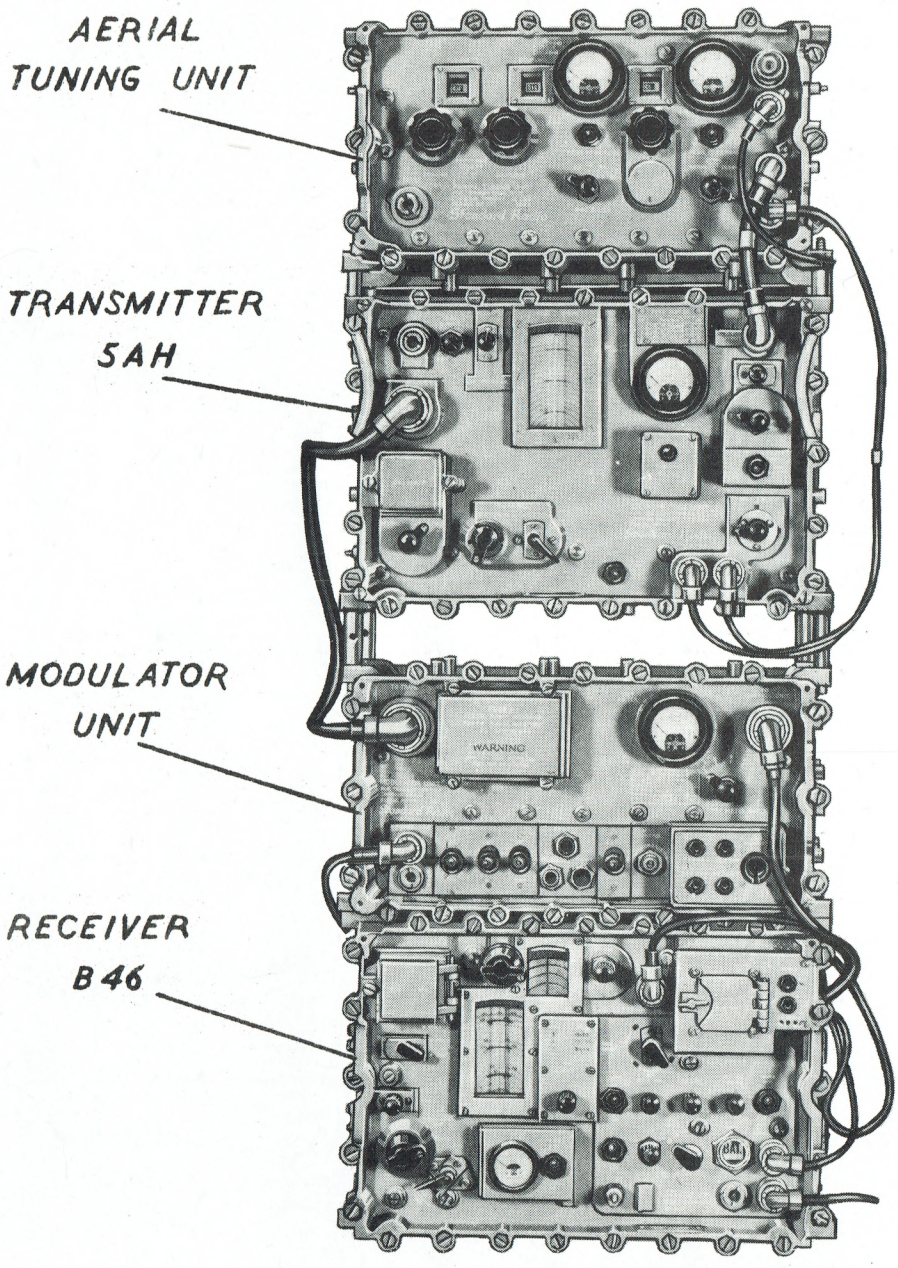
TEMPORARY SHORE STATION

1



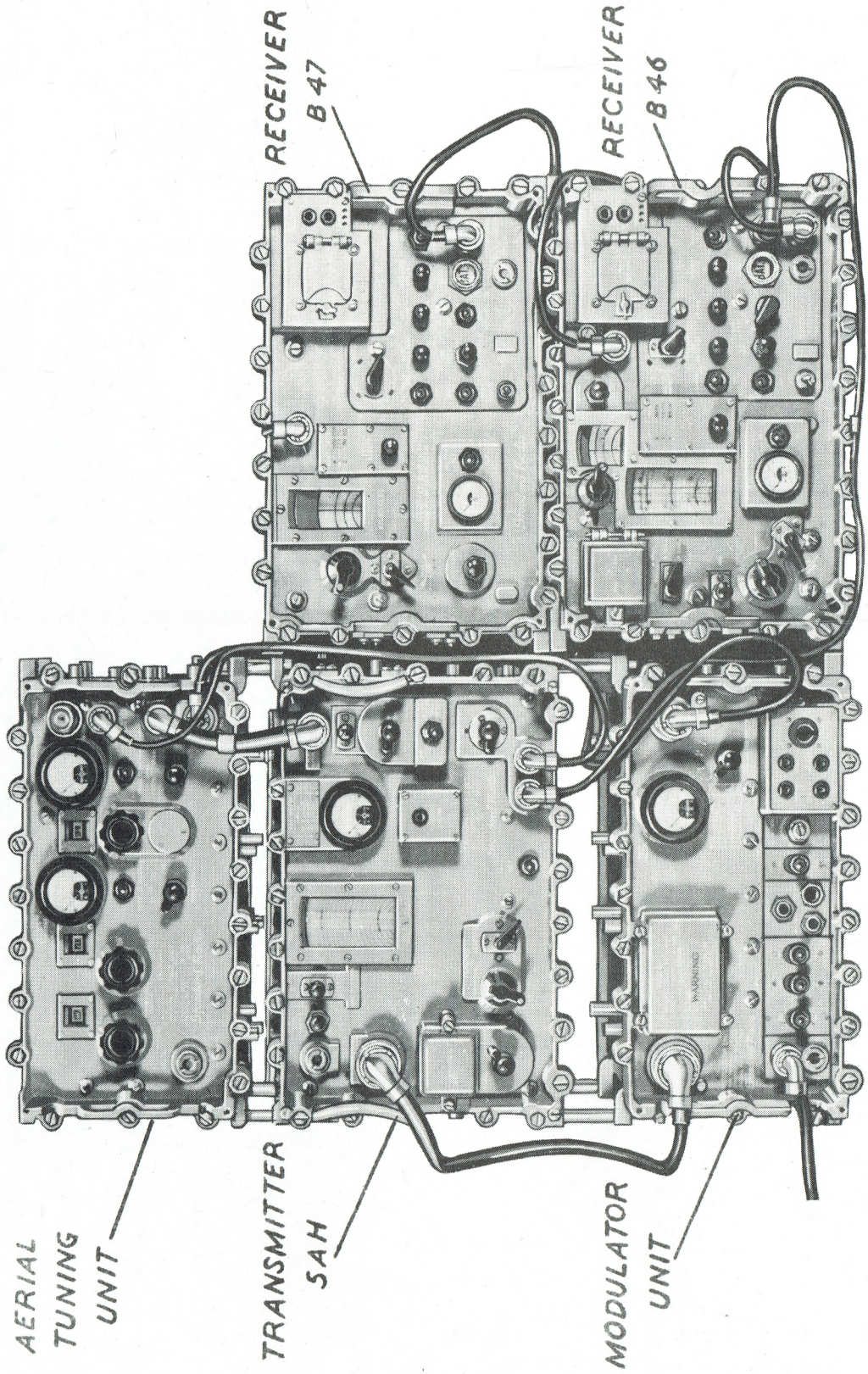
TYPICAL ARRANGEMENT

DESTROYERS' EMERGENCY EQUIPMENT



TYPICAL ARRANGEMENT

COASTAL CRAFT EQUIPMENT

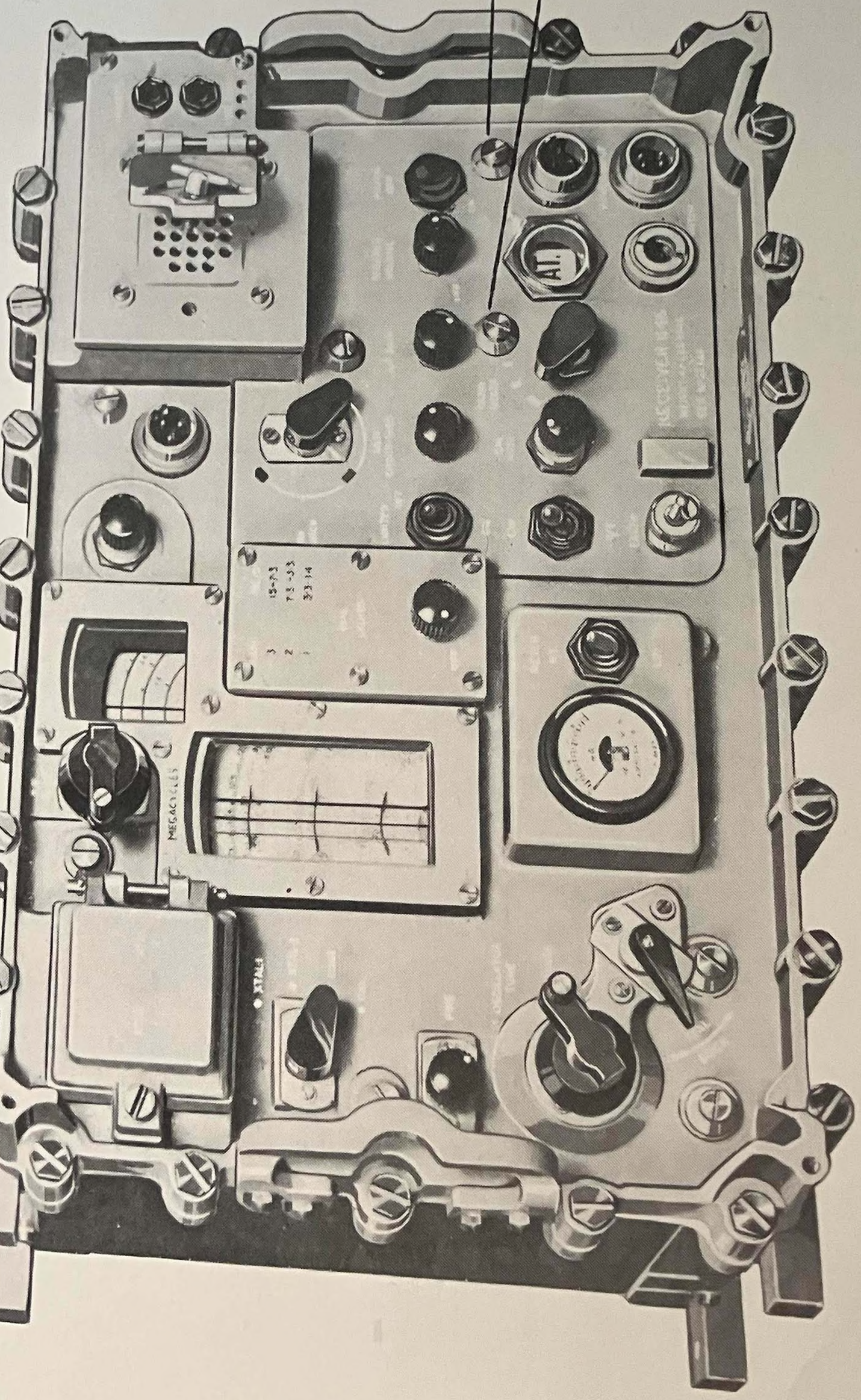


RECEIVER B 46

FRONT VIEW

4

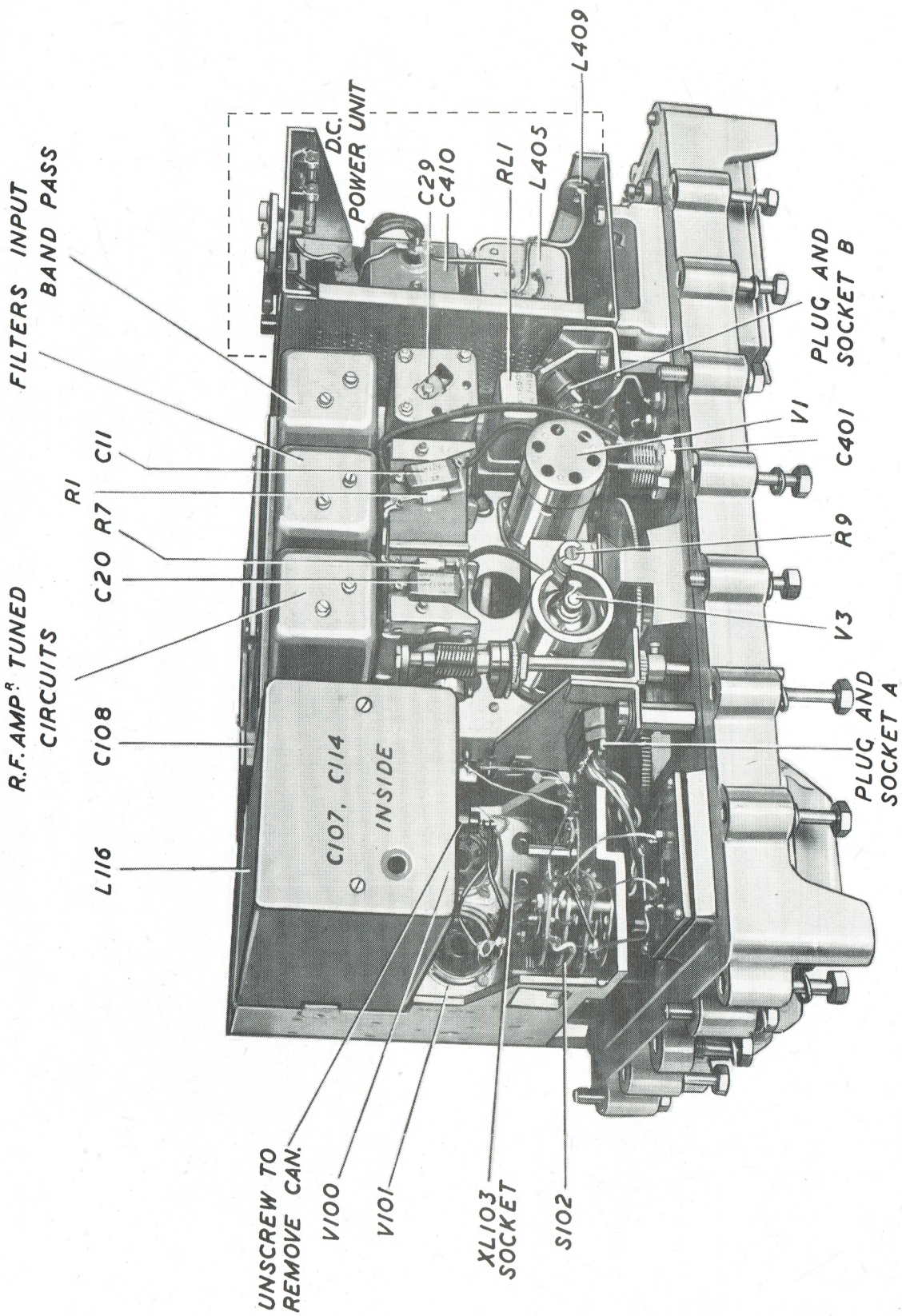
REMOVE TO RELEASE POWER UNIT



RECEIVER B46

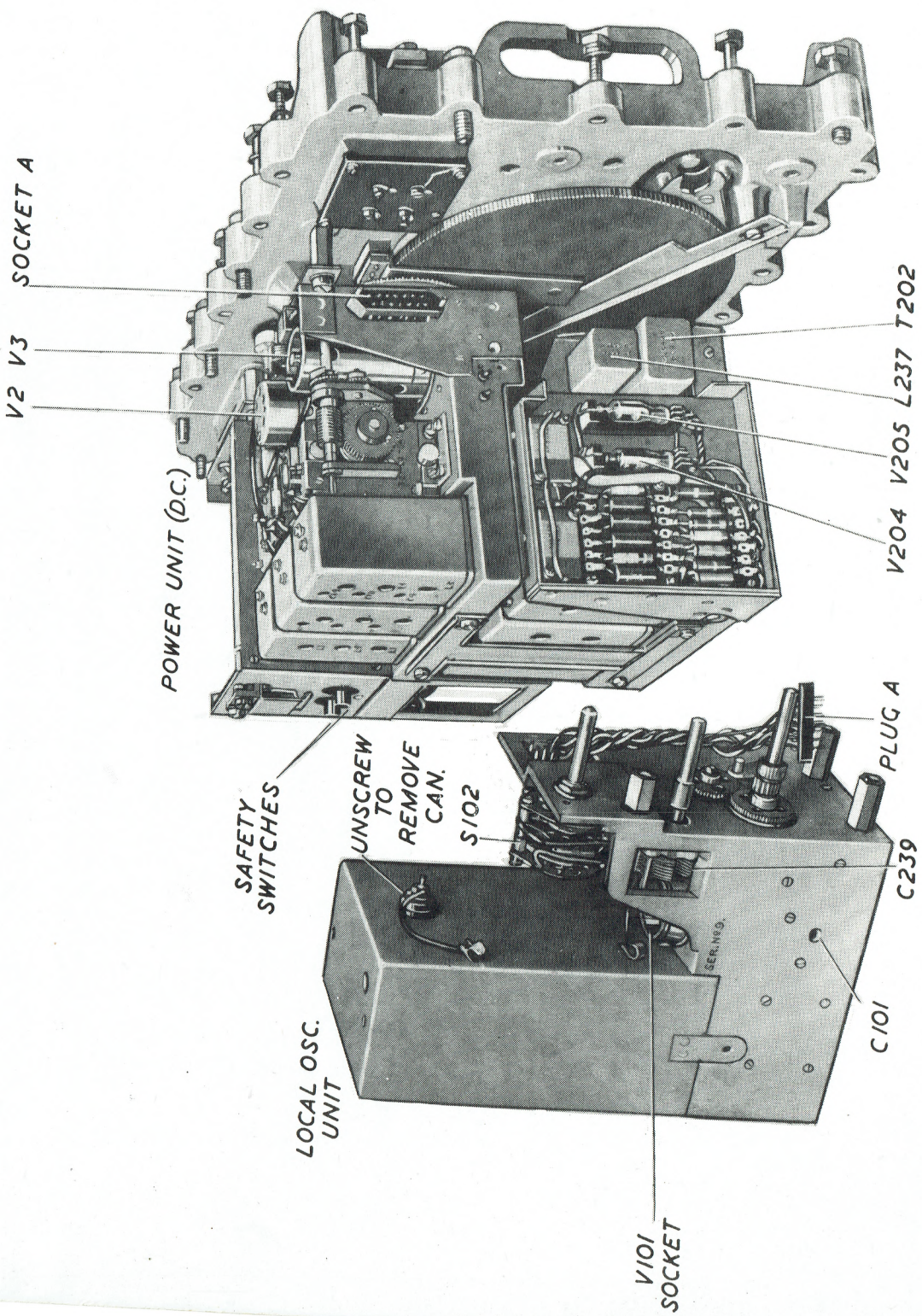
TOP VIEW

