The VMARS Archive

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Q How can you copyright a document that is already in the public domain?

A. *Plainly the original copyright of the content has expired, or we have obtained permission to copy them. What we copyright is our own edition of the document.*

Q. Surely your "own edition" is identical to the original document, so cannot be copyrighted?

A. *Our editions are **not** identical to the original document. You will find that full advantage has been taken of electronic publishing facilities, so pages are cleaned up where possible (rendering them better than originals in some cases!), and large diagrams are prepared for both on-screen viewing and for easy printing at A4 format.*

Q. Why do you not just give your manuals away, as so many do via the internet these days?

A. *We do make all our manuals available free of charge (in soft copy) to VMARS members. These members have already covered the costs of running the archive via their subscriptions. The only time members are charged for copies is when they request them on paper, in which case charges are restricted to the cost of paper, ink and postage.*

The VMARS archive is not a "shoe-string" operation. Money is spent on computing facilities to make copies available, and on shipping original documents securely (usually costing several pounds per shipment) to carry out the scanning. As members have already contributed to these costs, it is only reasonable that non-members should do likewise – and thus a very moderate charge is levied for copies provided to non-members. With typical commercial photocopying charges starting at 5 pence per A4 side, it will be evident that paying 4 pence for our equivalent on paper is excellent value (amounts current at Spring 2004). We also think "you get what you pay for" – we invite you to make the comparison and draw your own conclusions!

Despite the above, we will be making copies of essential technical information (circuit diagram, parts list, layout) freely available to all via our website from late 2004 onwards. This will be done to try and encourage and enable the maintenance of our remaining stock of vintage electronic equipment.

Guidance on using this electronic document

Acrobat Reader version

You need to view this document with Acrobat Reader **version 5.0** or later. It is possible that the document might open with an earlier version of the Acrobat Reader (thus allowing you to get this far!), but is also likely that some pages will not be shown correctly. You can upgrade your Acrobat Reader by direct download from the internet at http://www.adobe.com/products/acrobat/readermain.html or going to http://www.adobe.com/ and navigating from there.

Don't miss the index!

This document has had "bookmarks" added – which provide you with an "on-screen index". These allow you to quickly move to particular parts of the document, a numbered section or maybe the circuit diagrams for instance, merely by clicking on the page title. Click on the "Bookmarks" tab on the left hand side of the Acrobat Viewer window to access this feature – move the cursor over these titles and notice it change shape as you do so. Click on any of these titles to move to that page.

Large diagrams

The large diagrams are given in two formats – in A4 size sheets to allow easy printing, and complete as originally published to allow easy on-screen viewing. These versions are in different sections of the document, which can be found within the bookmarks.

Printing the document on an A4 format printer

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1. Work out the page numbers you want to print. If you want to print the whole document, then within "Bookmarks" (see above), first click on "**Front**", and note the page number given at the bottom of the Acrobat window – this will give you the page number of the first page to be printed. Similarly click on "**End of A4 printable copy**", to determine the last page to be printed.

2. Select "File – Print" or click on the printer icon. This will bring up the print dialog box.

3. Select the correct printer if necessary.

4. In the area marked "Print Range" click on the radio button marked "Pages from..", then enter the first and last page numbers worked out in step 1 into the "from" and "to" boxes.

5. In the "Page Handling" area, next to "Page Scaling", select "Fit to paper". The press "OK"

Note that the document is set up for double-sided printing – if you print it out single-sided then you will find a number of blank pages present, which may be removed and reused.

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Any other problems?

Please get in touch with me at archivist@vmarsmanuals.co.uk.

Richard Hankins, VMARS Archivist, Summer 2004

RESTRICTED

B.R.1616(2)

HANDBOOK FOR TYPE 612 SERIES

VOLUME II

DIAGRAMS

1948

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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,

J. 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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TEMPORARY SHORE STATION

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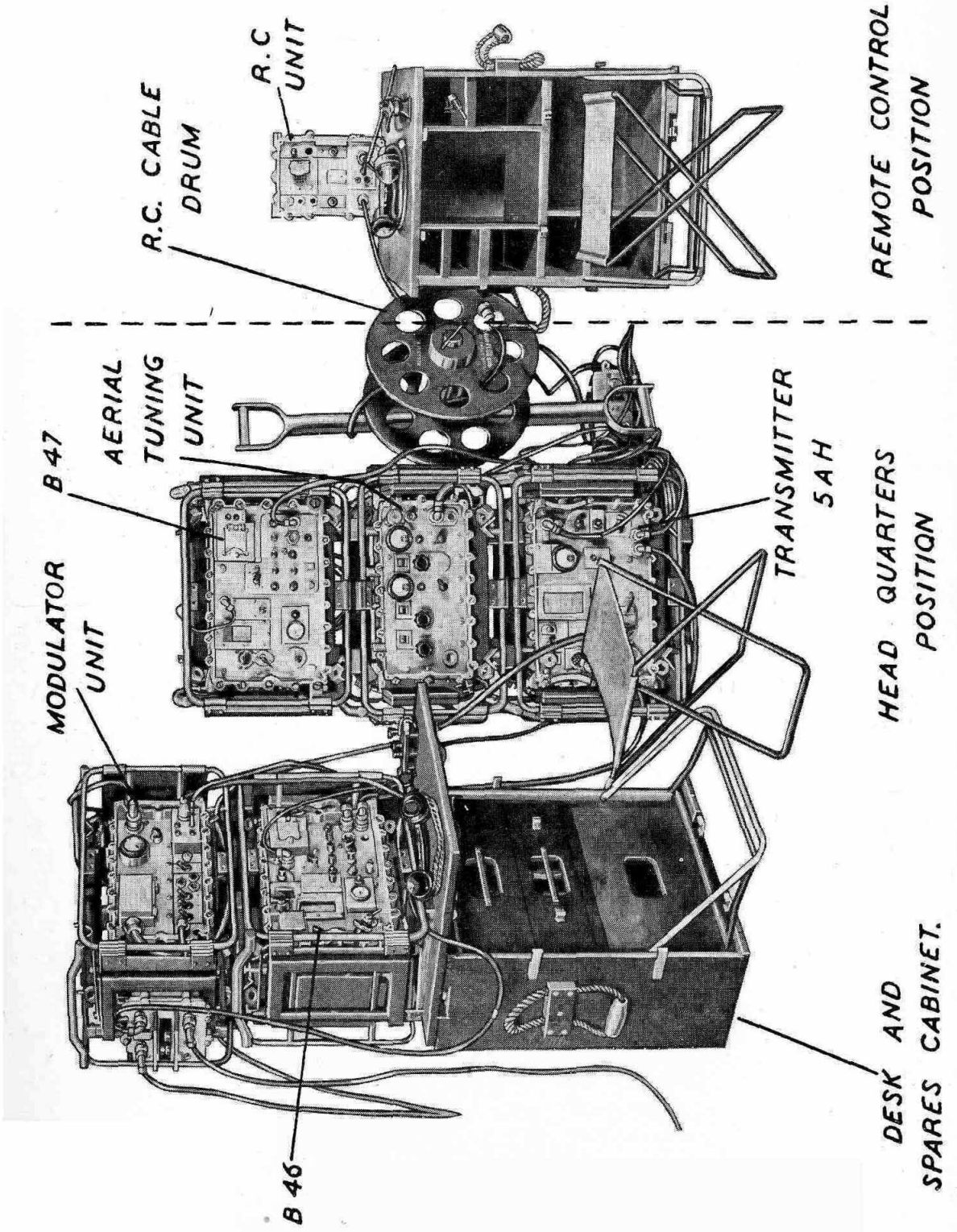

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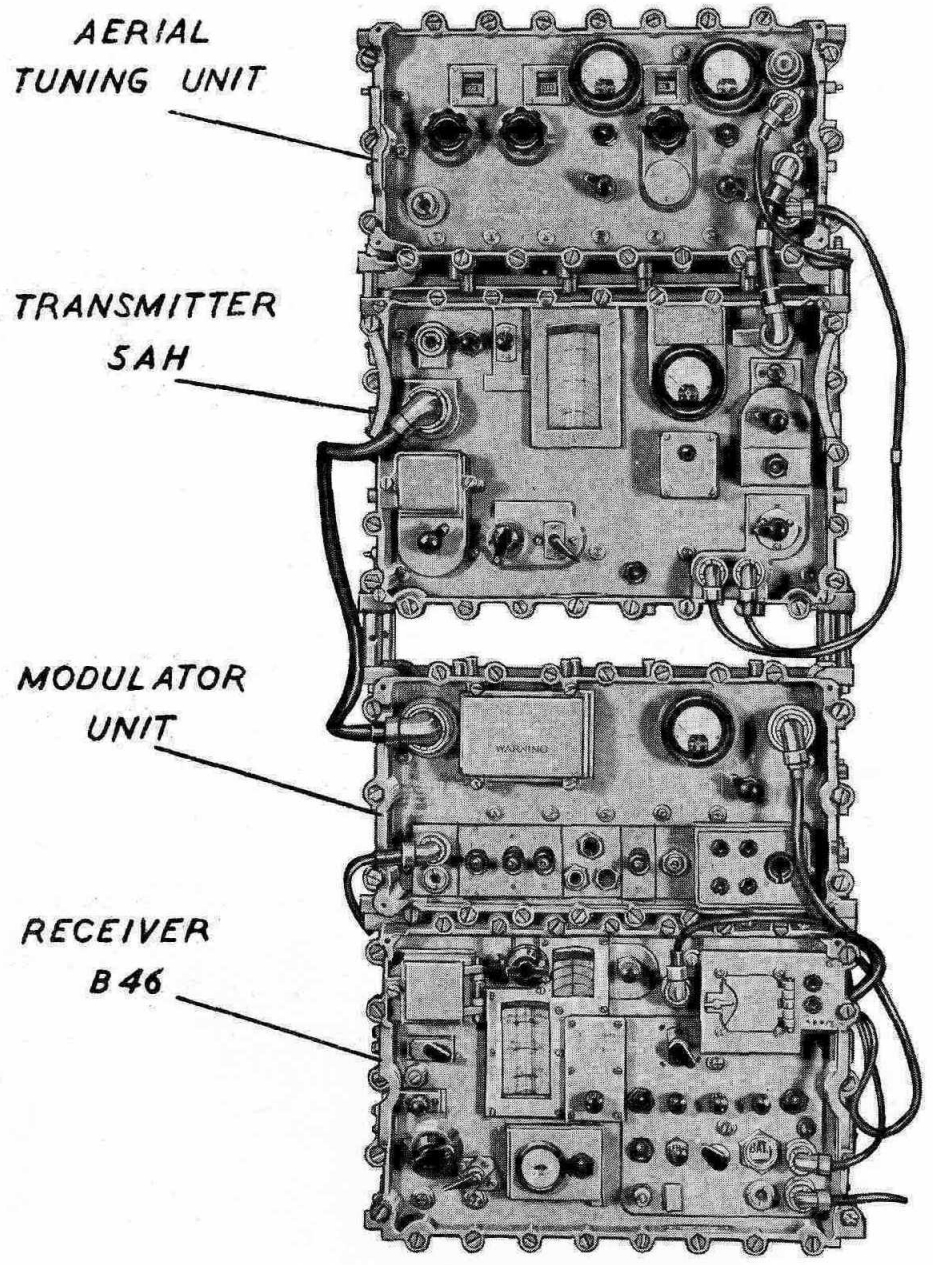

TYPICAL ARRANGEMENT

COASTAL CRAFT EQUIPMENT

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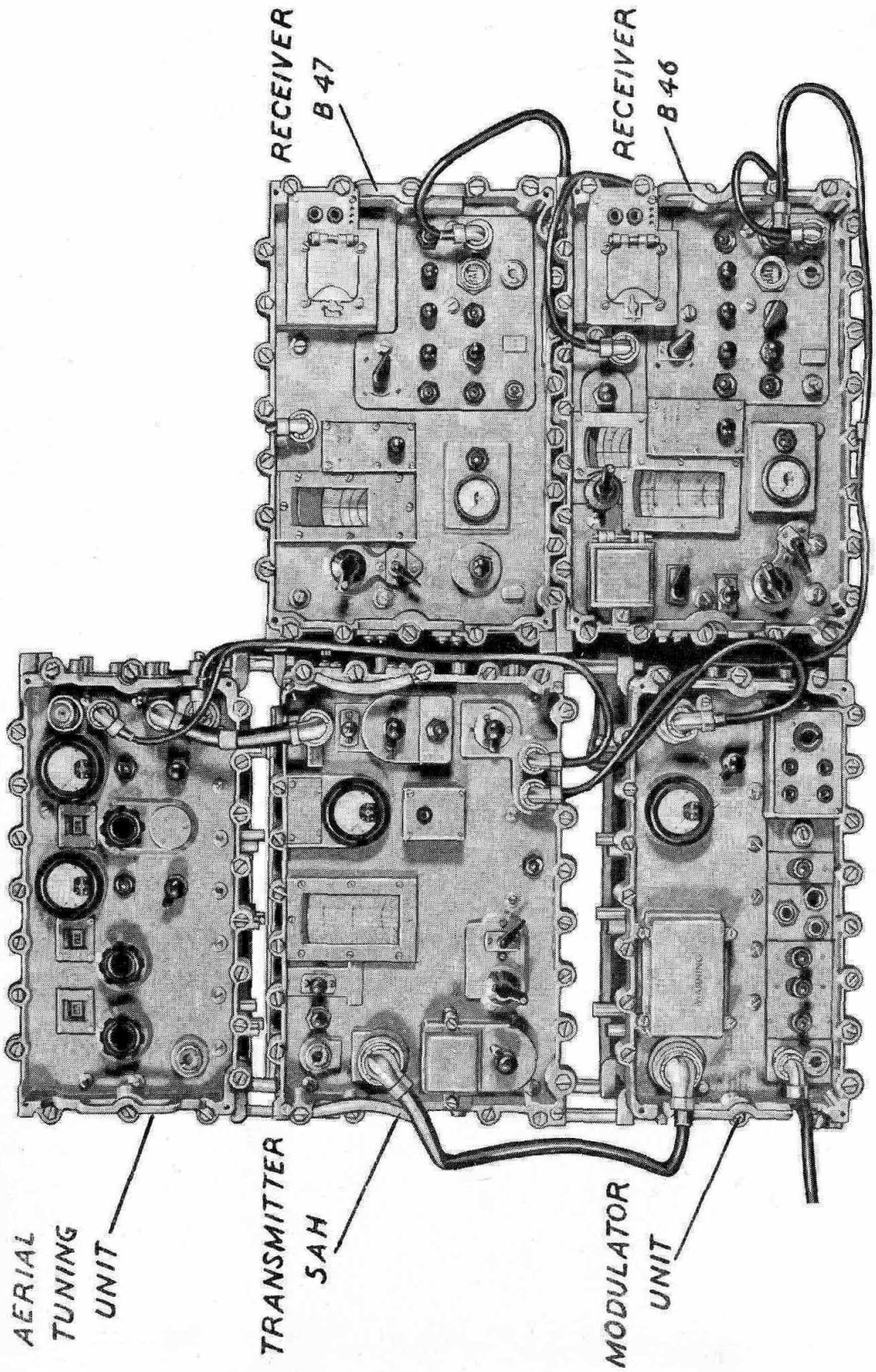

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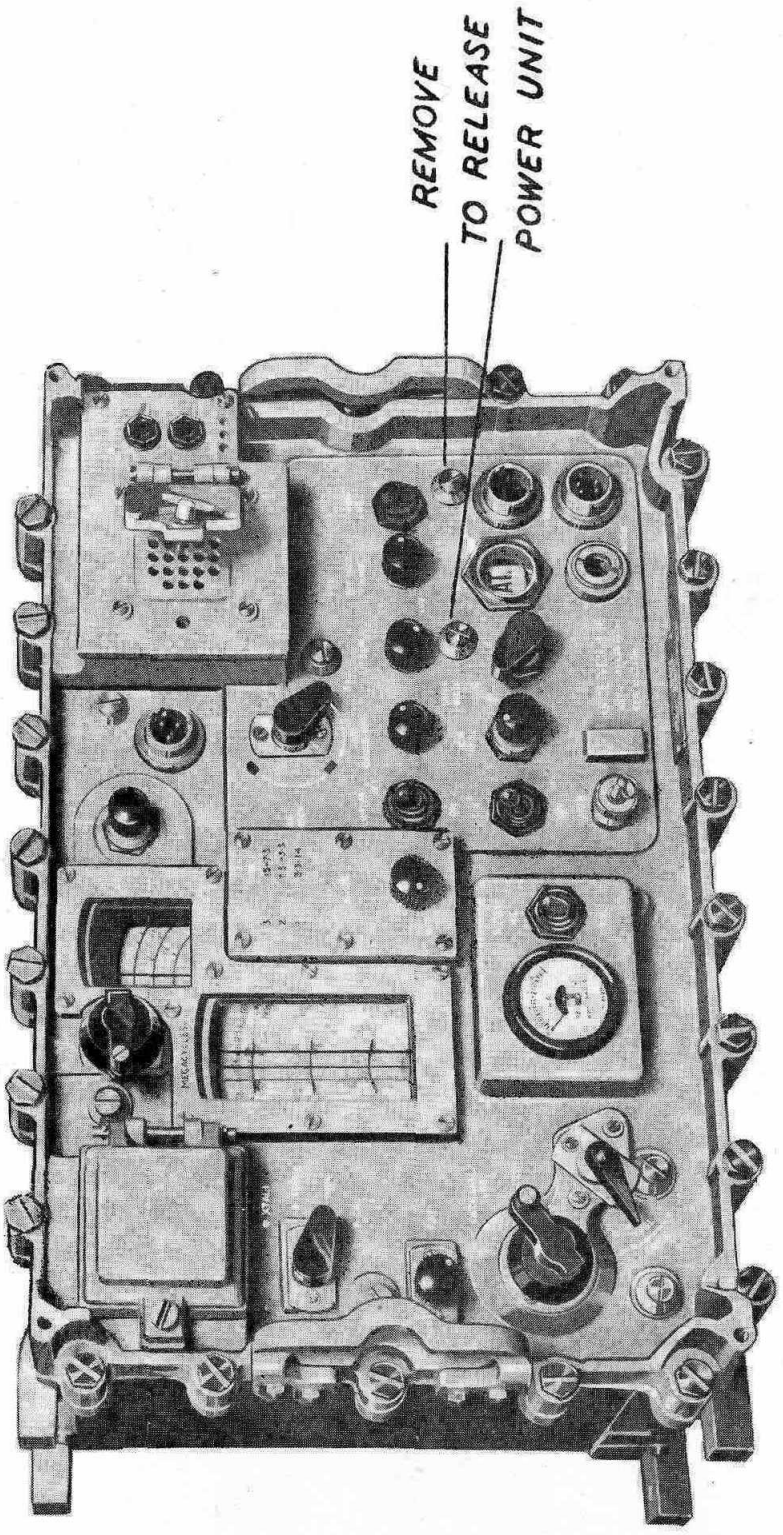

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TOP VIEW

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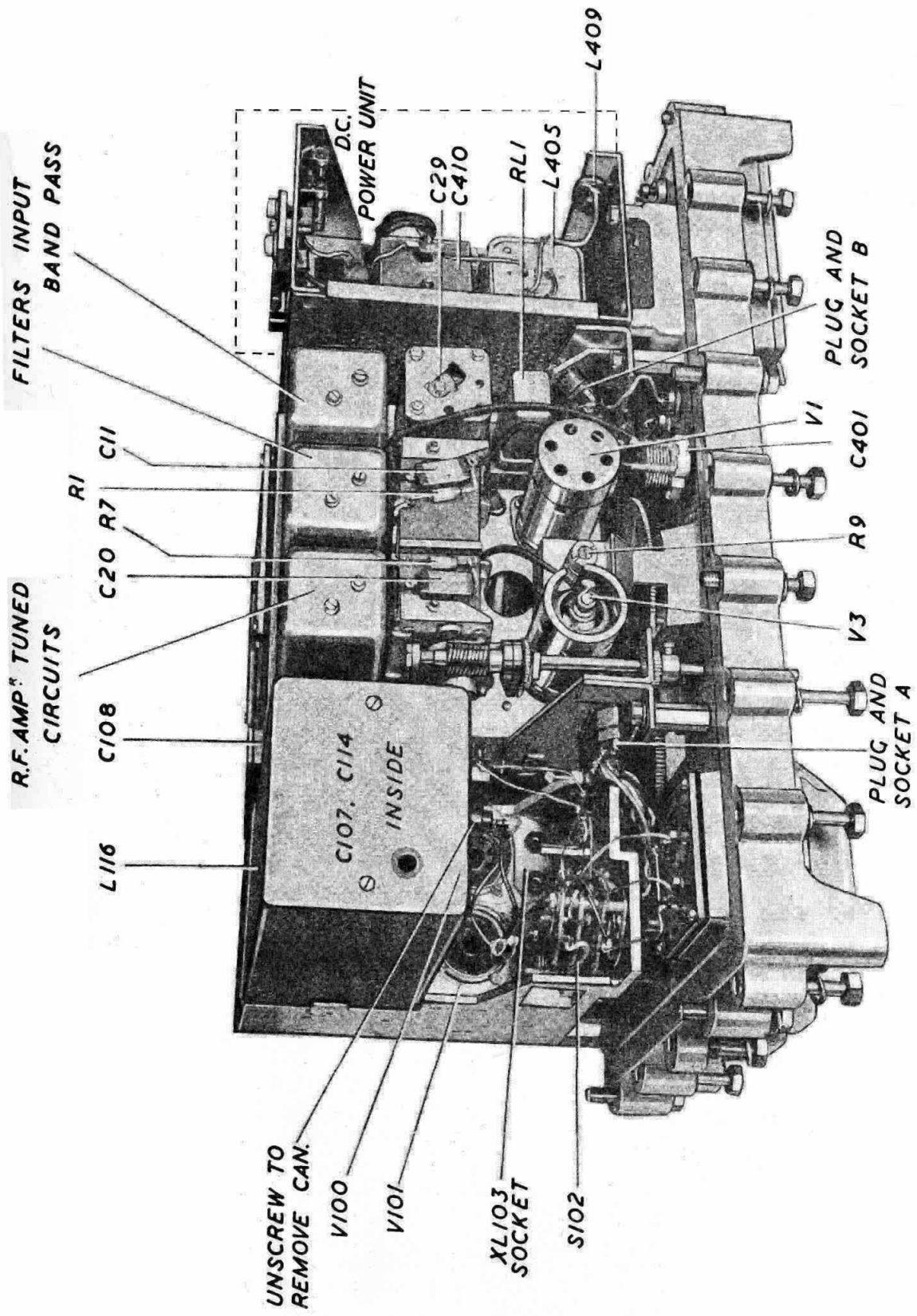

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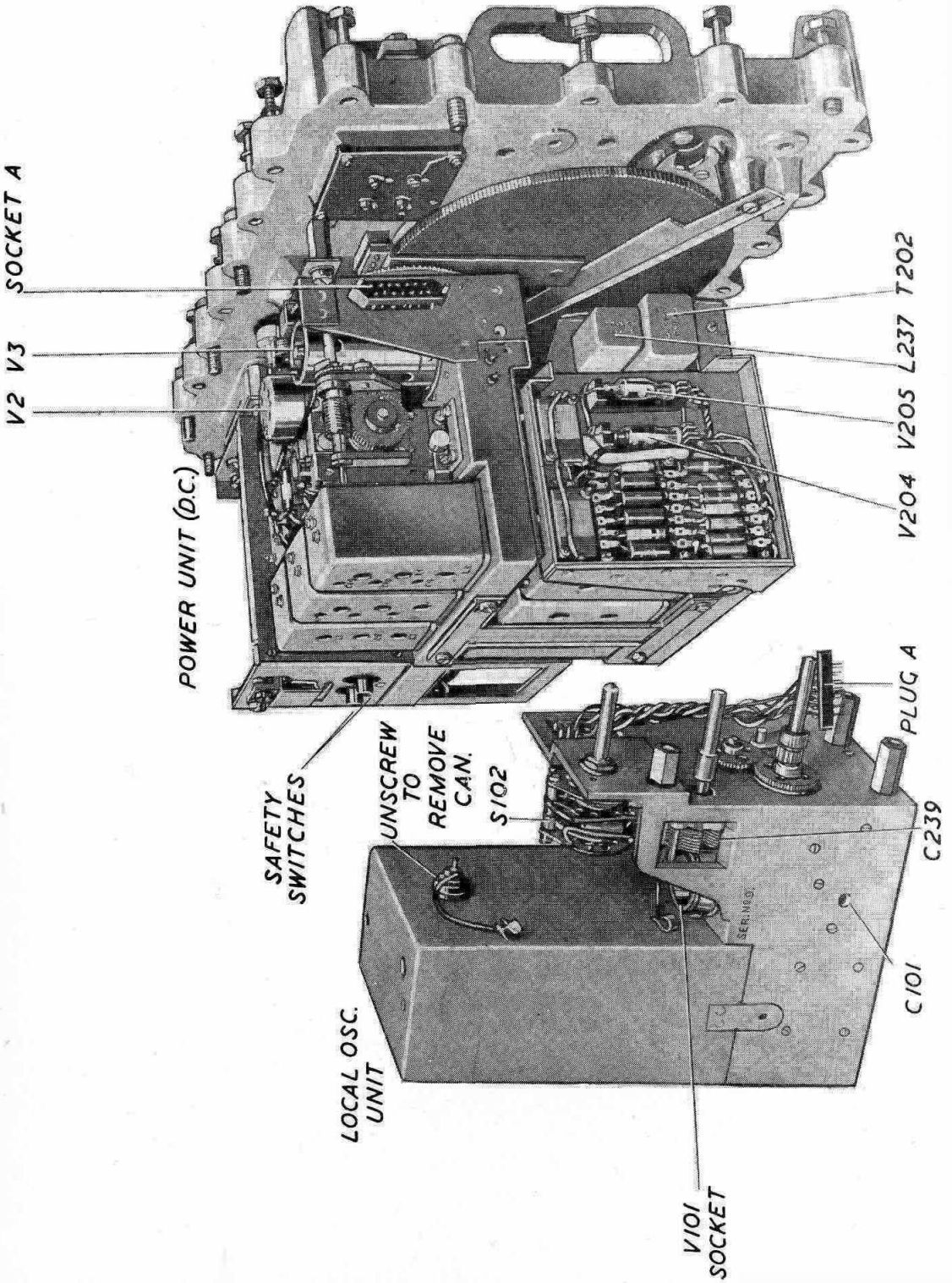
TOP VIEW WITH LOCAL OSC. REMOVED



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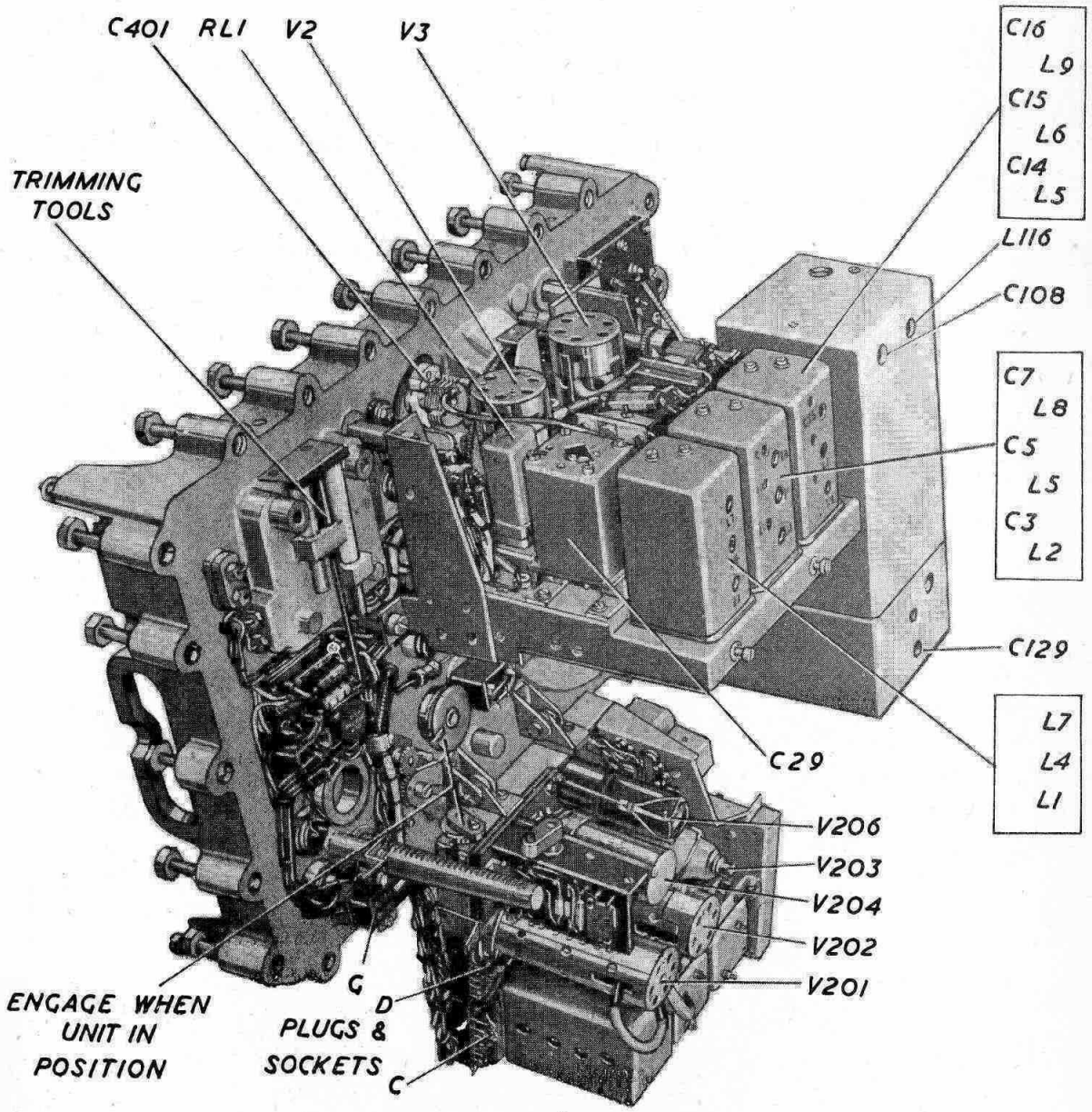
POWER UNIT REMOVED: I.F. AMPLIFIER HINGED DOWN



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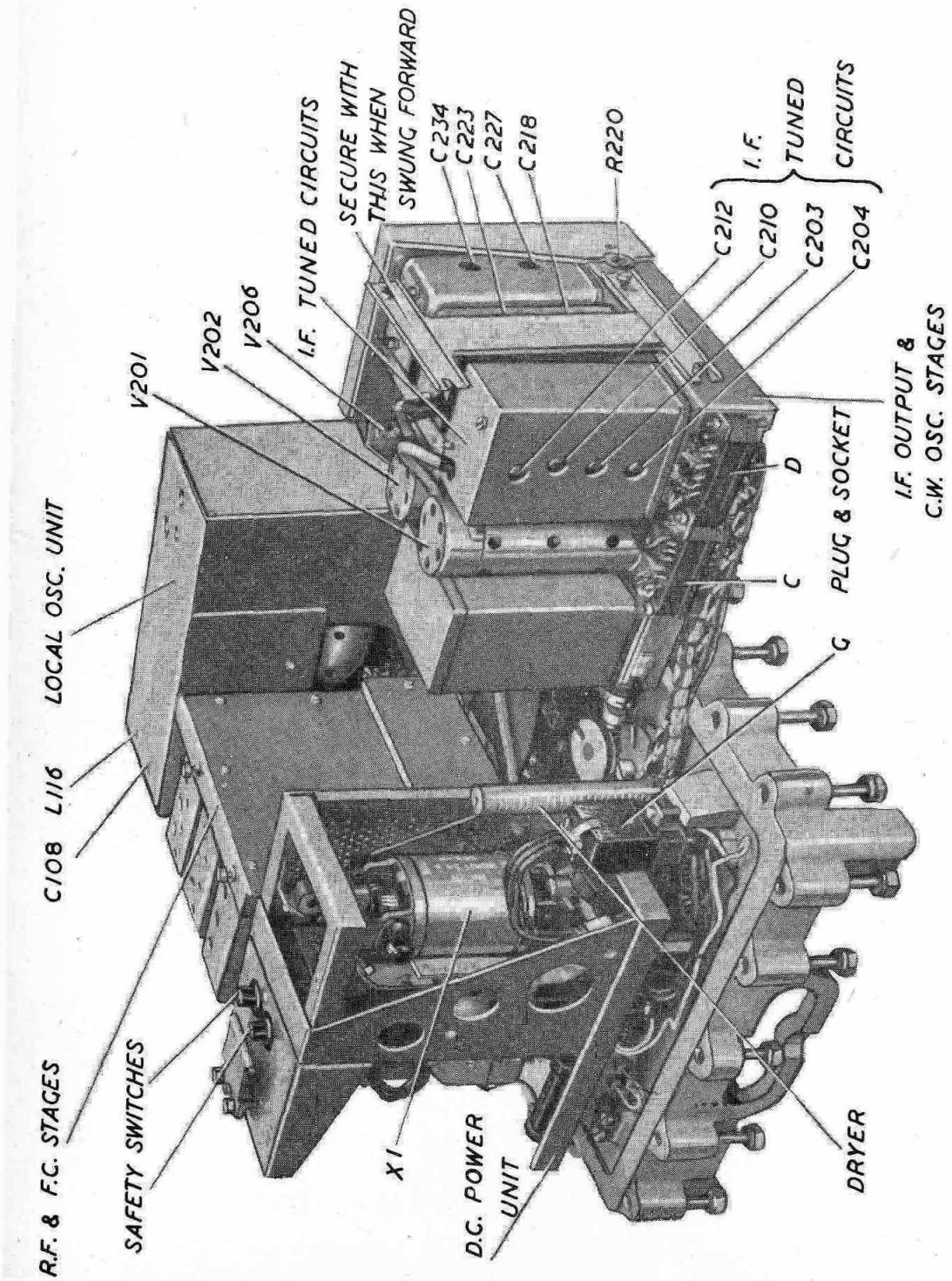
BOTTOM VIEW WITH I.F. UNIT HINGED DOWN



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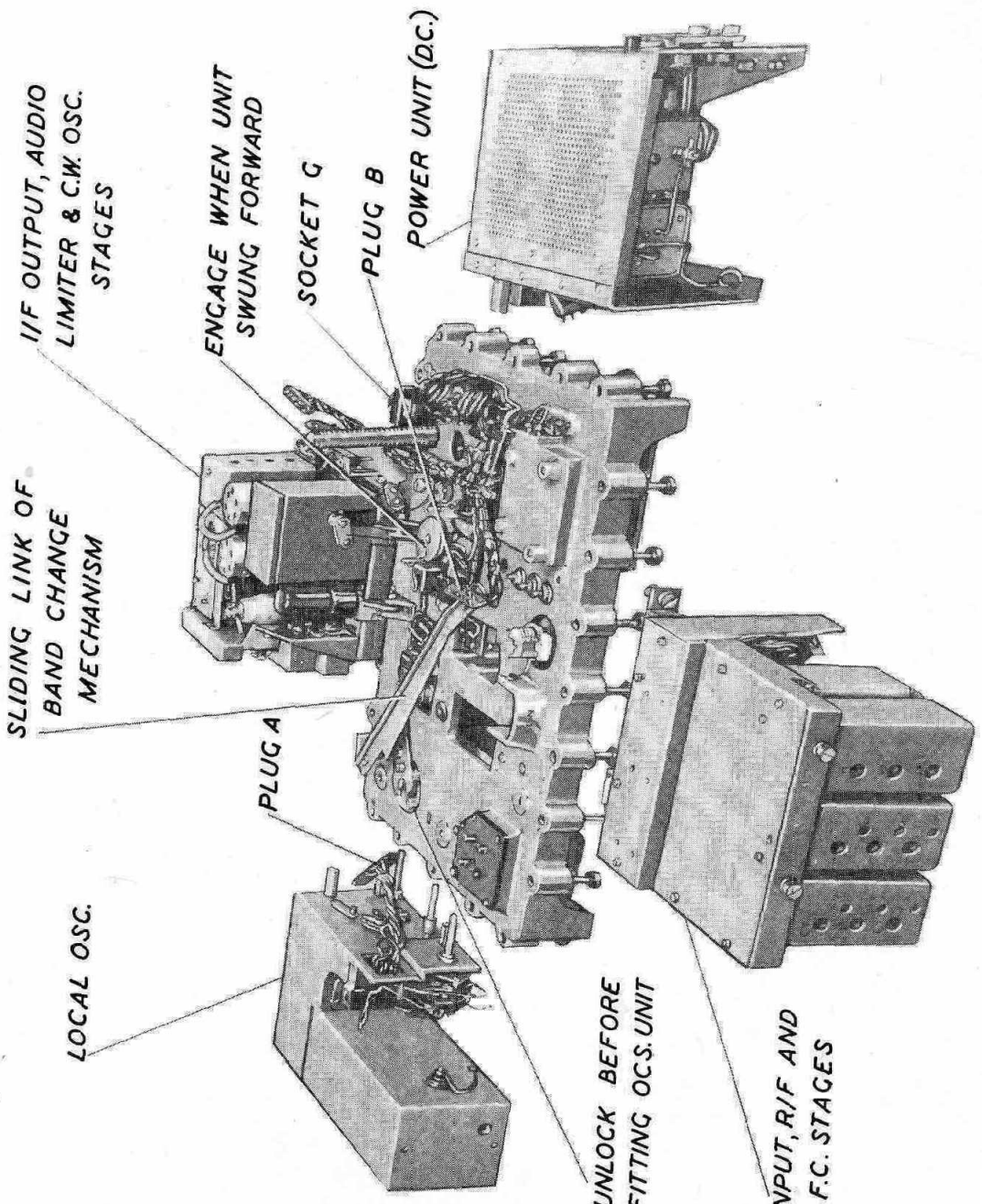