5



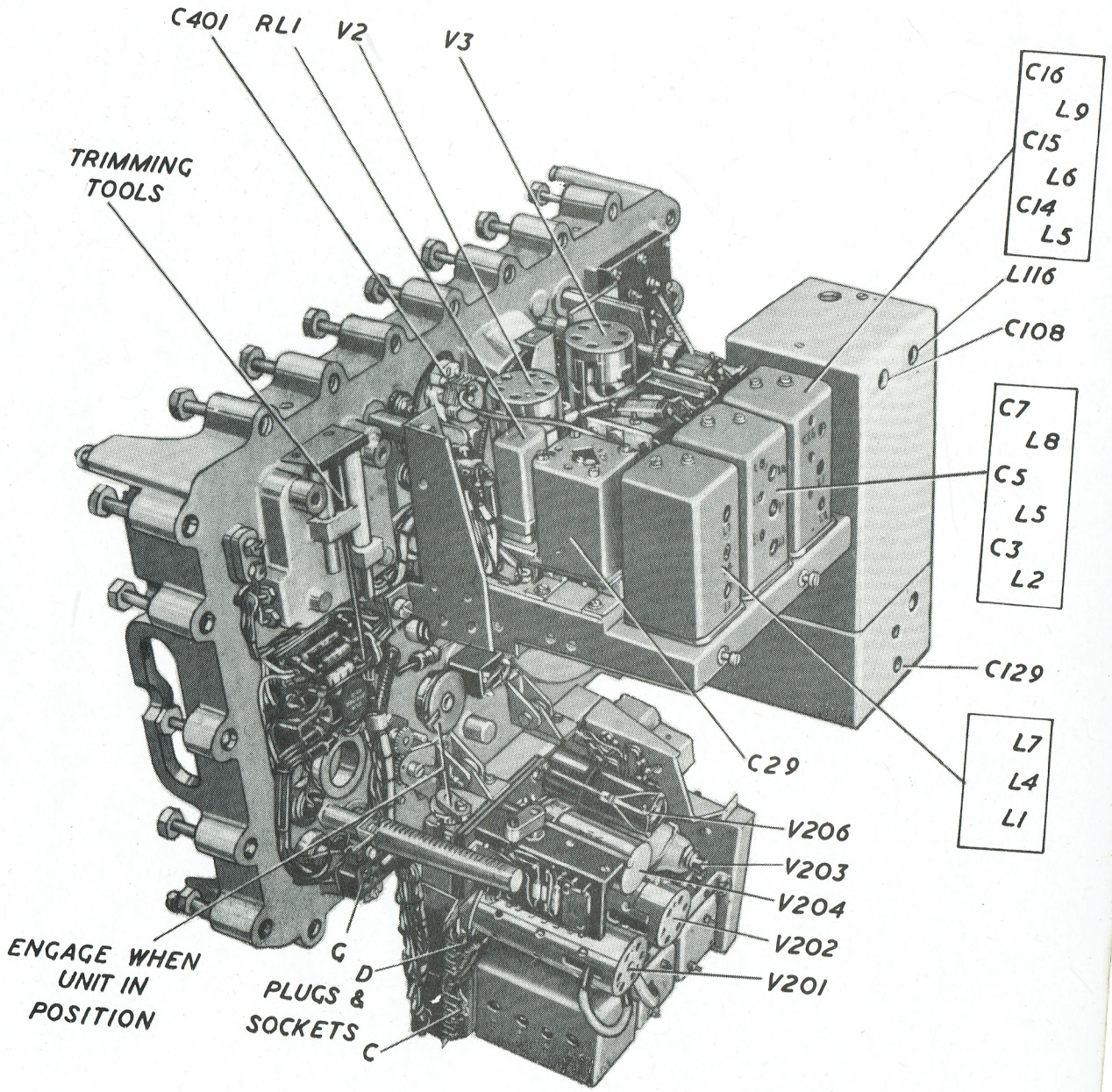
RECEIVER B46

TOP VIEW WITH LOCAL OSC. REMOVED



RECEIVER B46

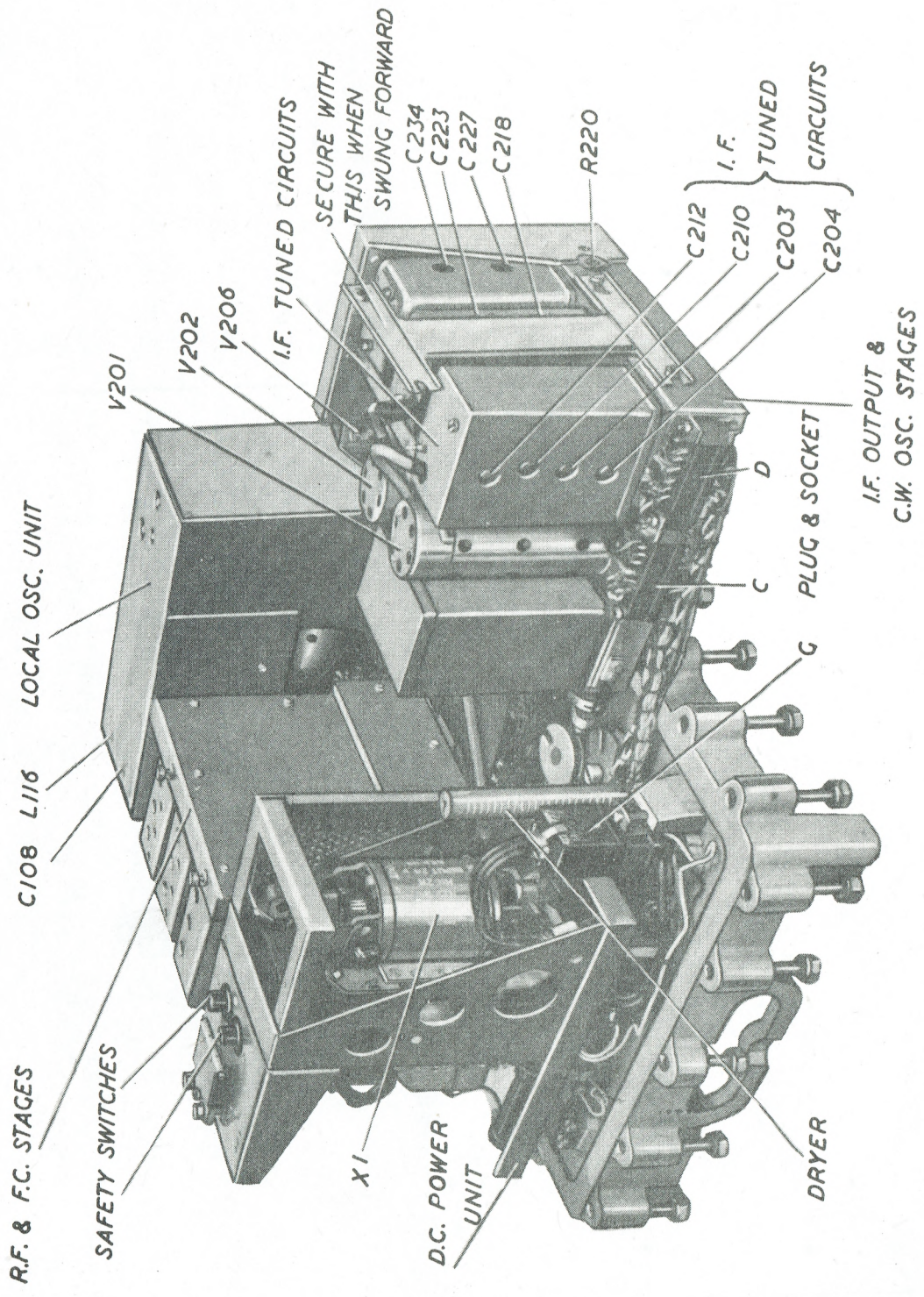
POWER UNIT REMOVED: I.F. AMPLIFIER HINGED DOWN



RECEIVER B46

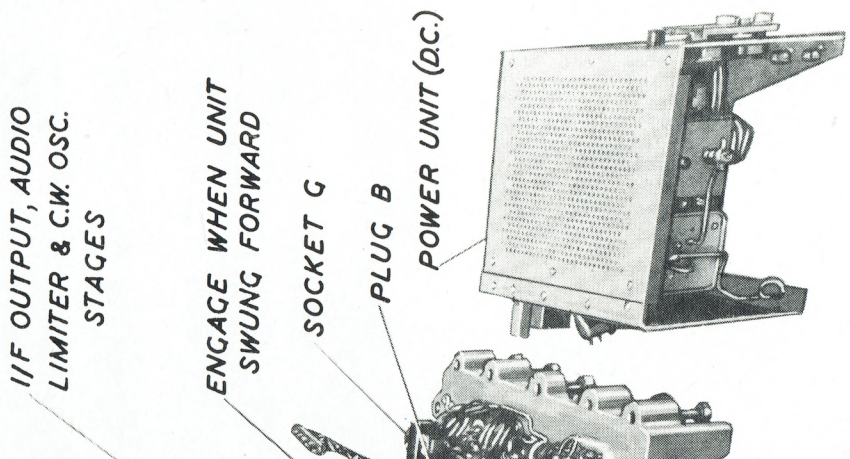
8

BOTTOM VIEW WITH I.F. UNIT HINGED DOWN



RECEIVER B46

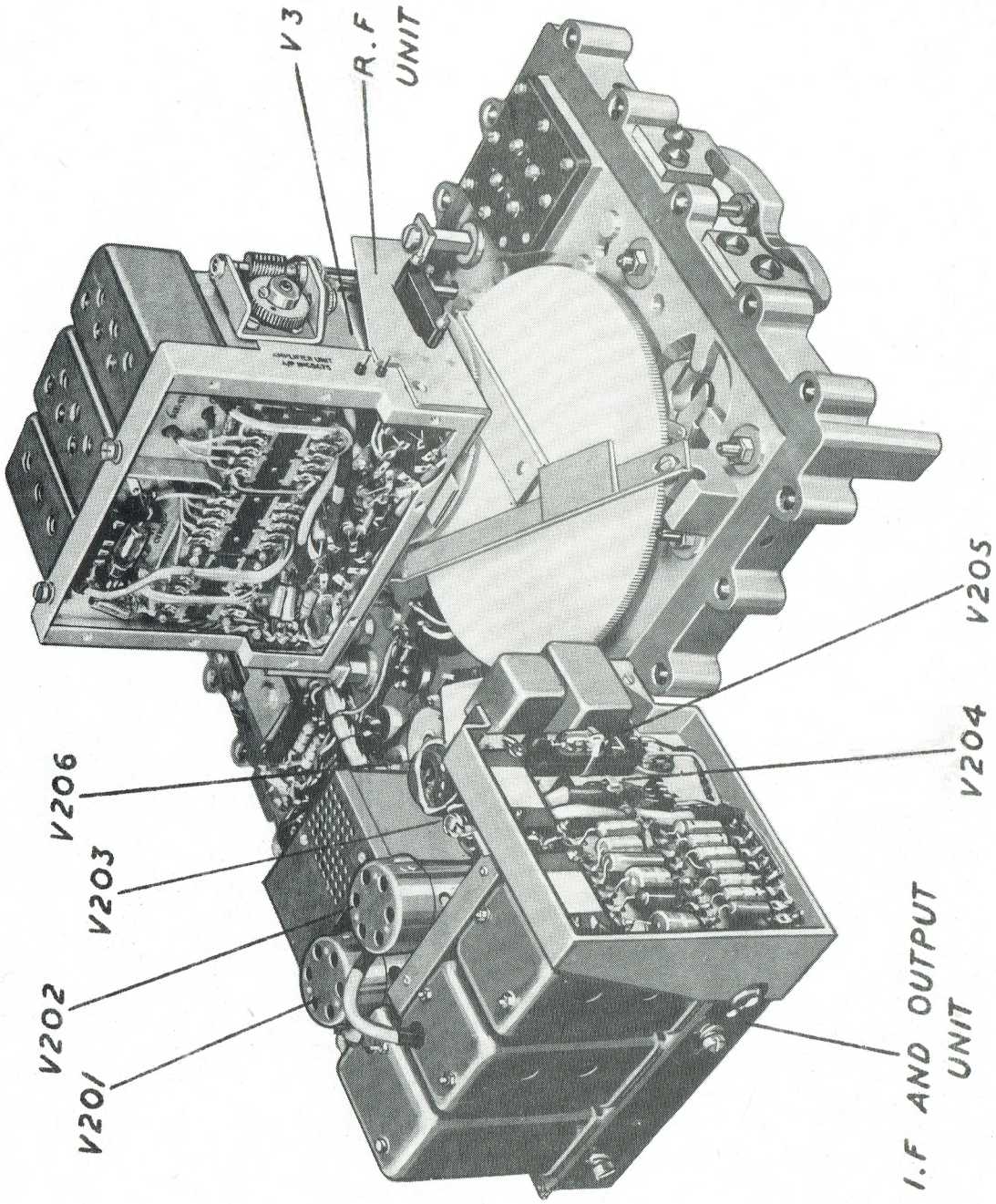
DISMANTLED



RECEIVER B46

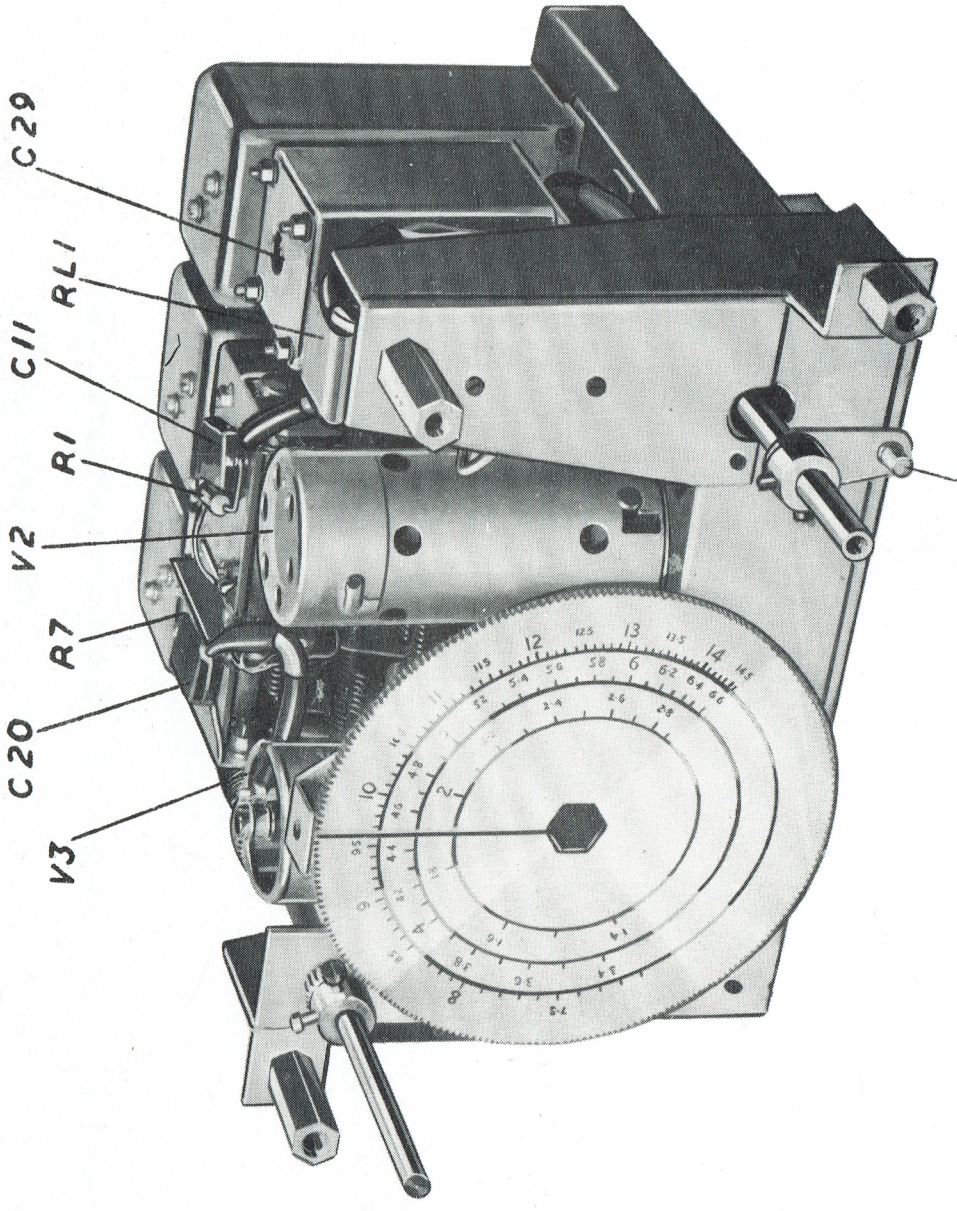