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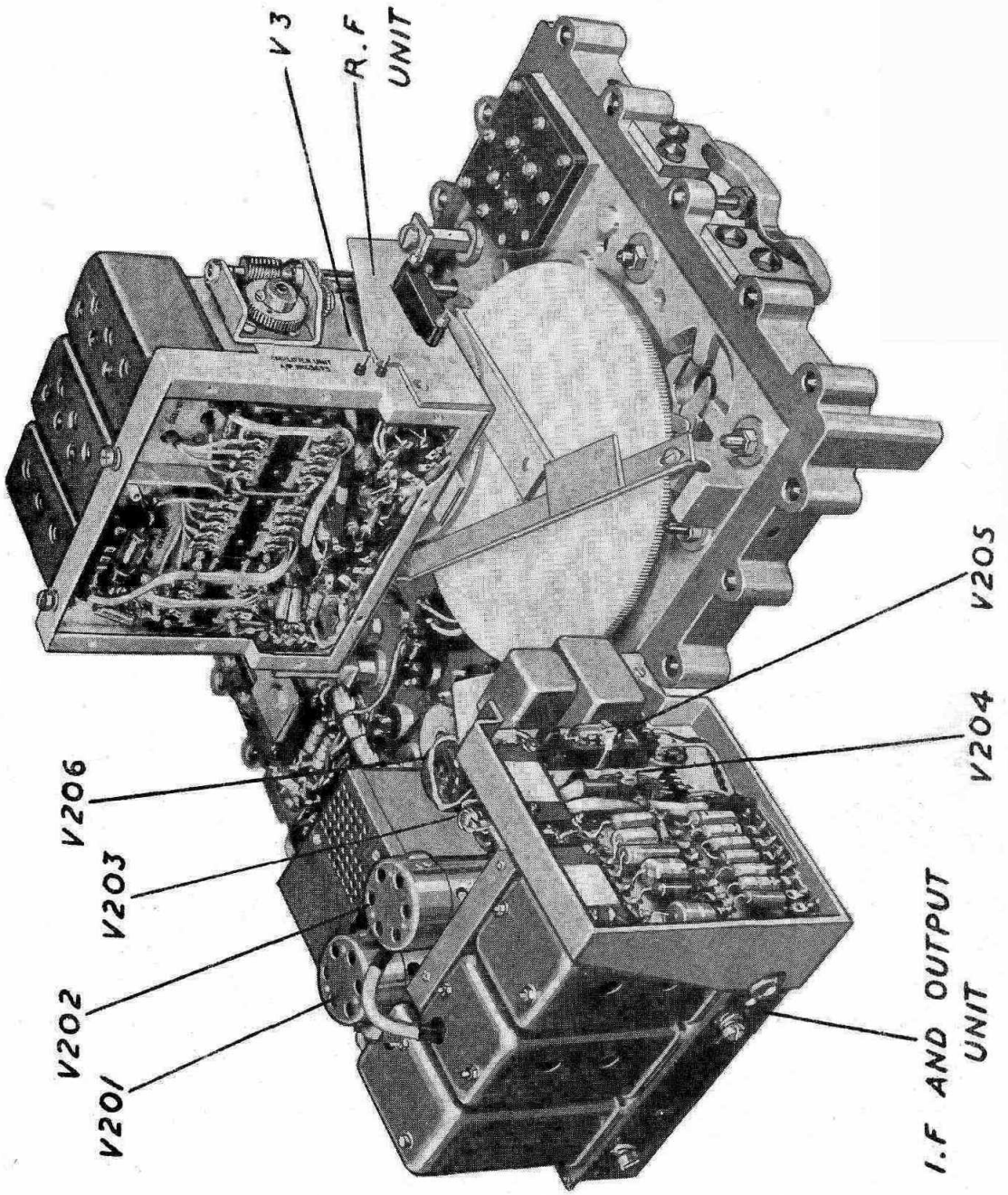
I.F. AND R.F. UNITS



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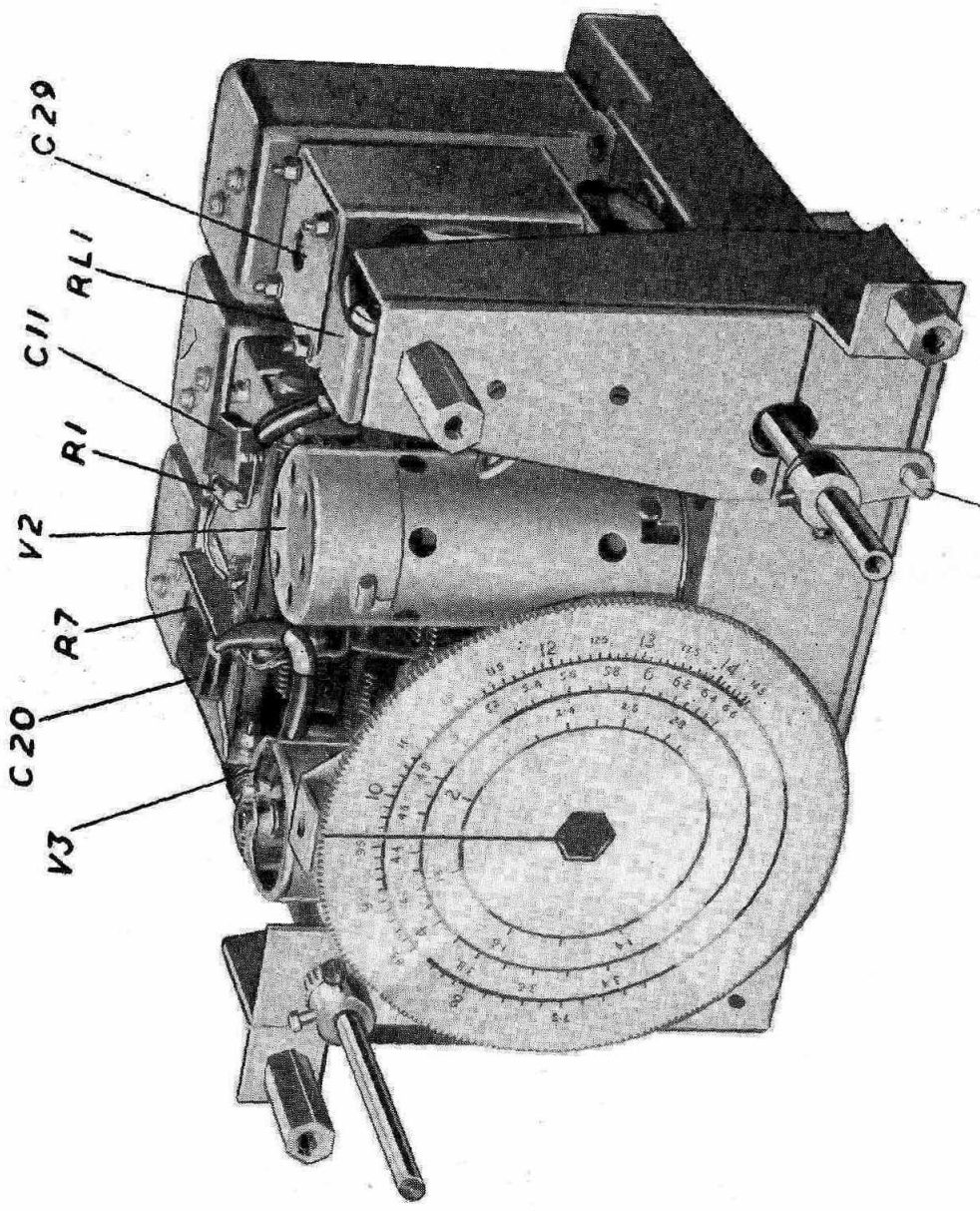

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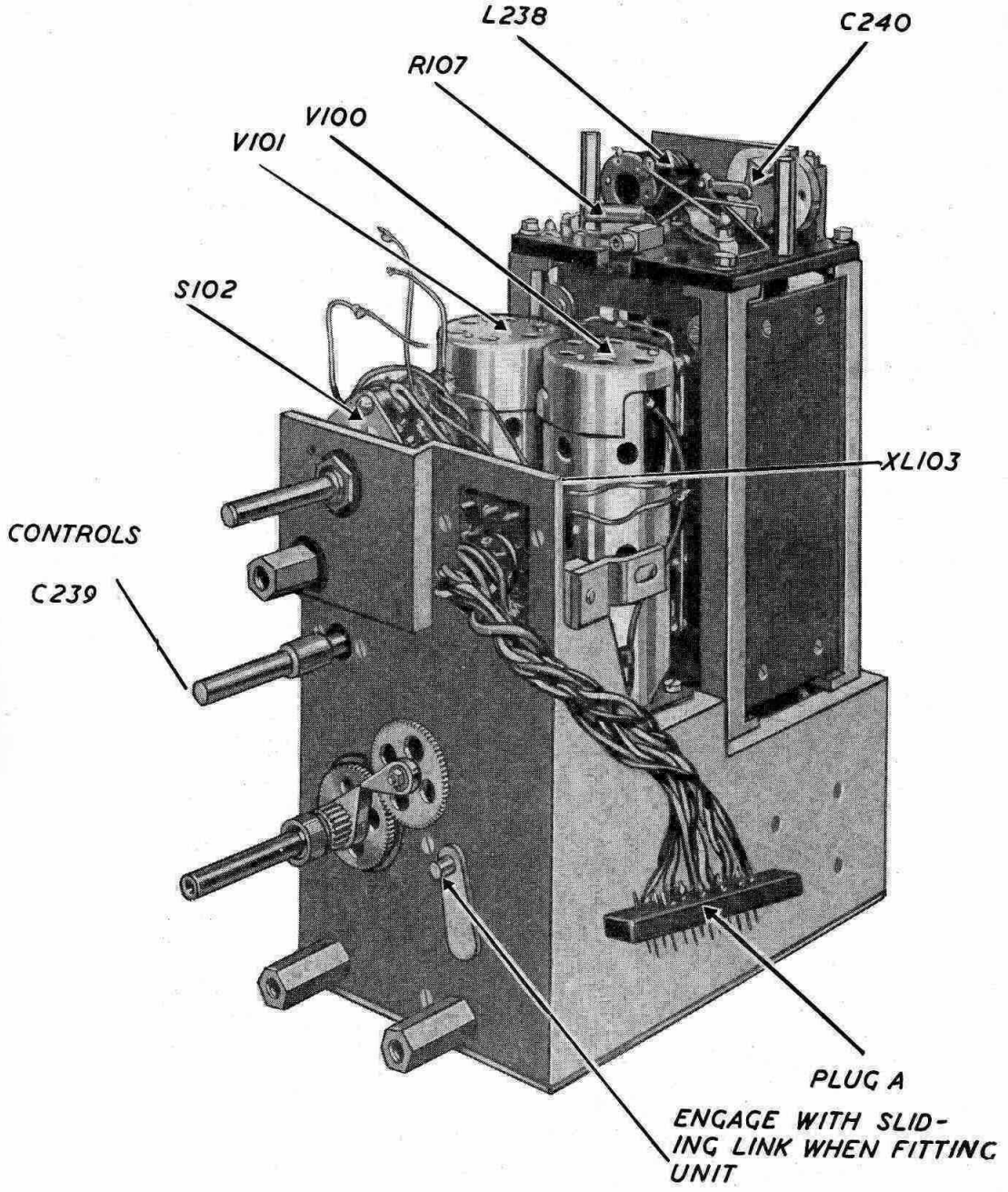
LOCAL OSCILLATOR & CRYSTAL CALIBRATOR



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BLOCK SCHEMATIC

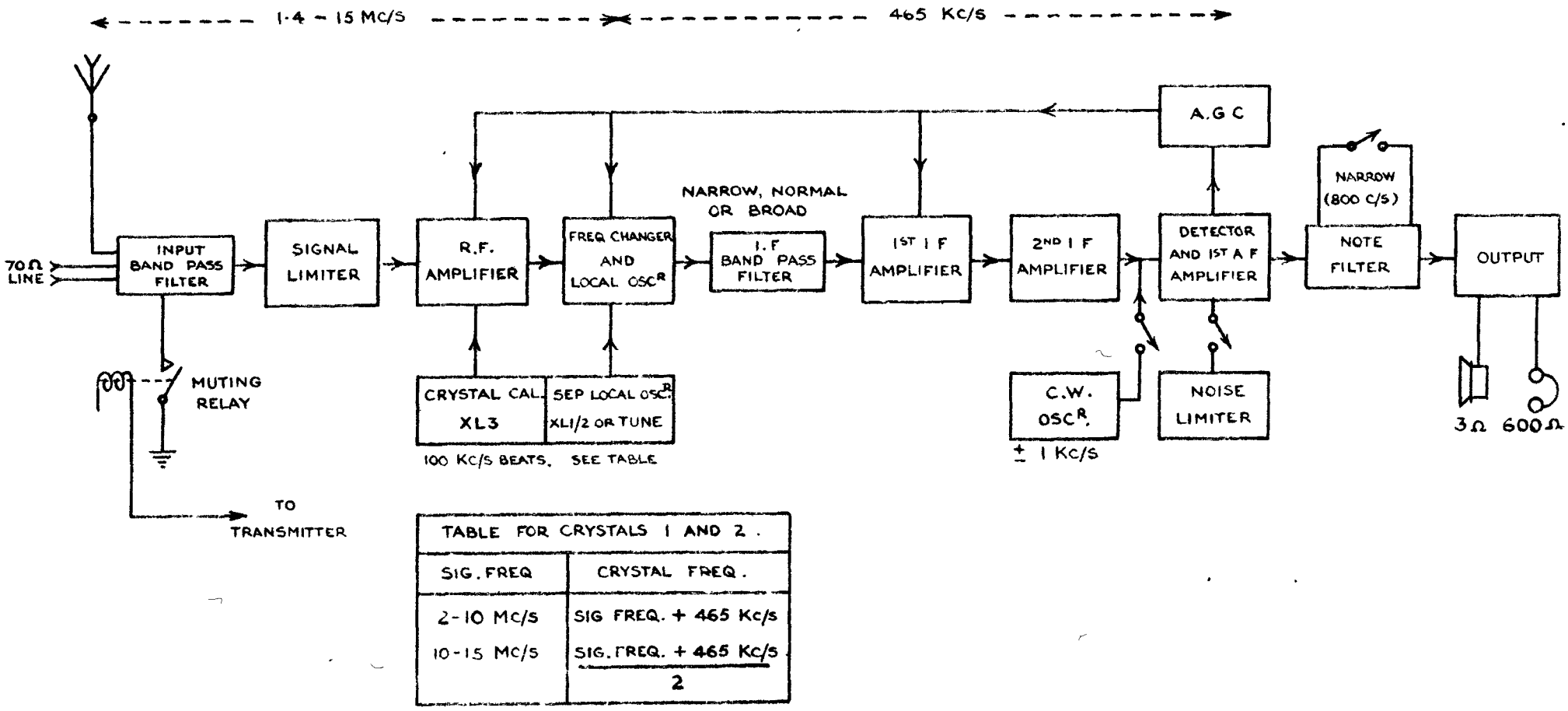
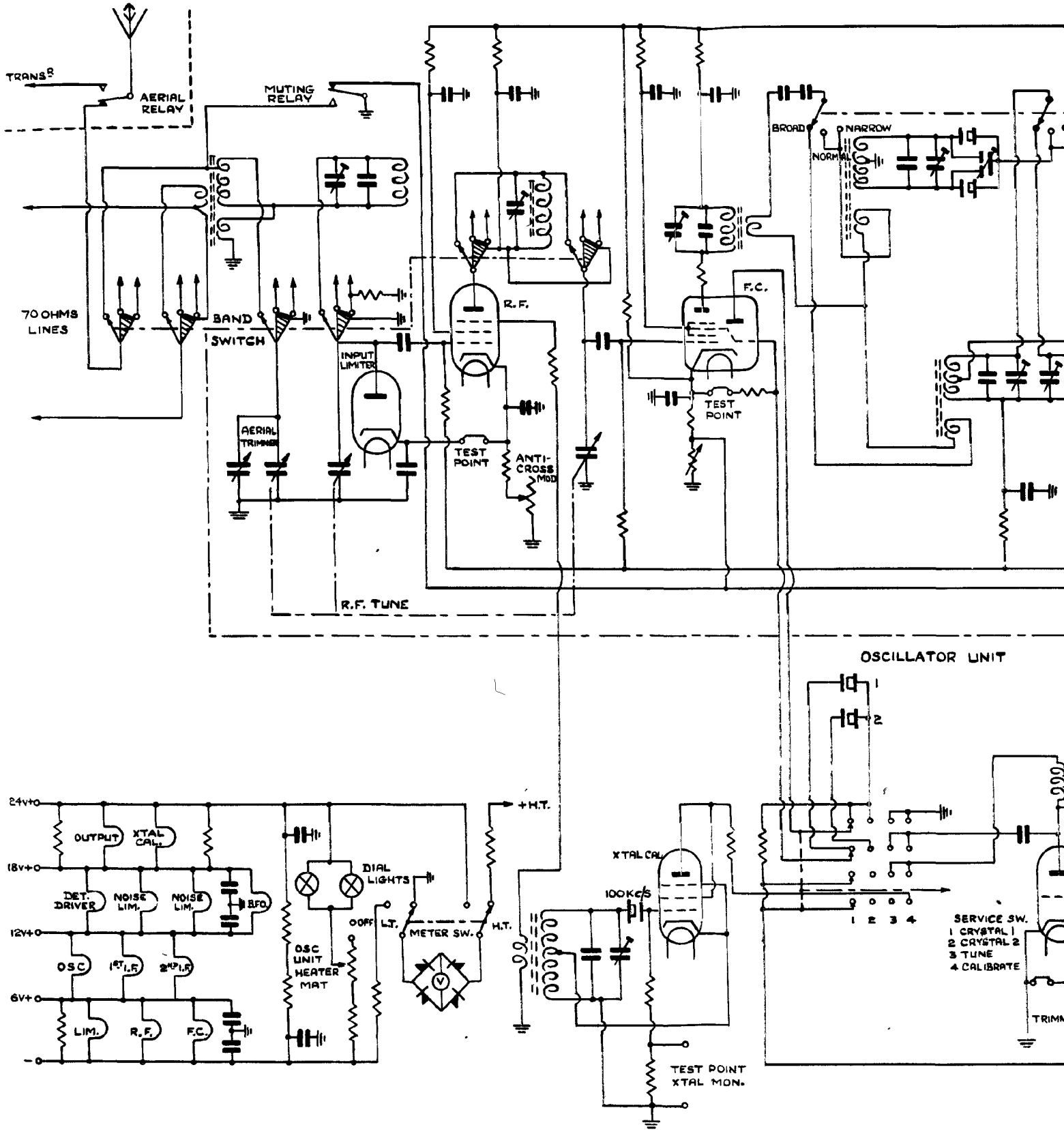


TABLE FOR CRYSTALS 1 AND 2.	
SIG. FREQ	CRYSTAL FREQ.
2-10 MC/S	SIG FREQ. + 465 KC/S
10-15 MC/S	$\frac{\text{SIG. FREQ. + 465 KC/S}}{2}$

13

B46 BLOCK SCHEMATIC.

RECEIVER
SIMPLIFIED CIRCUI



IVER B46
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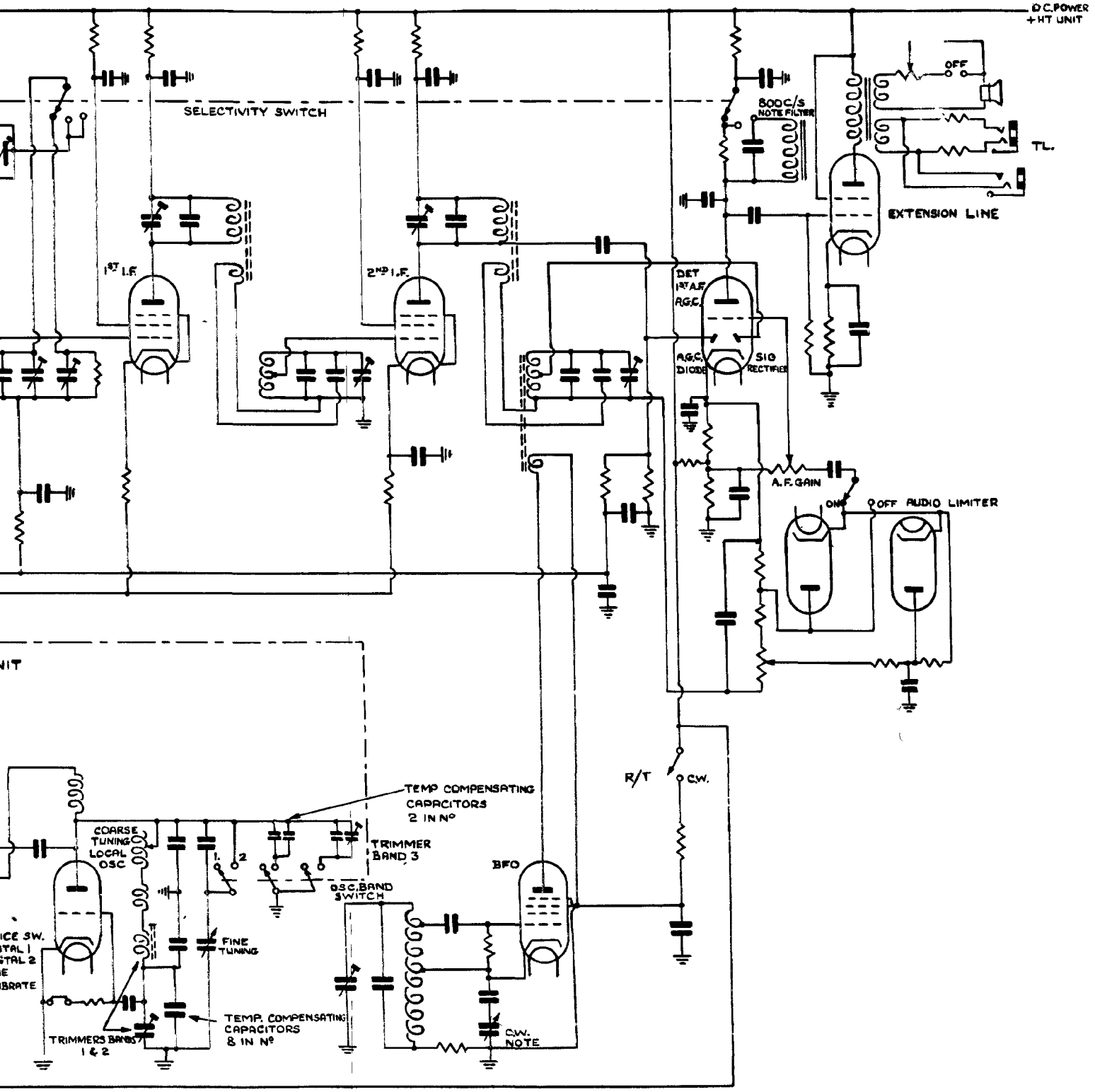
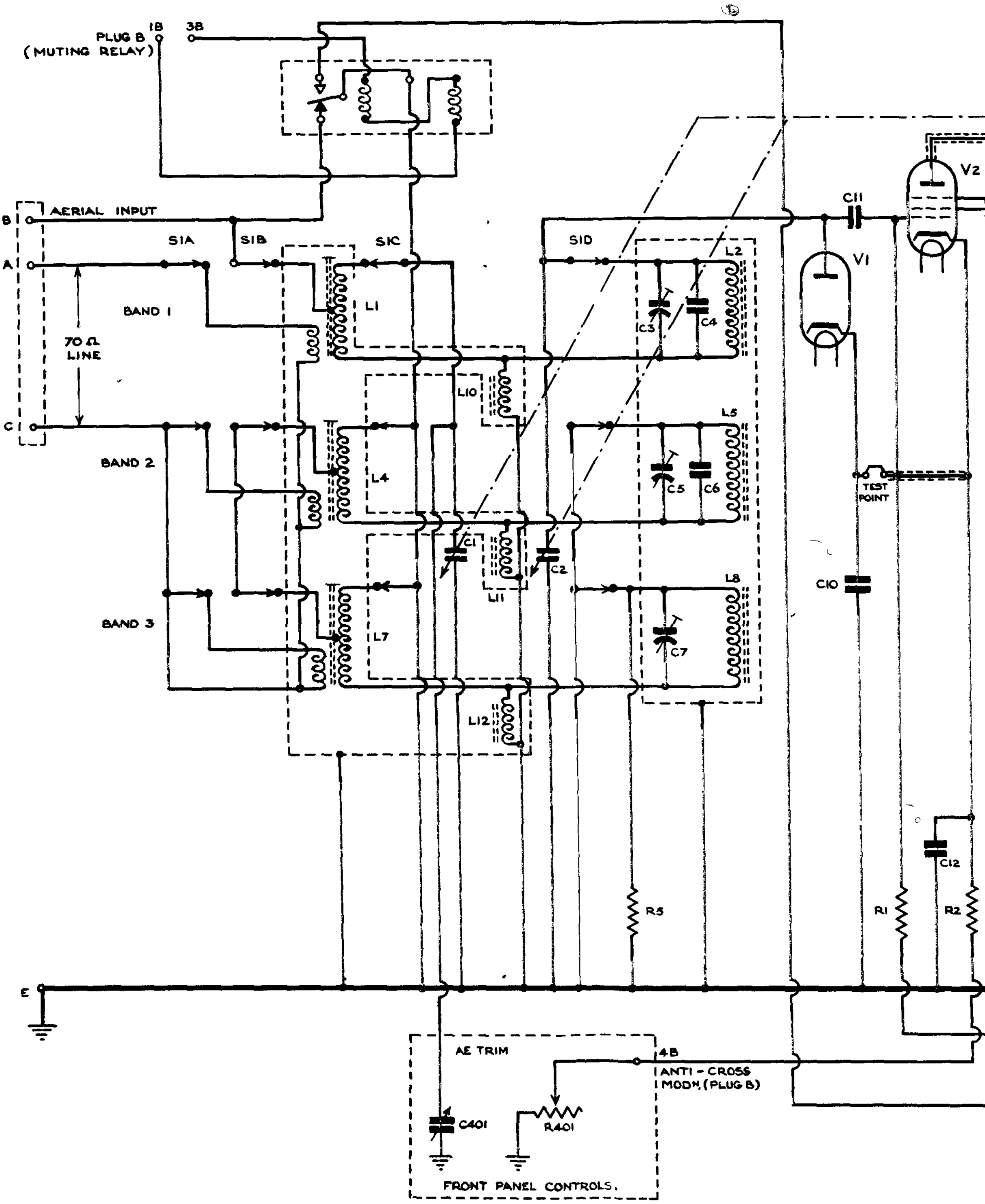


RECEIVER B4

CIRCUIT

R.							401		5						1	
C.					401, 1		2			3 5 7	4 6			11 10		12
MISC.	S1A	S1B	L1 L4 L7	S1C		L10 L11 L12		S1D				L2 L5 L8	V1			V

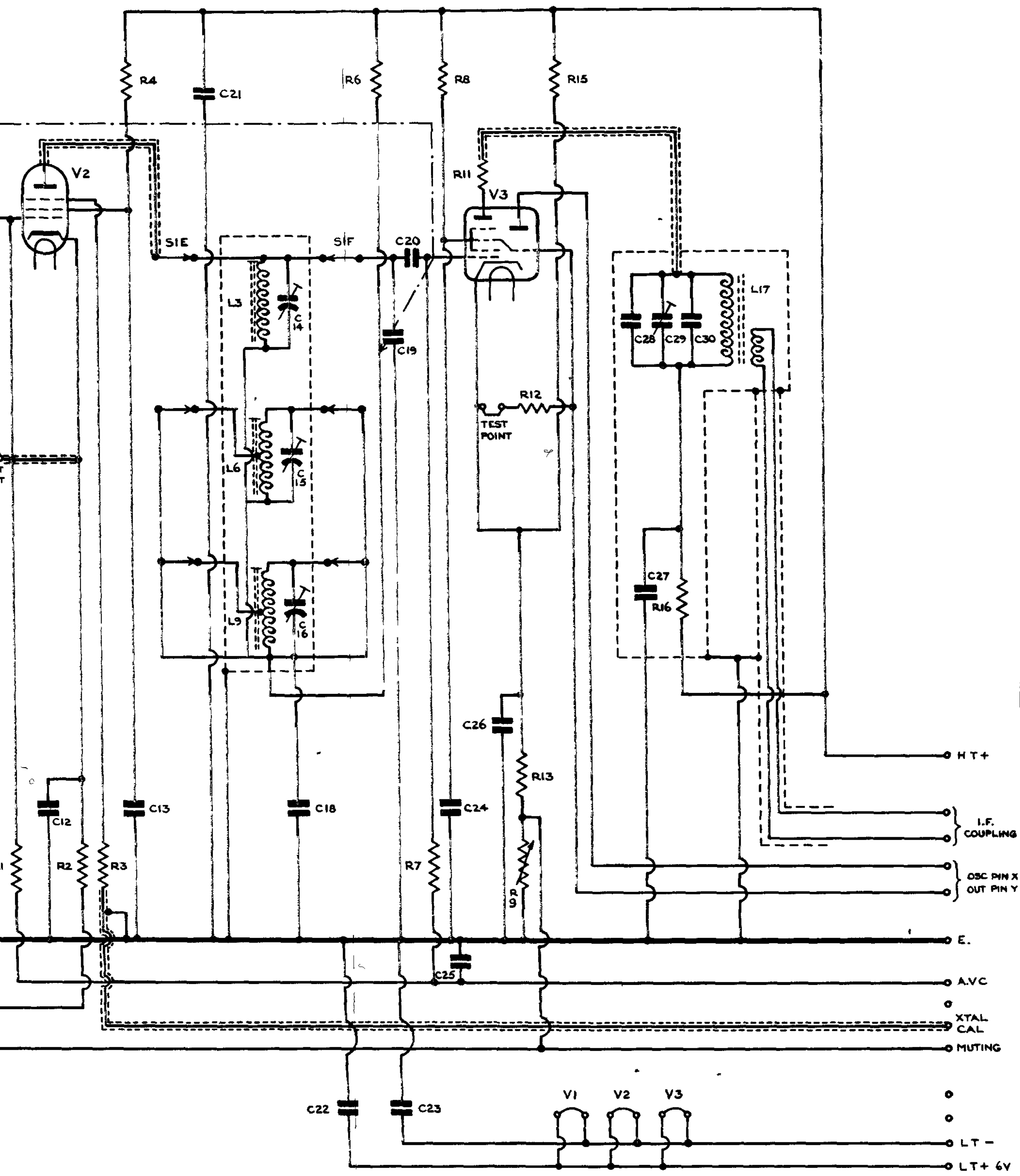


R B46 R.F. STAGES

RCUIT SCHEMATIC.

15

1 2 3 4	6 7 8 9 11 12 13 14 15 16	R.
11 10 12 13 21 14 15 16 18	22 19 20 23 24 25 26 28,29 30, 27	C.
V2 S1E L3 L6 L9	S1F V3 L17	MISC.

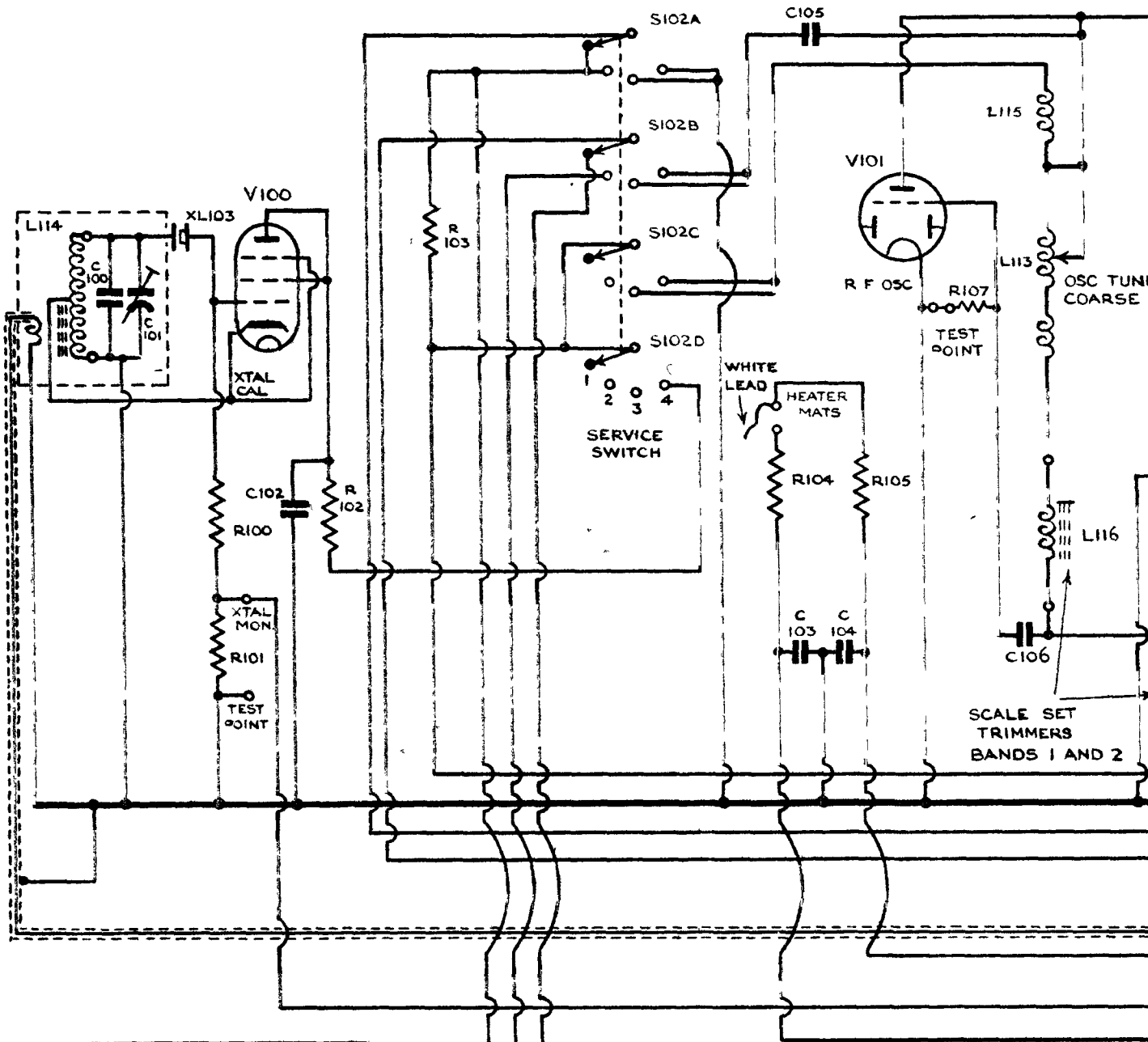


	I F AMPS & FRONT PANEL	R F OSC[R]	I F. AMP[R]
	PLUG 'A'	PLUG 'B'	PLUG 'C'
H T +	6A	11B	8C
I.F. COUPLING		12B	10C
		13B	9C
OSC PIN X			
OUT PIN Y			
E.	1A		13C
A.V.C		7B	
XTAL CAL	12A		
MUTING	9A	2B	1C
	8A		
L T −	5A	5B	5C
L T + 6V		9B	
L T + 12V	2A	10B	
L T + 18V	3A	8B	
L T + 24V	4A	6B	6C

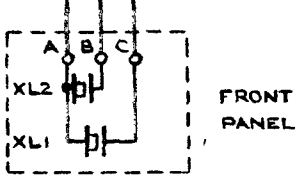
RECEIVER B46 – LOCA

CIRCUIT SCHEMA

R		100 101	102	103		104	105	107		
C	100, 101,		102,			105, 103,	104,	106,		
MISC.	L114	XL103		XL2 XL1	S102		V101	L115 L113 L116		



SERVICE SWITCH S2A to S2E	
POSITION	SERVICE
1	CRYSTAL 1
2	CRYSTAL 2
3	TUNE
4	CAL.



BAND SWITCH	
OPEN	15 – 3·3 MC/S
CLOSED	3·3 – 1·4 MC/S

OCAL OSCILLATOR.

HEMATIC.