I.F. AND R.F. UNITS

10



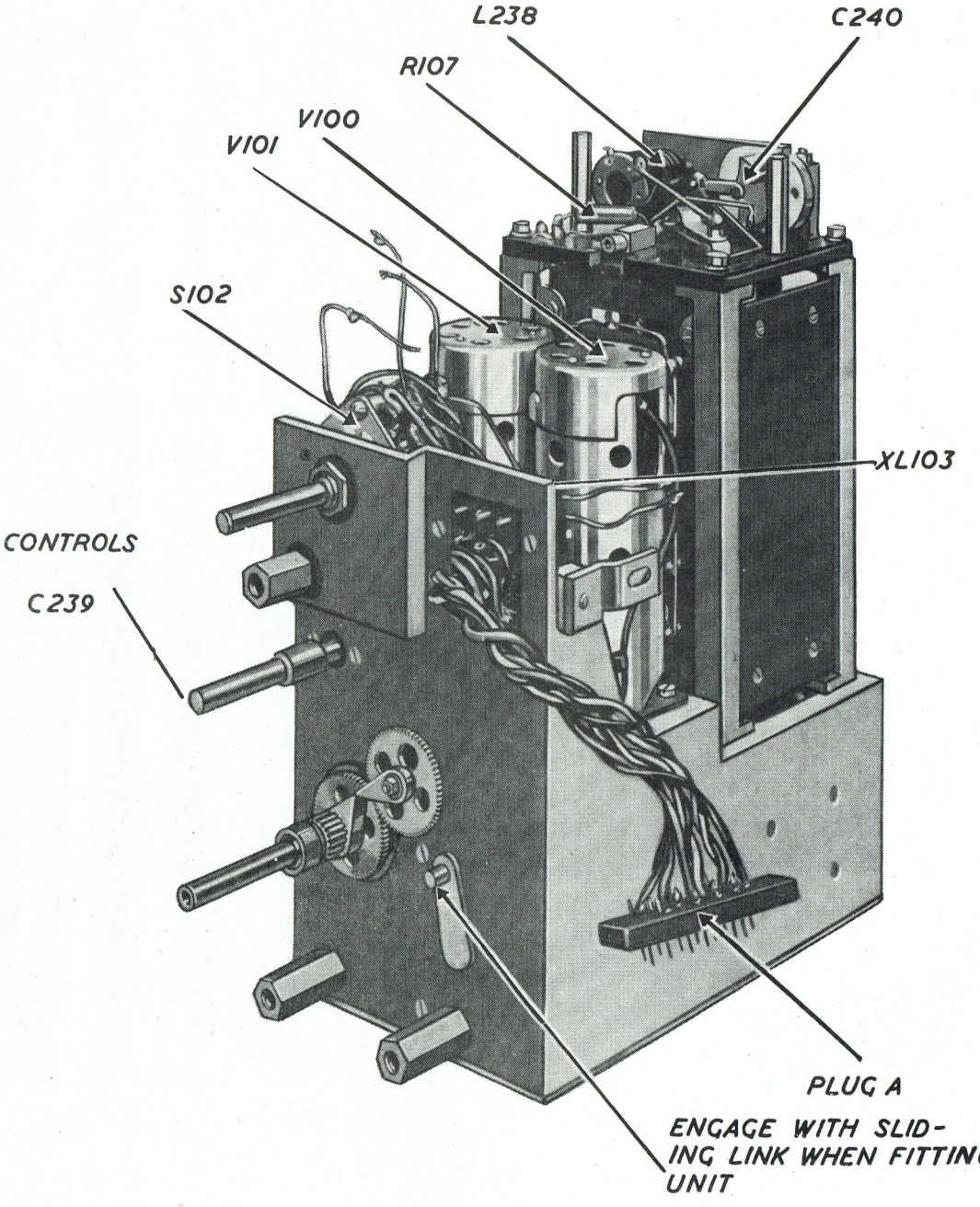
RECEIVER B46

R.F. UNIT.



RECEIVER B46

LOCAL OSCILLATOR & CRYSTAL CALIBRATOR



RECEIVER B46
BLOCK SCHEMATIC

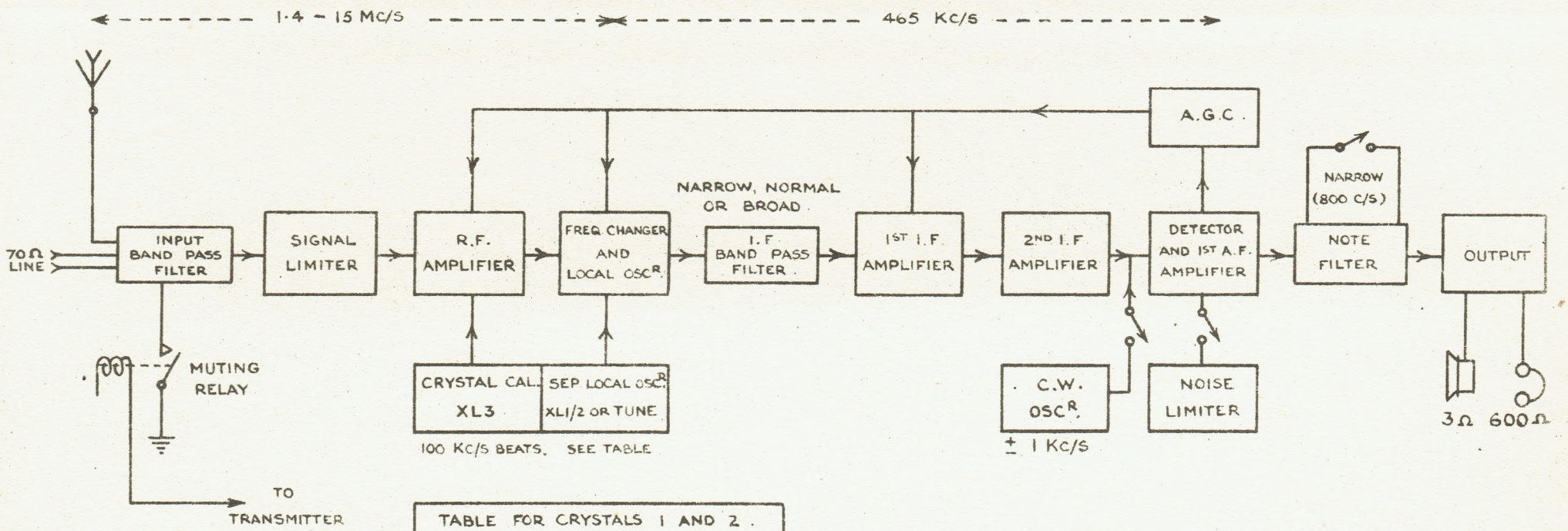


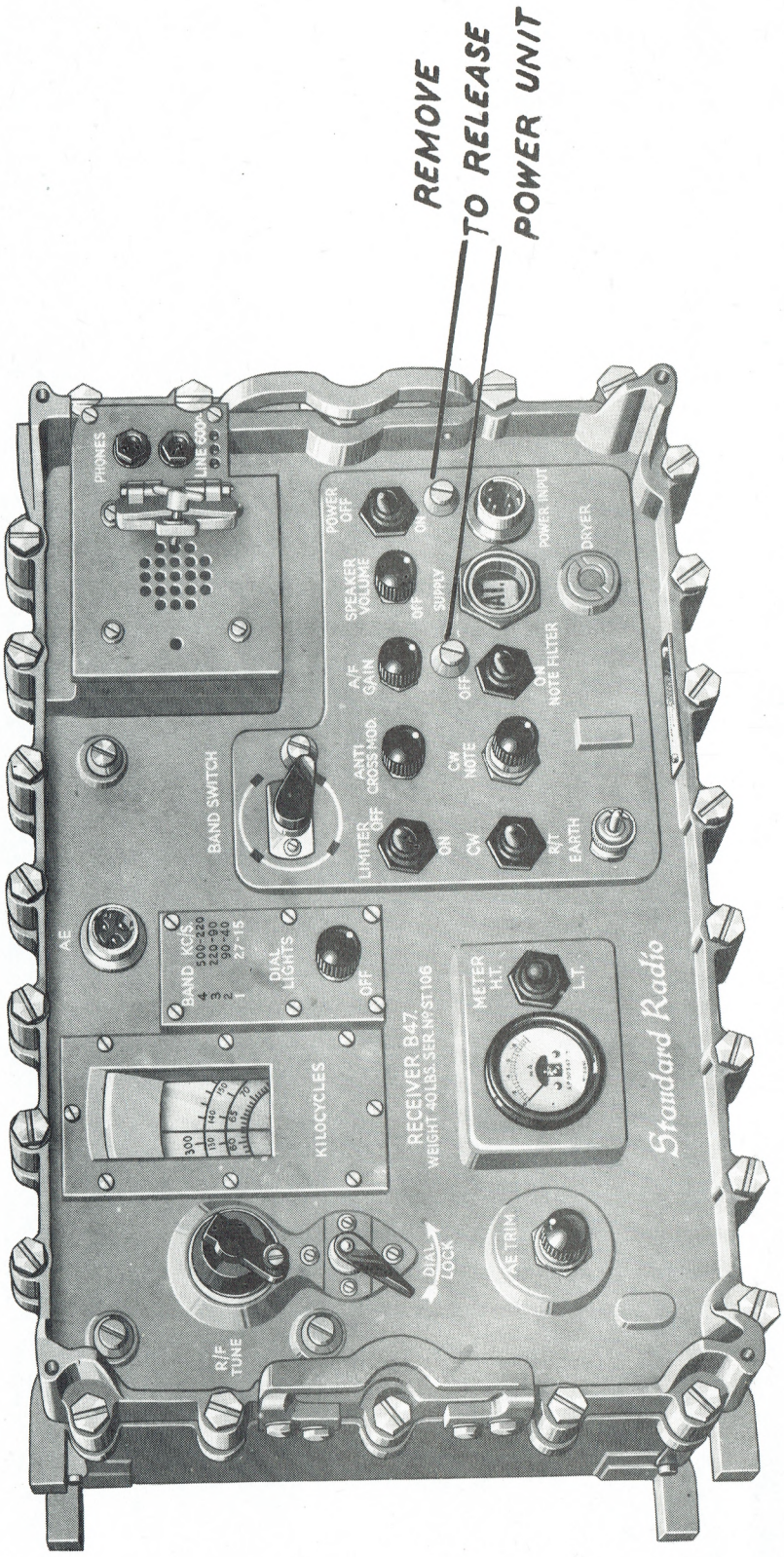
TABLE FOR CRYSTALS 1 AND 2.	
SIG. FREQ	CRYSTAL FREQ.
2-10 Mc/s	SIG. FREQ. + 465 Kc/s
10-15 Mc/s	$\frac{\text{SIG. FREQ. + 465 Kc/s}}{2}$

13

B46 BLOCK SCHEMATIC.