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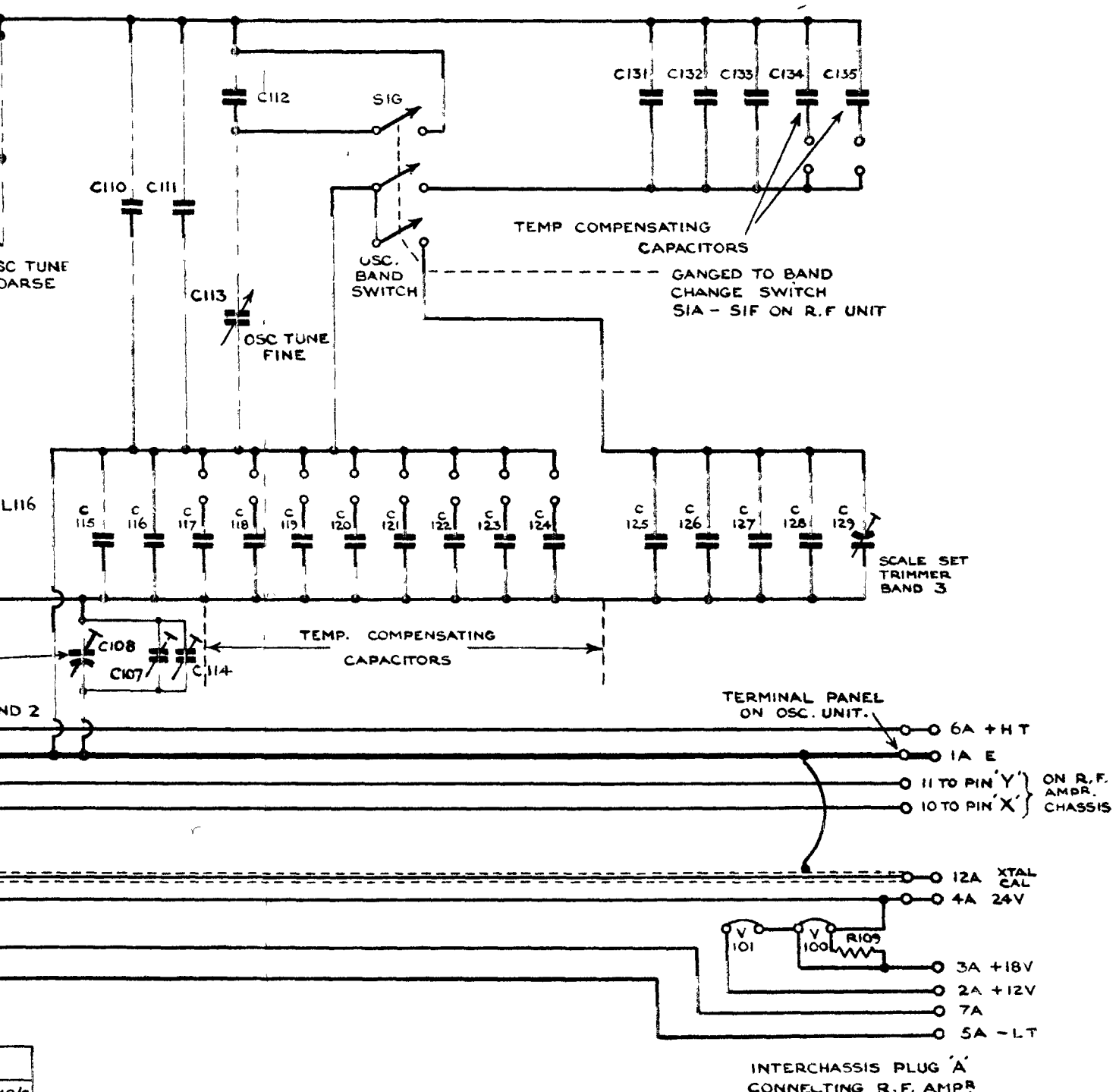
B47
LOCAL
OSC.

	109	R
109, 115, 108, 110, 111, 116, 117, 107, 114, 112, 113, 118, 119, 120, 121, 123, 124	131, 125, 132, 126, 133, 127, 134, 128, 135, 129	C
SIG	{ V101, V100 HEATERS	MISC.



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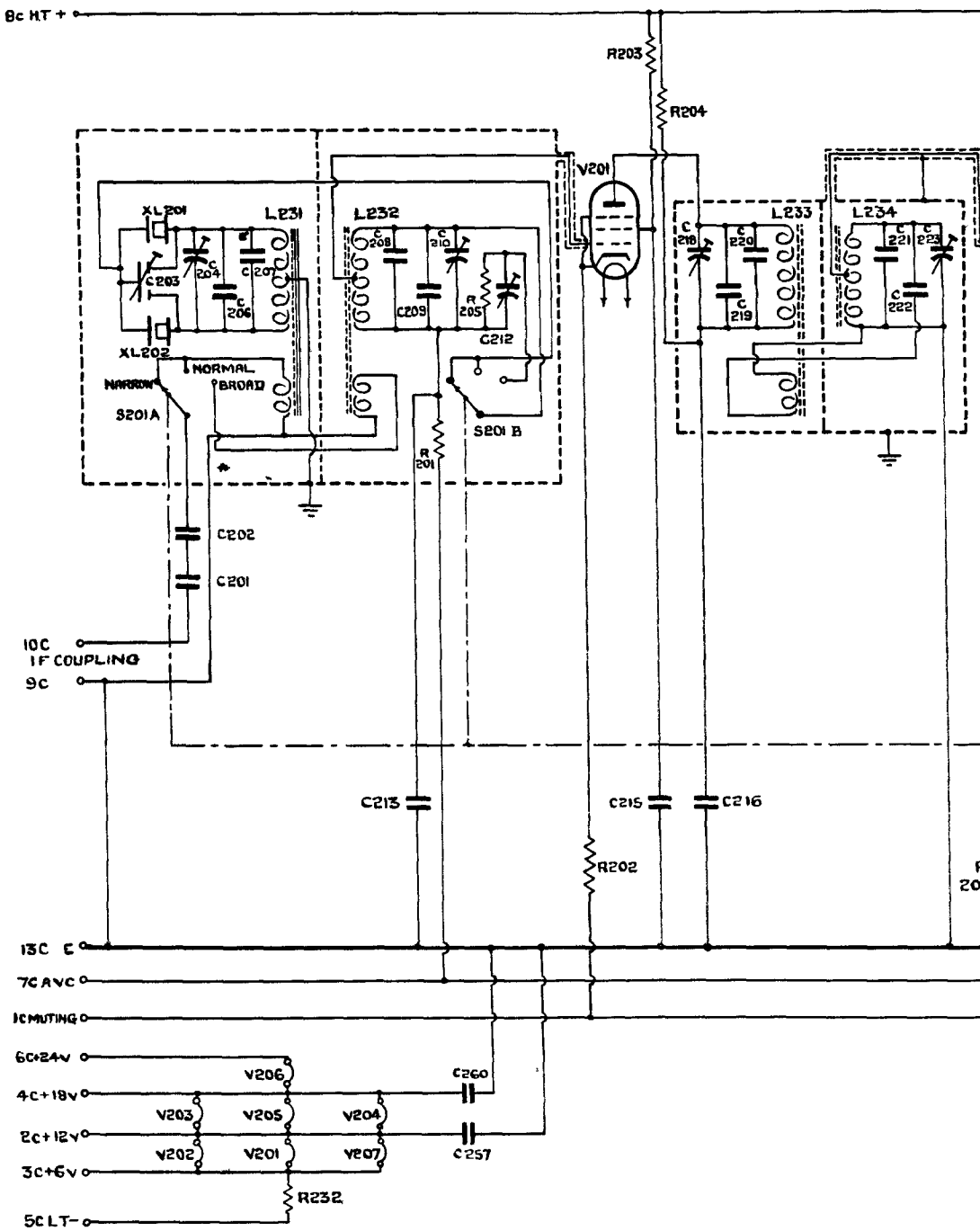
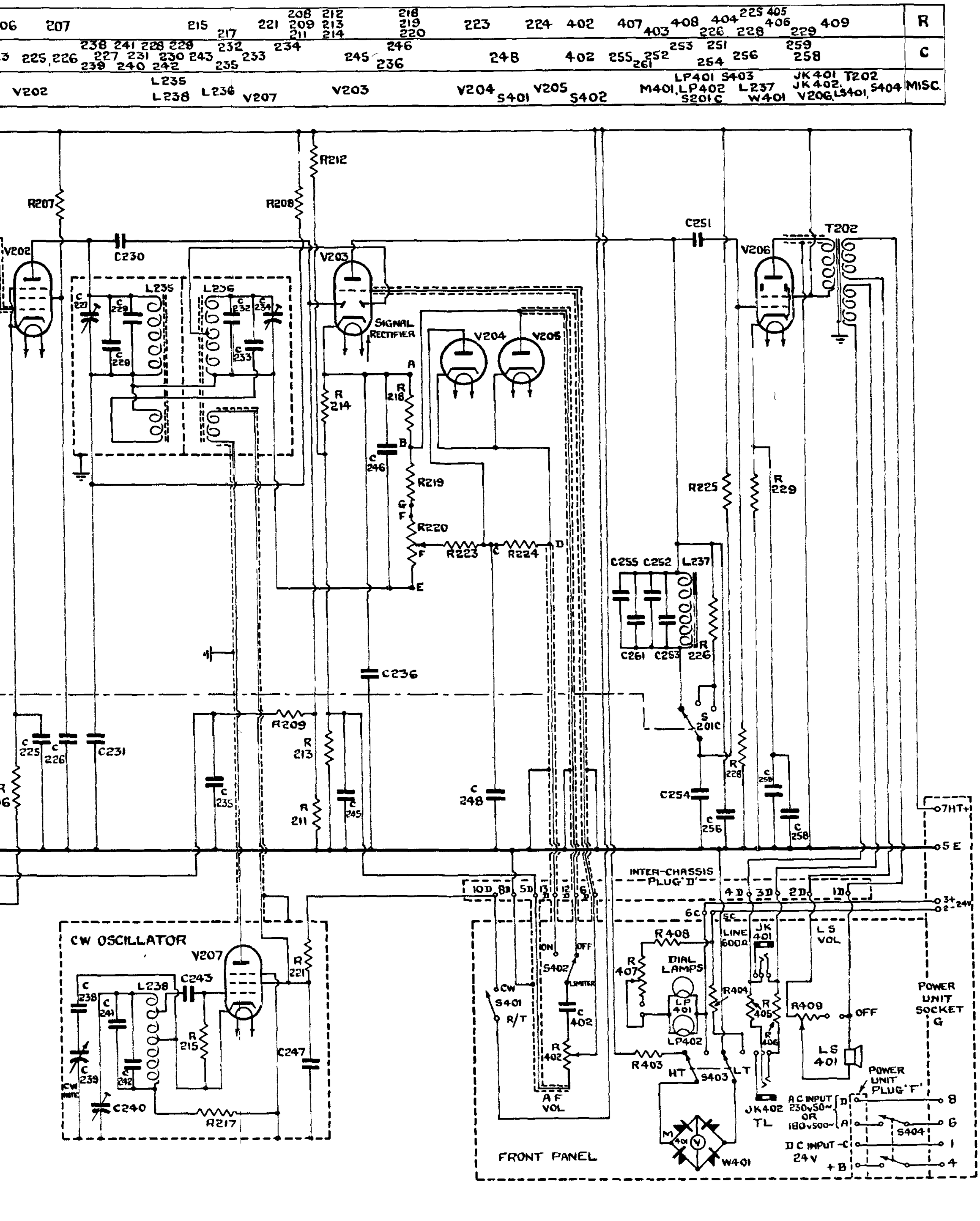
R	232 201 205 202 203 204
C	204 203 202 201 206 207 208 209 210 213 260 257 212 215 218 219 216 220 221 222,22
MISC	XL 201 XL 202 S201 A L231 L232 S201 B V201 L233 L234



INTERCHASSIS PLUG 'C' CONNECTING TO R/F AMPR AND POWER SUPPLY

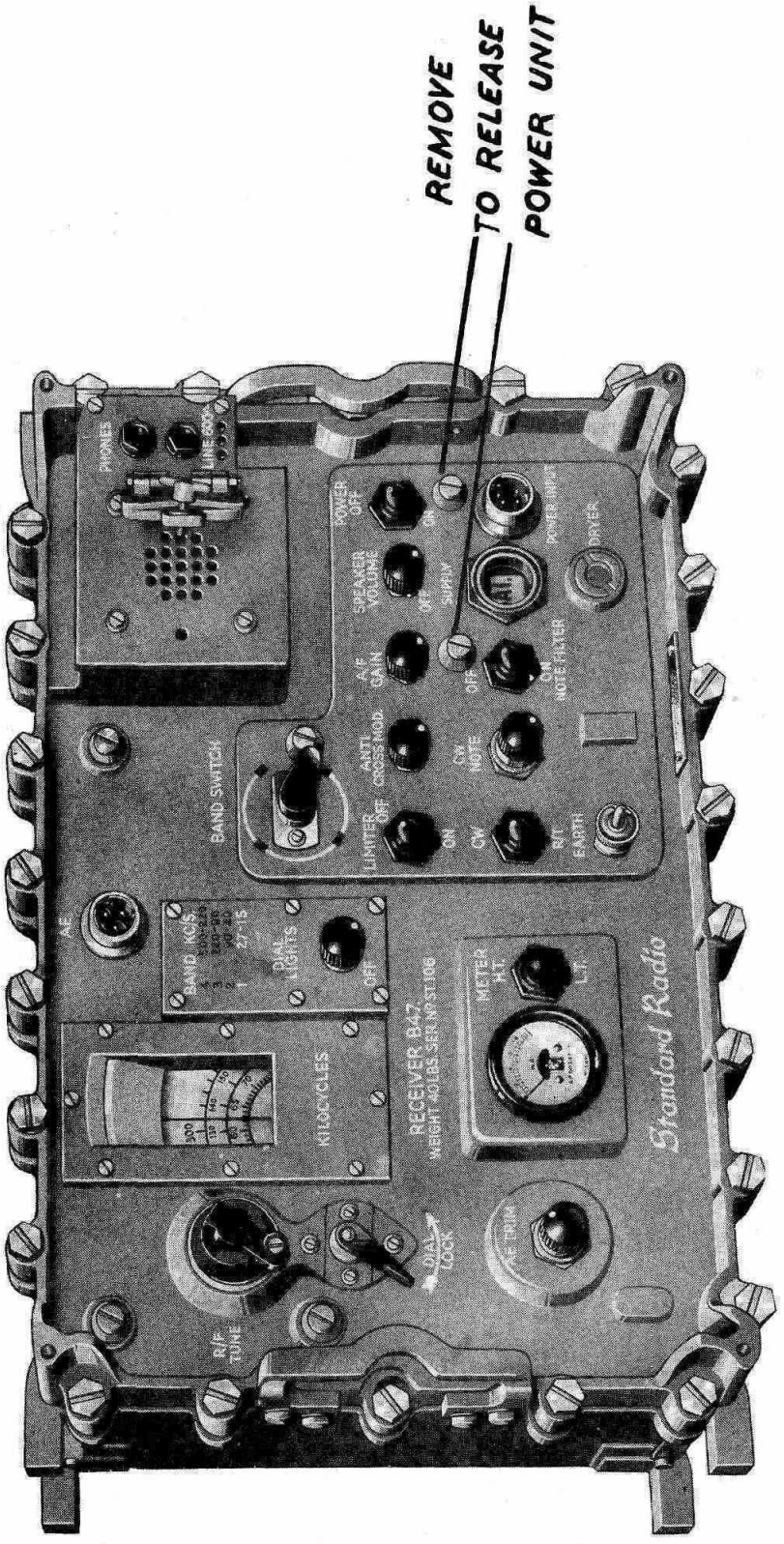
VER B46 I.F STAGES

CIRCUIT SCHEMATIC



RECEIVER B47

FRONT VIEW



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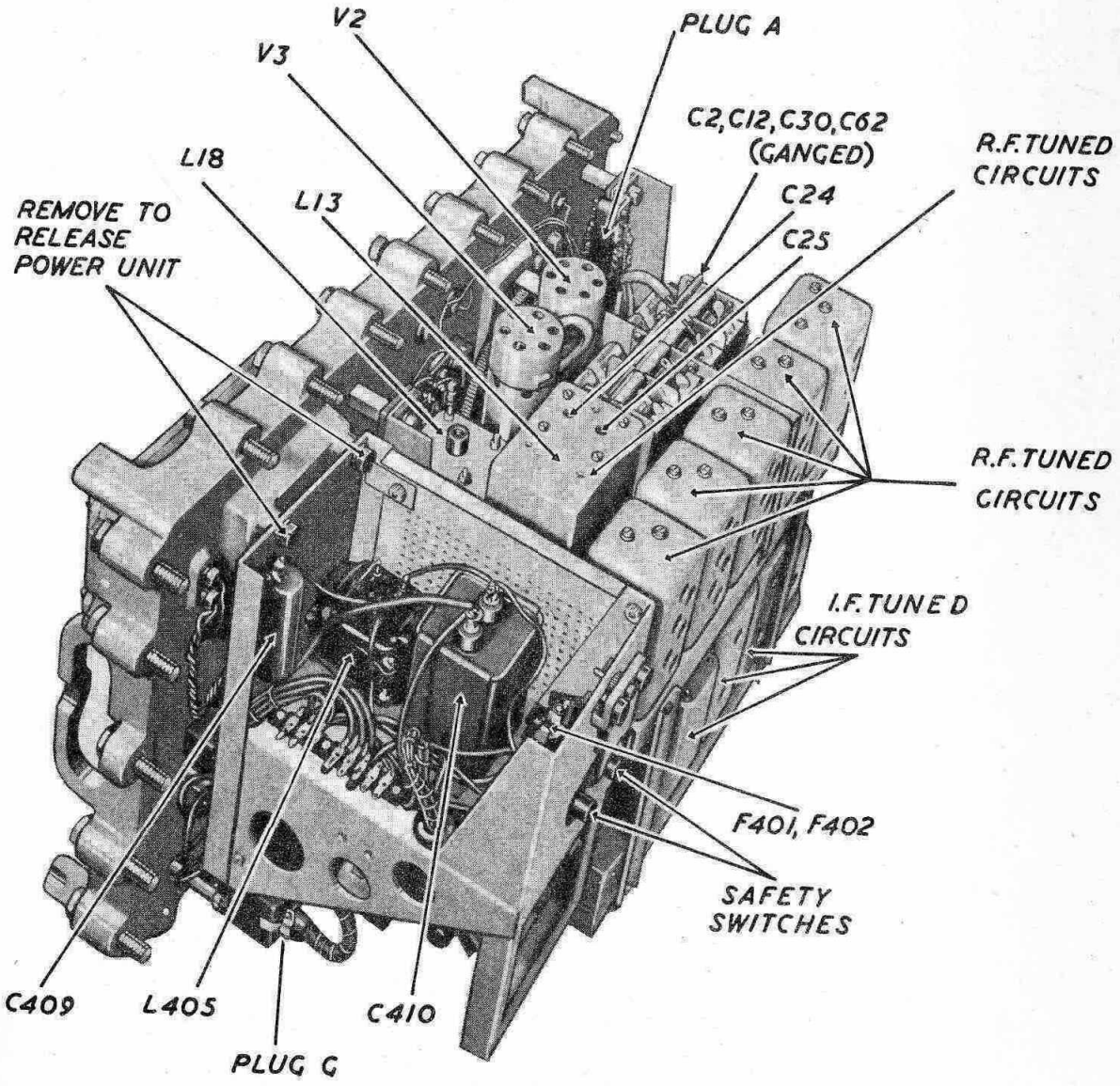
TOP VIEW



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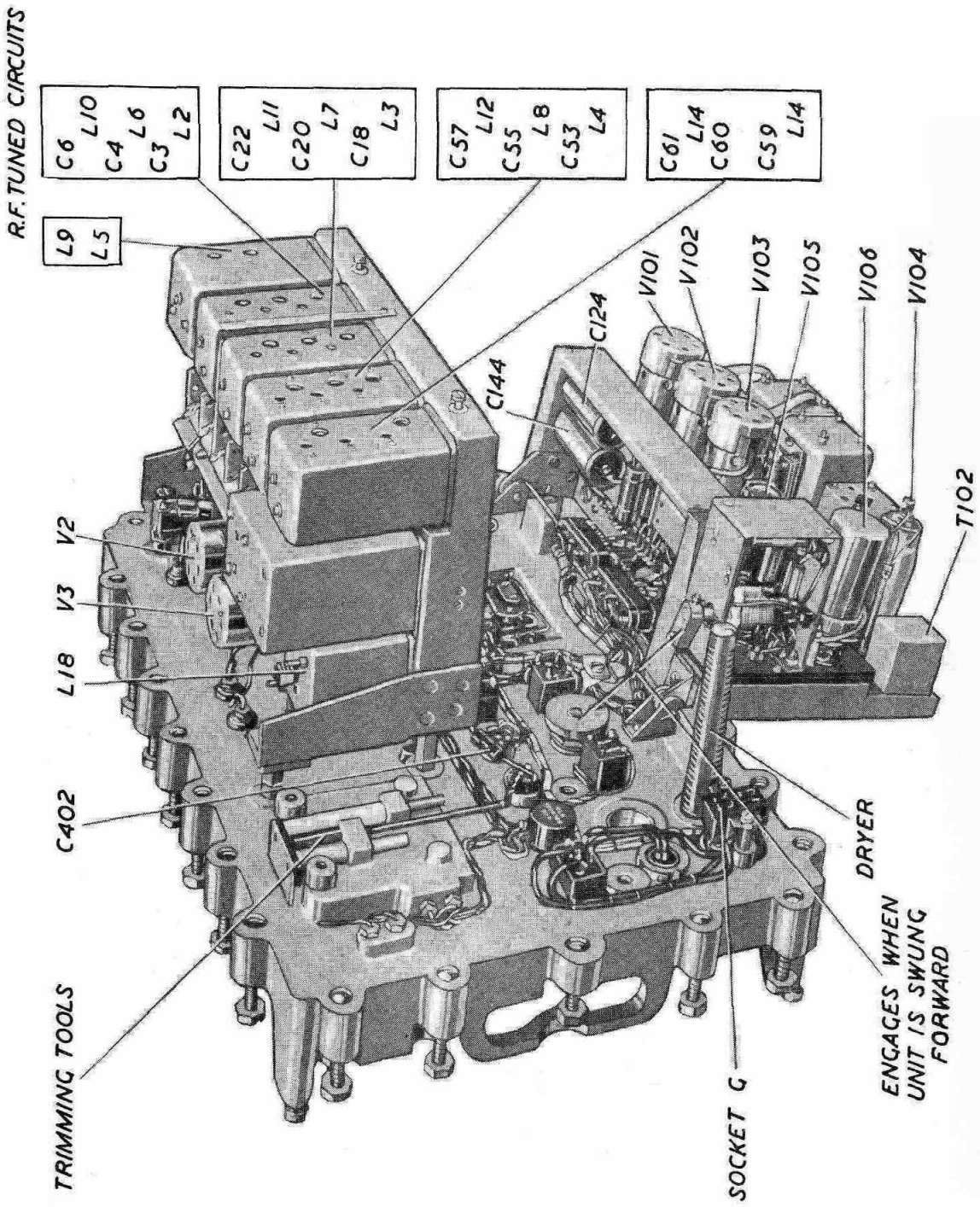
POWER UNIT REMOVED: I.F. AMPLIFIER HINGED DOWN



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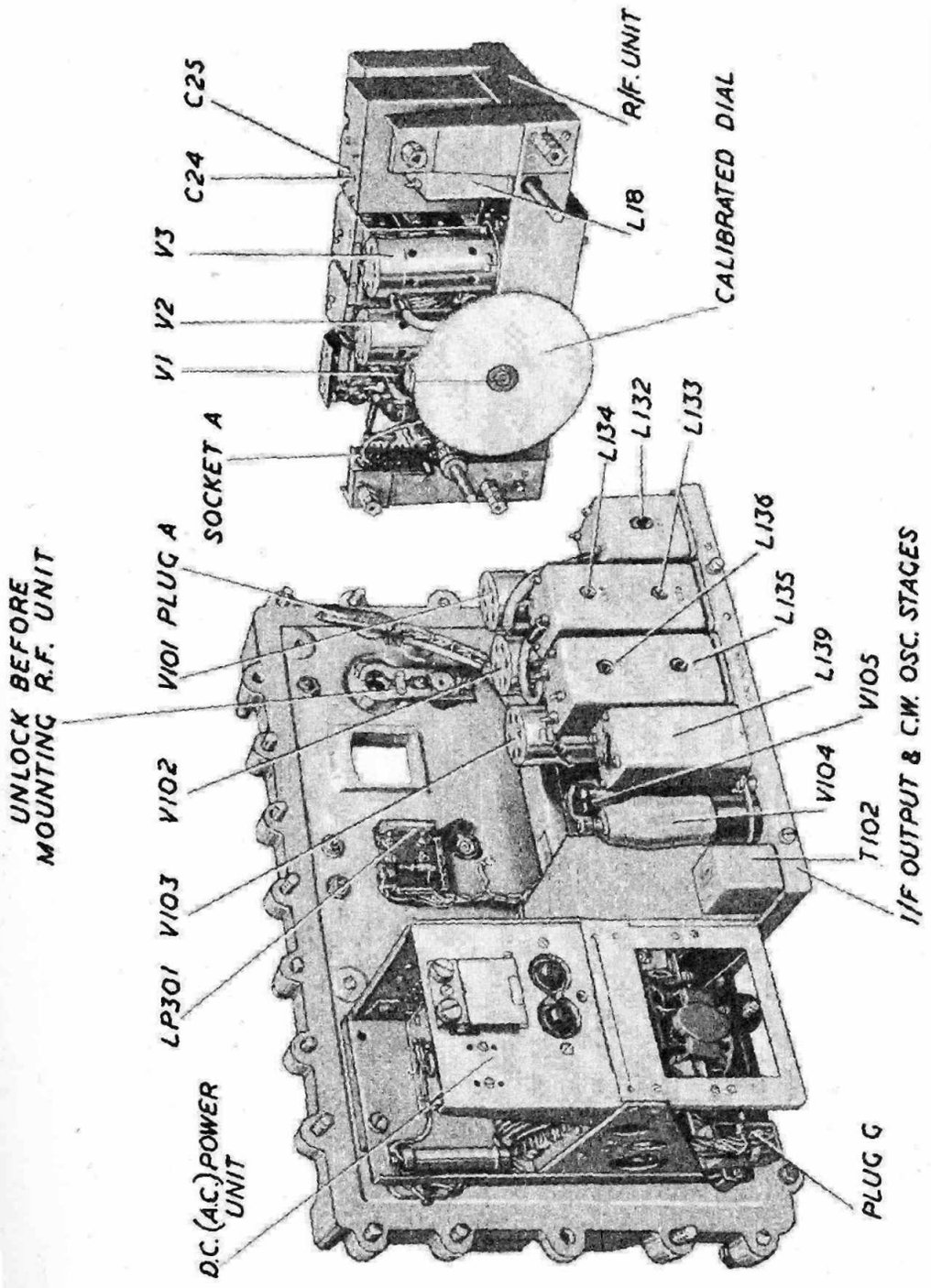
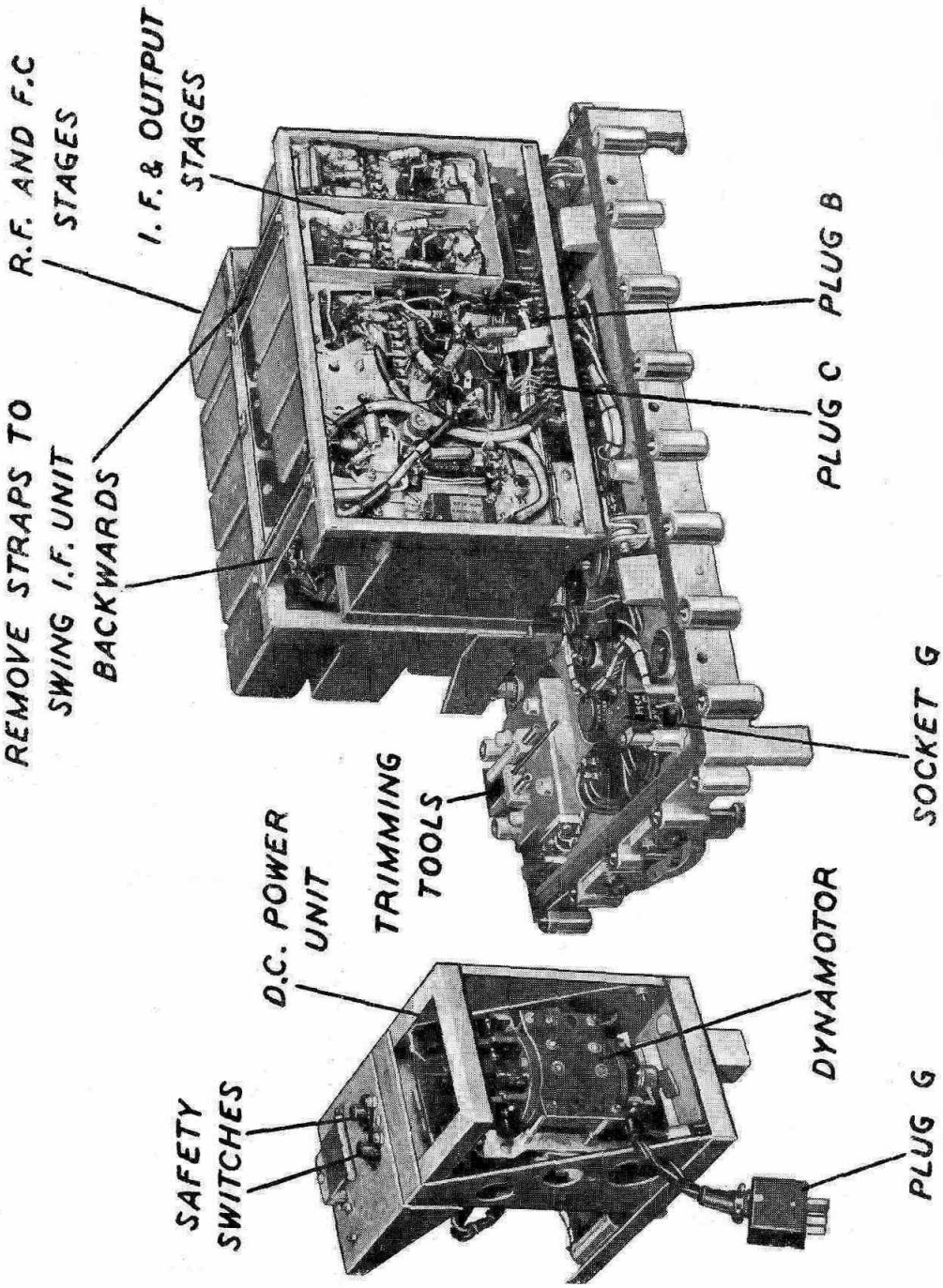
R/F UNIT REMOVED



RECEIVER B47

BOTTOM VIEW POWER UNIT REMOVED



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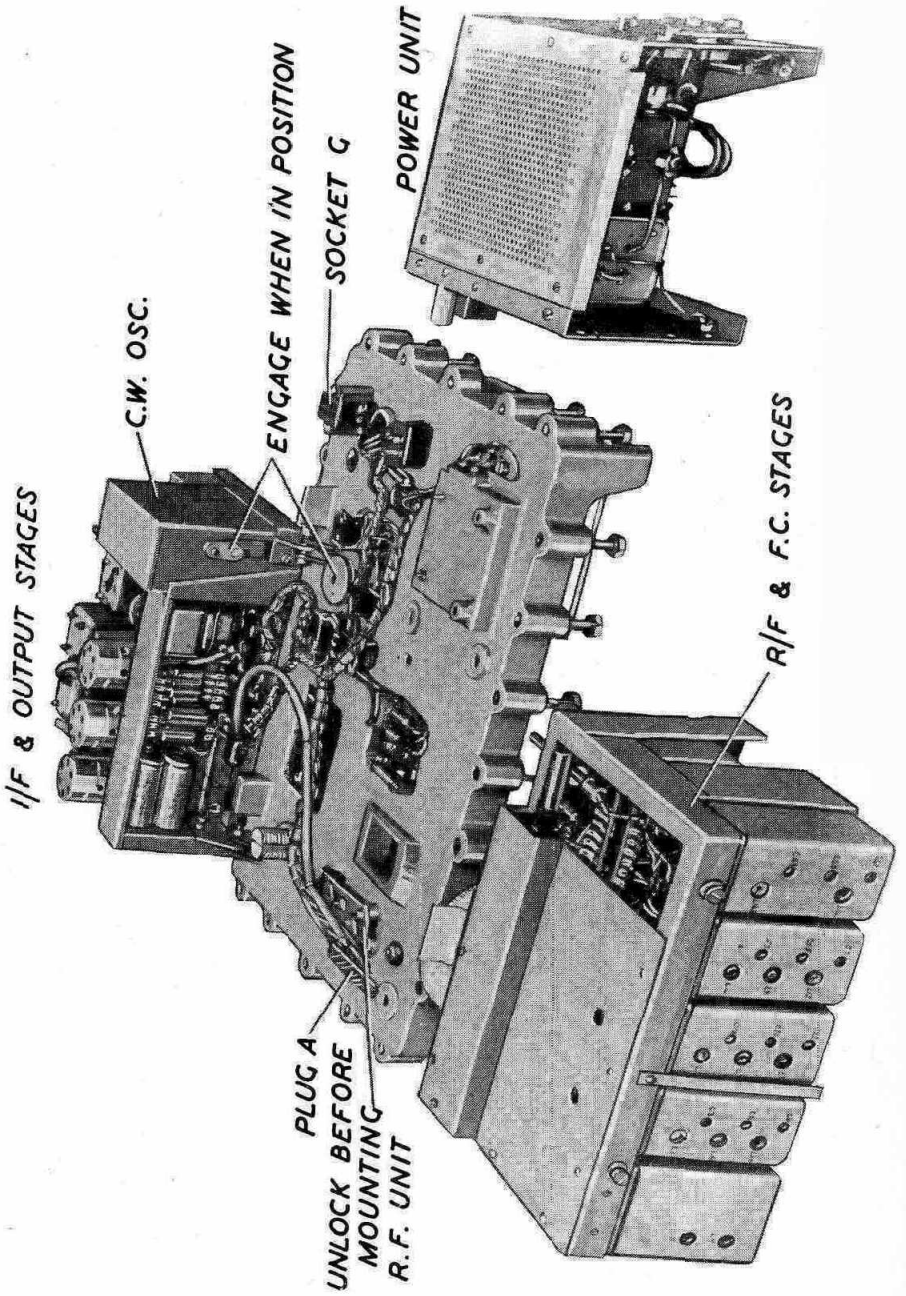

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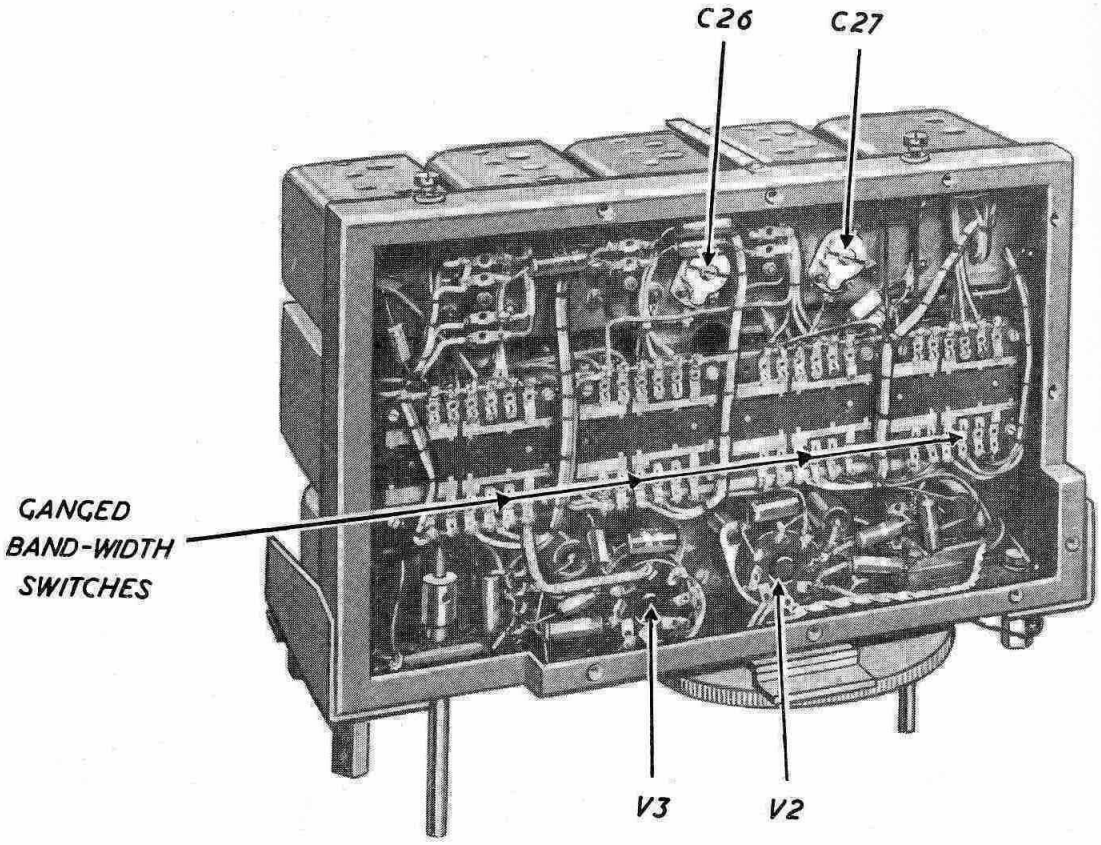
BOTTOM VIEW OF R.F. UNIT (COVER REMOVED)



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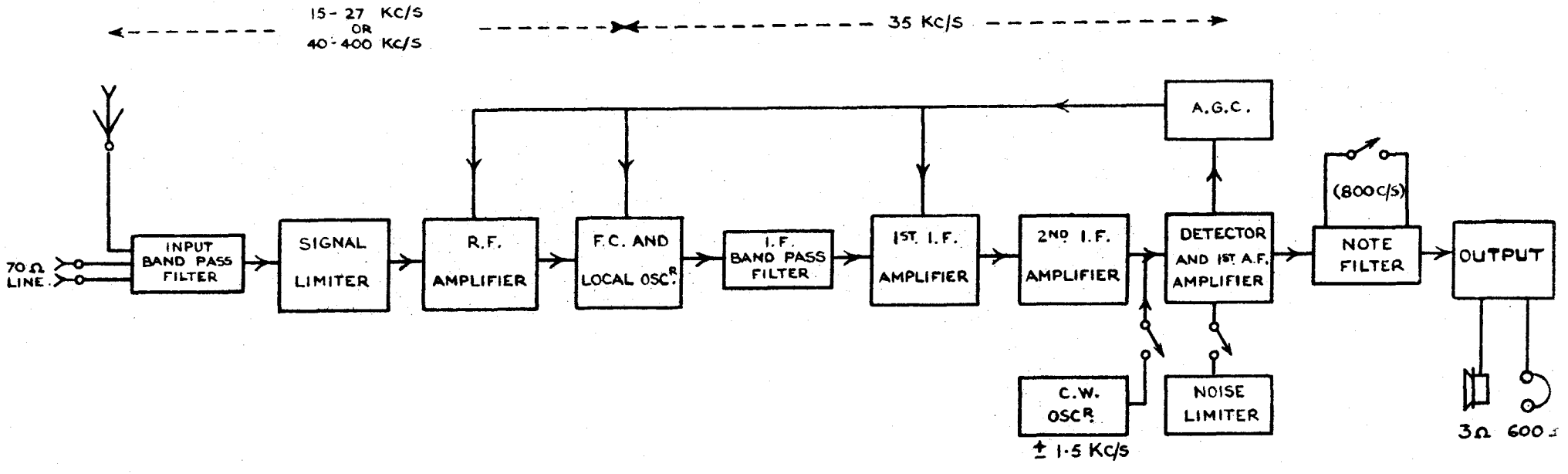