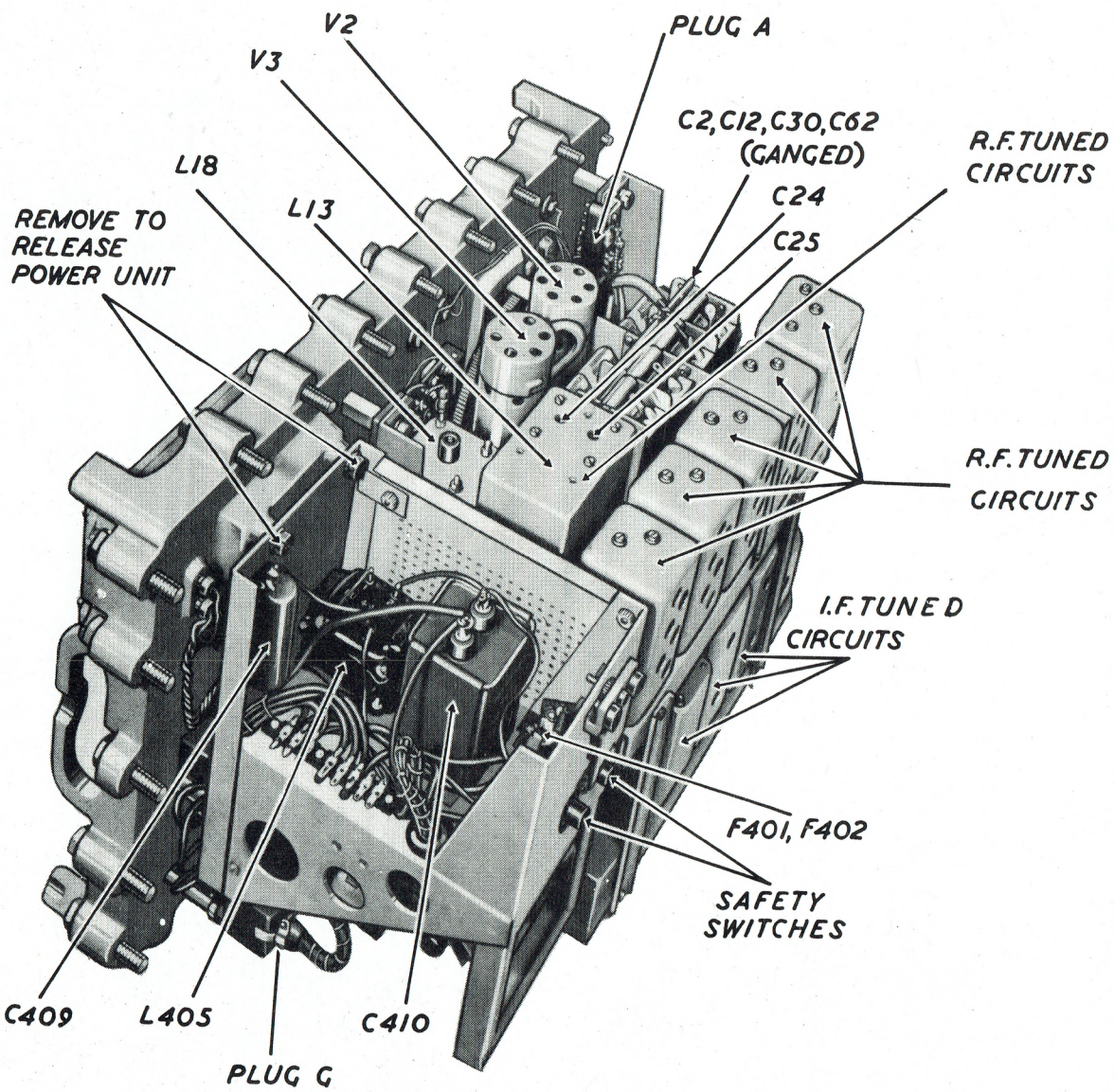
RECEIVER B47

FRONT VIEW



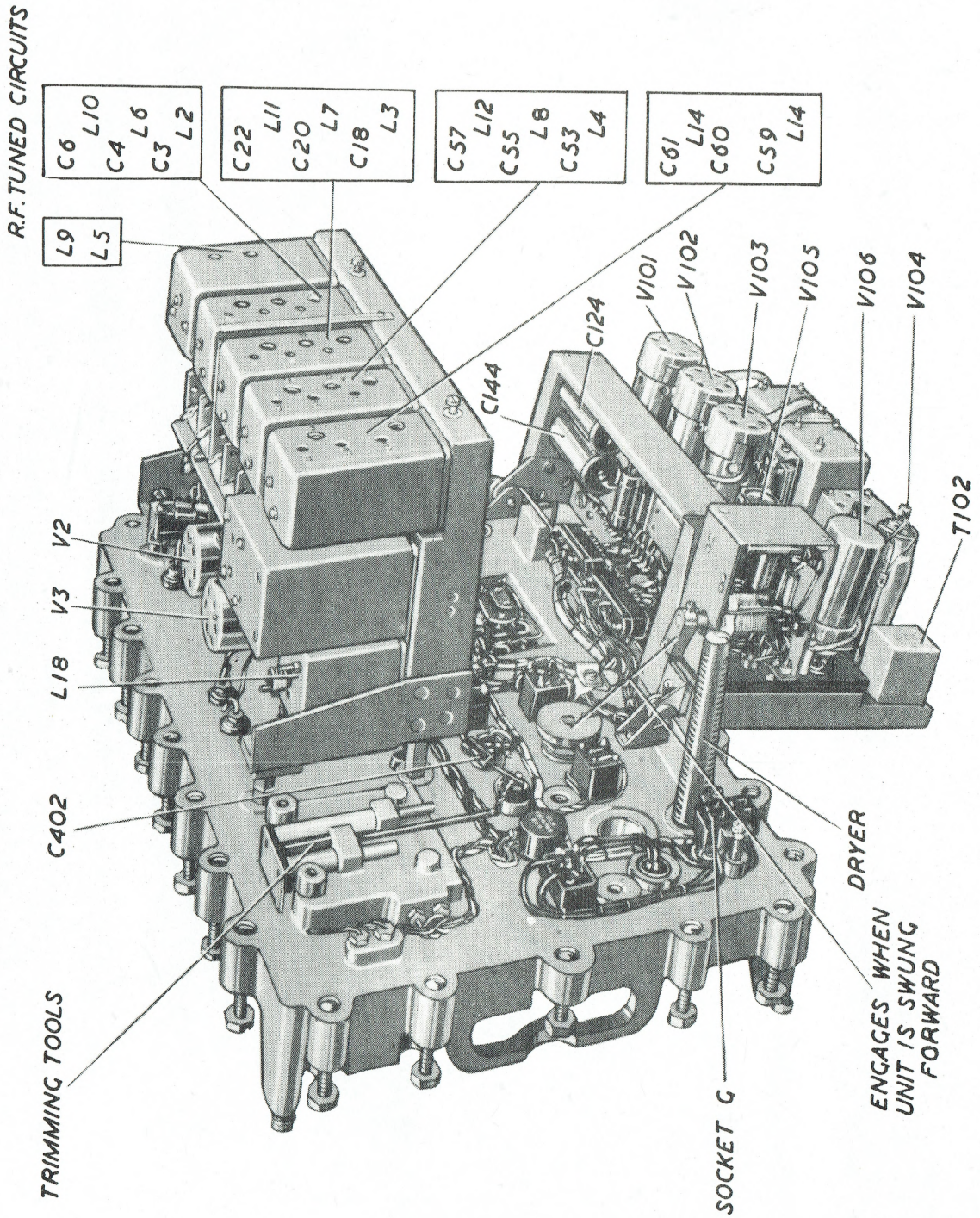
RECEIVER B47

TOP VIEW



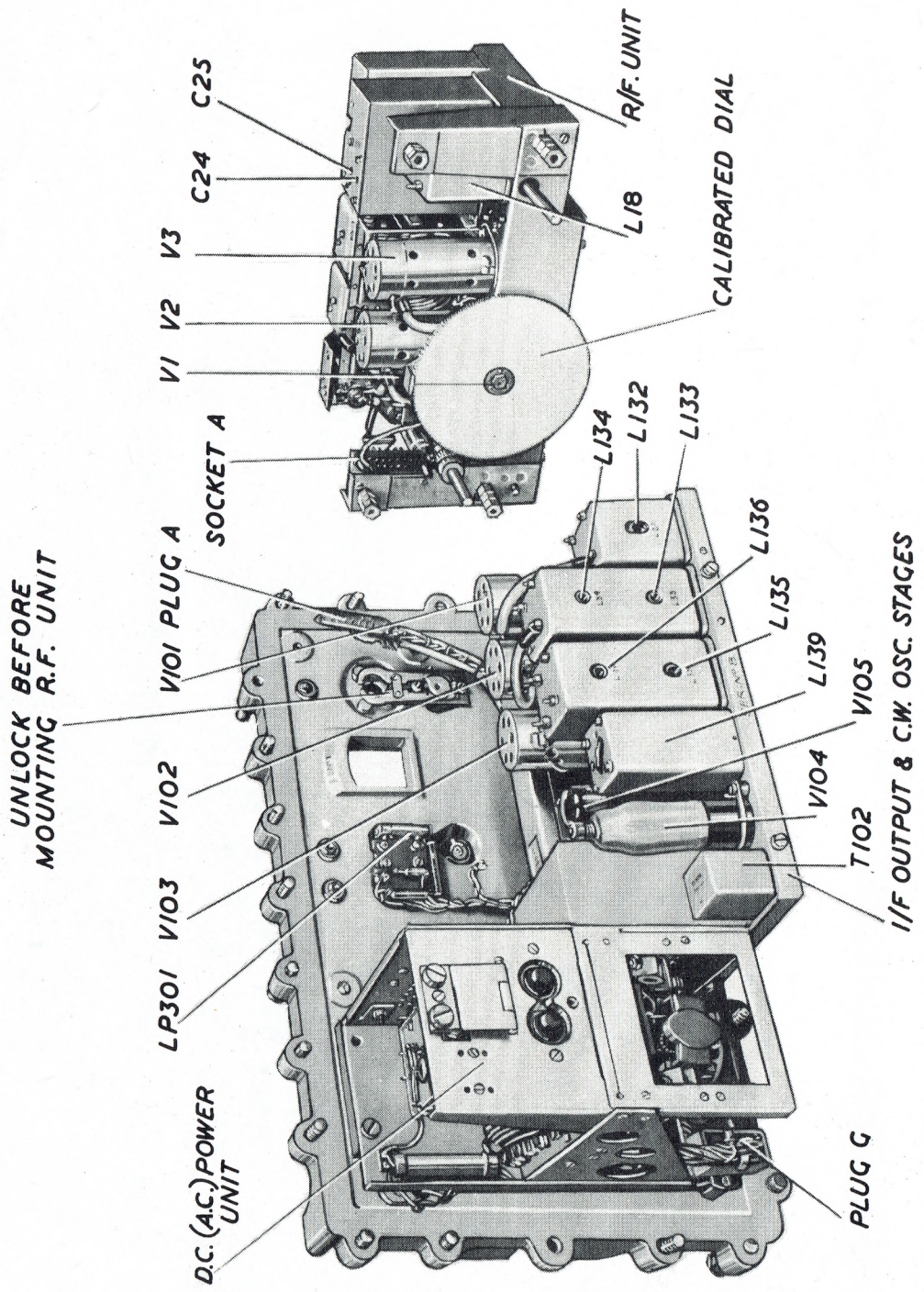
RECEIVER B46

POWER UNIT REMOVED: I.F. AMPLIFIER HINGED DOWN



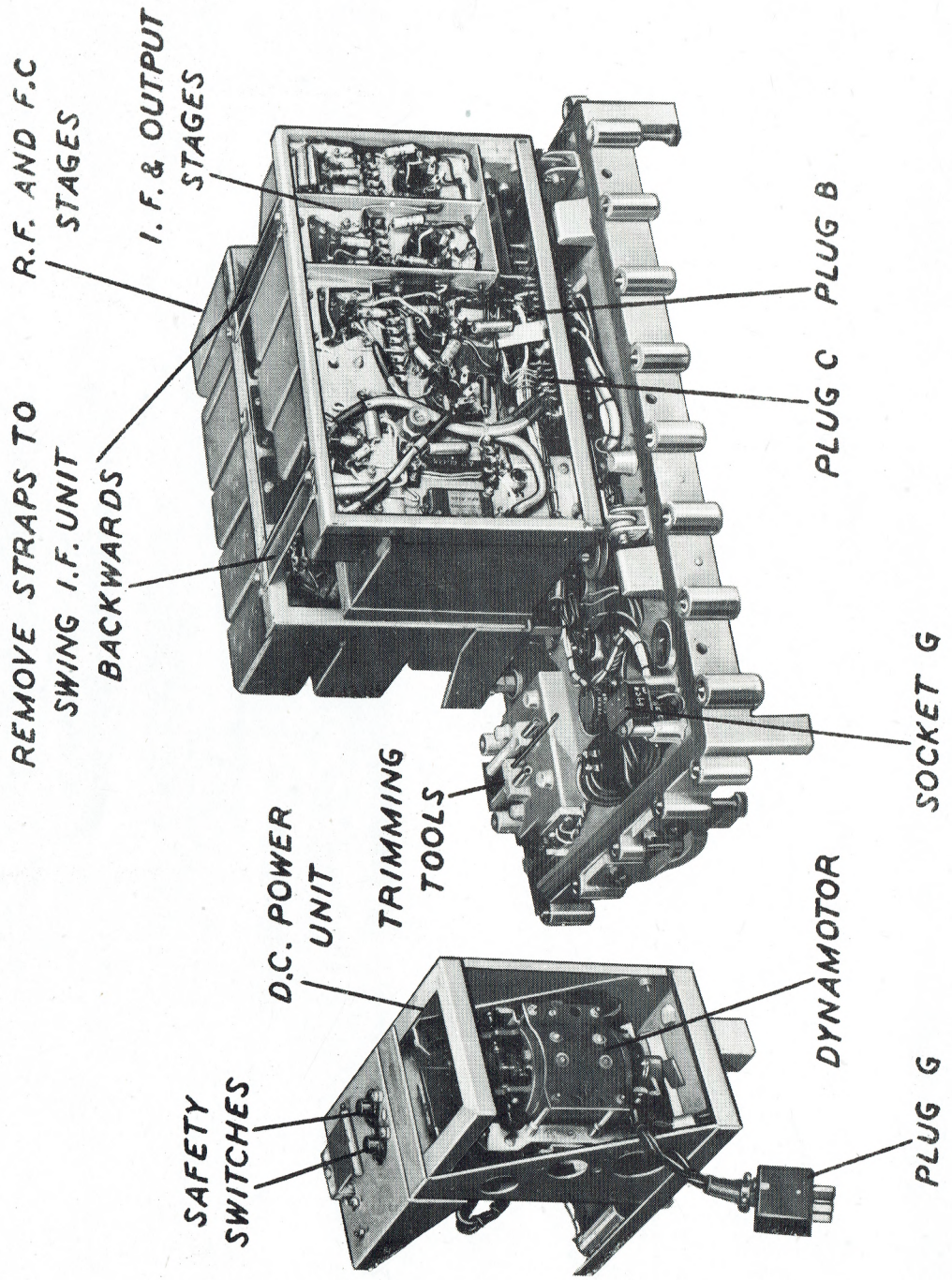
RECEIVER B47

R/F UNIT REMOVED

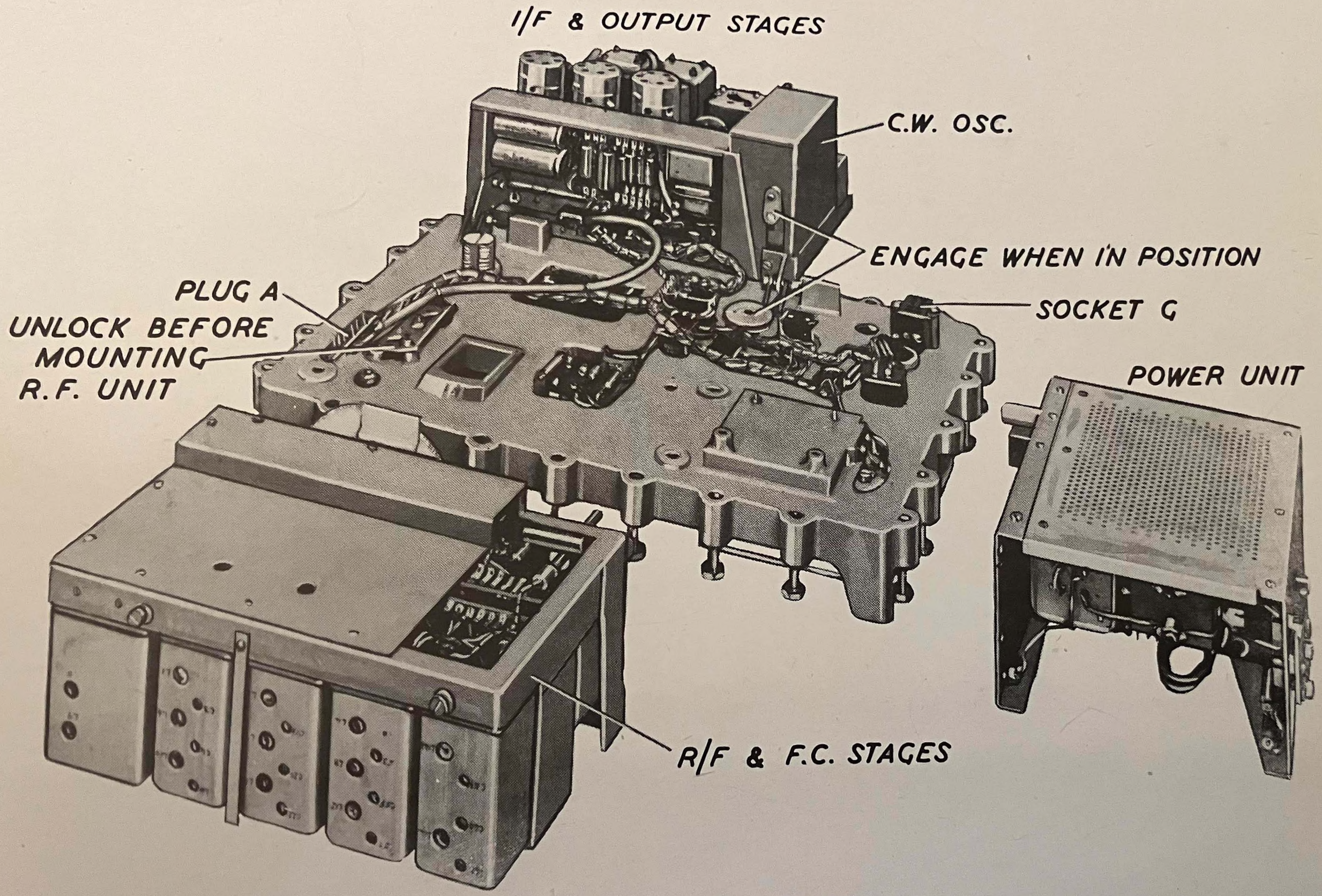


RECEIVER B47