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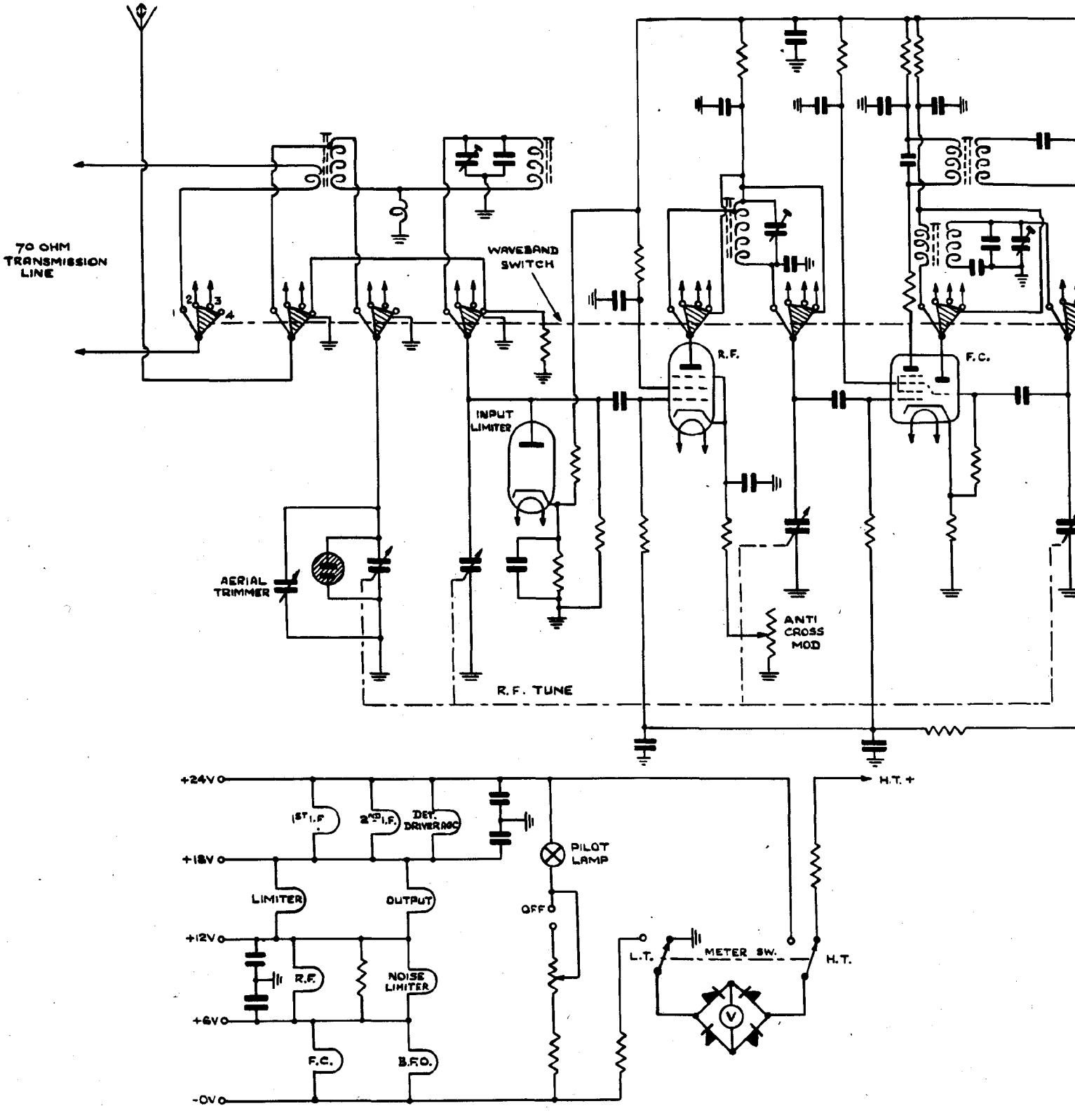
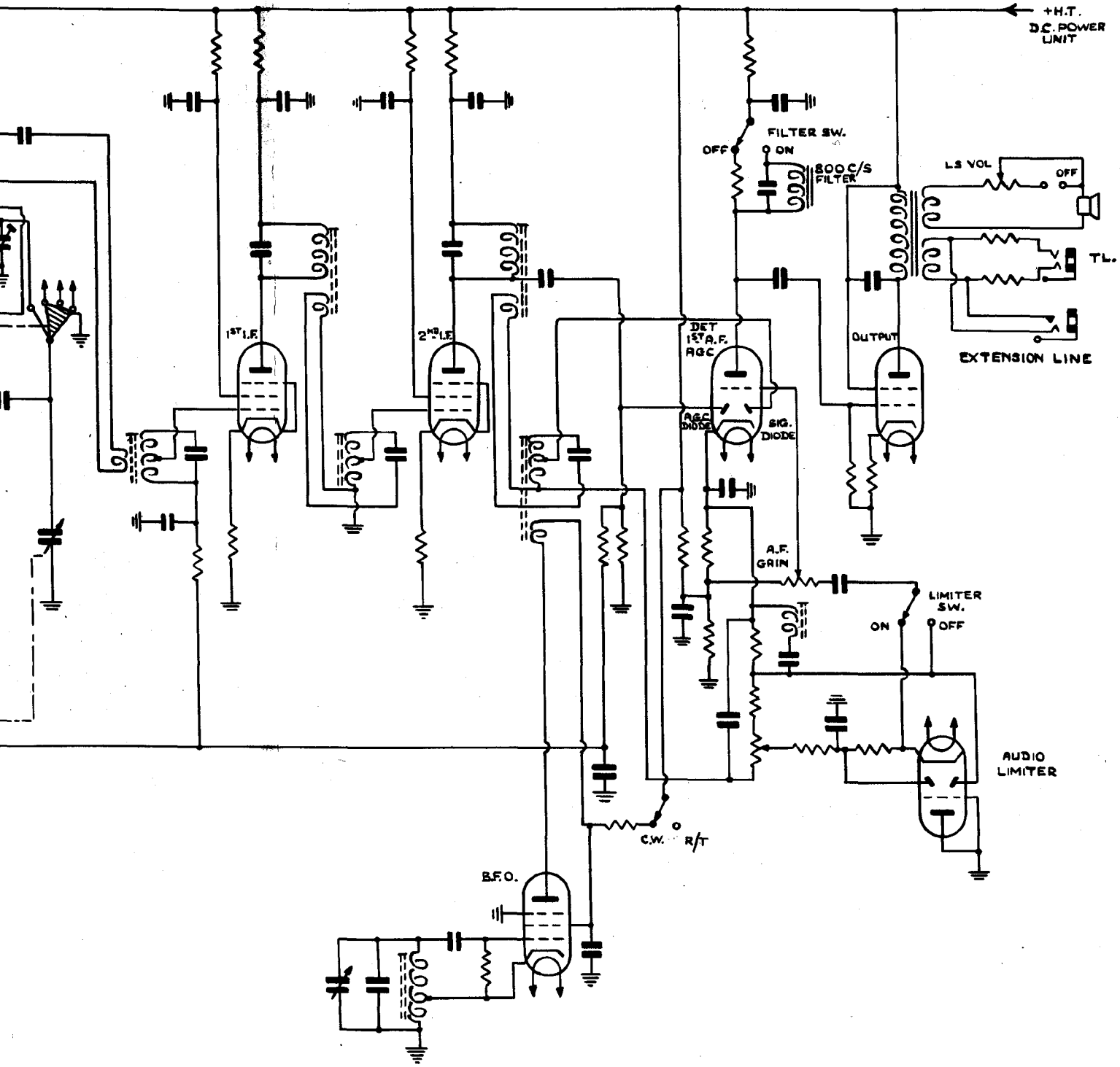
B 47
BLOCK
SCHEMATIC.

RECEIVER E

SIMPLIFIED CIRCUIT



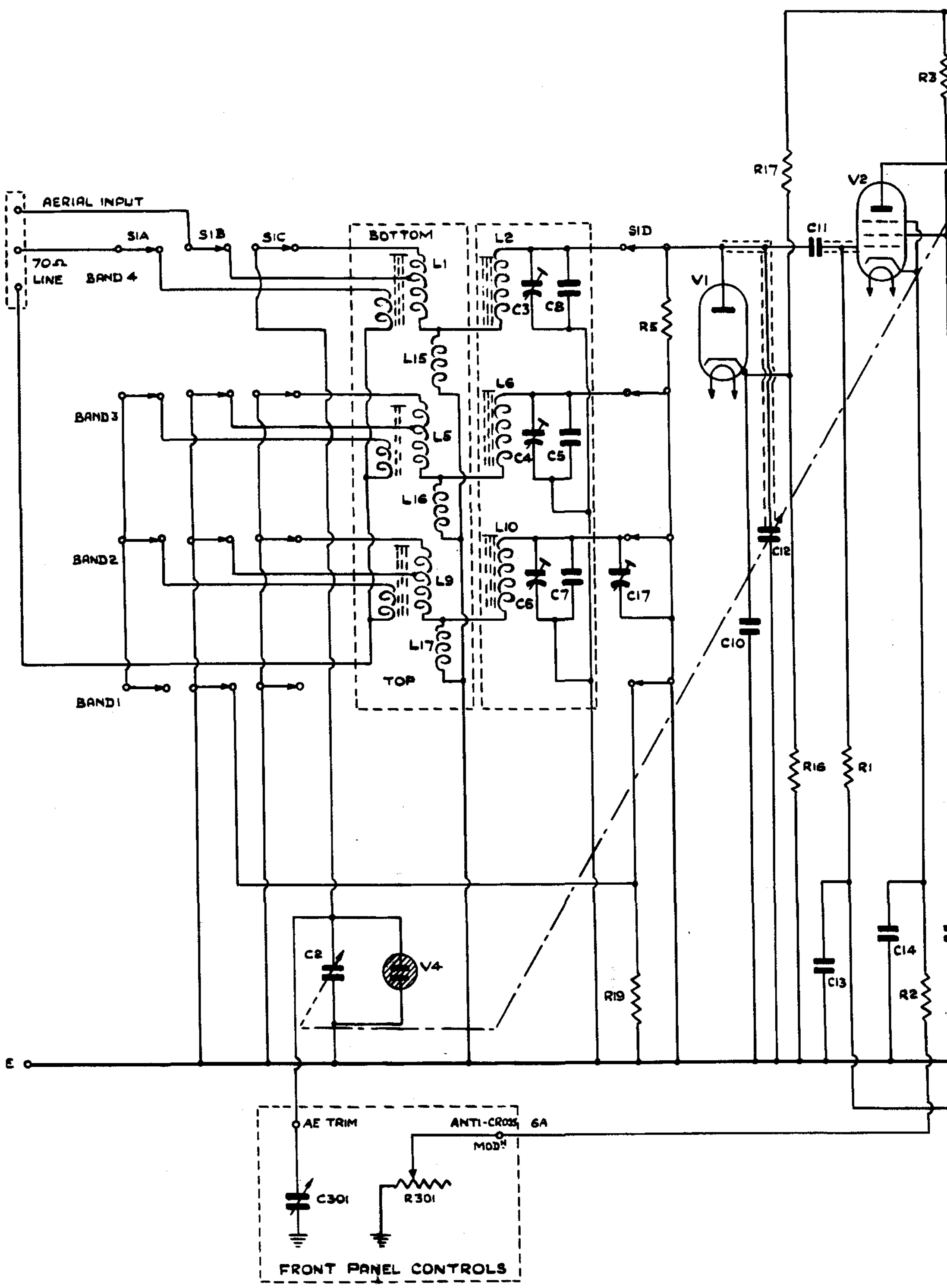
R B47
UIT SCHEMATIC



RECEIVER B4

CIRCUIT S

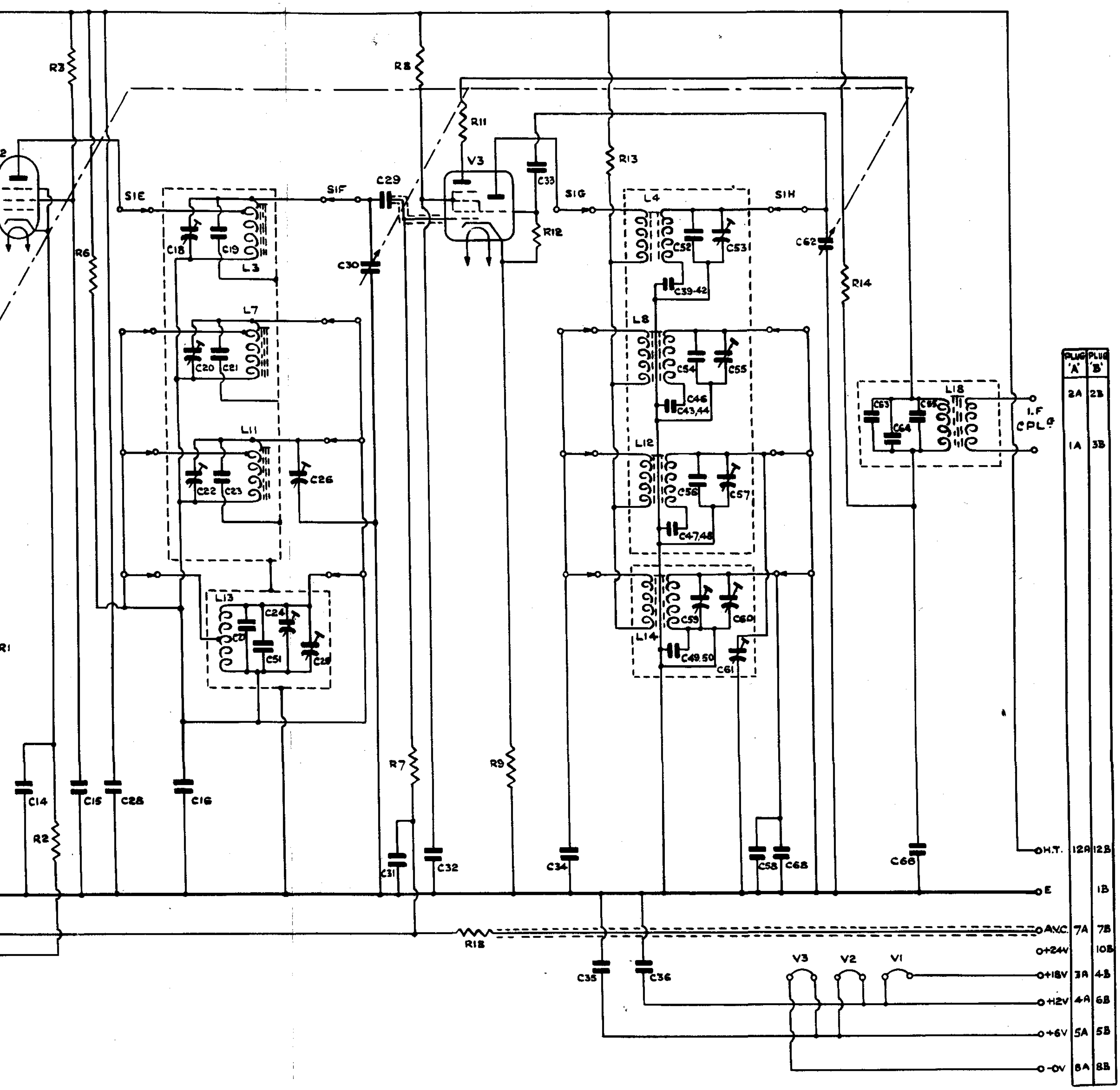
R	301 19 5 17 16 1 2
C	301 2 3 4 6 8 5 7 17 10 12 11 13 14
MISC.	S1A S1B S1C V4 L15 L16 L17 L1 L5 L9 L2 L6 L10 S1D V1 V2



R B47 R.F. STAGES

CUIT SCHEMATIC

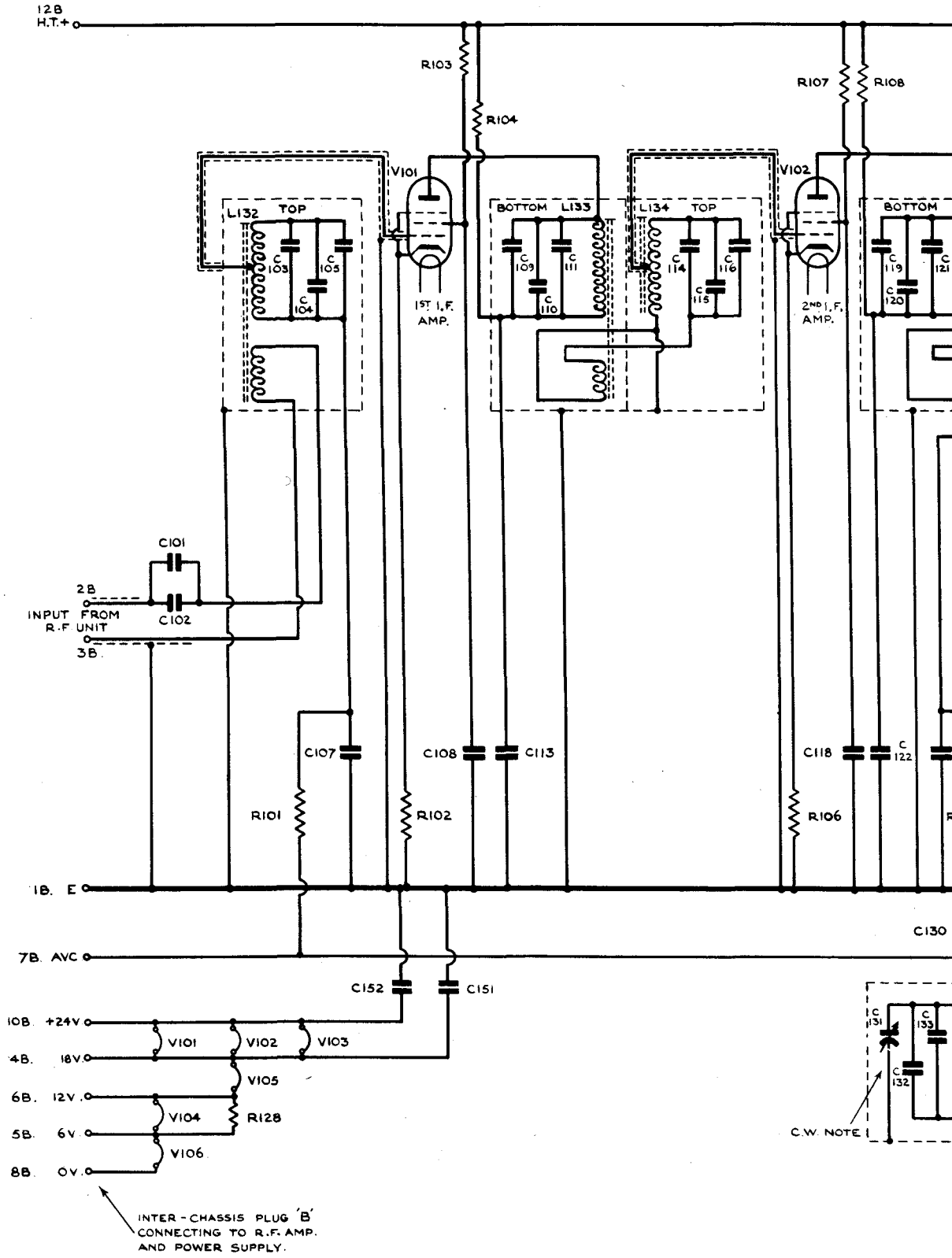
2 3 6				7 8	11 18	9	12	13				14		R
14 15 28	16 18 20 22	19 21 23	27 51 24	26 25	30	29 31	32	33 34	35 36	39-44 46-50 52-57	59-61	58 68	62 63-66	C
V2	SIE	L13 L3 L7 L11	SIF	V3	SIG	L4 L8 L14 L12	SIH	V3, V2, V1 HEATERS	L18					MISC.



RECEIVER

CIRCUIT

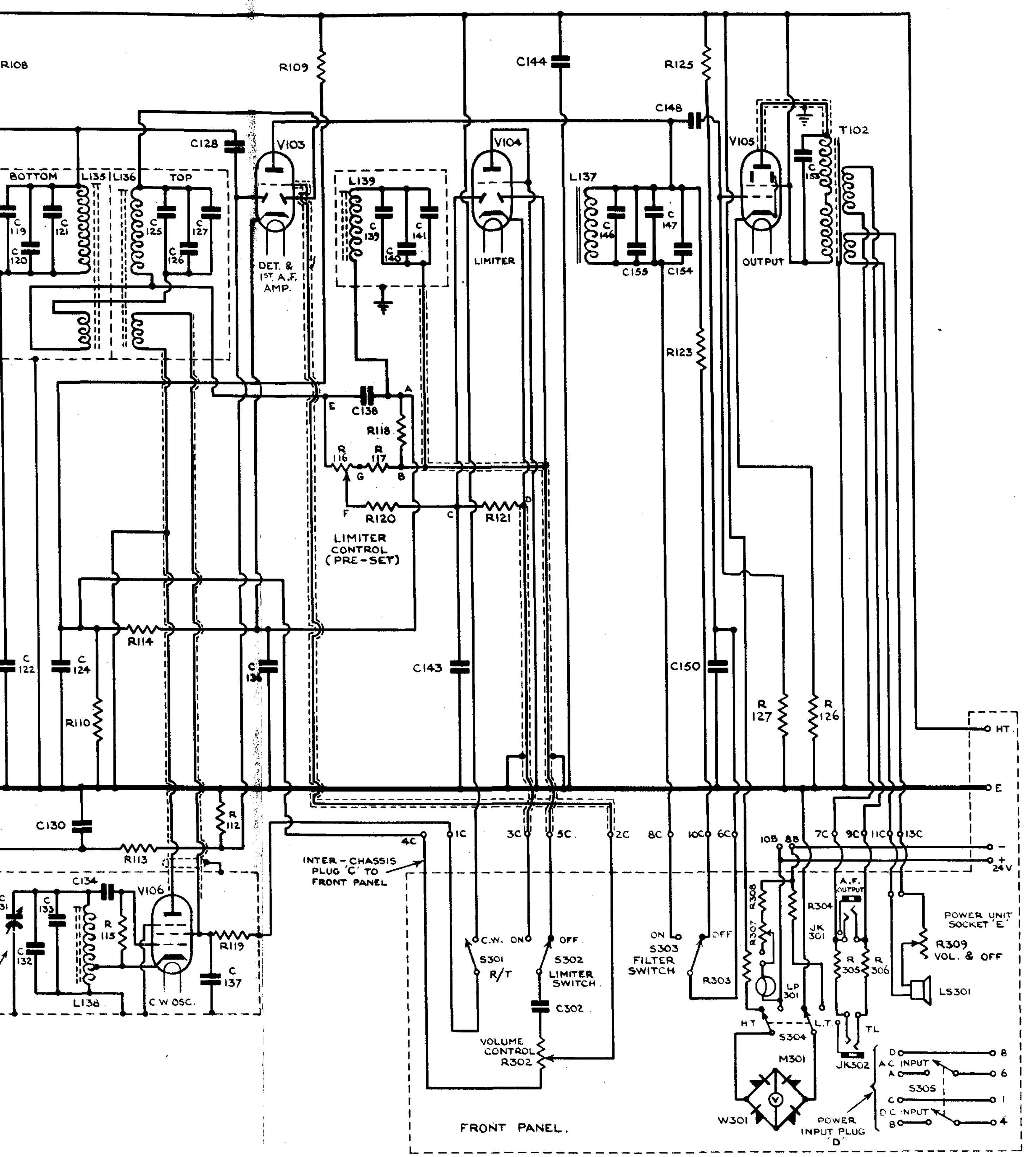
R.	128 101 102 103, 104 106 107 108
C.	101 102 103 104 105 107 152 151 108 113 109 110 111 114 115 116 119 118 122 131 120 132 121 124 133
MISC.	L132 V101 L133 L134 V102



VER B47 I. F. STAGES.

CIRCUIT SCHEMATIC

110, 115 114 113 112 119 109, 116, 117 120 118 121 302 125 123 303 308 307 127 304 126 305 306 309	R.
120 132 121 124 133 130 134 125 126 127 128 136 139 138 140 141 143 144 302 146 155 147 148 154 150 153	C.
L135, L136 L138 V106 V103 L139 V104 S301 S302 L137 S303 V105 LP301, W301 S304 M301 T102 JK301 JK302 LS301 S305	MISC.

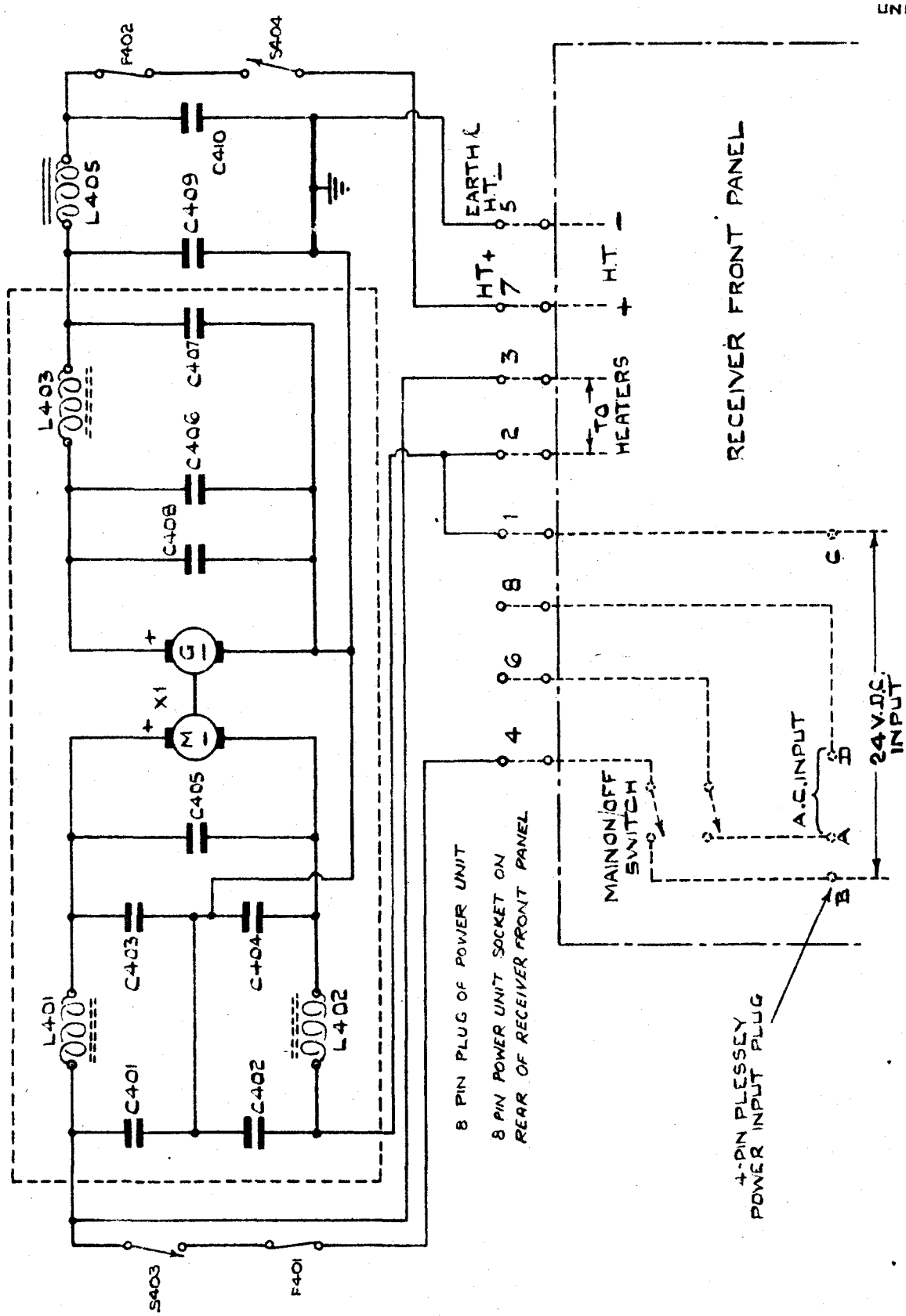


RECEIVER D.C. POWER UNIT.

CIRCUIT SCHEMATIC.

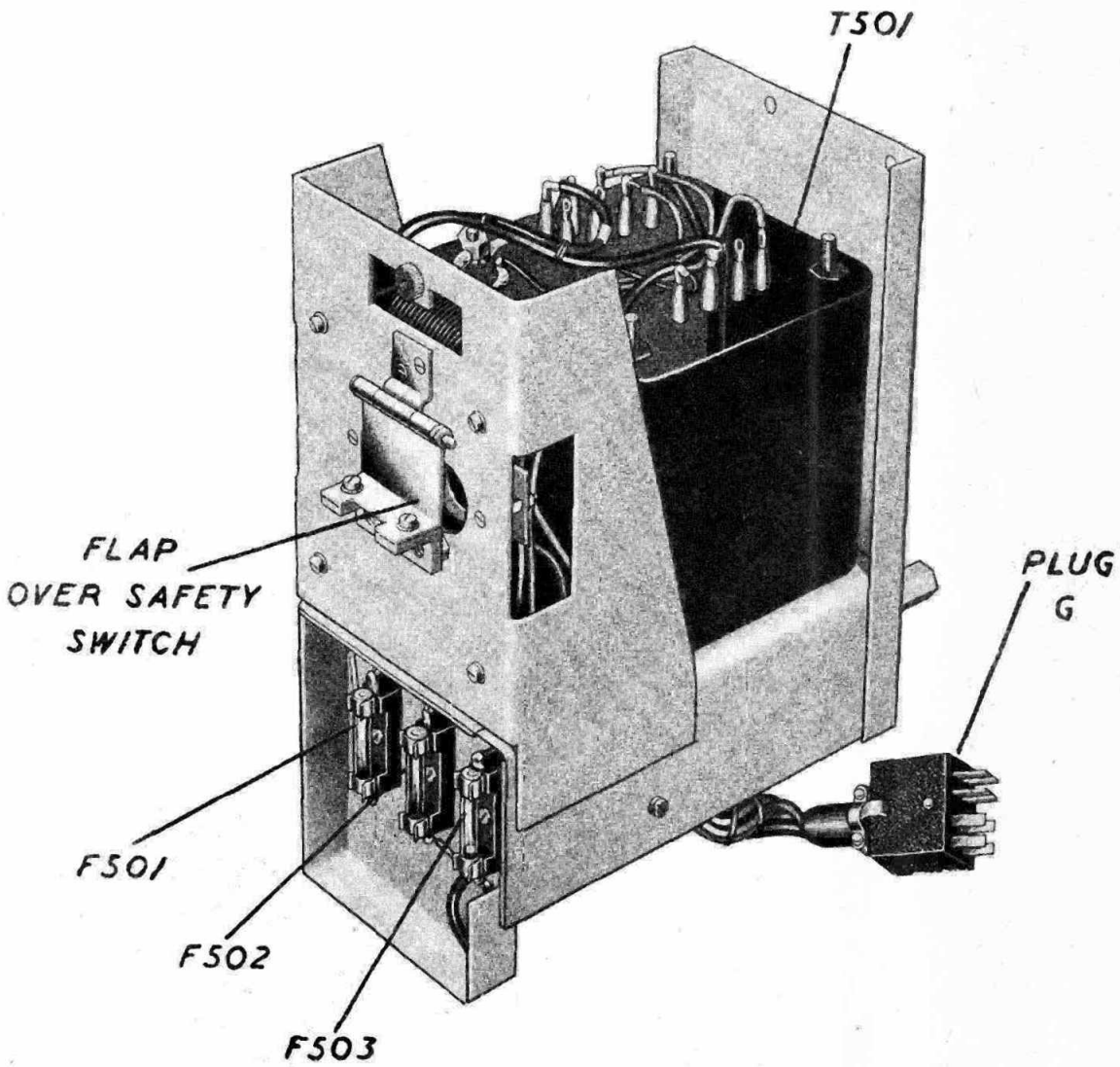
29

REC. D.C. POWER UNIT.



AC POWER UNIT

FOR RECEIVERS B46 AND B47

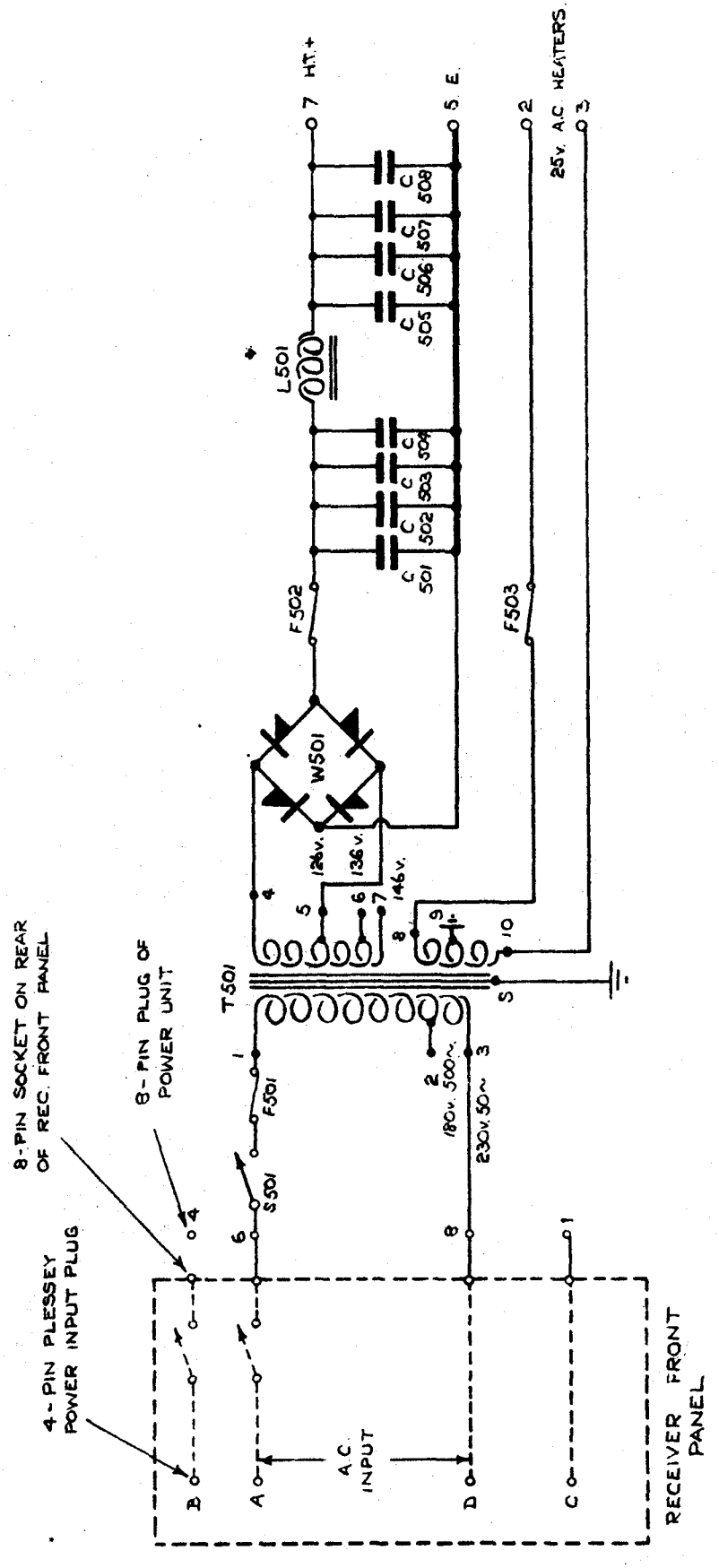


RECEIVER A.C. POWER UNIT.

CIRCUIT SCHEMATIC.