BOTTOM VIEW POWER UNIT REMOVED

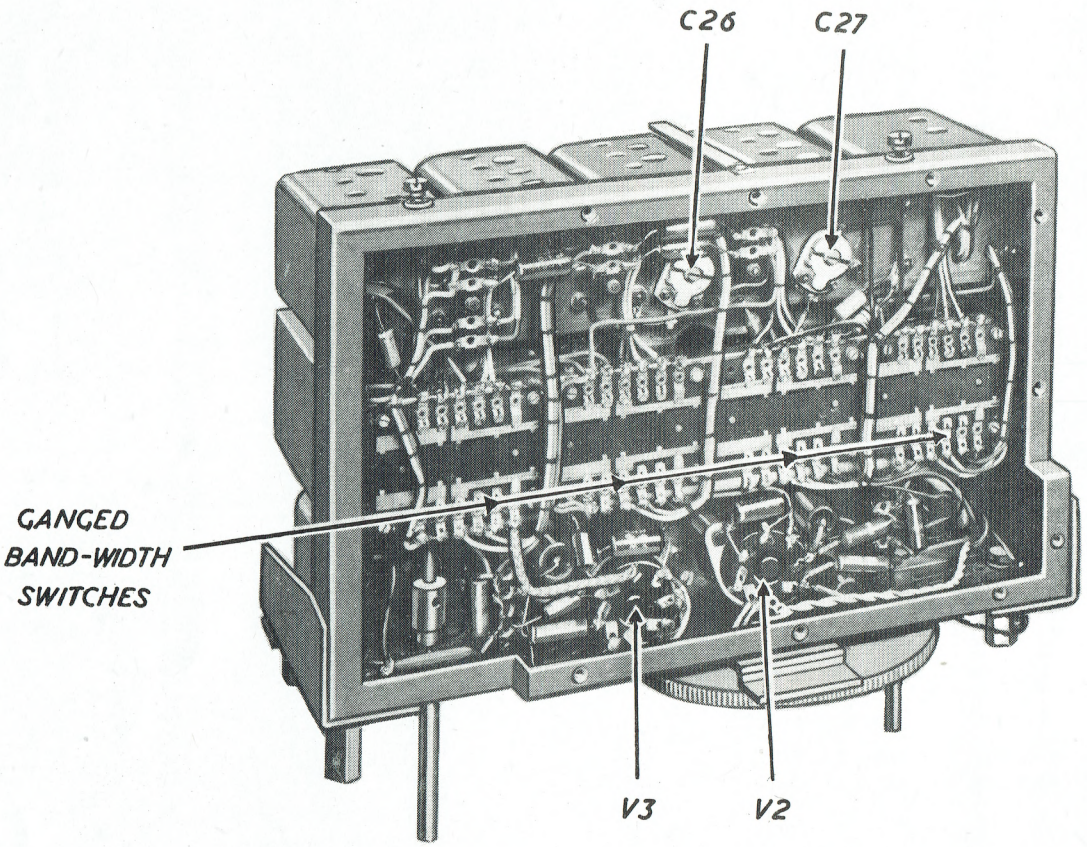


RECEIVER B47
DISMANTLED

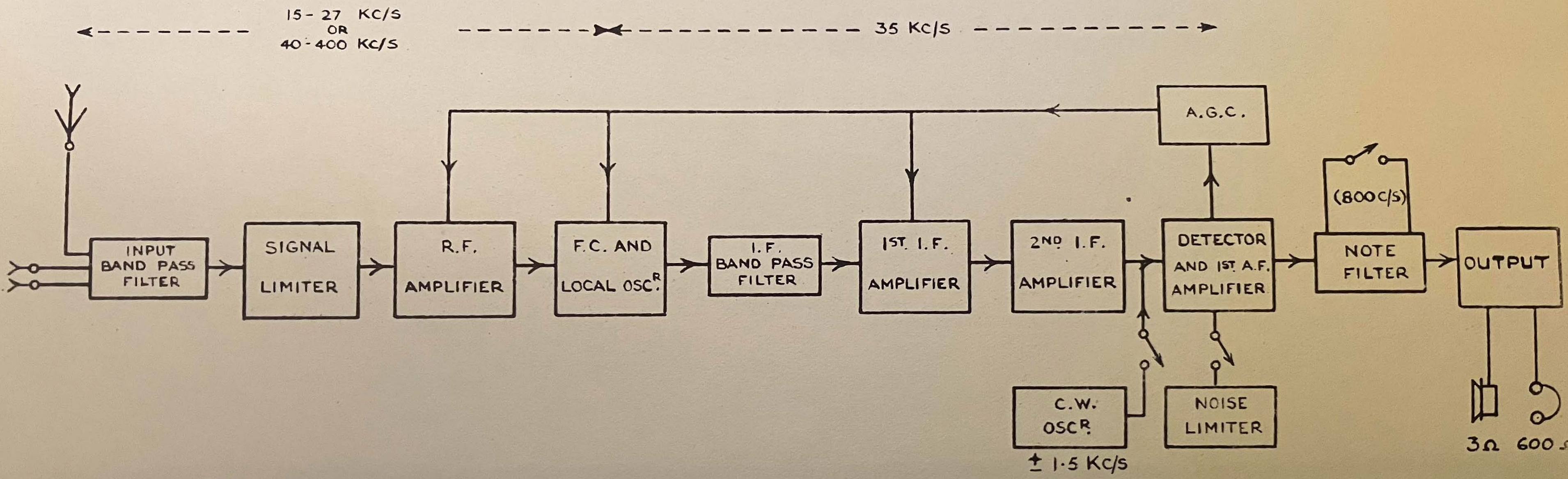


RECEIVER B47

BOTTOM VIEW OF R.F. UNIT (COVER REMOVED)



RECEIVER B47
BLOCK SCHEMATIC

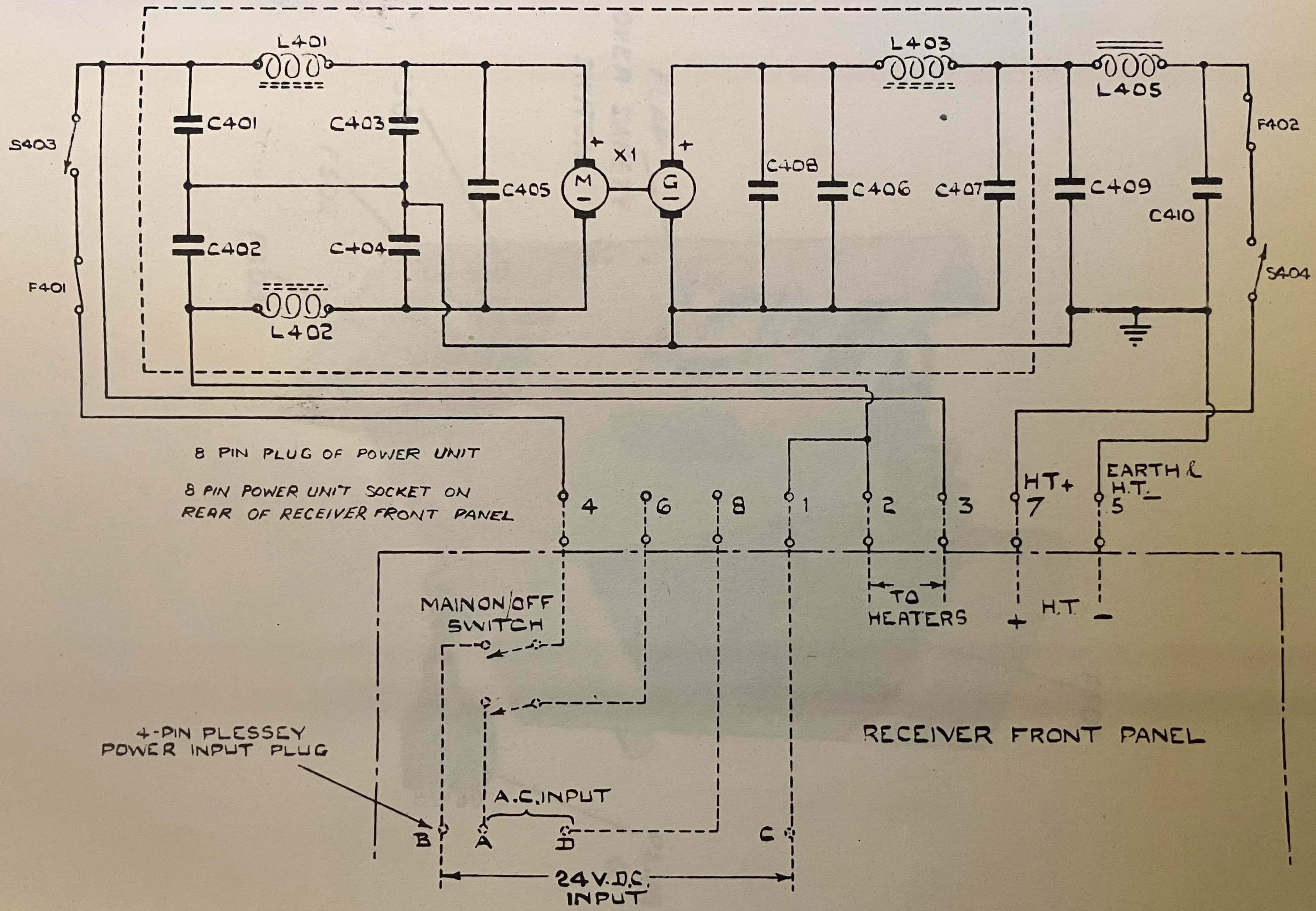


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B 47
BLOCK
SCHEMATIC.

RECEIVER D.C. POWER UNIT.

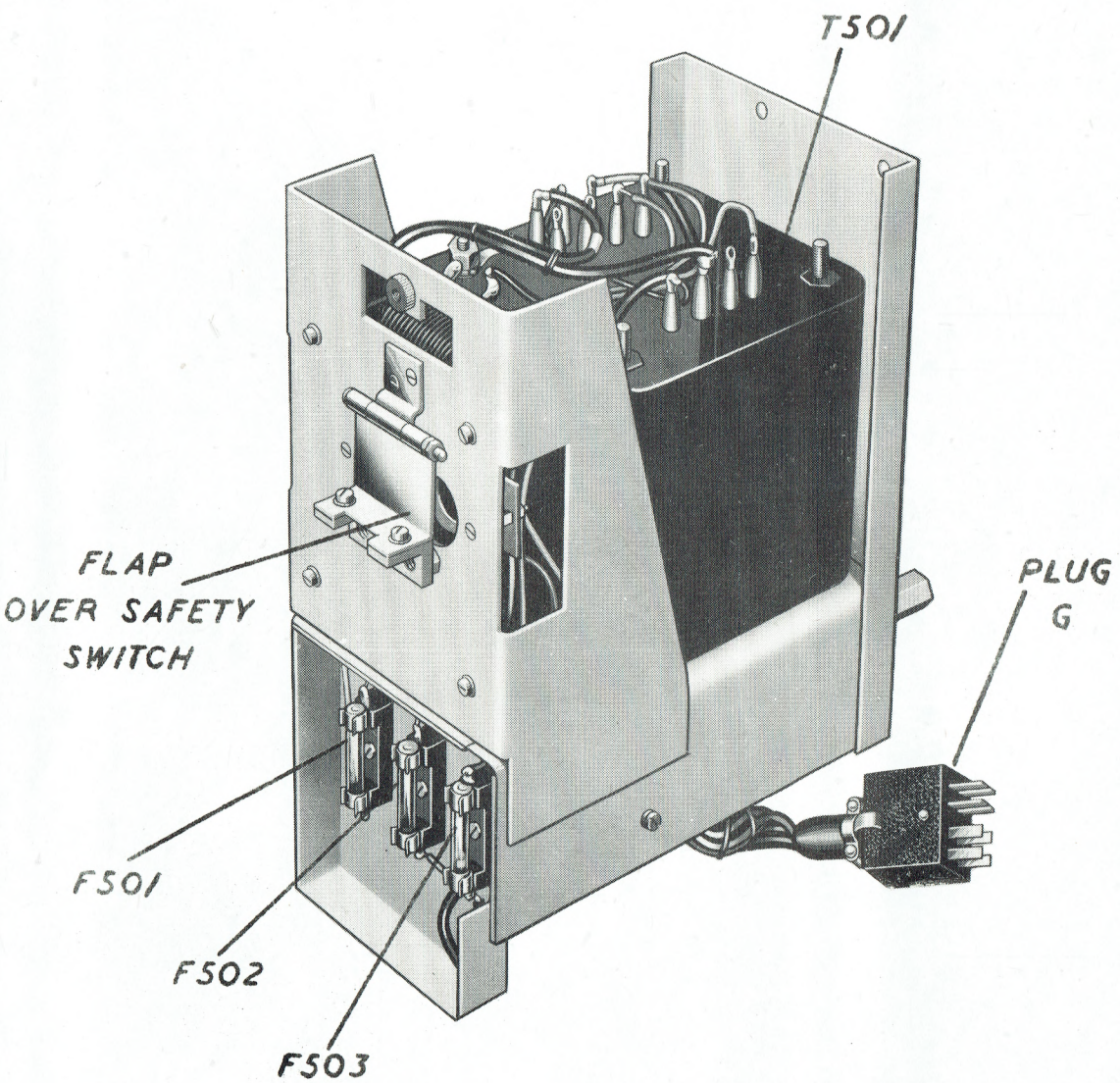
CIRCUIT SCHEMATIC.



REC. D.C. POWER UNIT.

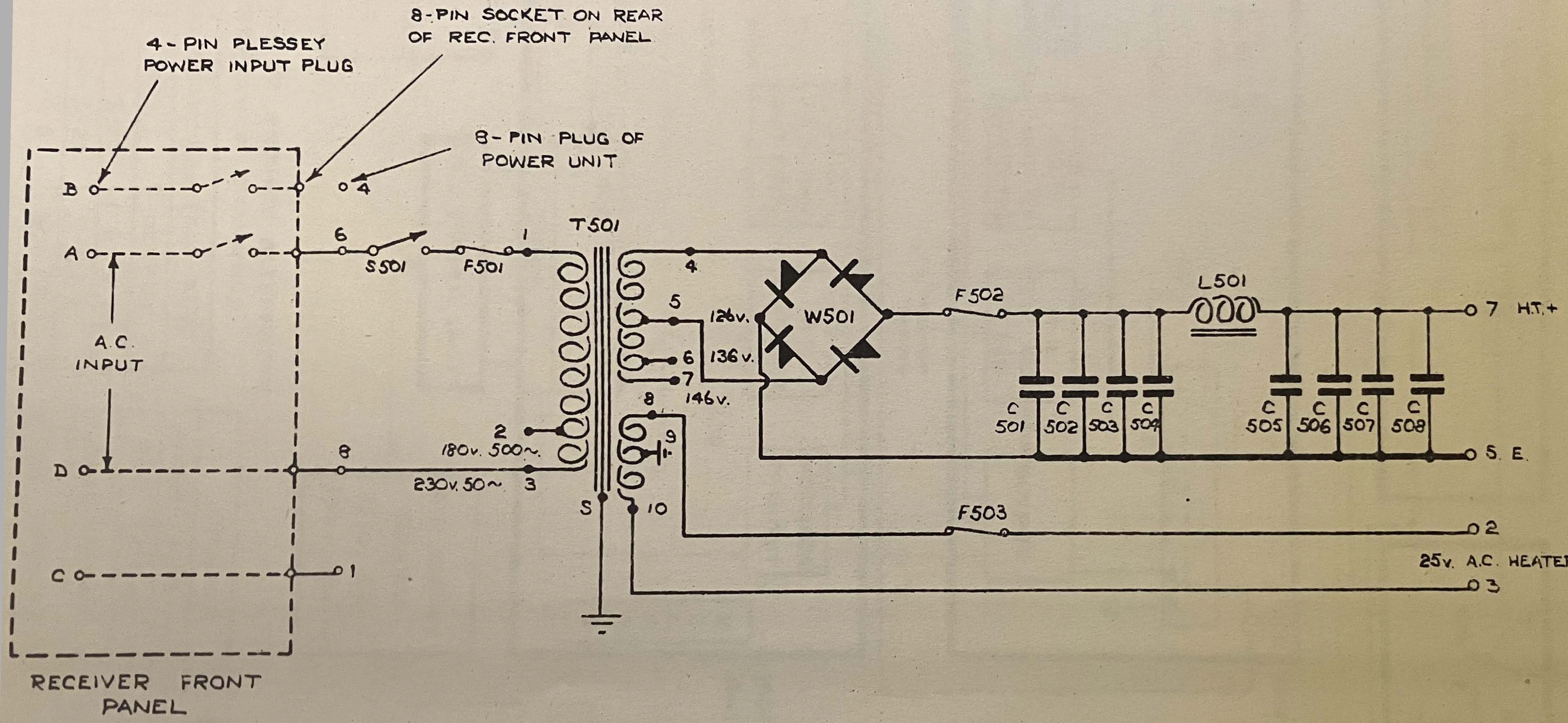
AC POWER UNIT

FOR RECEIVERS B46 AND B47



RECEIVER A.C. POWER UNIT.

CIRCUIT SCHEMATIC.



REC. A.C. POWER SCHEMATIC.

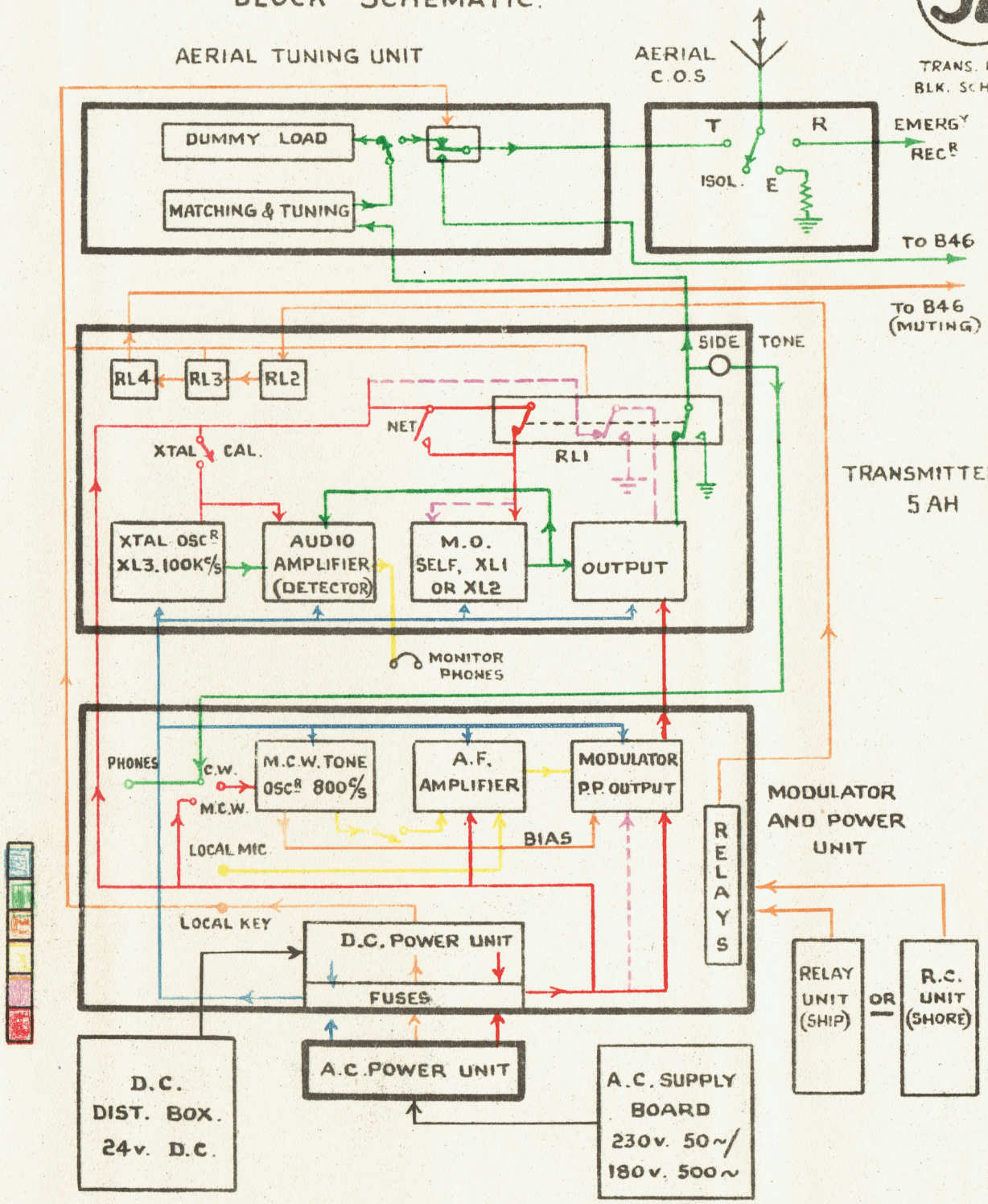
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TRANSMITTER UNITS

BLOCK SCHEMATIC.

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TRANS. UNITS BLK. SCHEM.



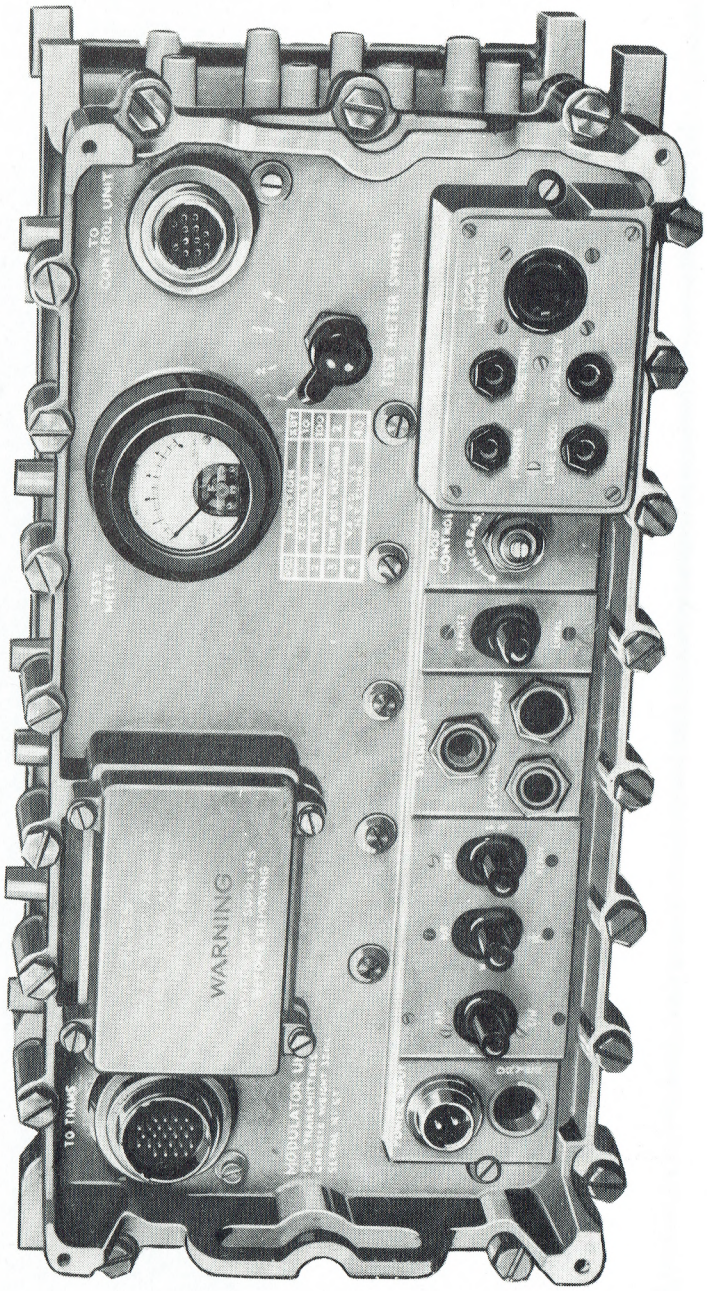
XL1 AND XL2 PROVIDE ALTERNATIVE FREQUENCY CHANNELS.