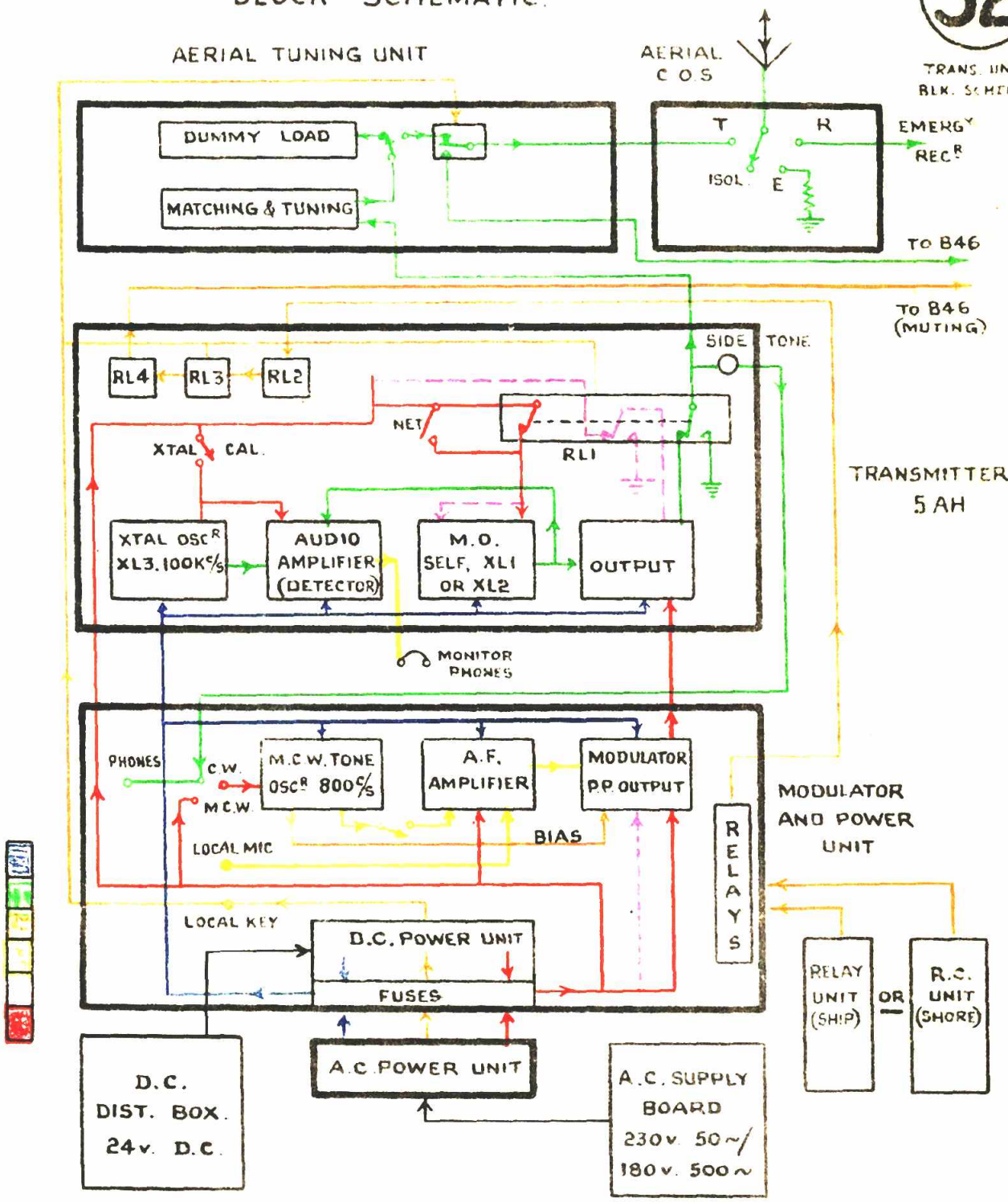
31

REC. A.C. POWER SCHEMATIC.



TRANSMITTER UNITS

BLOCK SCHEMATIC.



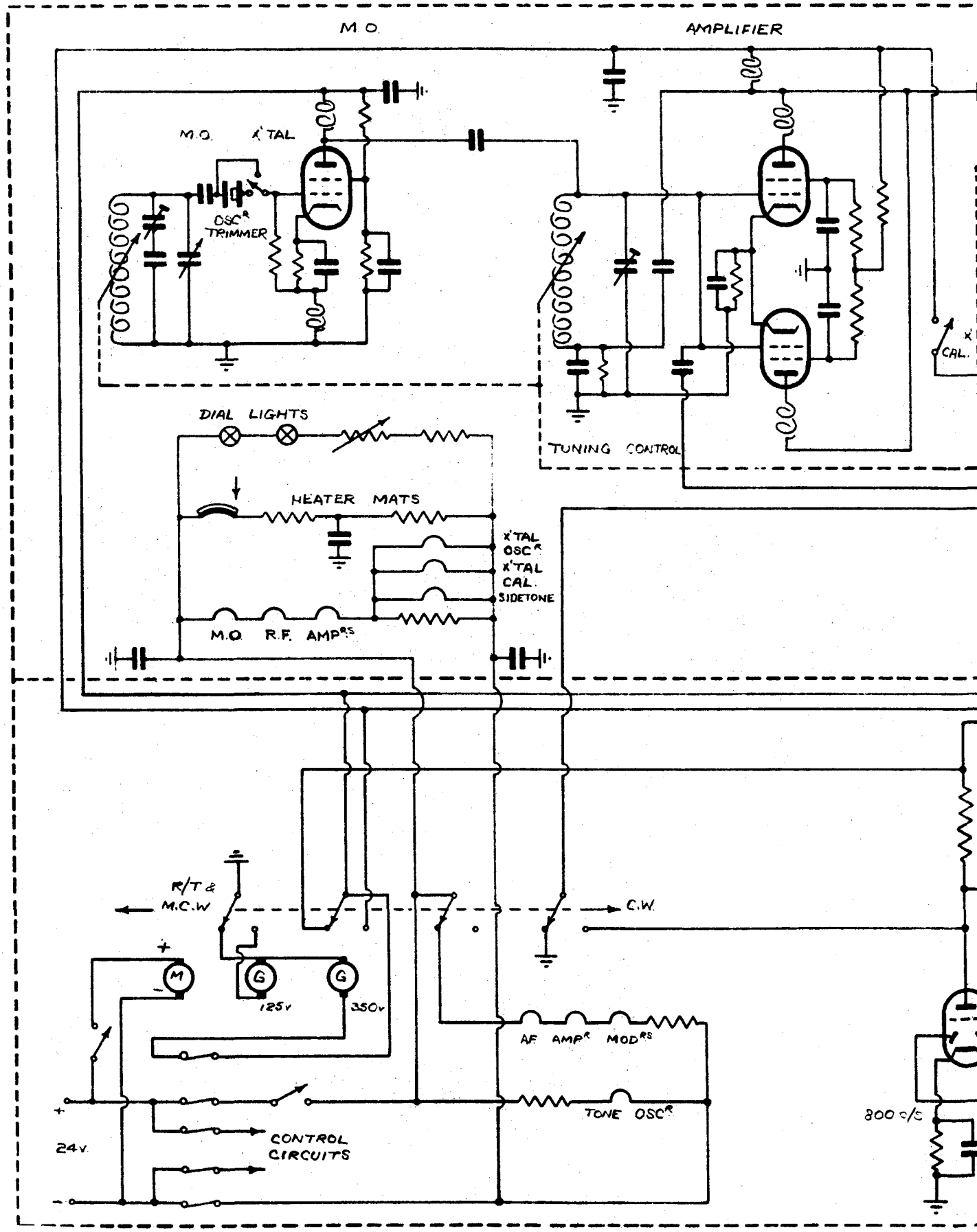
XL1 AND XL2 PROVIDE ALTERNATIVE FREQUENCY CHANNELS.

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

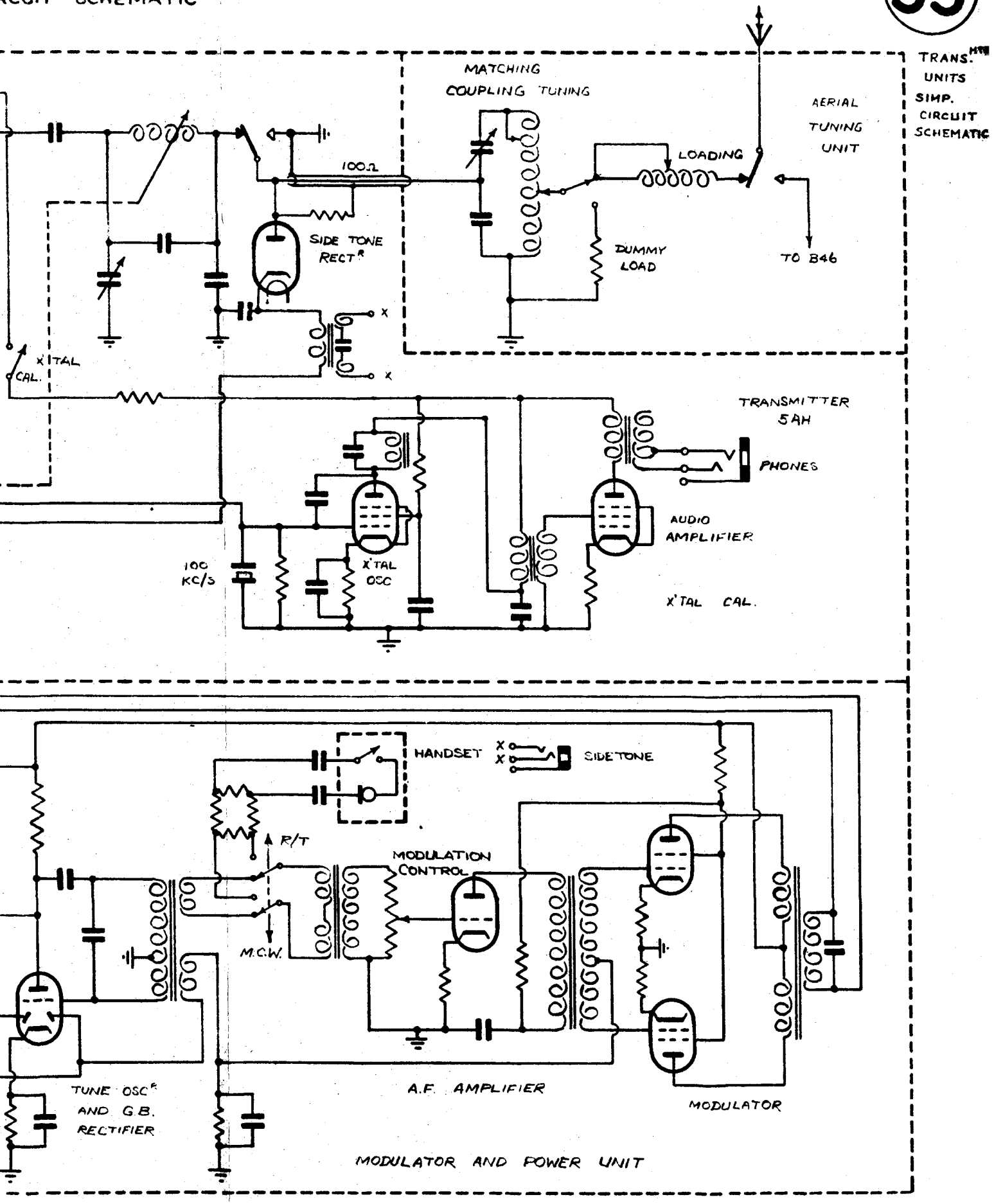
COLOUR CODE	
BROWN	BIAS AND CONTROL CIRCUITS
RED	ANODE H.T. SUPPLY.
PURPLE	SCREEN H.T. SUPPLY.
BLUE	HEATER AND FILAMENT SUPPLY
GREEN	R.F. CIRCUITS
YELLOW	MODULATION CIRCUITS

TRANSMITTE

SIMPLIFIED CIRCUIT



TTER UNITS
RCUIT SCHEMATIC



CONTROL

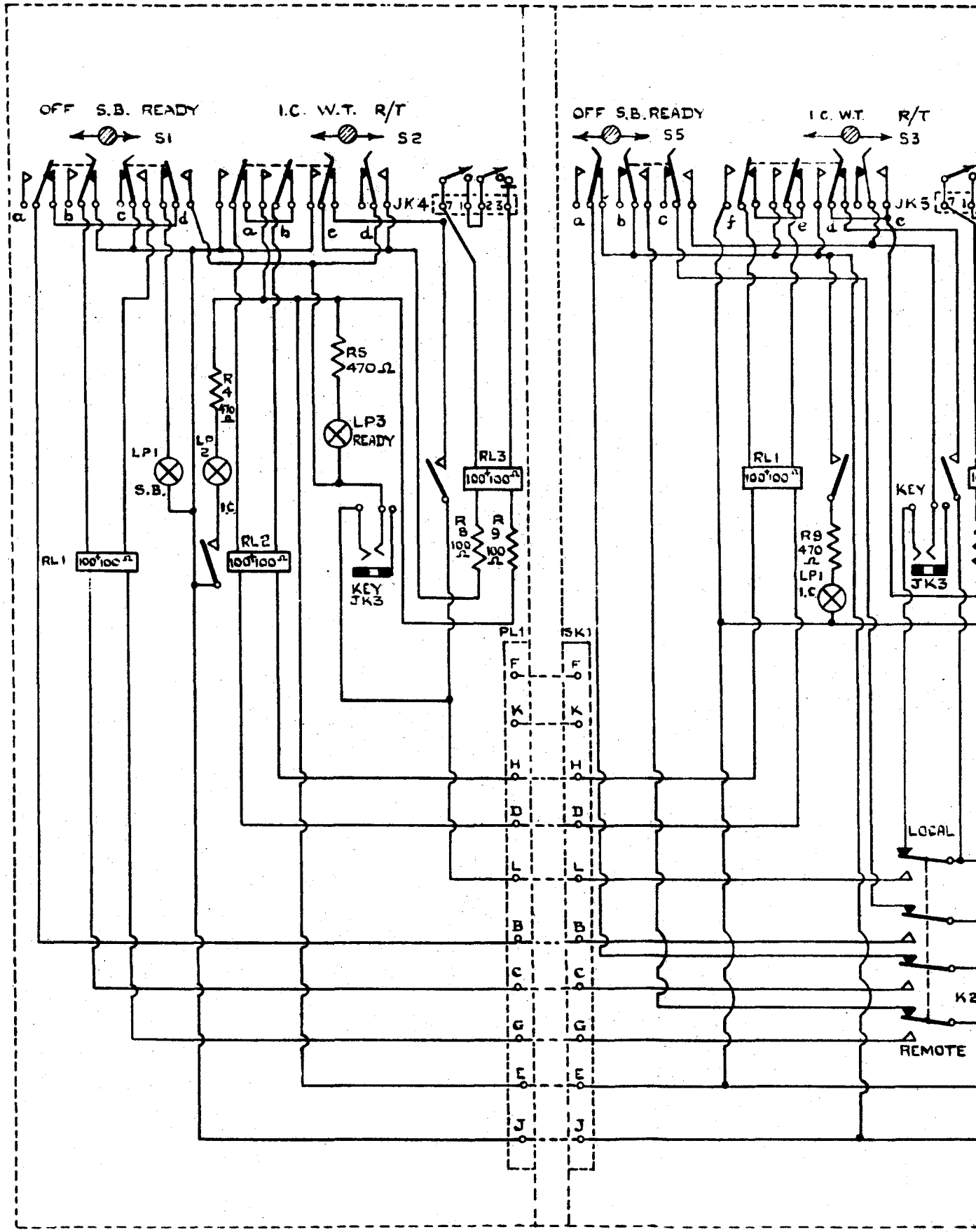
SIMPLIFIE

CONTROL UNIT REMOTE

REMOTE CONTROL CABLE

MODULATO

(DOUBLE PRESSEL

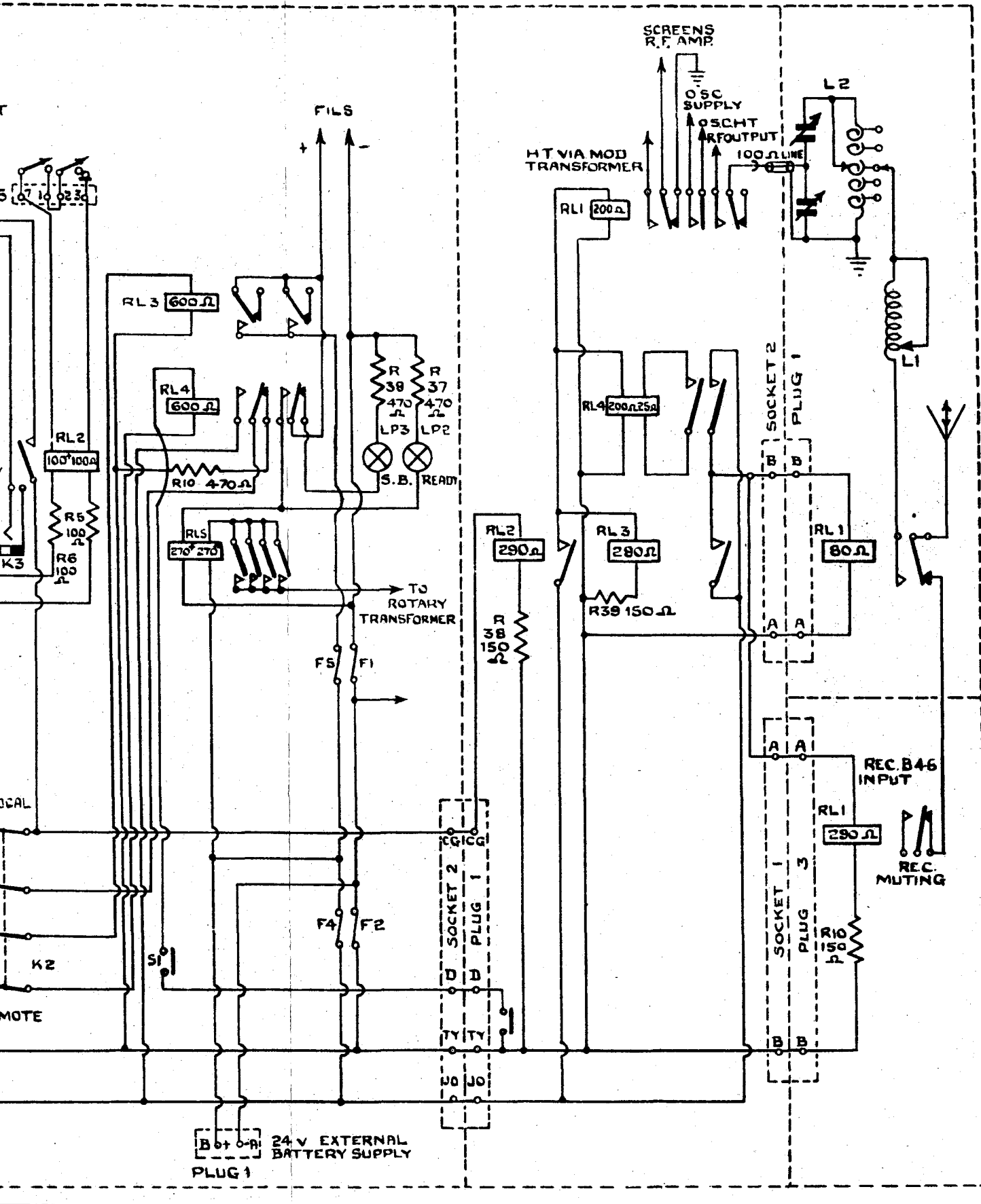


OL CIRCUIT.
IFIED SCHEMATIC.

LATOR UNIT
SEL CONNECTIONS)

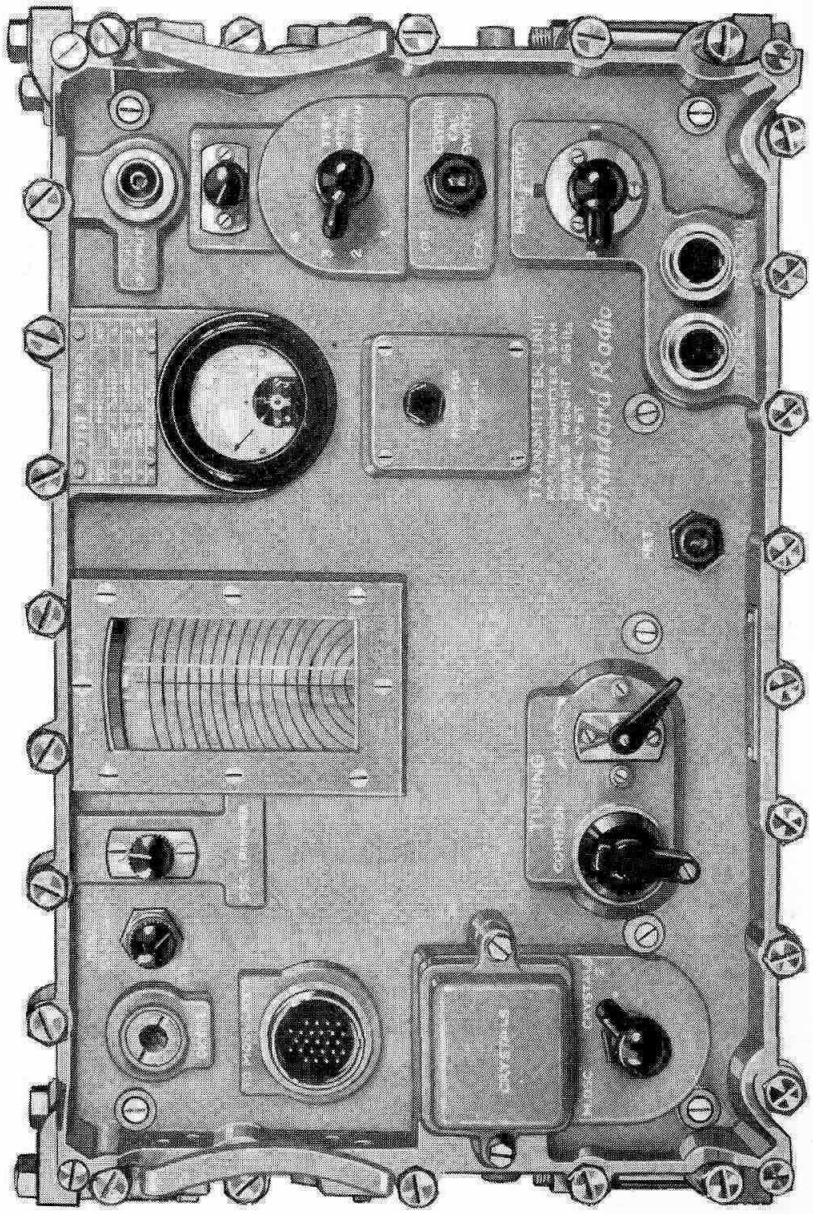
TRANSMITTER A.T.U.