CRYSTAL SELECTION (XL1 - XL2)		
FREQUENCY	M.O.	OUTPUT
1	1·5 – 3·25	1·5 – 3·25
2	1·5 – 3·25	3 – 6·5
3	3 – 6·5	6 – 13·0

COLOUR CODE	
BROWN	BIAS AND CONTROL CIRCUITS
RED	ANODE H.T. SUPPLY.
PURPLE	SCREEN H.T. SUPPLY.
BLUE	HEATER AND FILAMENT SUPPLY
GREEN	R.F. CIRCUITS
YELLOW	MODULATION CIRCUITS

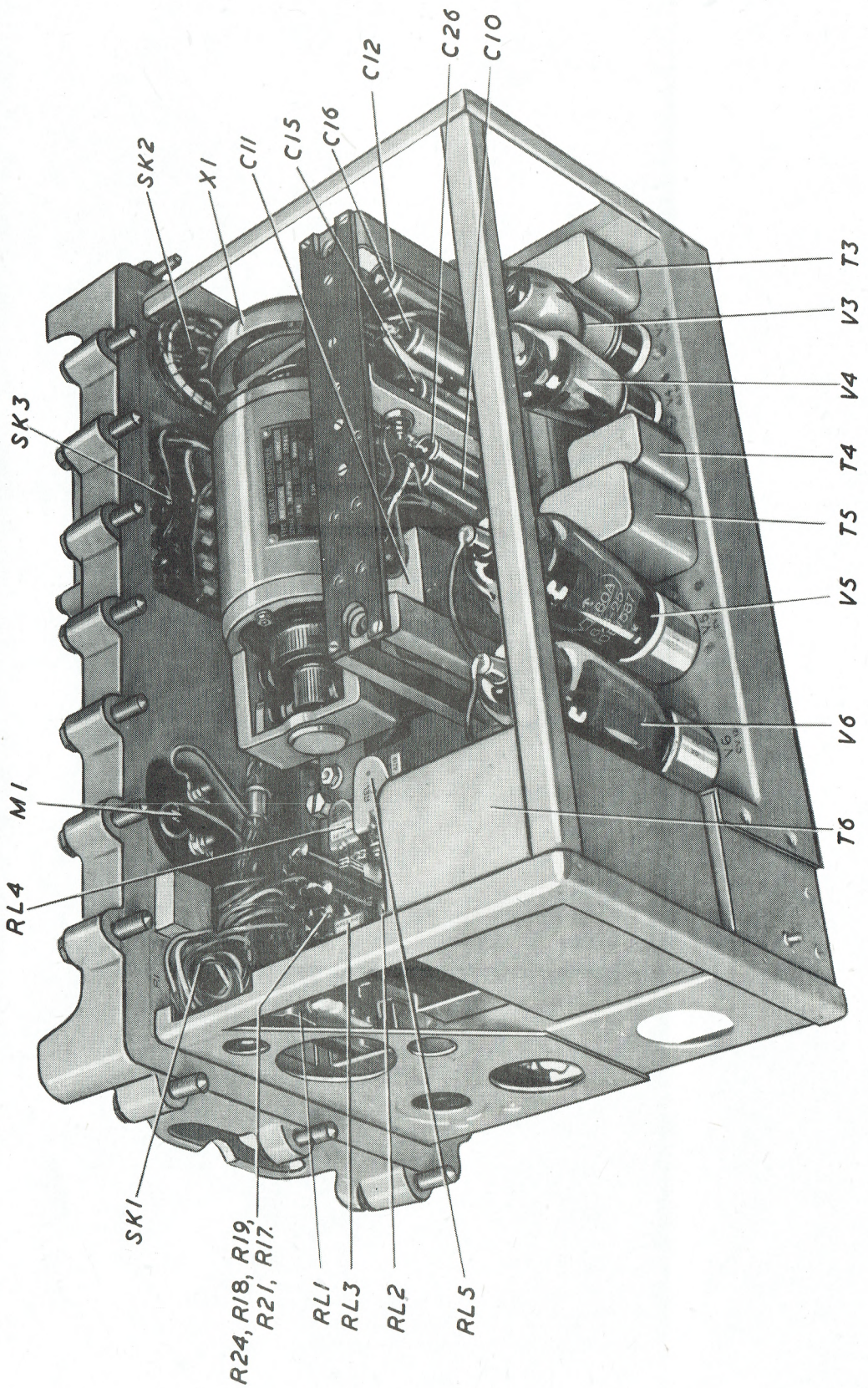
MODULATOR AND POWER UNIT

FRONT VIEW



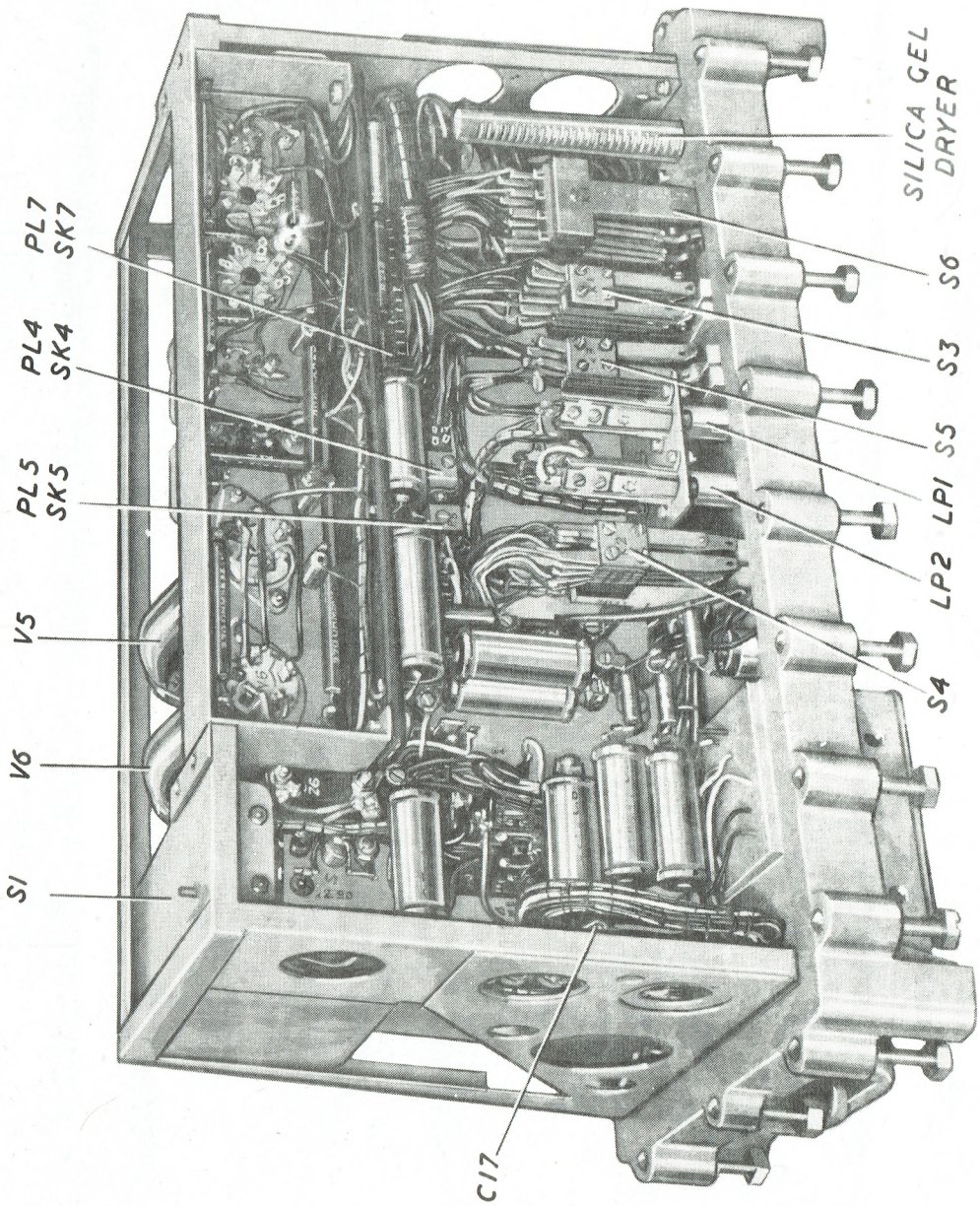
MODULATOR & POWER UNIT

TOP VIEW



MODULATOR & POWER UNIT

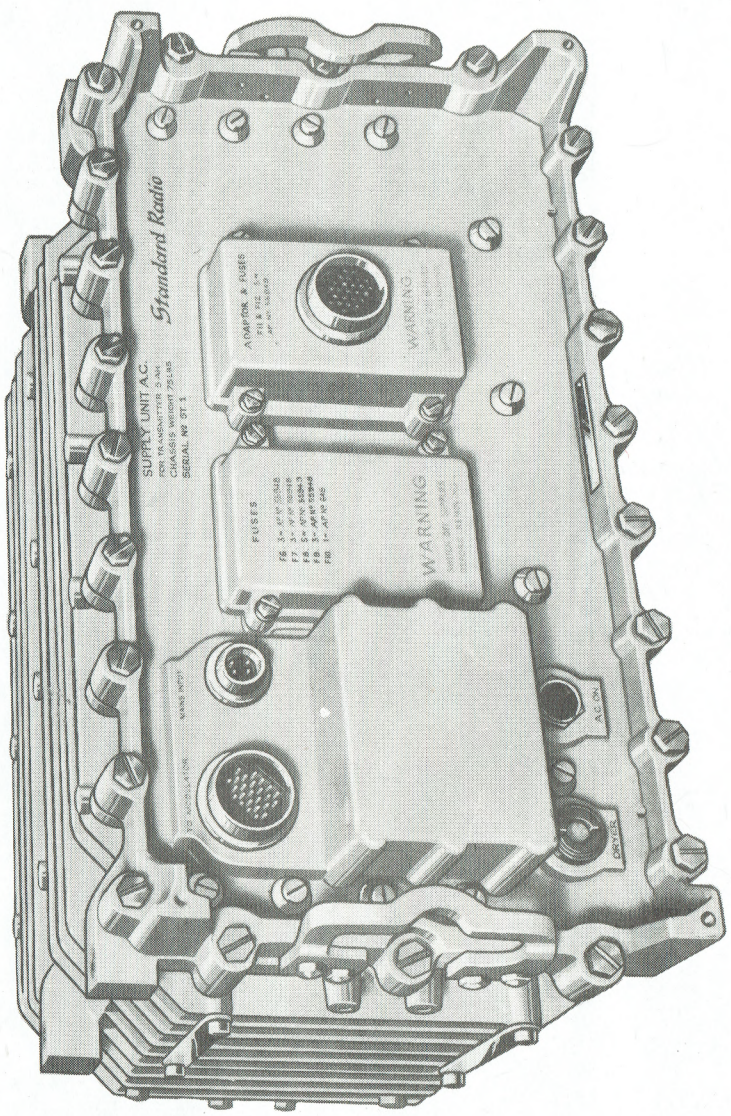
BOTTOM VIEW



TRANSMITTER A.C. POWER UNIT

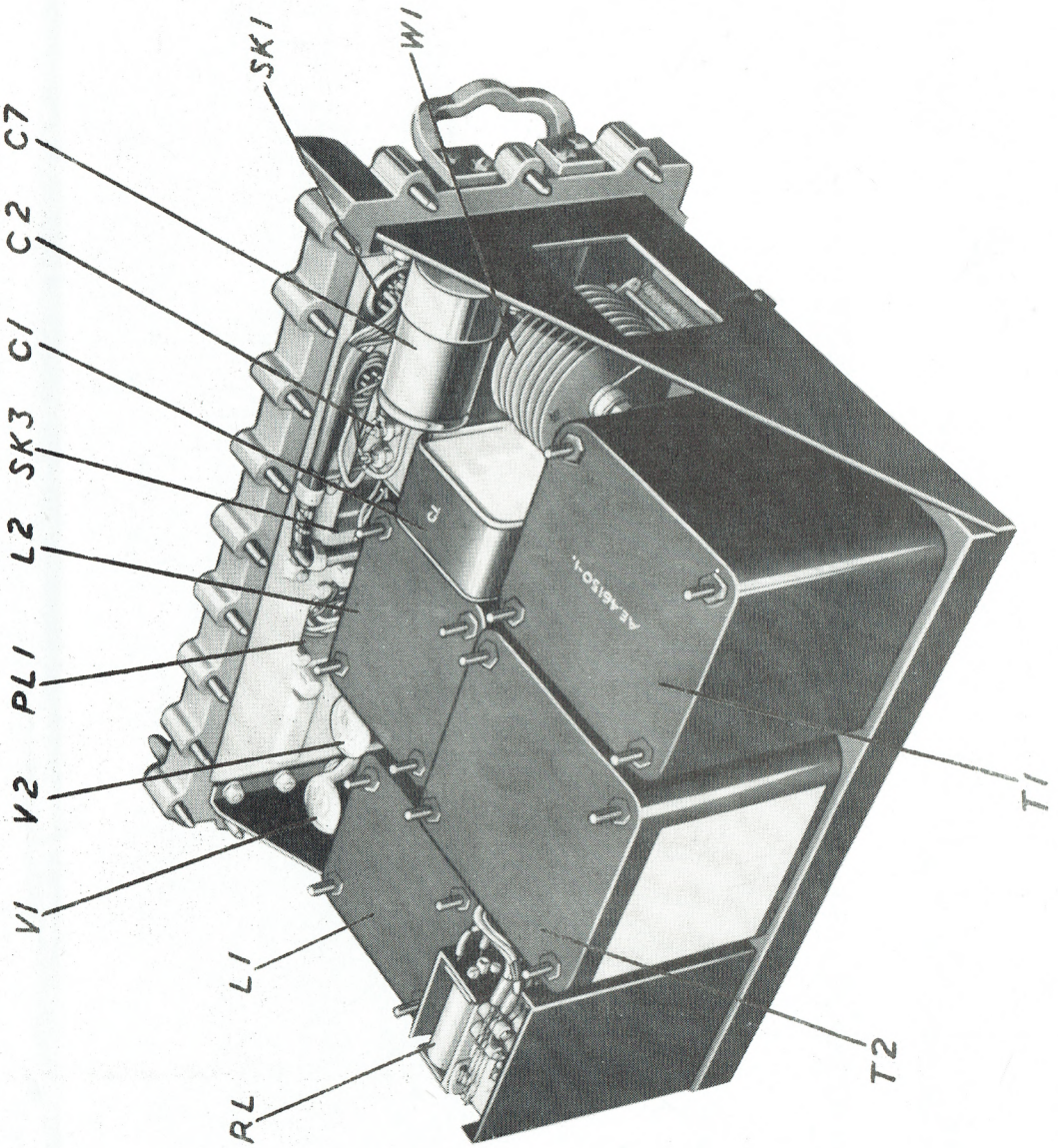
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FRONT VIEW