34
CONTL. CIRCUIT
SIMP. SCHEMATIC



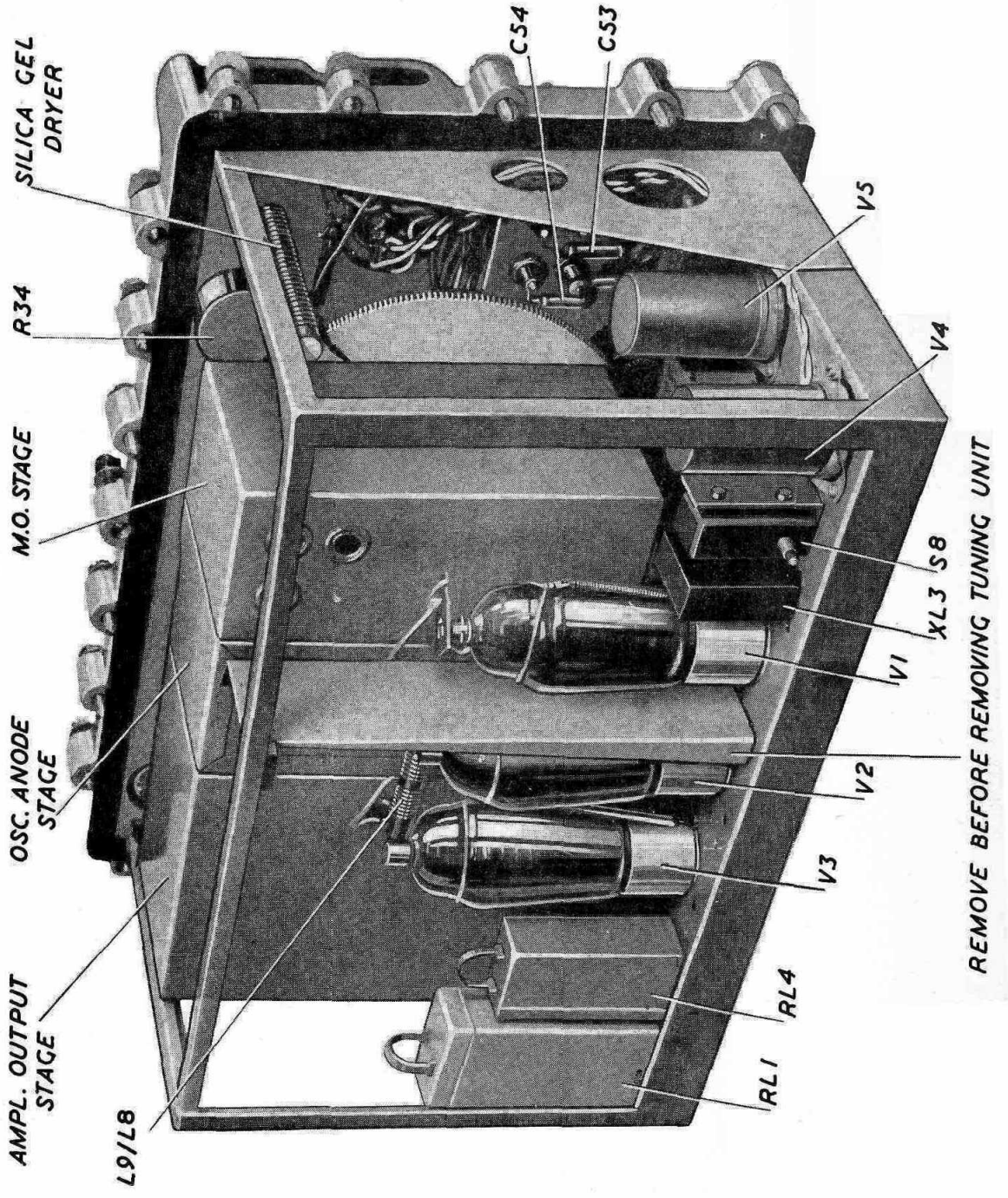
TRANSMITTER 5AH

FRONT VIEW



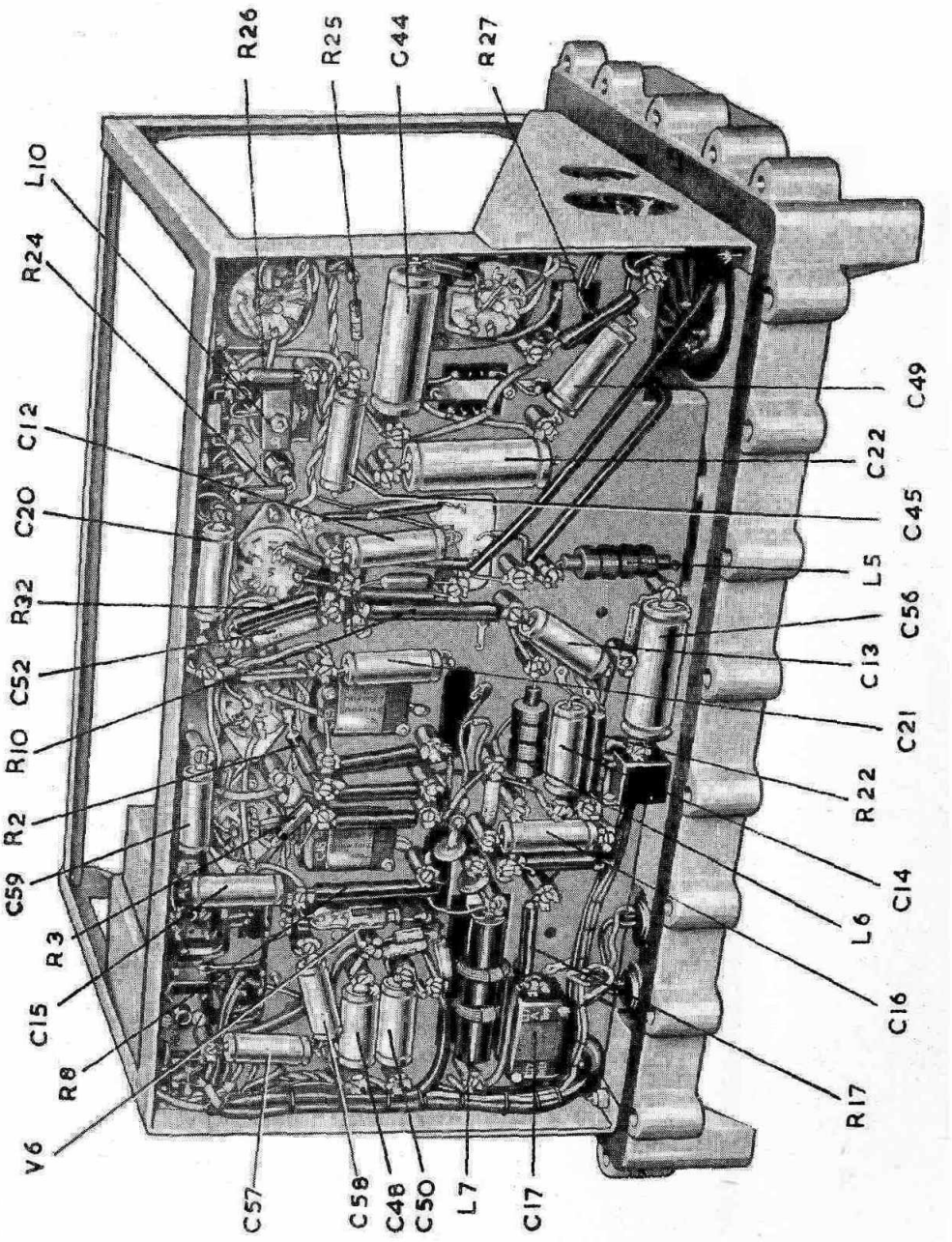
TRANSMITTER 5AH

REAR VIEW

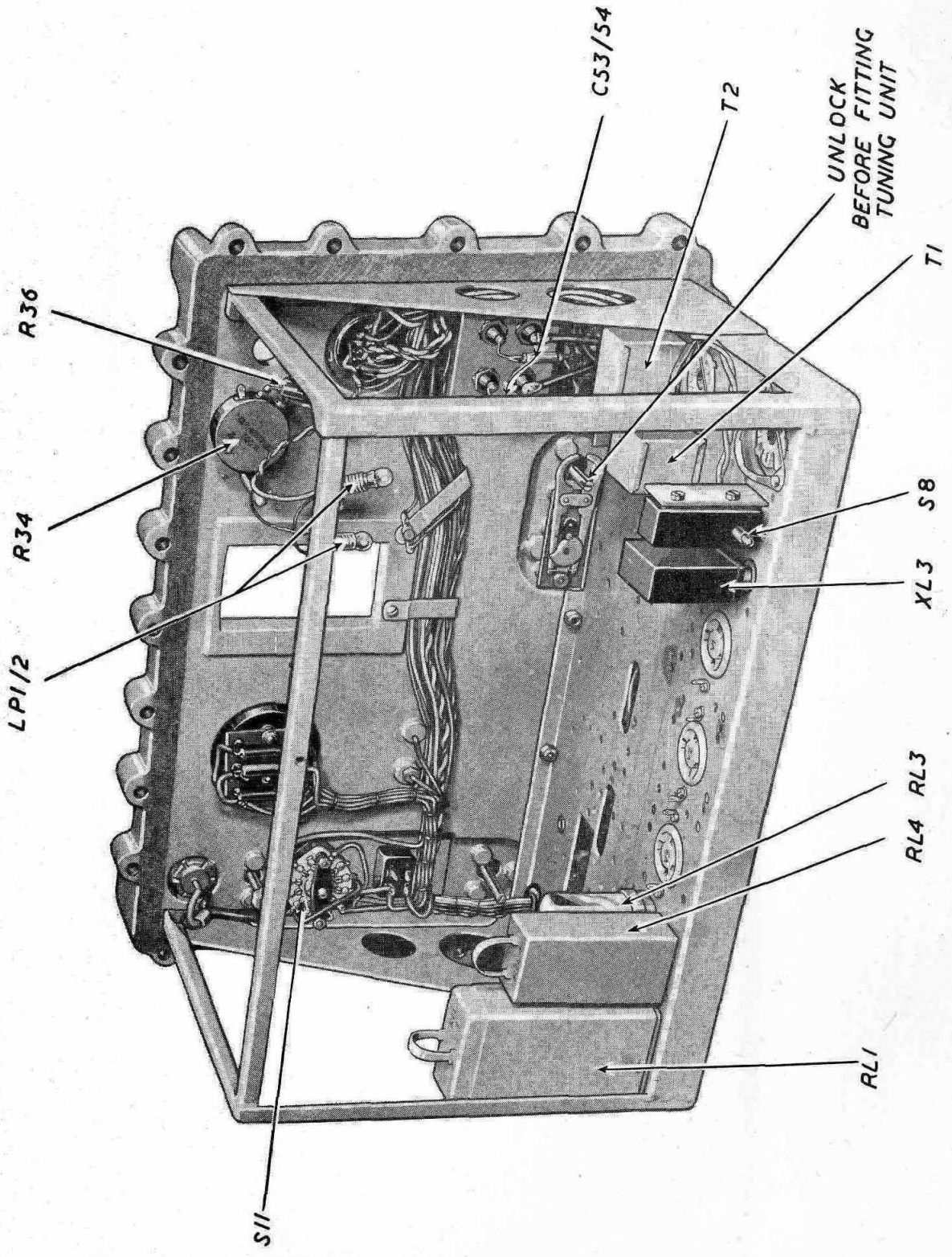


TRANSMITTER 5AH

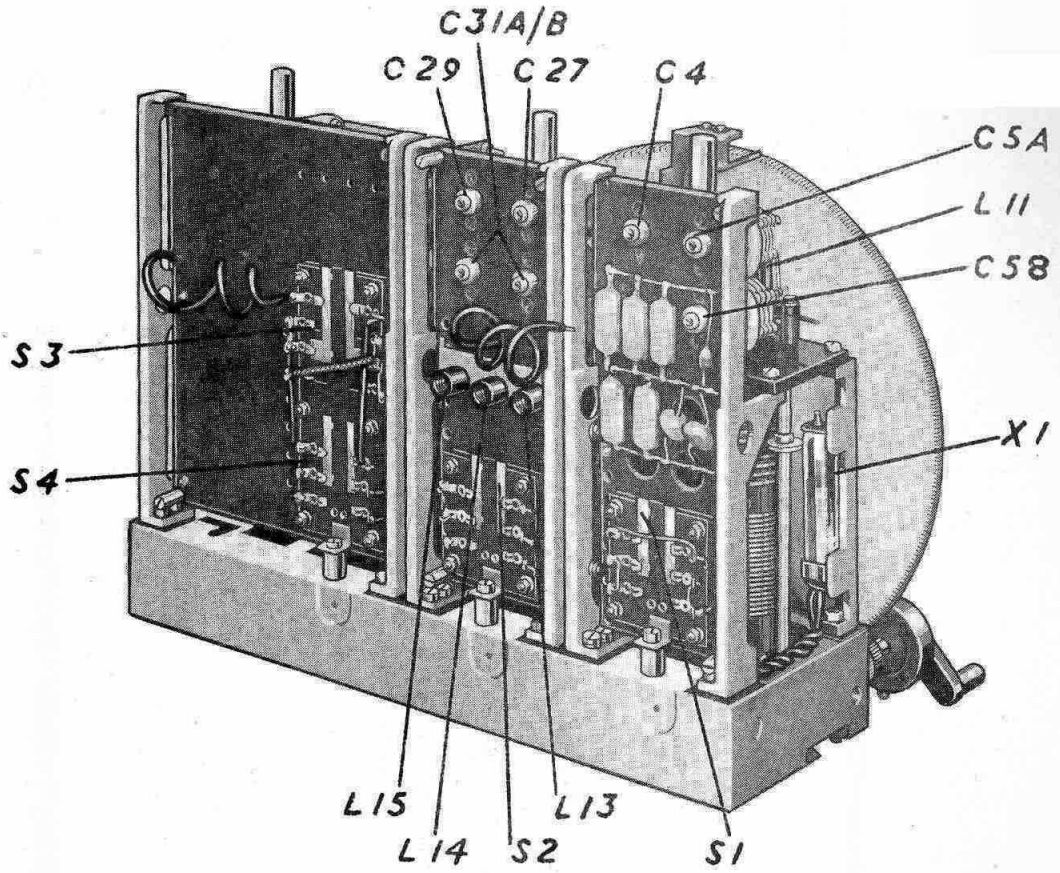
BOTTOM VIEW

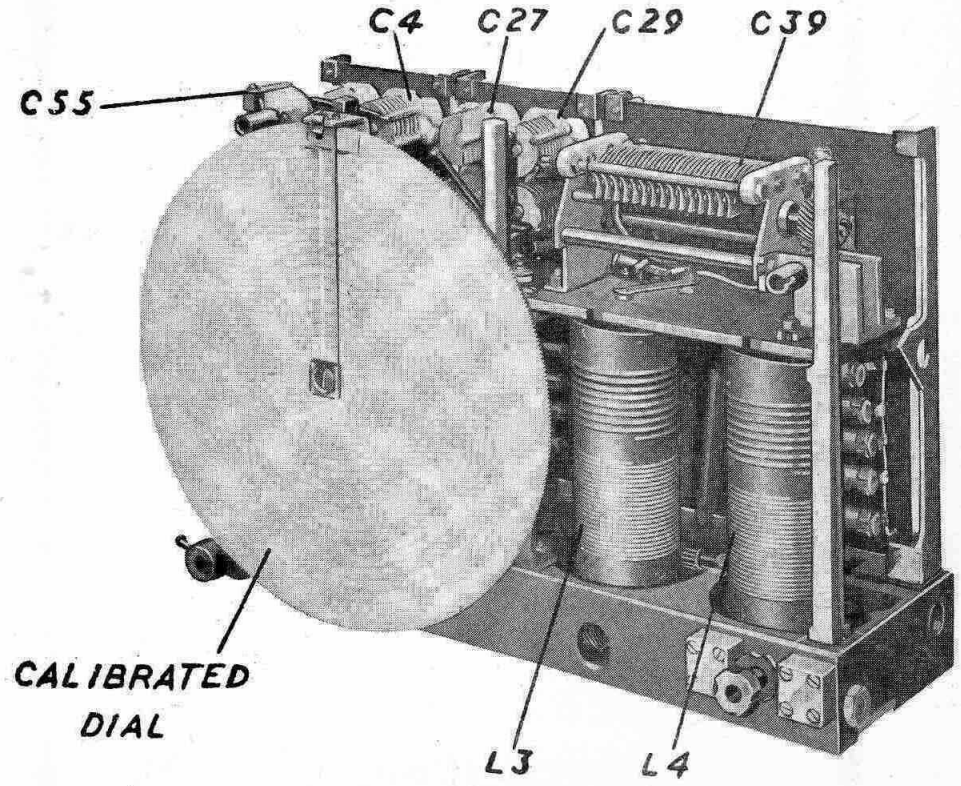


TRANSMITTER 5AH
CHASSIS



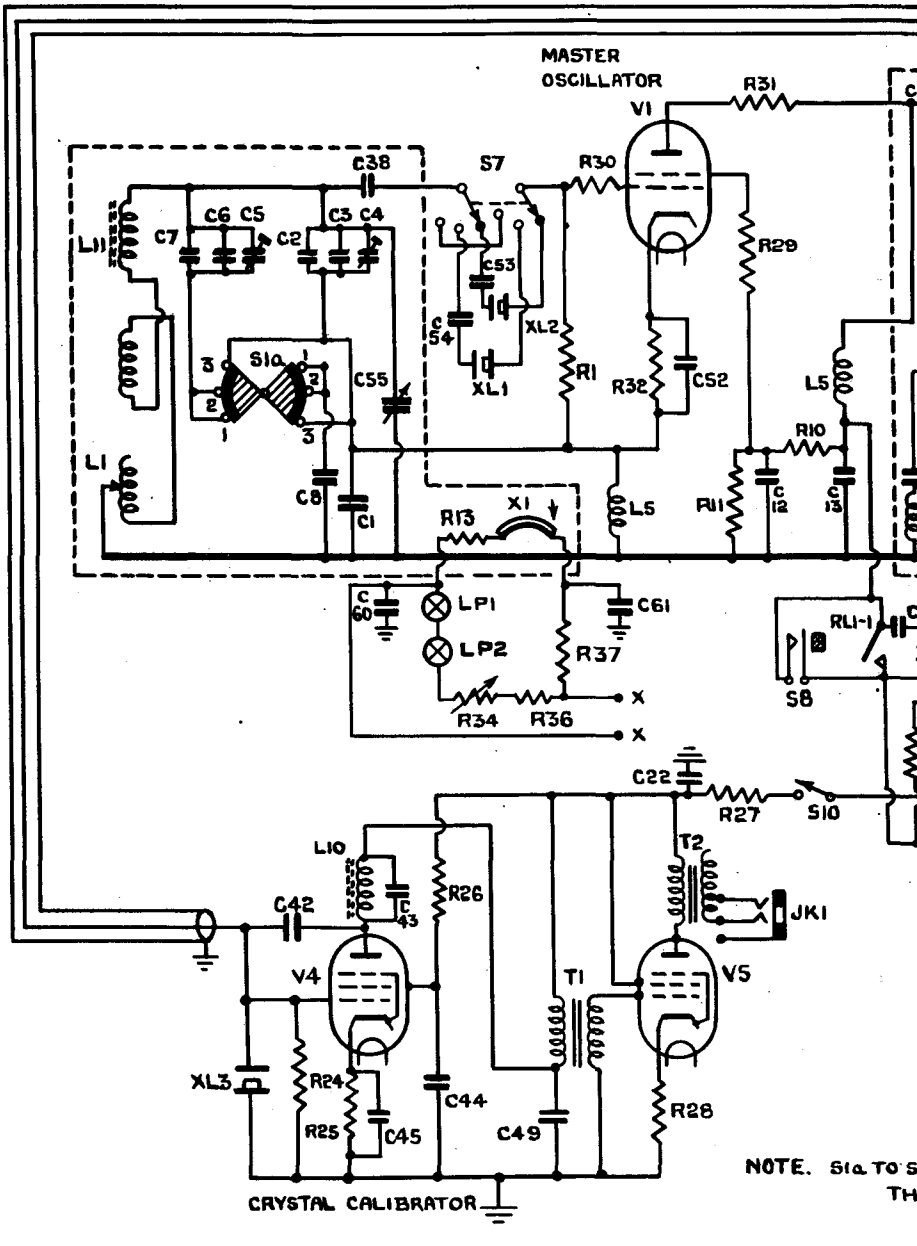
TRANSMITTER 5AH
TUNED CIRCUITS





TR

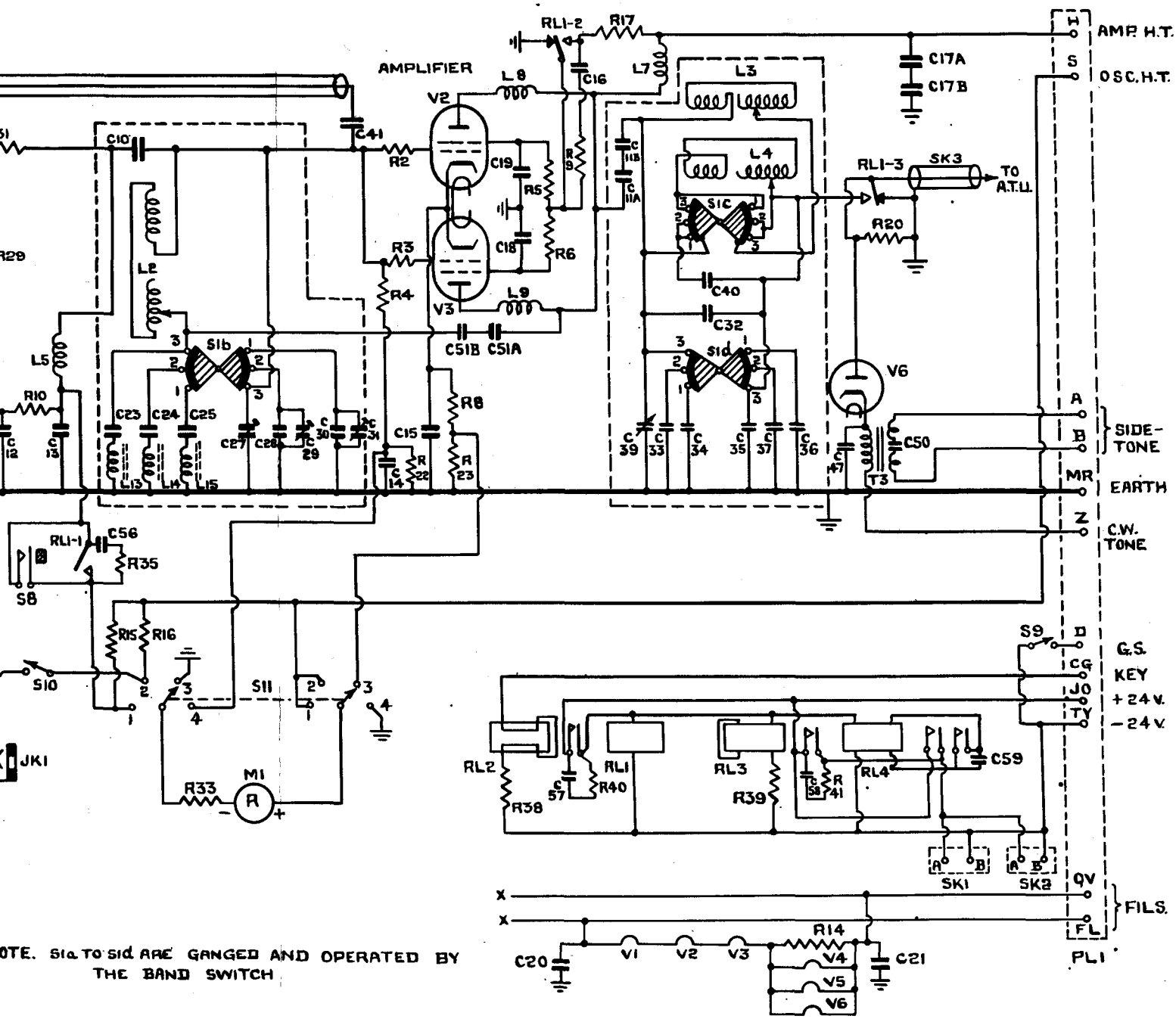
R	24 25 26 13 34 1 37 36 30 32 28 31 29 11 27 10 35 15
C	7 6 5 42 2, 3, 38, 55 4 43 8 1 60 45 54 44 53 49 61 52 22 12 13 23 56
MISC.	L11 L1 XL3 S10 V4 L10 LP1 LP2 XL1 S7 XL2 T1 L5 V1 T2 V5 S8 JK1 S10 L6 L13



TRANSMITTER 5 AH

CIRCUIT SCHEMATIC

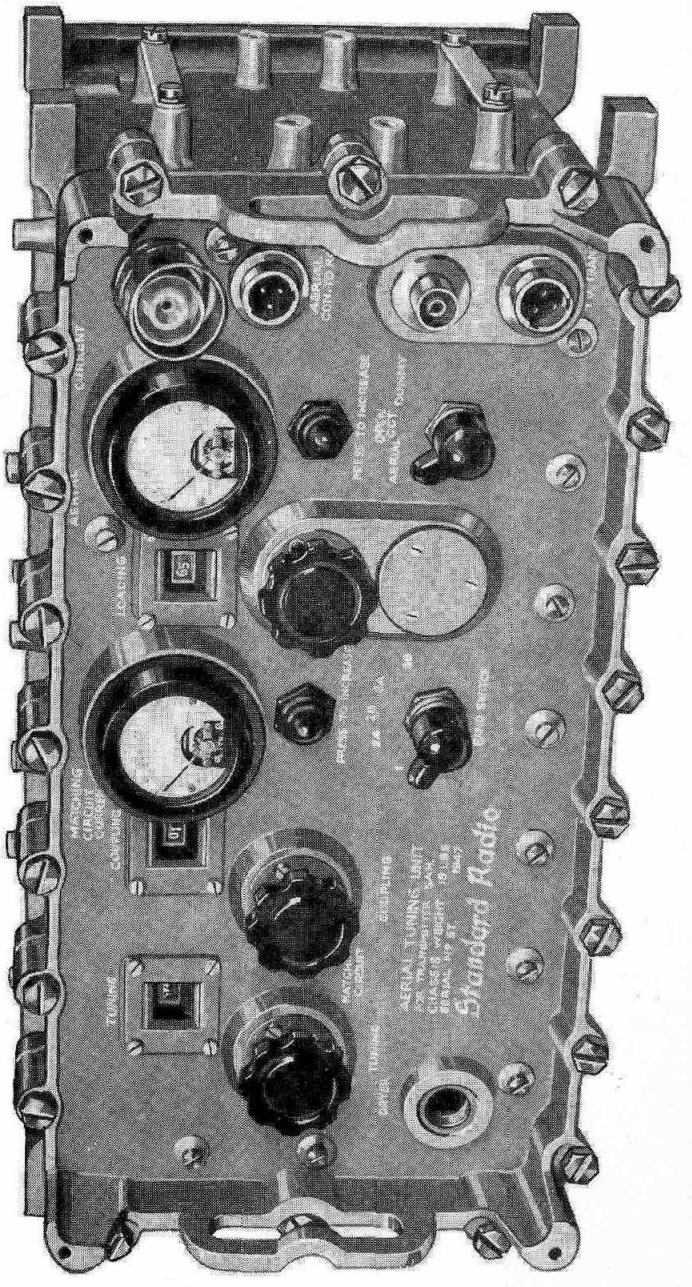
10 35 15 16 33 4. 2 3 22 8 23 38 5 6 9 40 17 39 14 41 20	R
13 23 56 10 24 25 27, 28, 29, 30 41 31 14 15 51B 51A 19 18 20 16 57 11A/B 39 33,34 40 32 35 37 36 58 47 21 50 17A/B 59	C
S8 S10 L6 L13 L2 L14 L15 S1b S11 M1 V2 V3 L8 L9 RL2 RL1 L7 S1c S1d L3 L4 RL3 V6 T3 RL4 SK1 SK2 S9 PL1	MISC.



NOTE. S1a TO S1d ARE GANGED AND OPERATED BY THE BAND SWITCH

AERIAL TUNING UNIT

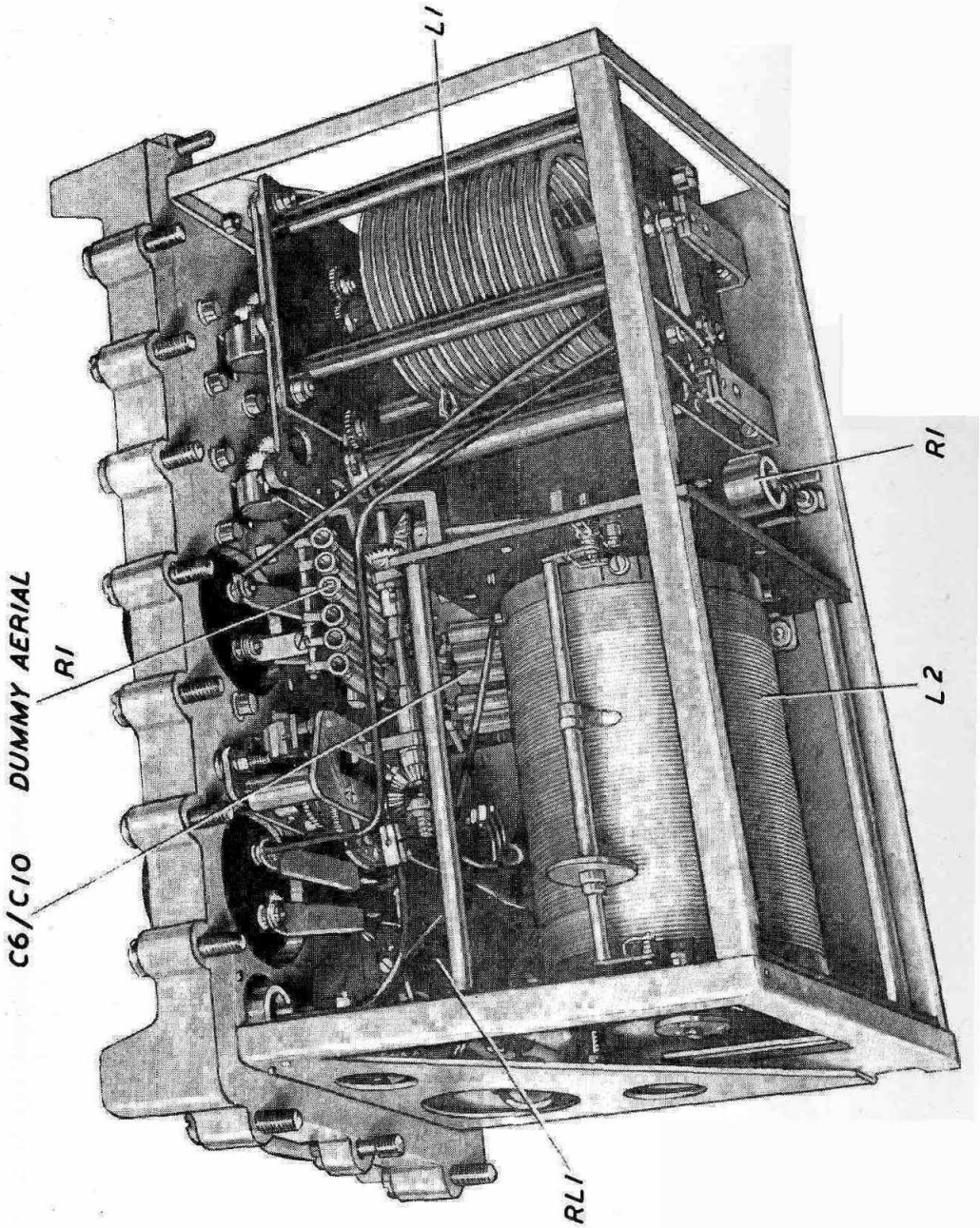
FRONT VIEW



AERIAL TUNING UNIT

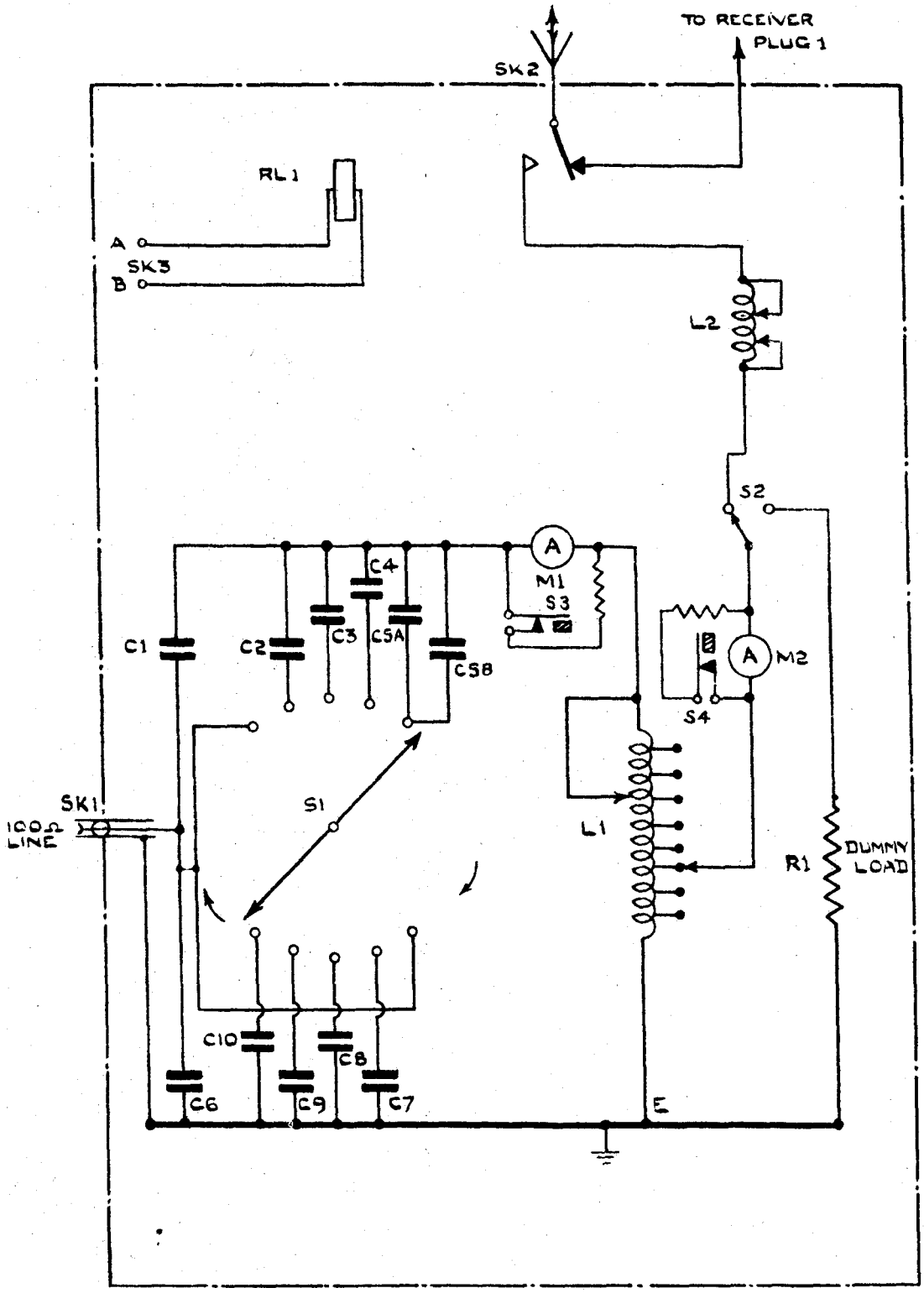
42

REAR VIEW



AERIAL TUNING UNIT.

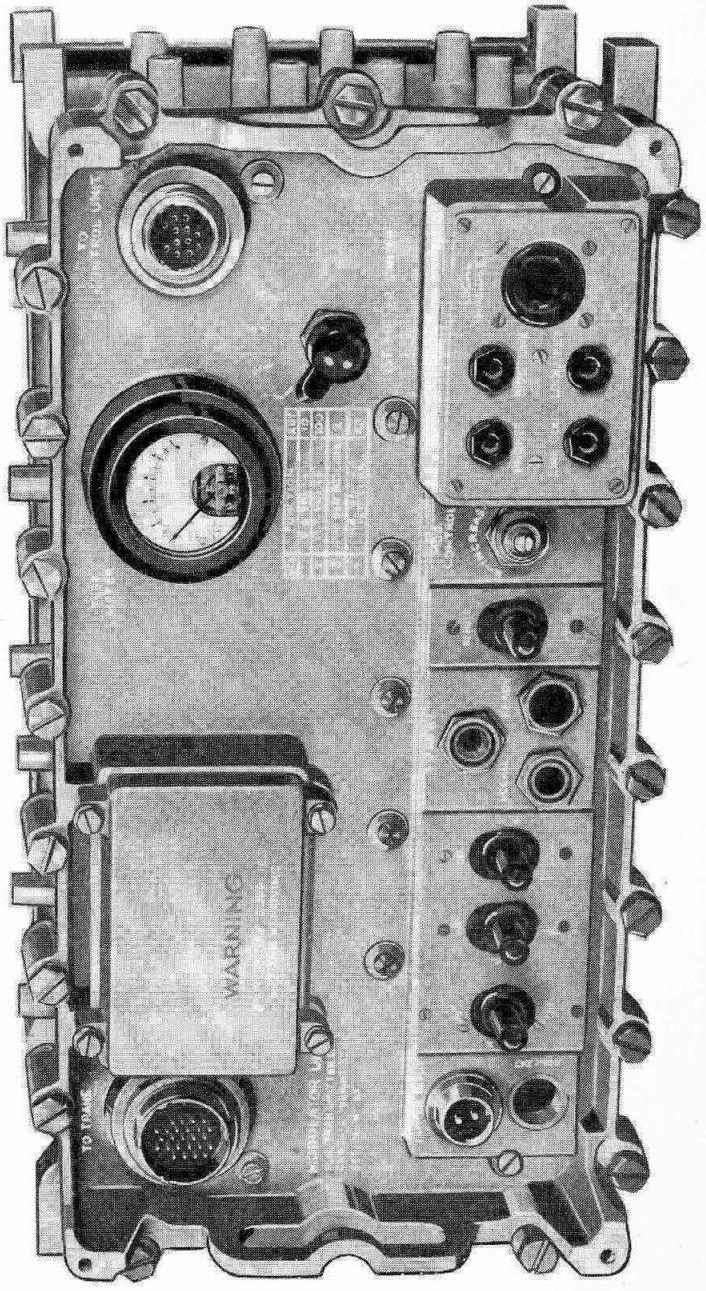
CIRCUIT SCHEMATIC.



MODULATOR AND POWER UNIT

(44)

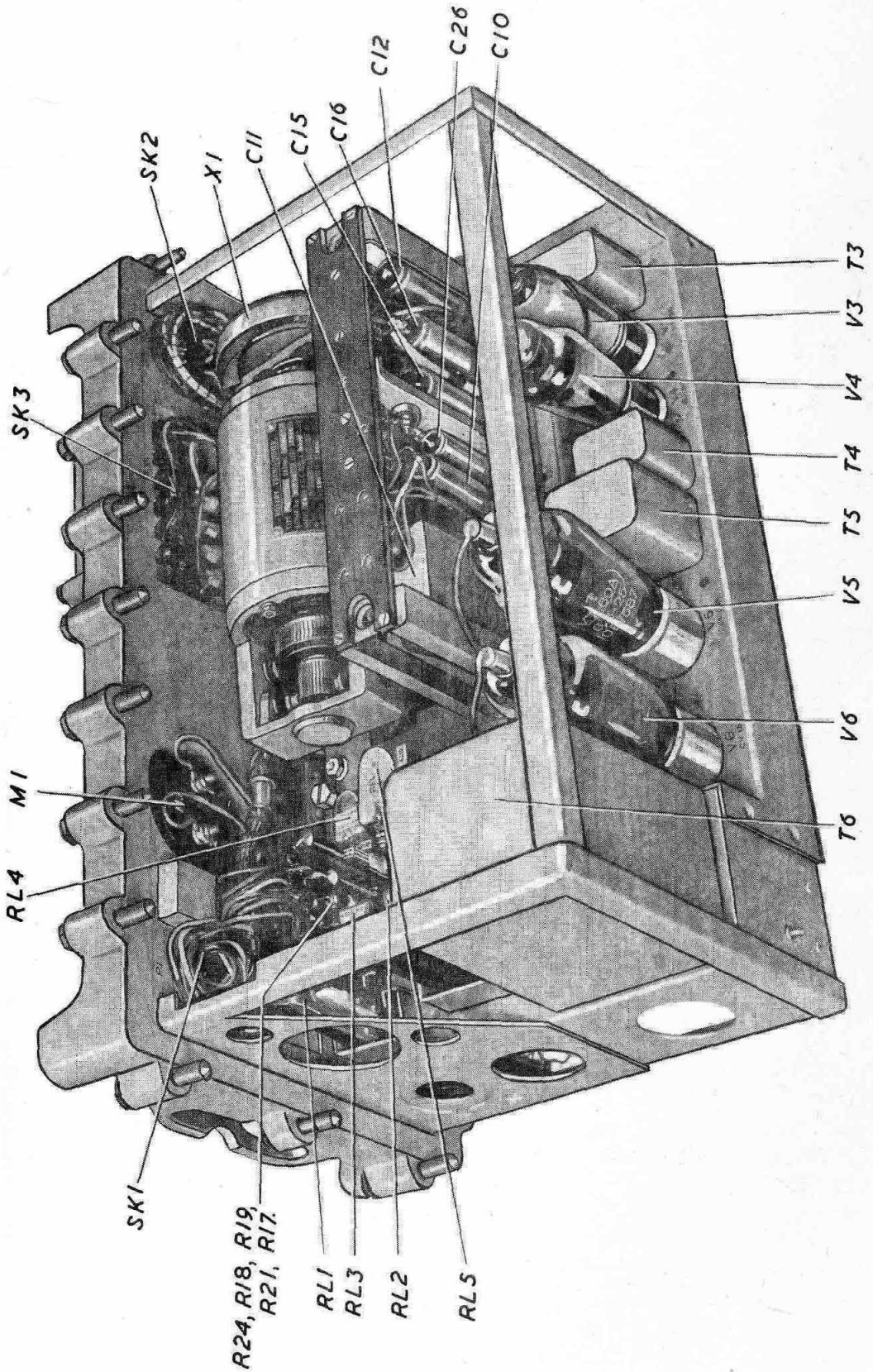
FRONT VIEW



MODULATOR & POWER UNIT

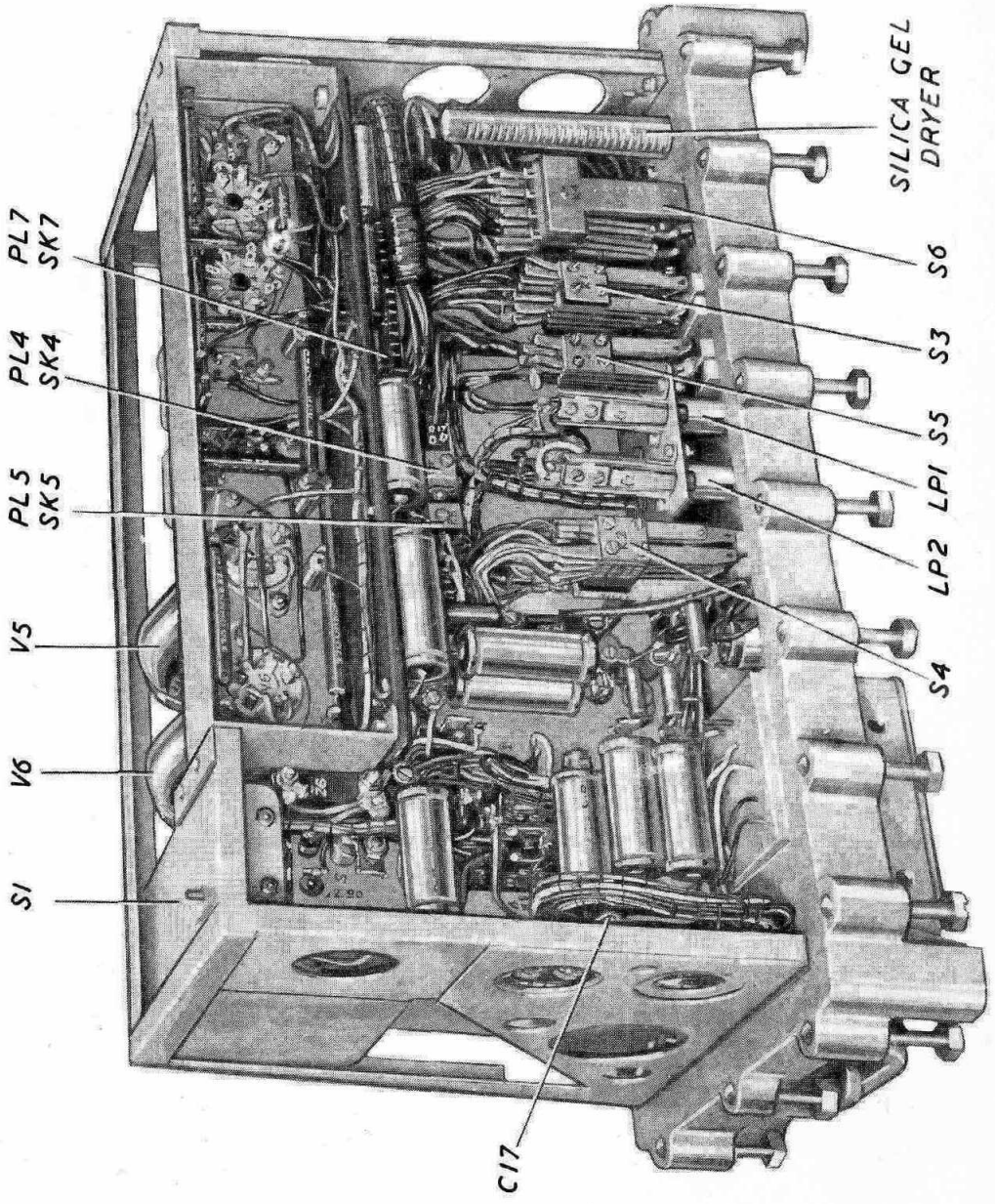
45

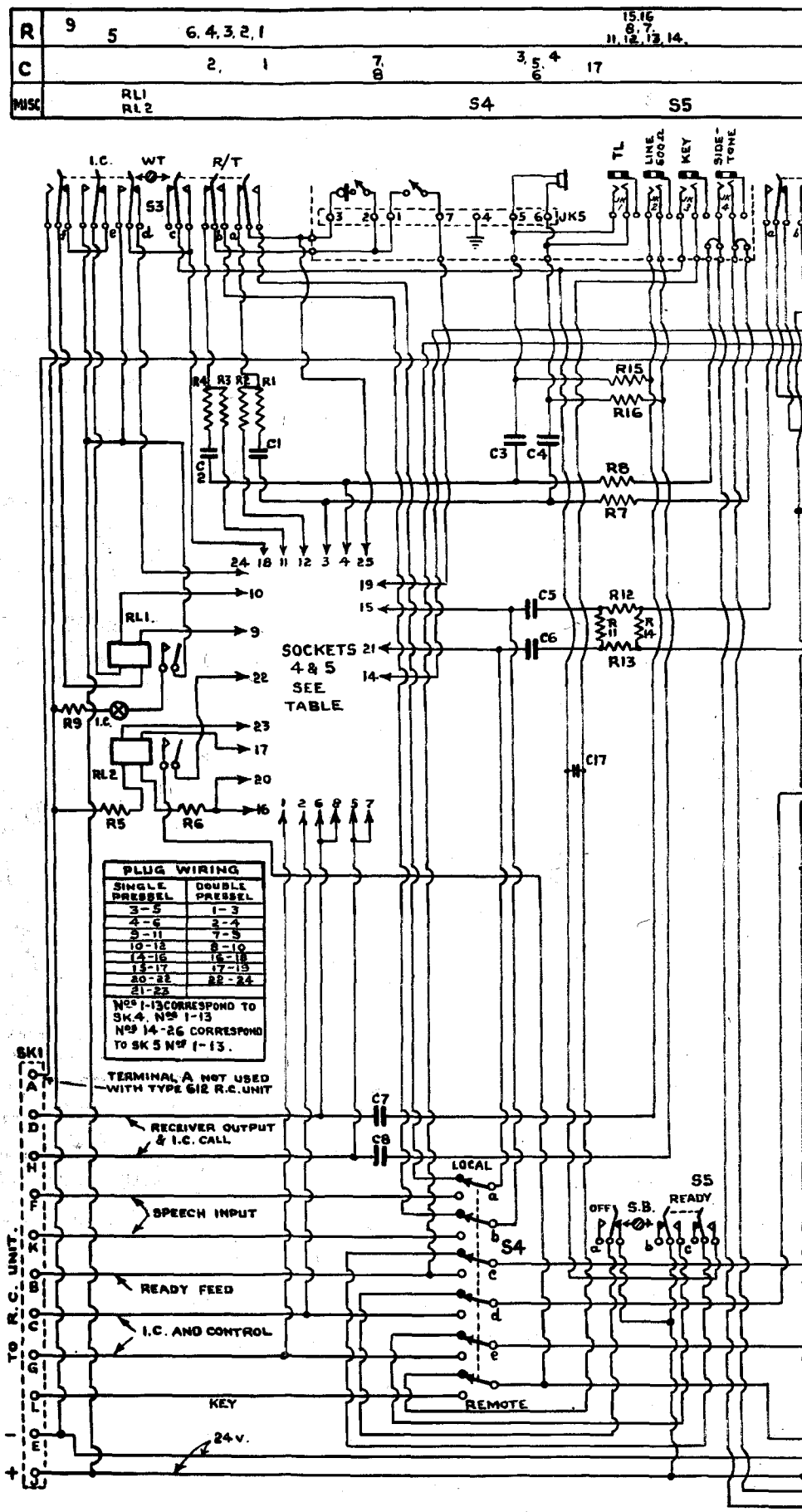
TOP VIEW



MODULATOR & POWER UNIT

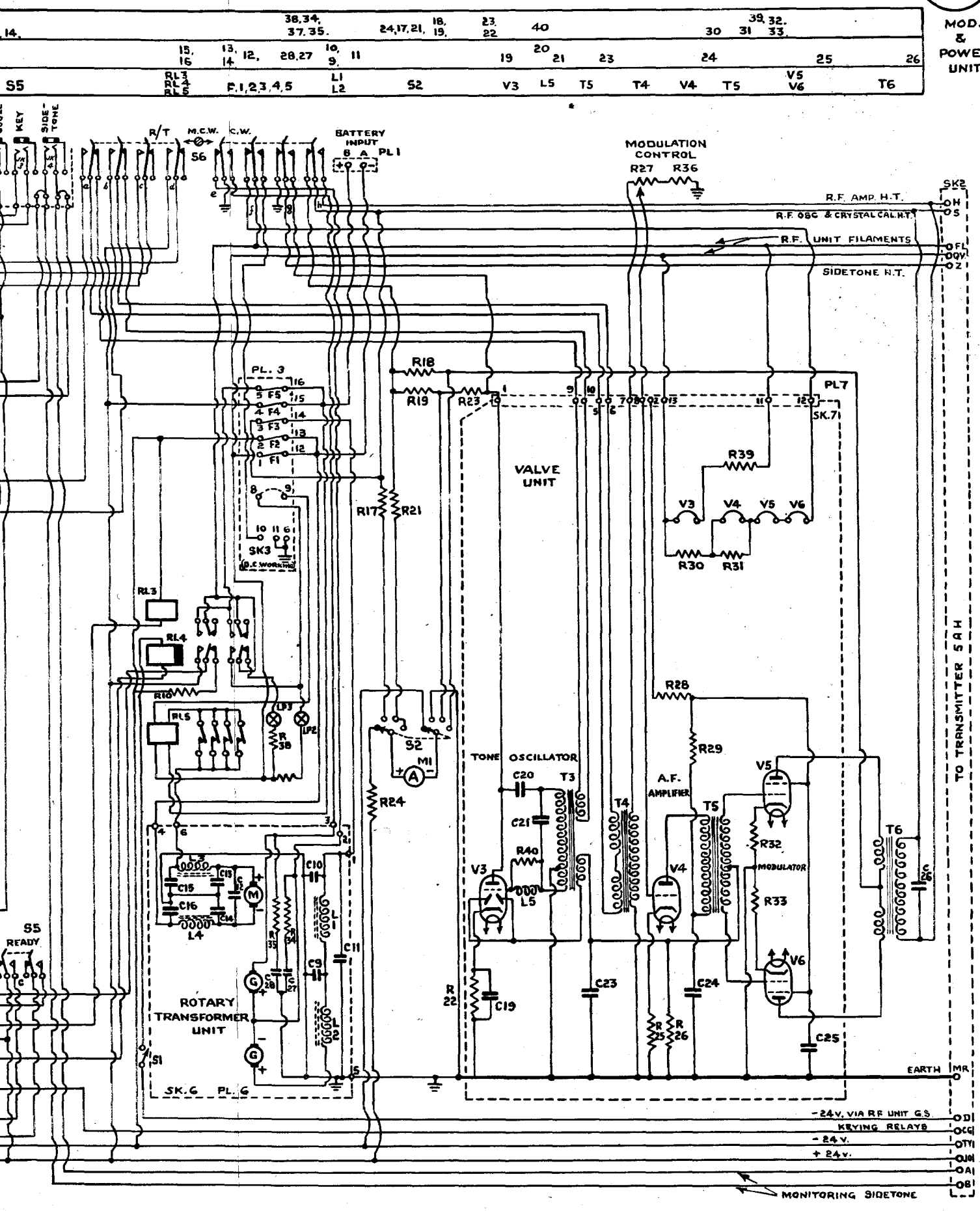
BOTTOM VIEW




R
C
MISC
RL1
RL2
S4
S5
I.C.
WT
R/T
S3
JK5
TL
LINE GOOD
KEY
SIDE-TONE
R1
R2
R3
R4
C1
C2
R15
R16
C3
C4
R8
R7
C5
C6
R12
R13
SOCKETS 4 & 5 SEE TABLE
RL1.
RL2
R9
R5
R6
C17
PLUG WIRING
SINGLE PRESSEL
DOUBLE PRESSEL
3-5
4-6
9-11
10-12
14-16
15-17
20-22
21-23
1-3
2-4
7-9
8-10
16-18
17-19
22-24
Nos 1-13 CORRESPOND TO SK.4. Nos 1-13
Nos 14-26 CORRESPOND TO SK 5 Nos 1-13.
SK1
TERMINAL A NOT USED WITH TYPE 612 R.C. UNIT
TO R.C. UNIT.
RECEIVER OUTPUT & I.C. CALL
SPEECH INPUT
READY FEED
I.C. AND CONTROL
KEY
24 v.
C7
C8
LOCAL
REMOTE
S4
S5
READY
OFF
S.B.