TRANSMITTER A.C. POWER UNIT

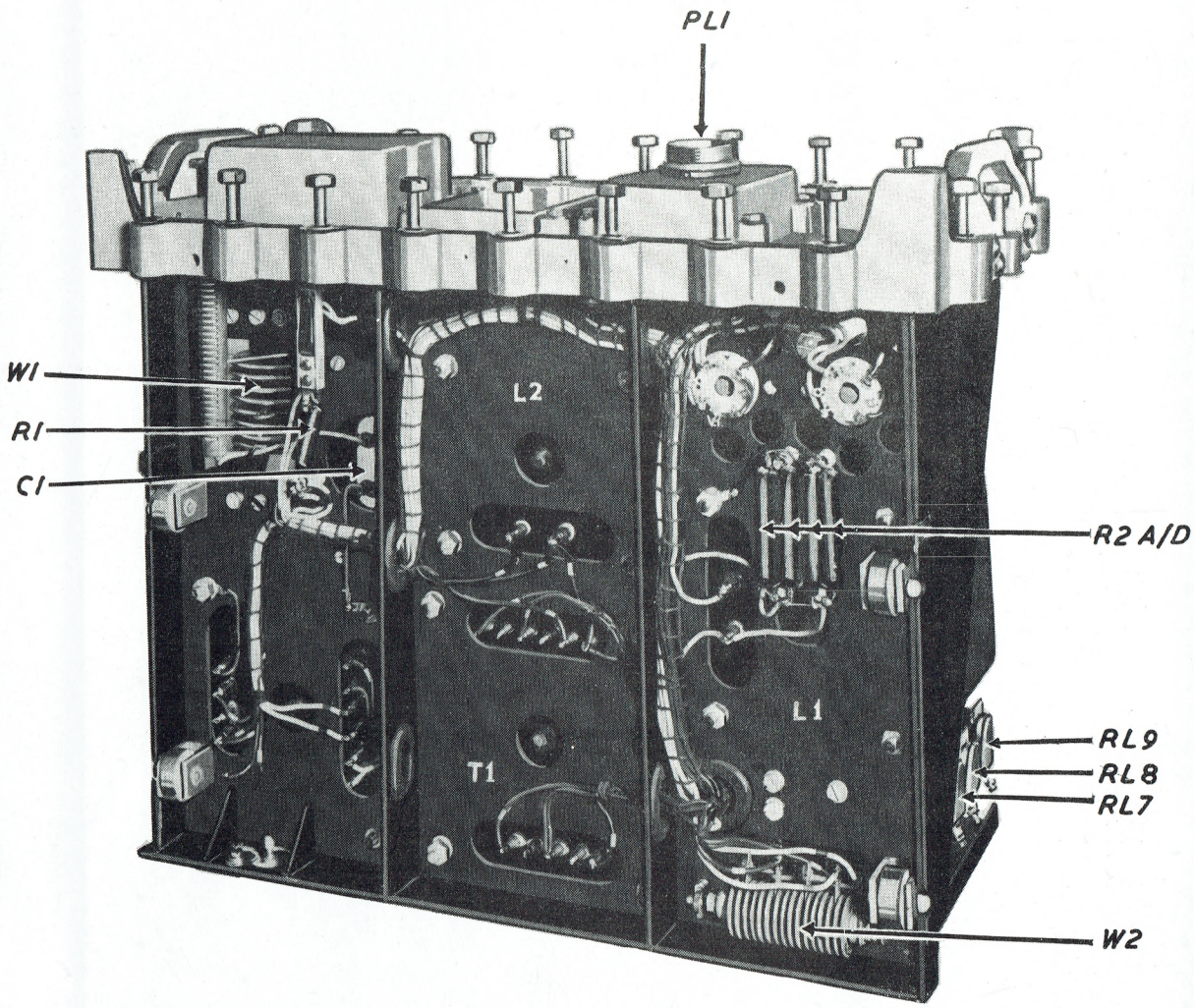
TOP VIEW



TRANSMITTER A.C. POWER UNIT

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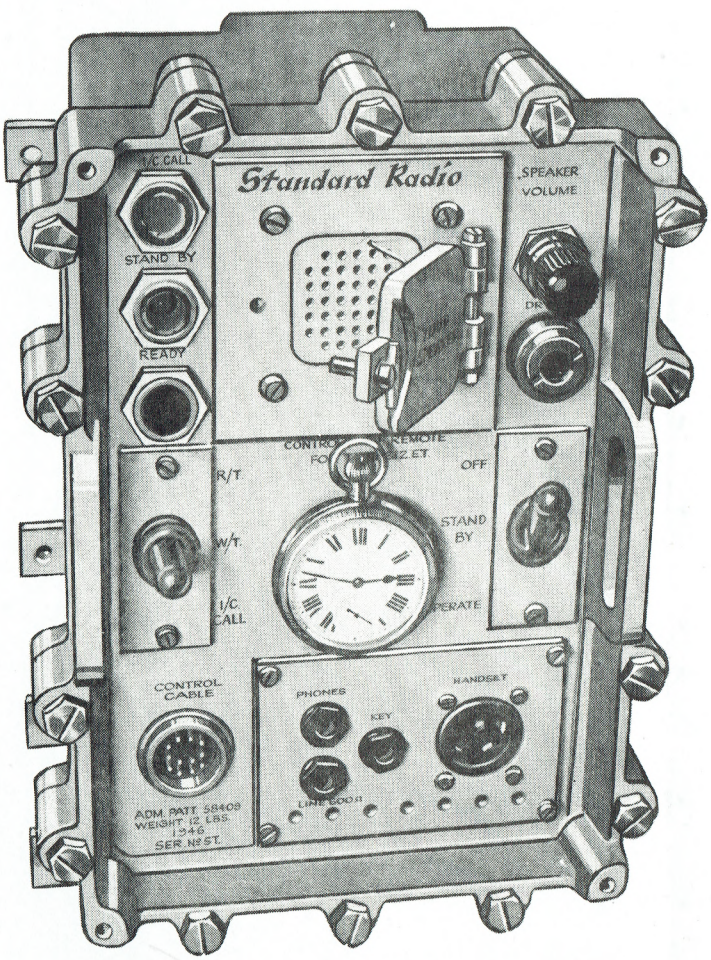
BOTTOM VIEW



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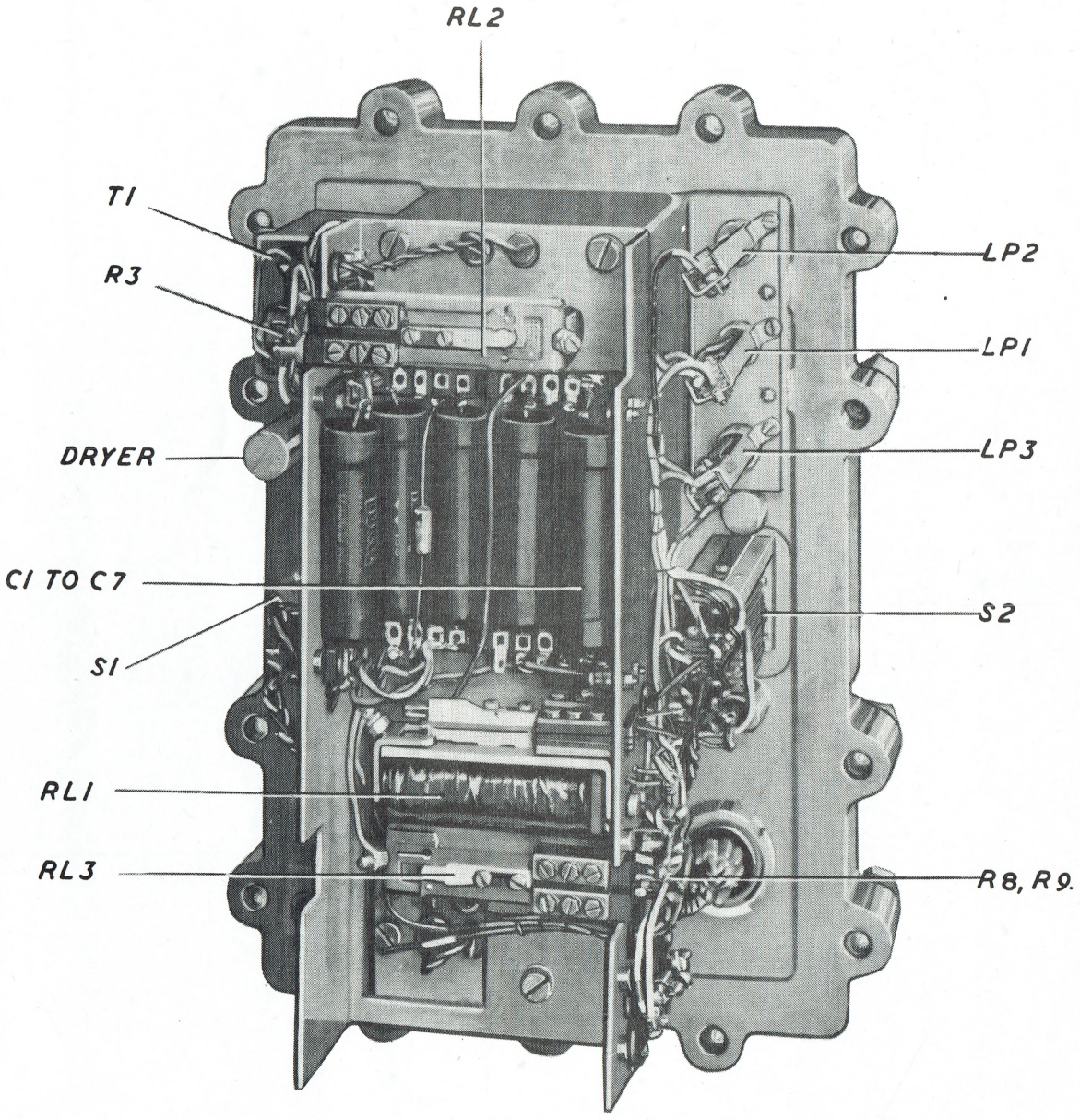
REMOTE CONTROL UNIT

FRONT VIEW



REMOTE CONTROL UNIT

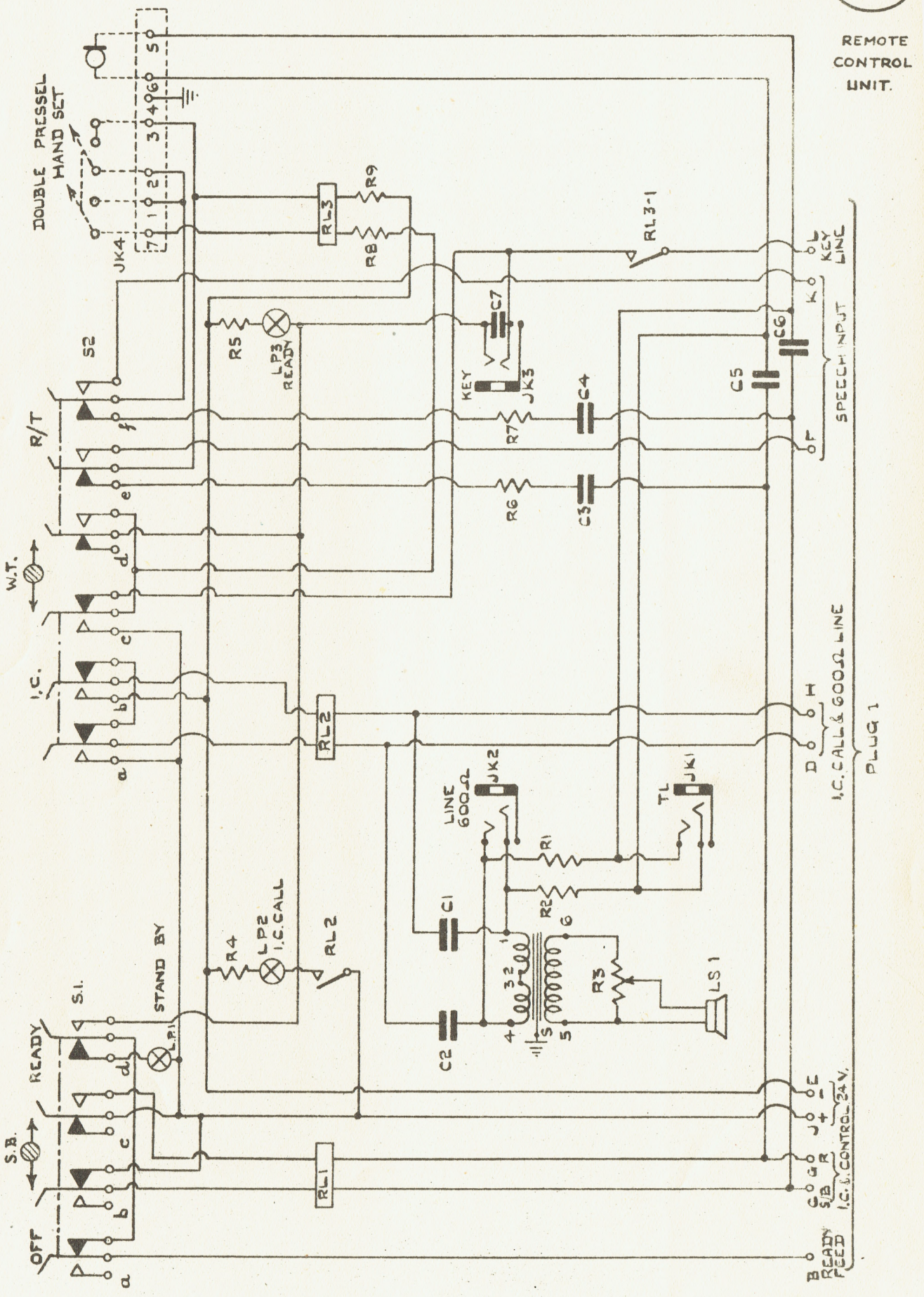
REAR VIEW



REMOTE CONTROL UNIT
CIRCUIT SCHEMATIC.

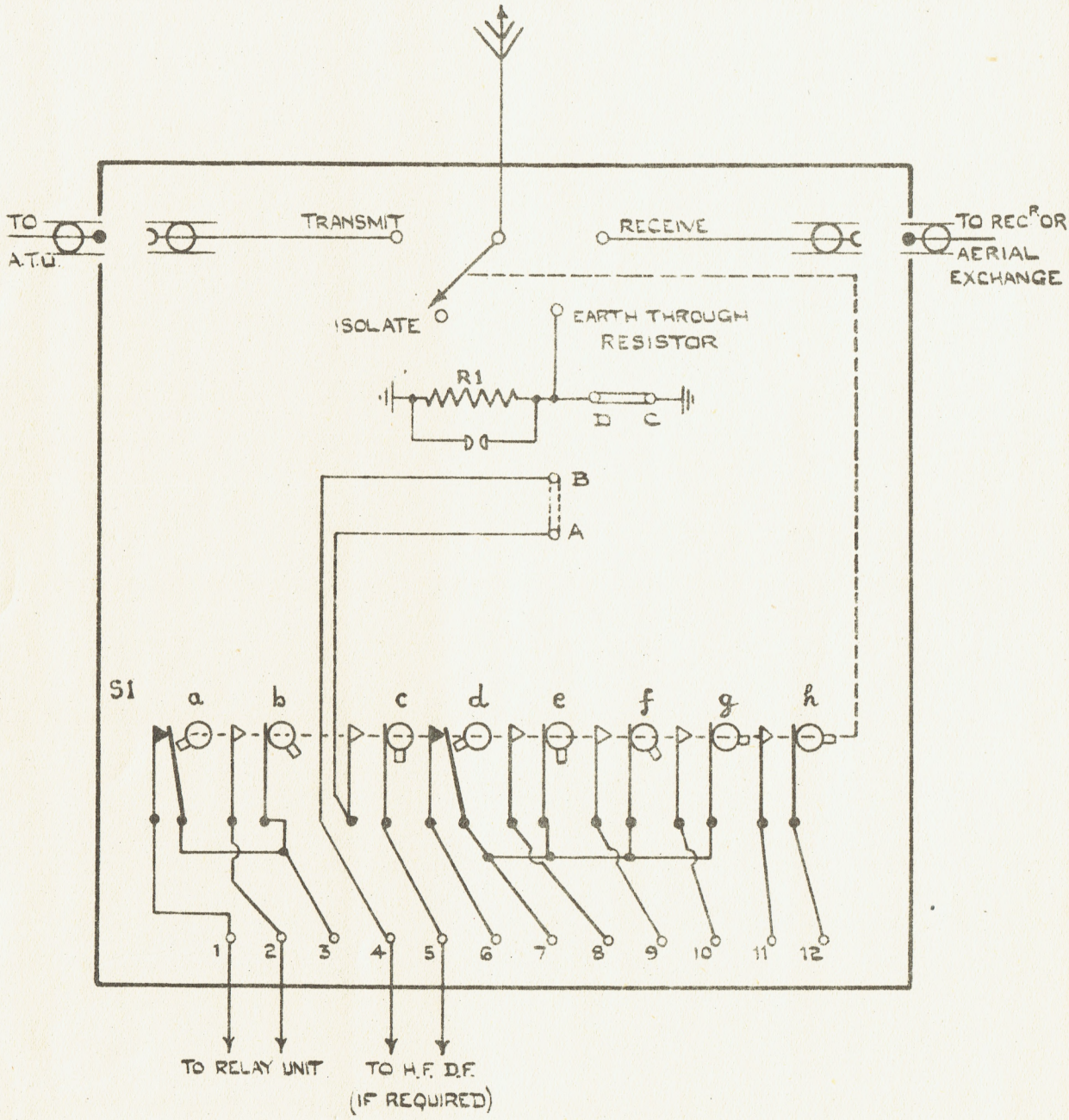
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REMOTE CONTROL UNIT.



AERIAL C.O.S.

CIRCUIT SCHEMATIC



LINK ACROSS A-B FOR SHIPS WITH H.F. D.F.

" " C-D " " NOT FITTED WITH H.F. D.F.