MODULATOR AND POWER UNIT

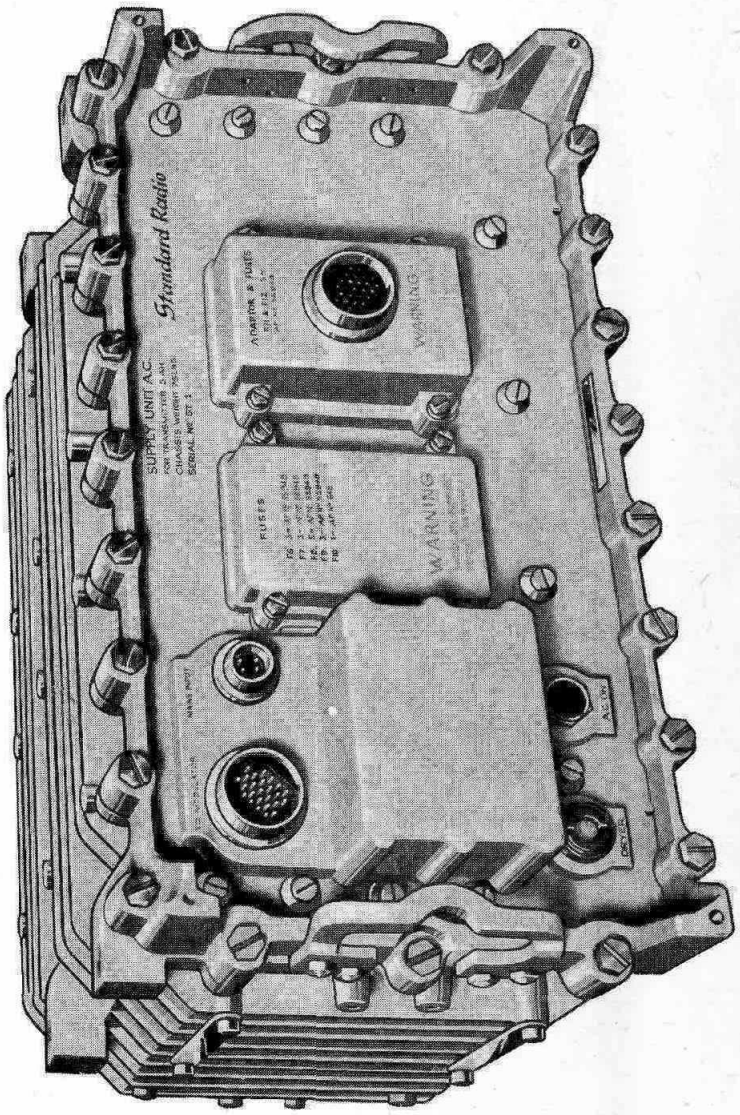
CIRCUIT SCHEMATIC



TRANSMITTER A.C. POWER UNIT

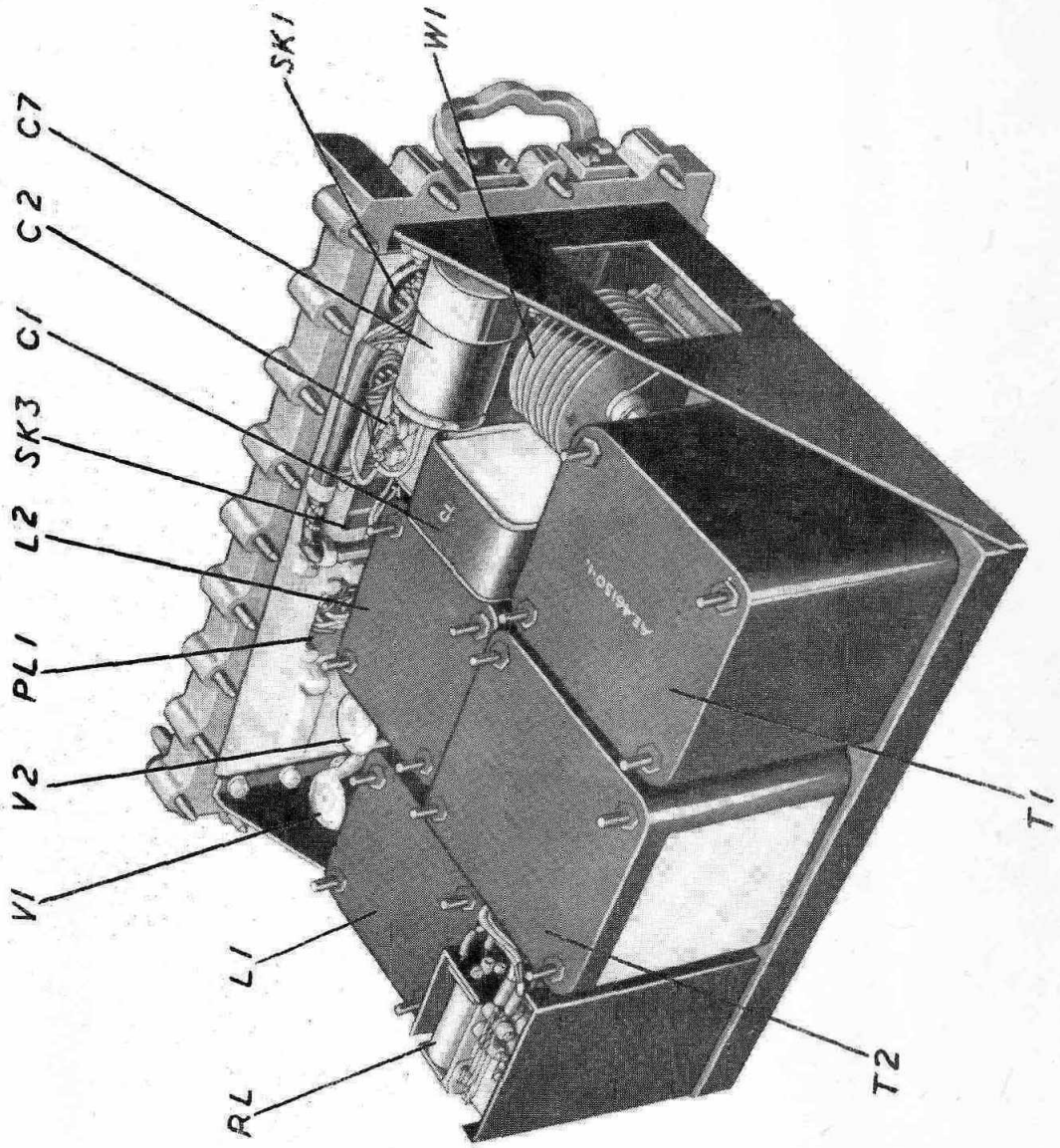
48

FRONT VIEW



TRANSMITTER A.C. POWER UNIT

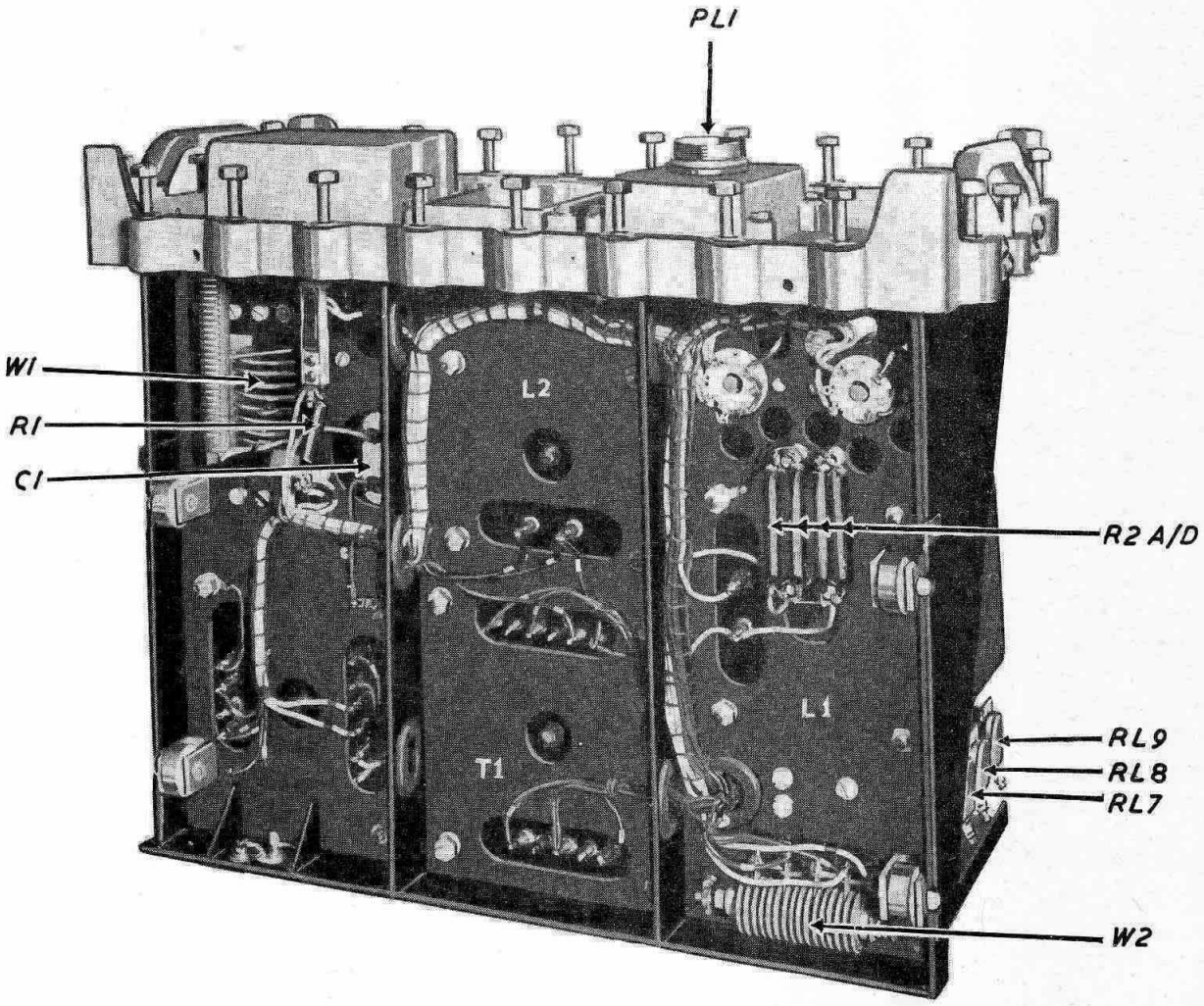
TOP VIEW



TRANSMITTER A.C. POWER UNIT

50

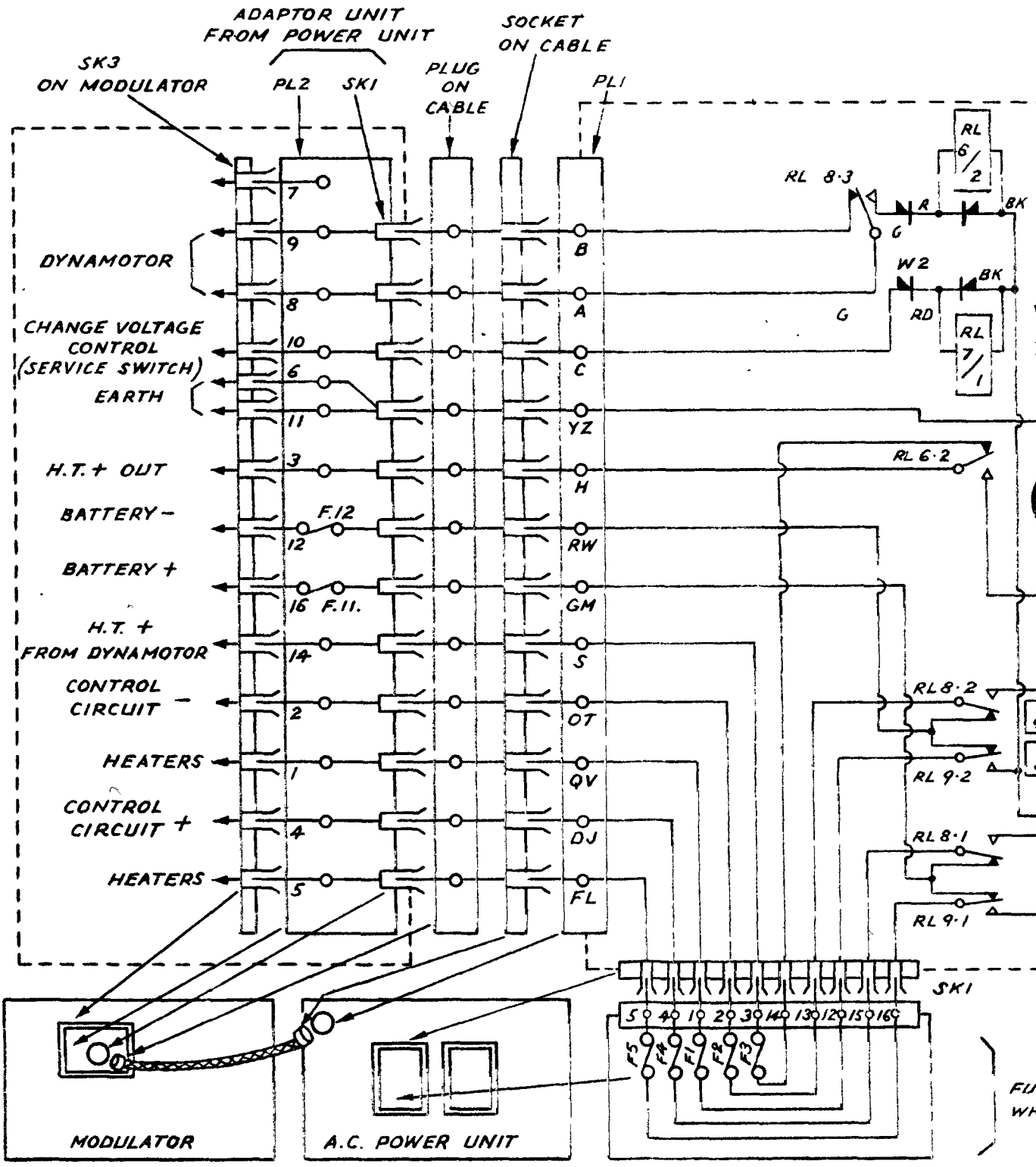
BOTTOM VIEW



TRANSMITTER A.C. POWER UN

CIRCUIT SCH

MISC.	PL2 F12 F11 SK1	PL1, F5, F4, F1, F2, F3, SK1, W2, RL6 RL7 R



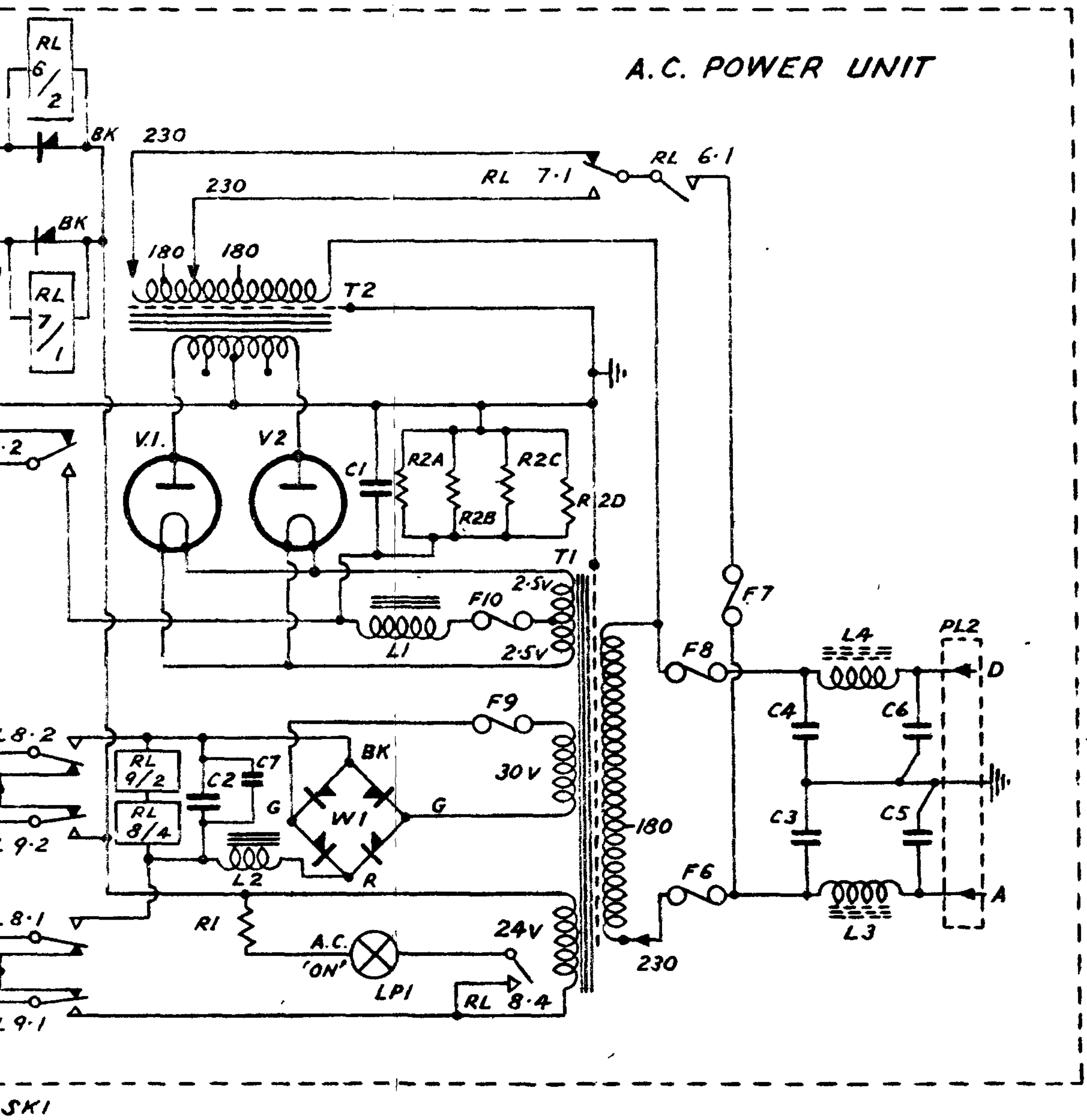
R UNIT

(51)

TRANS.
A.C.
POWER
UNIT.

SCHEMATIC

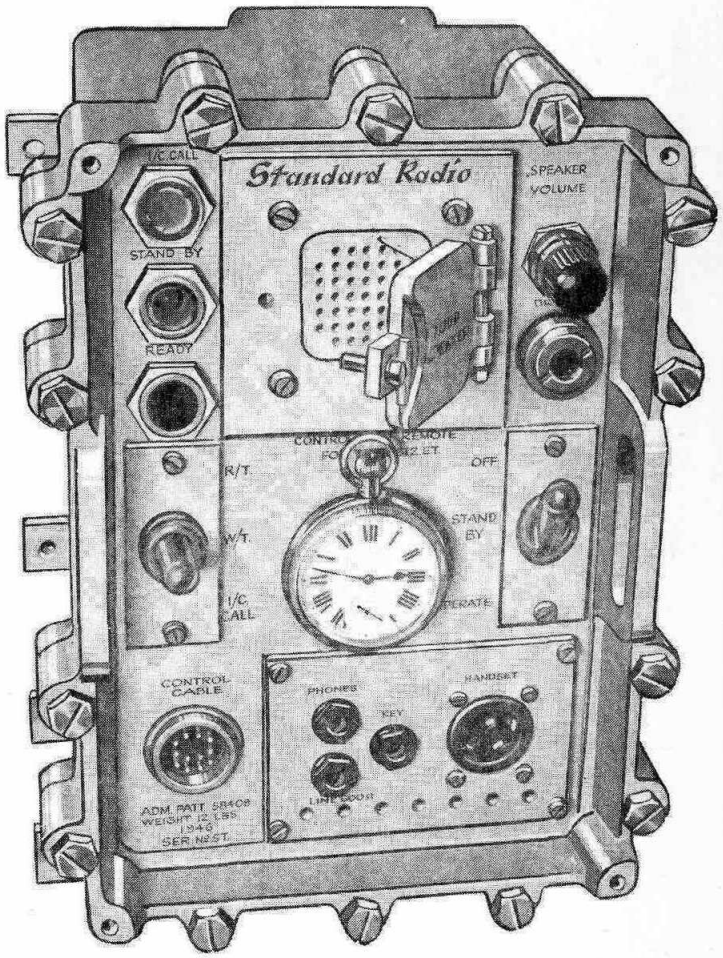
RL6 RL7	RL9 RL8	V1, C2, C7, L2 R1	V2, W1, L1, C1, LP1	R2A R2B R2C	F10 F9	T1 R2D	F8 F6	F7	C4 C3	L4, C6 L3, C5	PL2	MISC.



FUSE UNIT FROM MODULATOR
WHEN USED FOR A.C. WORKING

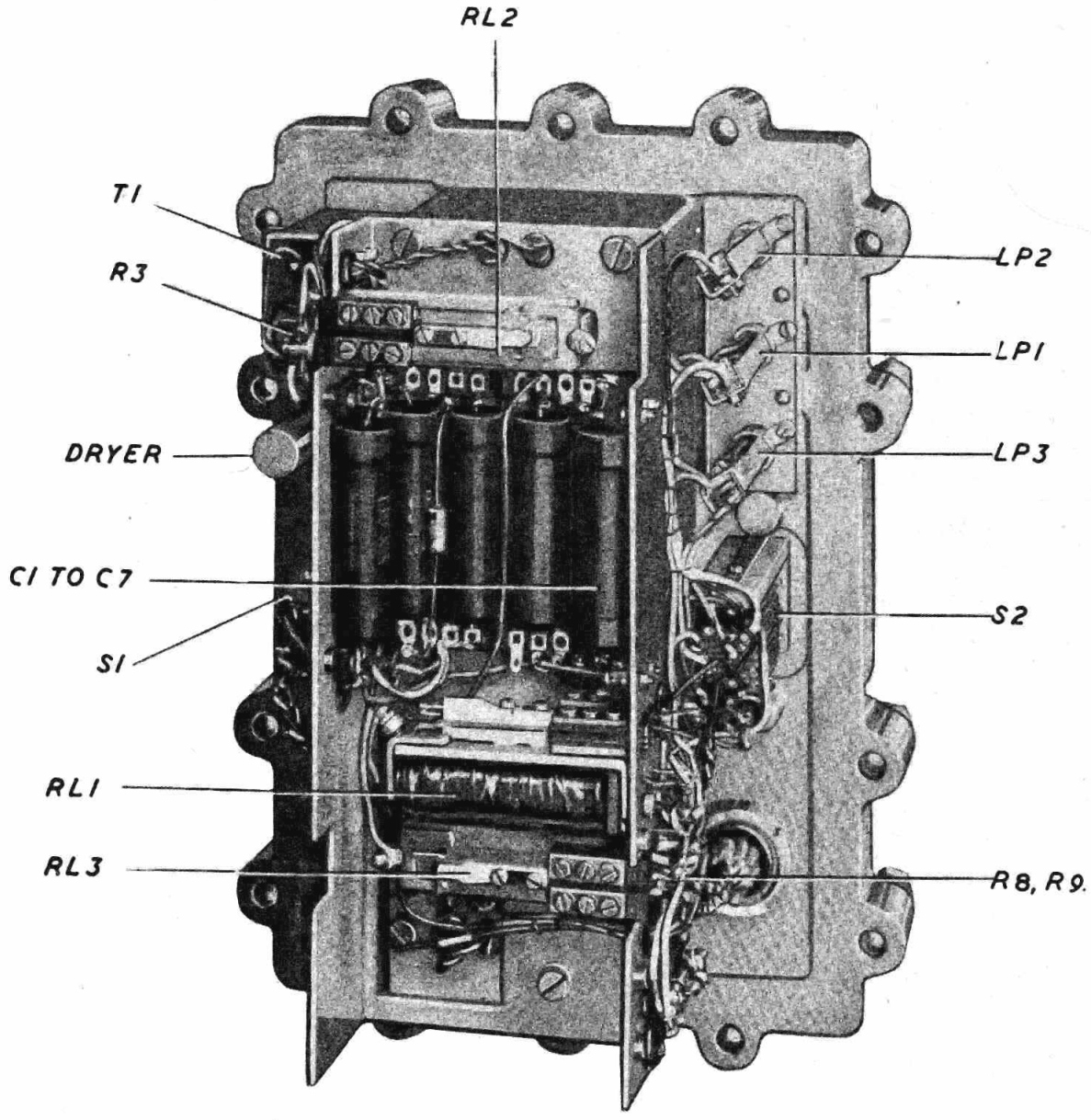
REMOTE CONTROL UNIT

FRONT VIEW



REMOTE CONTROL UNIT

REAR VIEW

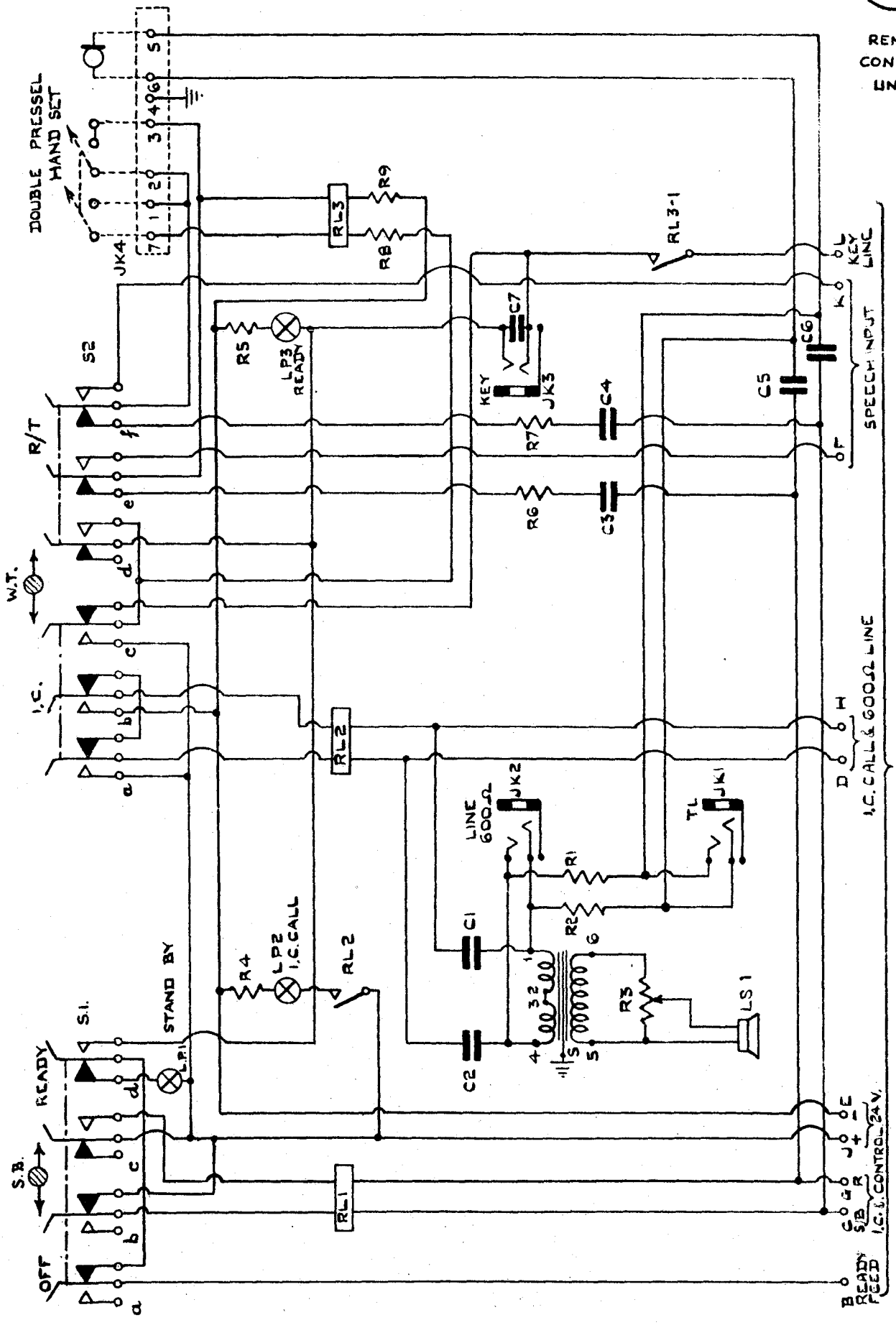


REMOTE CONTROL UNIT

CIRCUIT SCHEMATIC.

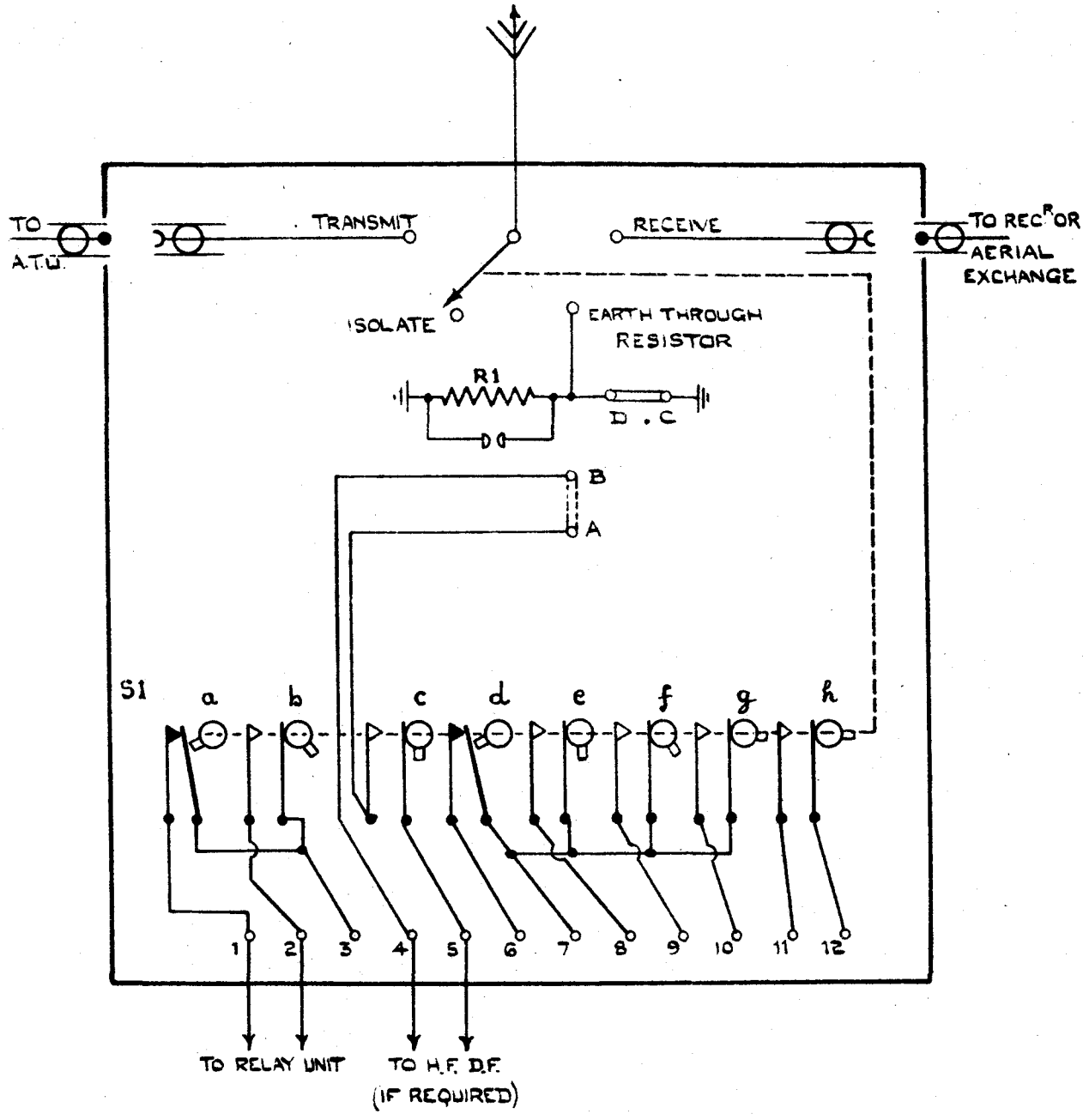
54

REMOTE CONTROL UNIT.



AERIAL C.O.S.

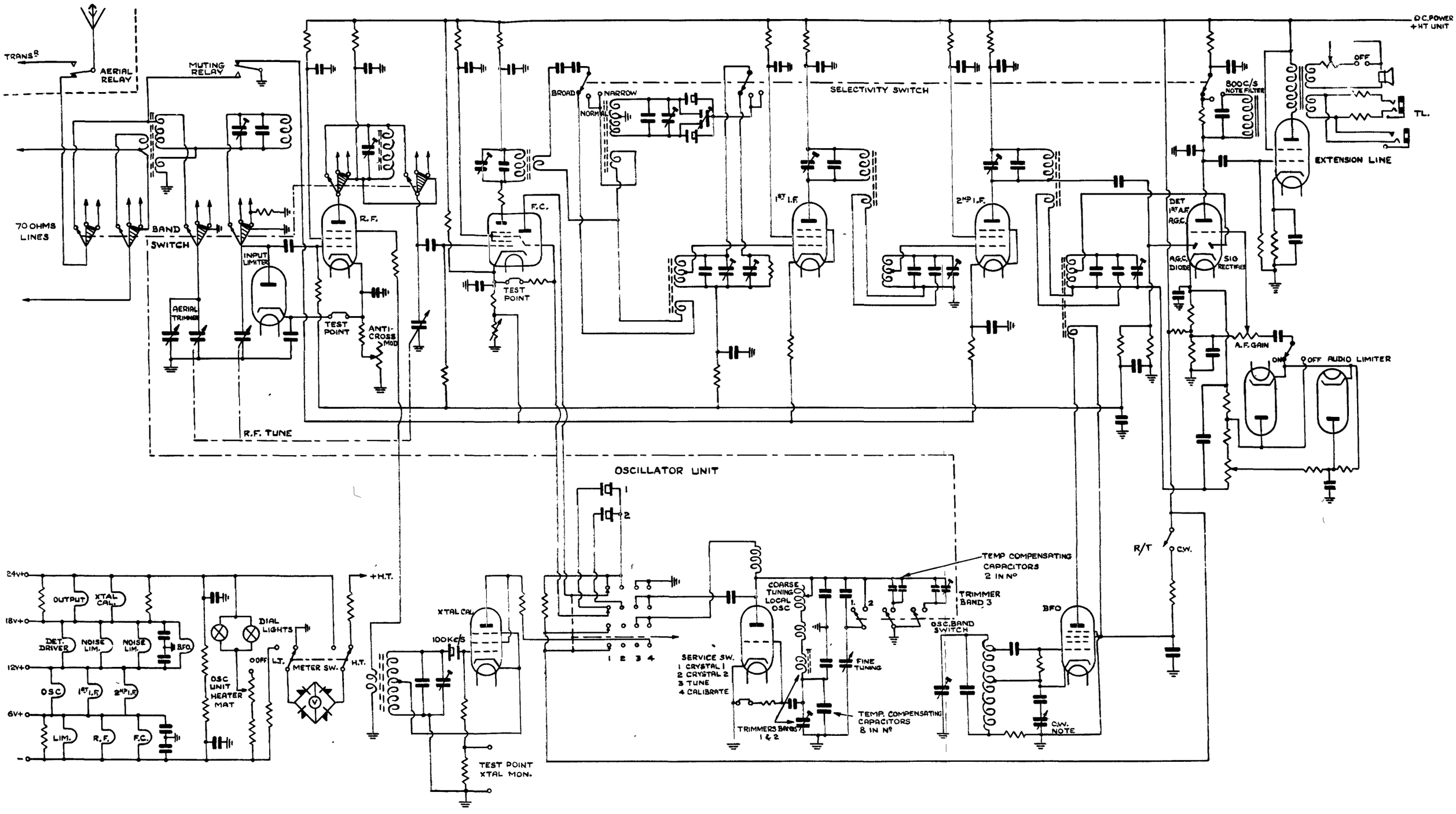
CIRCUIT SCHEMATIC



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

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

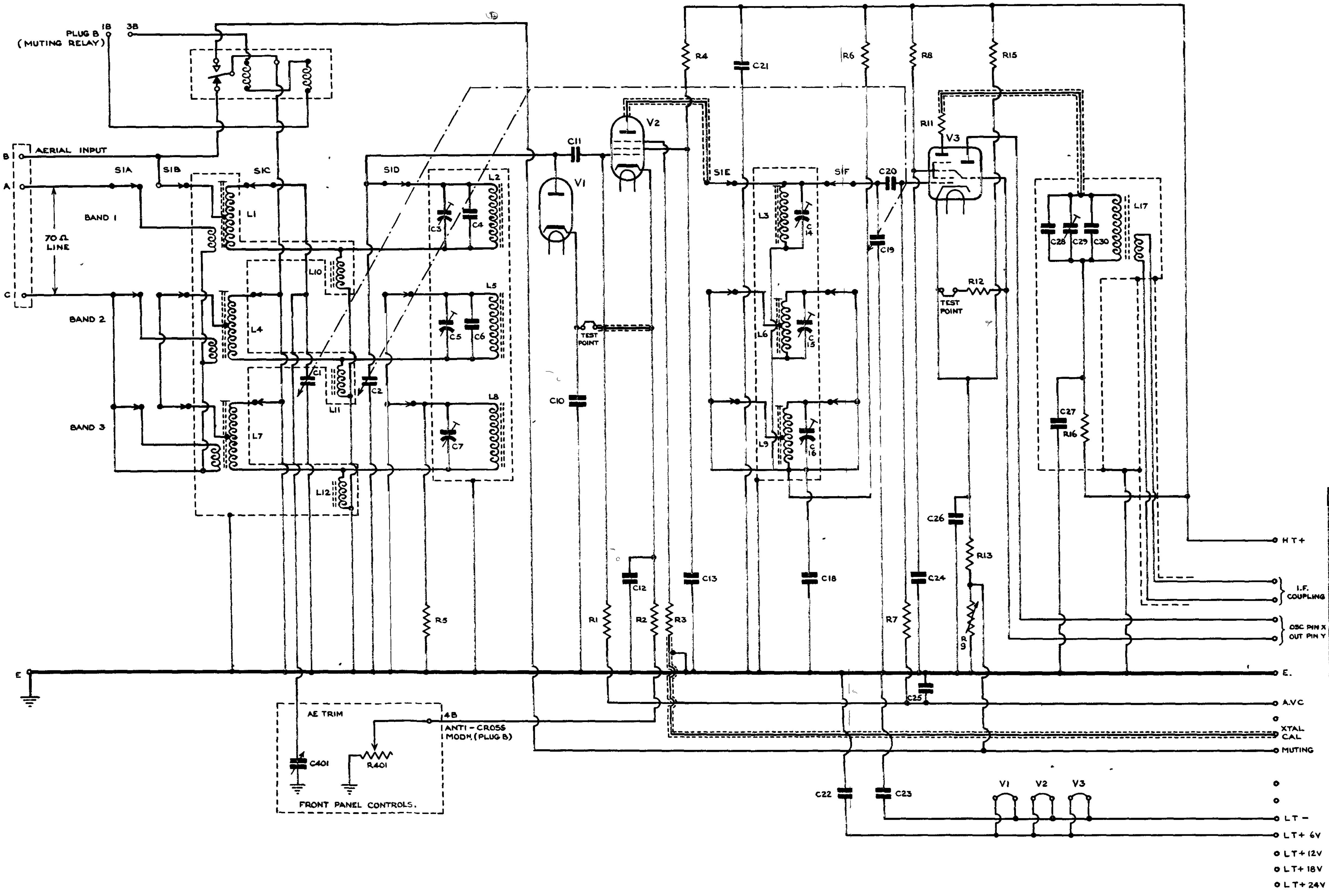
RECEIVER B46
SIMPLIFIED CIRCUIT SCHEMATIC



RECEIVER B46 R.F. STAGES

CIRCUIT SCHEMATIC.

R.	401 5 1 2 3 4 6 7 8 9 11 12 13 14 15 16	R.
C.	401, 1 2 3 5 7 4 6 11 10 12 13 21 14 15 16 18 22 19 20 23 24 25 26 28, 29 30, 27	C.
MISC.	S1A S1B L1 L4 L7 S1C L10 L11 L12 S1D L2 L5 L8 V1 V2 S1E L3 L6 L9 S1F V3 L17	MISC.

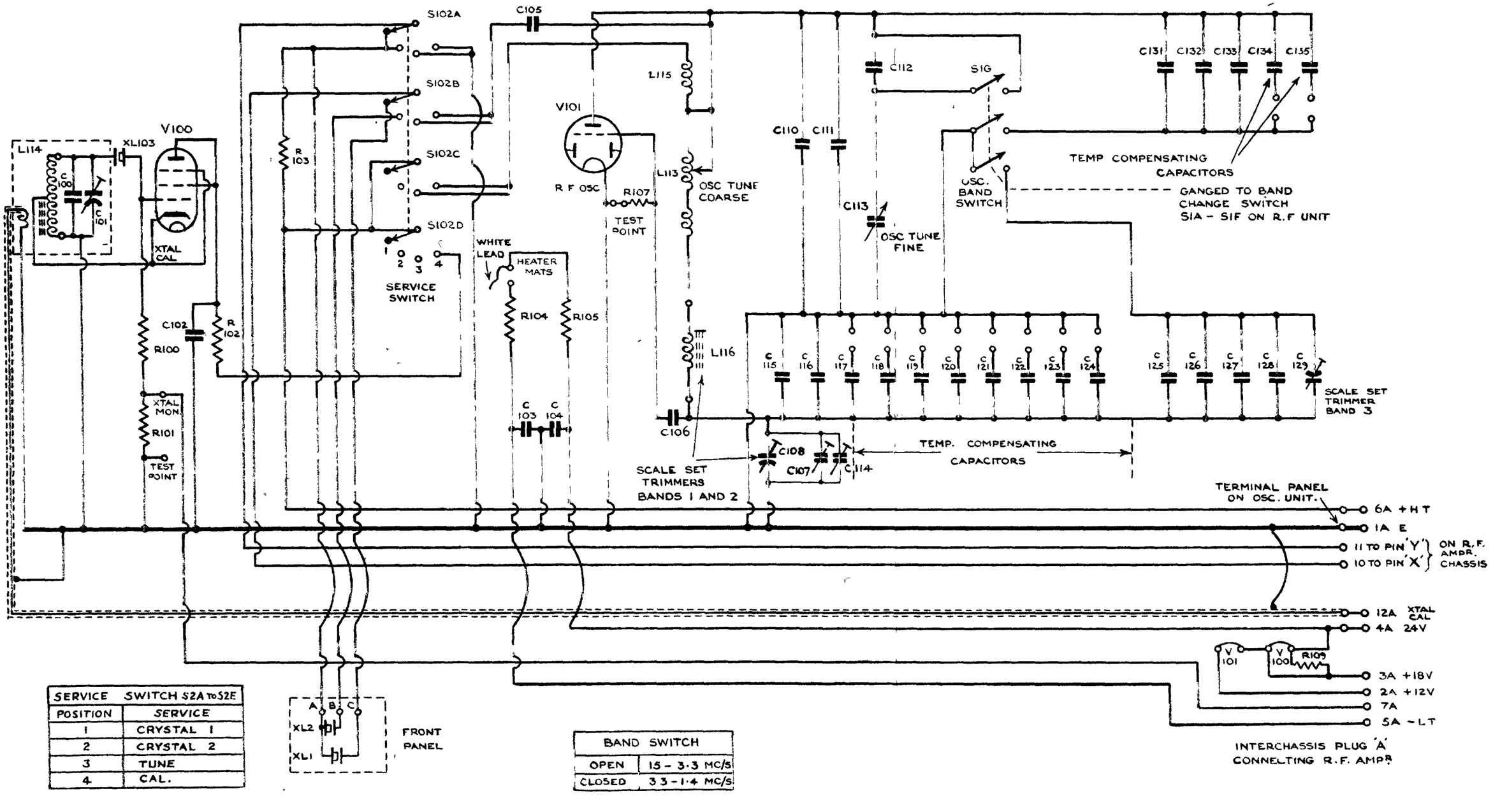


	I.F. AMPR & FRONT PANEL PLUG 'A'	R.F. OSCR PLUG 'B'	I.F. AMPR PLUG 'C'
H T +	6A	11B	8C
I.F. COUPLING		12B	10C
		13B	9C
OSC PIN X			
OUT PIN Y			
E.	1A		13C
A.V.C		7B	
XTAL CAL	12A		
MUTING	9A	2B	1C
	8A		
L T −	5A	5B	5C
L T + 6V		9B	
L T + 12V	2A	10B	
L T + 18V	3A	8B	
L T + 24V	4A	6B	6C

RECEIVER B46 — LOCAL OSCILLATOR.

CIRCUIT SCHEMATIC.

R		100 101	102	103			104	105	107															109		R
C	100, 101,		102,				105, 103, 104,		106.	109, 115, 108, 110, 111, 116, 117, 107, 114, 112, 113, 118,	119	120	121	123	124			131 125	132 126	133 127	134 128	135 129				C
MISC.	L114	XL103		XL2 XL1		S102		V101		L115 L113 L116						S1G								{ V101, V100 HEATERS		MISC.



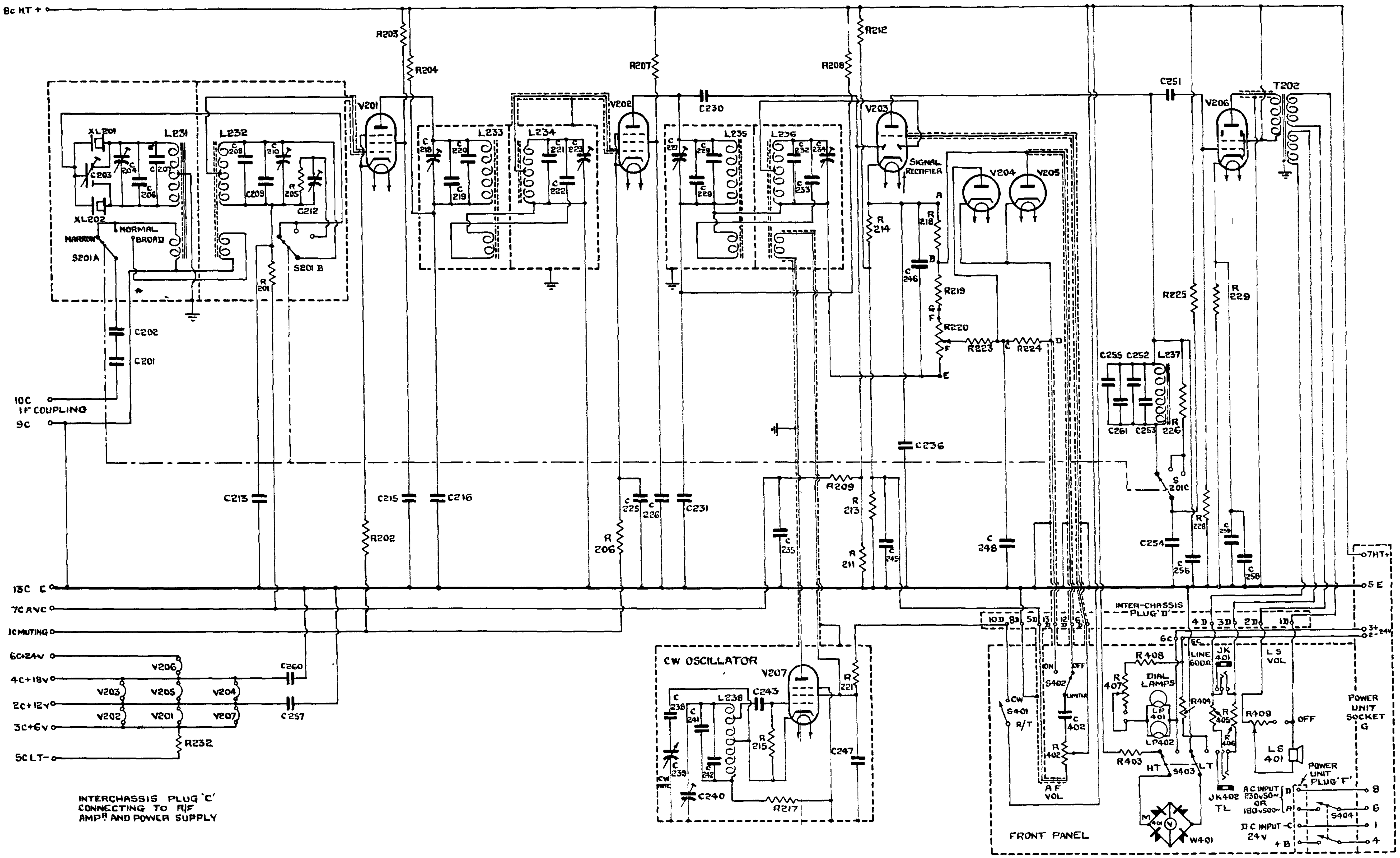
SERVICE SWITCH S2A to S2E	
POSITION	SERVICE
1	CRYSTAL 1
2	CRYSTAL 2
3	TUNE
4	CAL.

BAND SWITCH	
OPEN	15 – 3·3 MC/S
CLOSED	3·3 – 1·4 MC/S

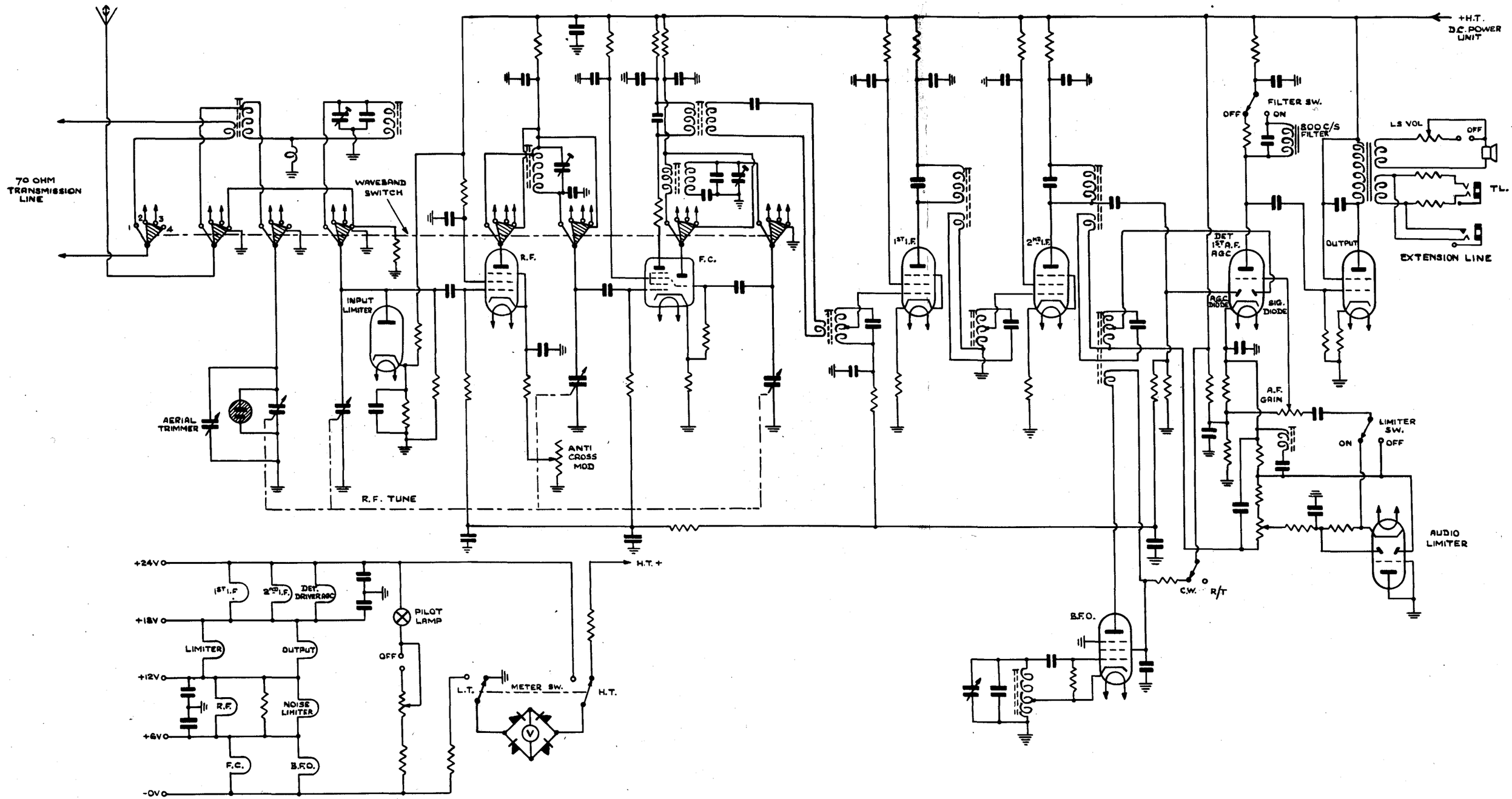
RECEIVER B46 I.F. STAGES

CIRCUIT SCHEMATIC

R	232 201 205 202 203 204 206 207 215 217 221 208 209 211 212 213 214 218 219 220 223 224 402 407 403 408 404 226 225 228 405 406 229 409
C	204 203 202 201 206 207 208 209 213 210 260 257 212 215 218 219 216 220 221 222,223 225,226 238 241 228 229 227 231 230 243 239 240 242 232 235 233 234 245 246 236 248 402 255 261 252 253 251 254 256 259 258
MISC	XL201 XL202 S201A L231 L232 S201B V201 L233 L234 V202 L235 L238 L236 V207 V203 V204 S401 V205 S402 M401, LP401 LP402 S201C S403 L237 W401 JK401 JK402, V206, LS401, T202 S404



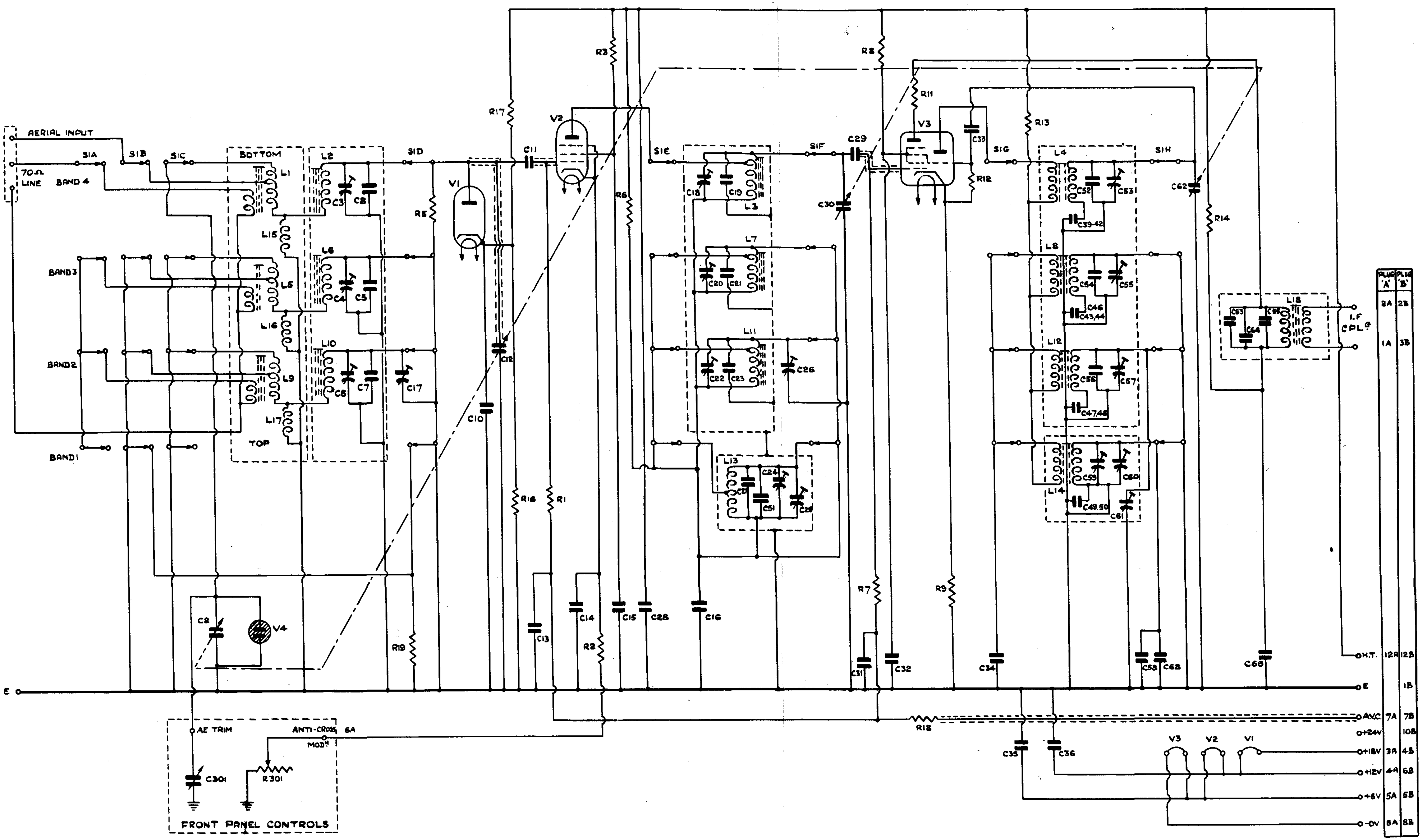
RECEIVER B47
SIMPLIFIED CIRCUIT SCHEMATIC



RECEIVER B47 R.F. STAGES

CIRCUIT SCHEMATIC

R	301 19 5 17 16 1 2 3 6 7 8 11 18 9 12 13 14	R
C	301 2 3 4 6 8 5 7 17 10 12 11 13 14 15 28 16 18 20 22 19 21 23 27 51 24 26 25 30 29 31 32 33 34 35 36 39-44 46-50 52-57 59-61 58 68 62 63-66	C
MISC.	S1A S1B S1C V4 L15 L16 L17 L1 L5 L9 L2 L6 L10 S1D V1 V2 S1E L13 L3 L7 L11 S1F V3 S1G L4 L8 L14 L12 S1H V3, V2, V1 HEATERS L18	MISC.



RECEIVER B47 I. F. STAGES.

CIRCUIT SCHEMATIC

28

R.	128 101 102 103, 104 106 107 108 110, 116 114 112 113 119 109, 116, 117 120 118 121 302 125 123 303 308 307 127 304 126 305 306 309	R.
C.	101 102 103 104 105 107 152 151 109 108 113 111 110 114 115 116 119 122 120 124 118 131 132 133 121 125 126 127 130 134 128 136 139 140 141 143 144 146 147 148 154 150 155 153 302	C.
MISC.	L132 V101 L133 L134 V102 L135, L136 L138 V106 V103 L139 V104 L137 V105 S304 T102 JK301 JK302 L5301 S305 S301 S302 S303 LP301, W301 M301	MISC.

12B H.T.+

R103 R104 R107 R108 R109 C144 R125 C148

V101 V102 V103 V104 V105 T102

L132 TOP L133 BOTTOM L134 TOP L135 BOTTOM L136 TOP L139 L137

C103 C105 C104 C109 C111 C110 C114 C116 C115 C119 C121 C120 C125 C127 C126 C128 C139 C141 C140 C146 C147 C155 C154 C156

1ST I.F. AMP. 2ND I.F. AMP. DET. & 1ST A.F. AMP. LIMITER OUTPUT

R123

C101 C102

2B. INPUT FROM R.F UNIT 3B.

C138 R118 R116 R117 R120 R121

LIMITER CONTROL (PRE-SET)

C107 C108 C113 C118 C122 C124 R114 C136 C143 C150 R127 R126

R101 R102 R106 R110

1B. E

7B. AVC

C152 C151 C130 R113 R112

10B. +24V 4B. 18V 6B. 12V 5B. 6V 8B. 0V

V101 V102 V103 V105 V104 R128 V106

INTER-CHASSIS PLUG 'B' CONNECTING TO R.F. AMP. AND POWER SUPPLY.

C.W. NOTE

C131 C133 C132 C134 R115 L138 V106 C.W OSC. R119 C137

INTER-CHASSIS PLUG 'C' TO FRONT PANEL

4C 1C 3C 5C 2C 8C 10C 6C 10B 8B 7C 9C 11C 13C

C.W. ON OFF S301 R/T S302 LIMITER SWITCH C302

VOLUME CONTROL R302

ON OFF S303 FILTER SWITCH R303

R307 R308 R304 JK 301 A.F. OUTPUT R305 R306 POWER UNIT SOCKET 'E' R309 VOL. & OFF LS301

LP 301 H.T. L.T. S304 TL JK302 M301 W301

A.C. INPUT D C INPUT S305 POWER INPUT PLUG 'D'

HT E - + 24V

FRONT PANEL.

TRANSMITTER UNITS
SIMPLIFIED CIRCUIT SCHEMATIC

M.O.

M.O. X'TAL

OSC[R] TRIMMER

AMPLIFIER

TUNING CONTROL

X'TAL CAL.

100Ω

SIDE TONE RECT[R]

MATCHING COUPLING TUNING

LOADING

AERIAL TUNING UNIT

DUMMY LOAD

TO B46

DIAL LIGHTS

HEATER MATS

X'TAL OSC[R]

X'TAL CAL.

SIDETONE

M.O. R.F. AMP[RS]

100 KC/S

X'TAL OSC

TRANSMITTER 5AH

PHONES

AUDIO AMPLIFIER

X'TAL CAL.

HANDSET

SIDETONE

R/T & M.C.W

C.W.

R/T

M.C.W.

MODULATION CONTROL

125v

350v

AF AMP[R] MOD[RS]

TONE OSC[R]

24v.

CONTROL CIRCUITS

800 c/s

TUNE OSC[R] AND G.B. RECTIFIER

A.F. AMPLIFIER

MODULATOR

MODULATOR AND POWER UNIT

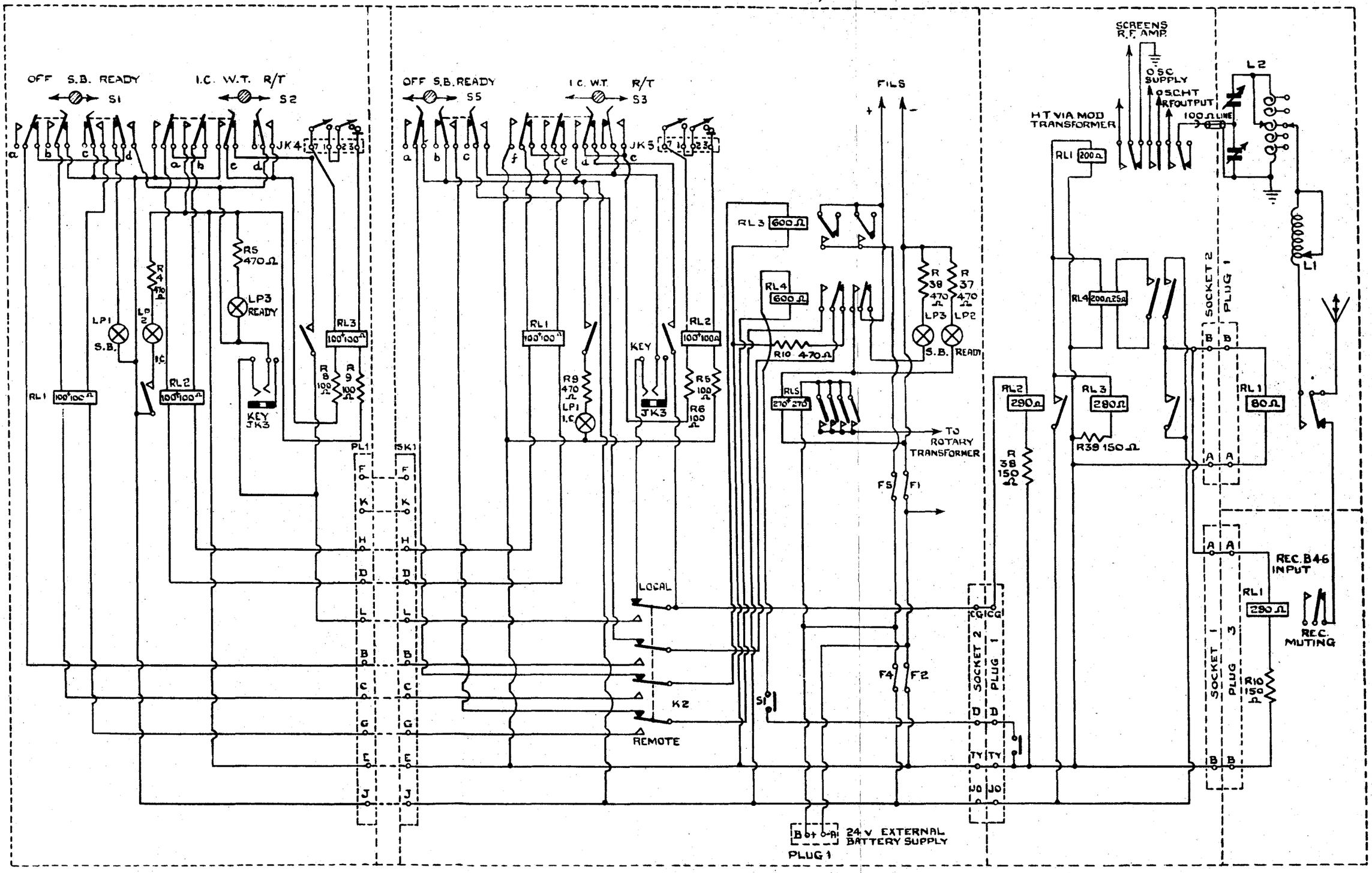
CONTROL CIRCUIT.
SIMPLIFIED SCHEMATIC.

CONTROL UNIT REMOTE

REMOTE CONTROL CABLE

MODULATOR UNIT (DOUBLE PRESSEL CONNECTIONS)

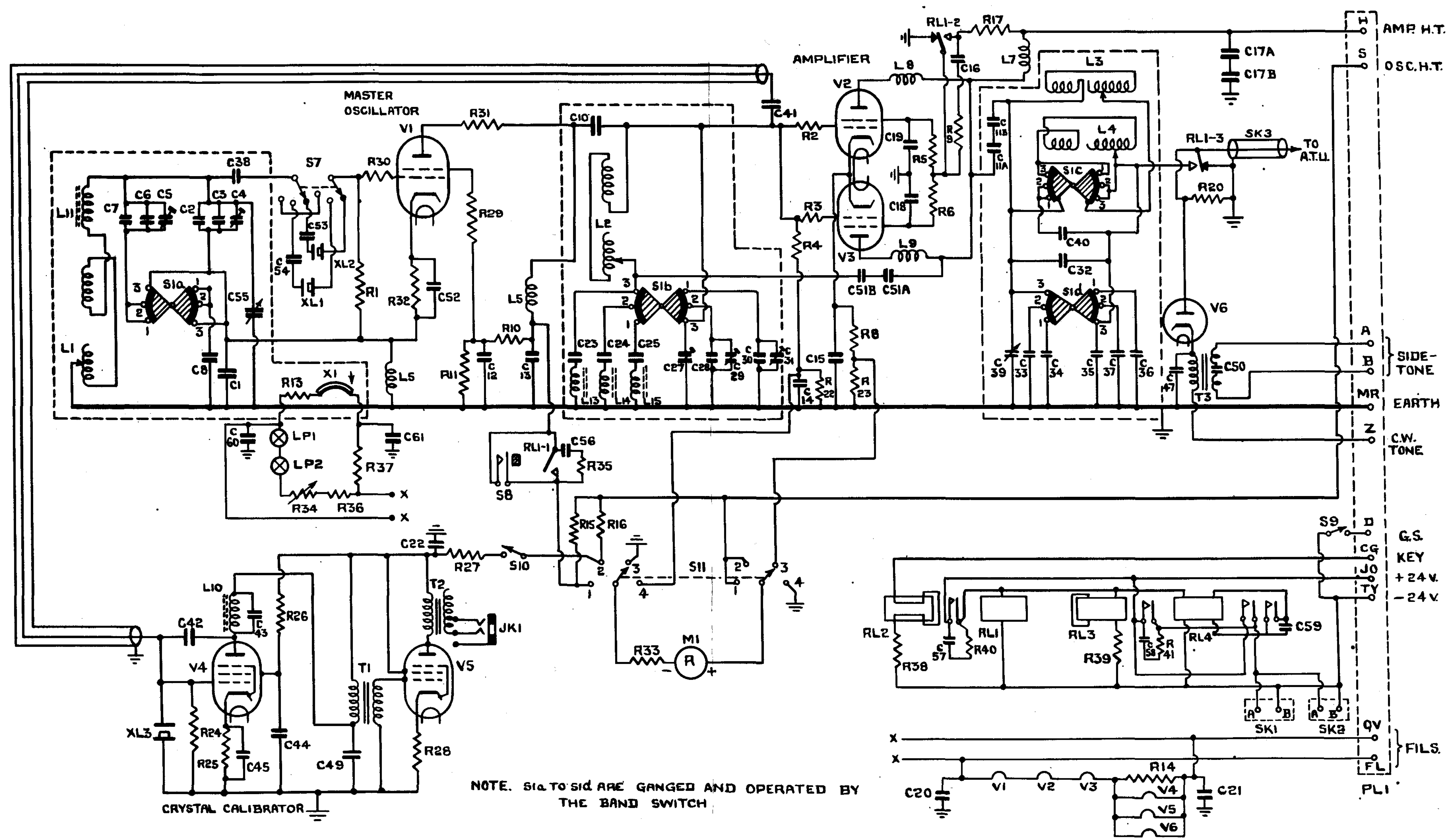
TRANSMITTER A.T.U.



TRANSMITTER 5 AH

CIRCUIT SCHEMATIC

R	24 25 26 13 34 36 1 37 30 32 28 31 29 11 27 10 35 15 16 33 4. 2 3 22 8 23 38 5 6 9 40 17 39 14 41 20	R
C	7 6 5 42 2, 3, 38, 55 8 4 43 1 60 45 54 44 53 49 61 52 22 12 13 23 56 10 24 25 27, 28, 29, 30 41 31 14 15 51B 51A 19 18 20 16 57 11A/B 39 33,34 40 32 35 37 36 58 47 21 50 17A/B 59	C
MISC.	L11 L1 XL3 S1a V4 L10 LP1 LP2 XL1 S7 X1 XL2 T1 L5 V1 T2 V5 JK1 S8 S10 L6 L13 L2 L14 L15 S1b M1 S11 V2 V3 L8 L9 RL2 RL1 L7 S1c S1d L3 L4 RL3 V6 T3 RL4 SK1 S9 SK2 PL1	MISC.



NOTE. S1a TO S1d ARE GANGED AND OPERATED BY THE BAND SWITCH

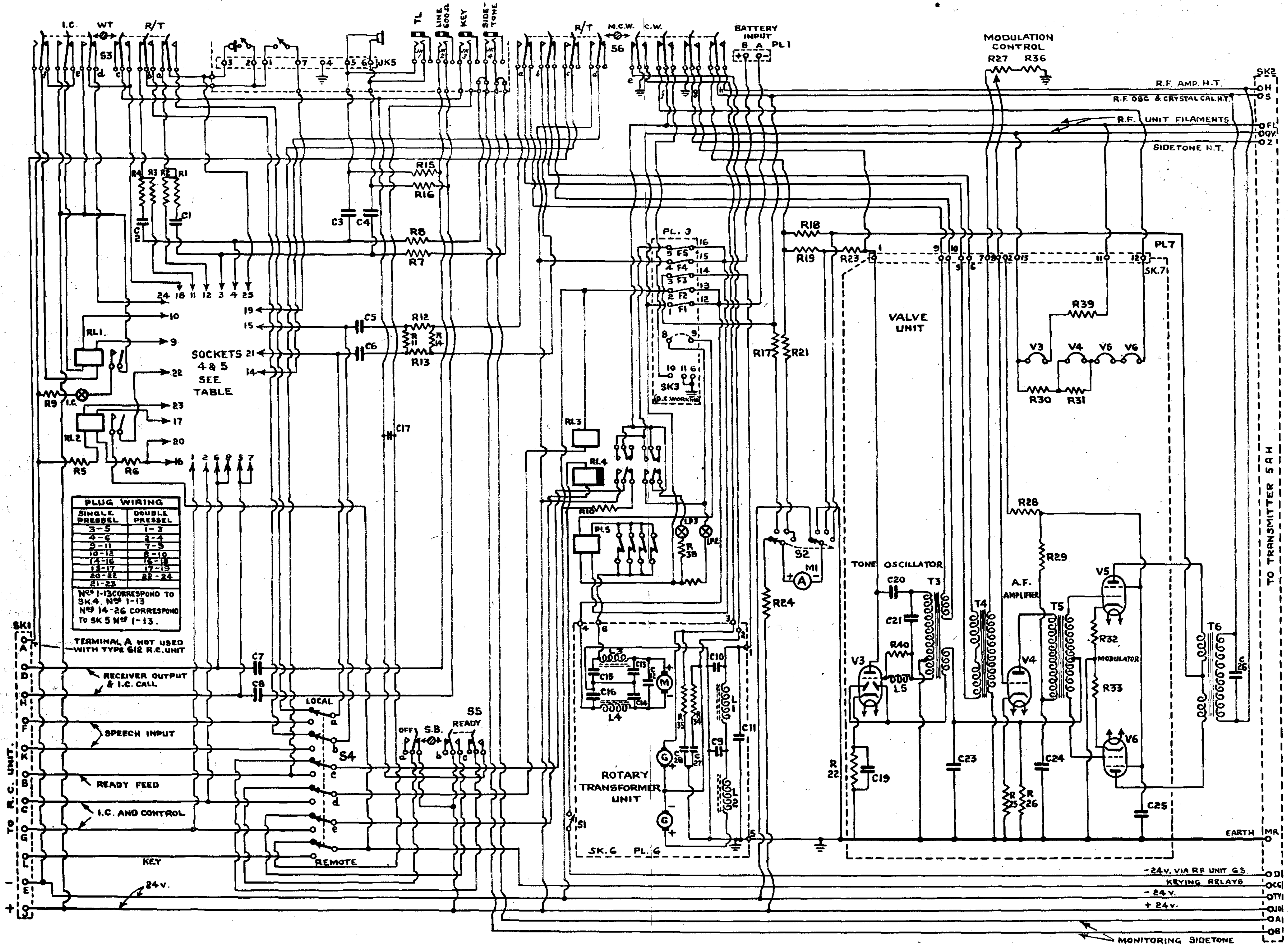
MODULATOR AND POWER UNIT

CIRCUIT SCHEMATIC

47

MOD. & POWER UNIT.

R	9, 5, 6.4.3.2.1, 15.16 8.7. 11.12.13.14., 38.34. 37.35., 24.17.21., 18. 19., 23. 22, 40, 30, 31, 39. 32. 33.
C	2, 1, 7. 8, 3. 5. 4 6, 17, 15. 16, 13. 14, 12, 28.27, 10. 9, 11, 19, 20, 21, 23, 24, 25, 26
MISC	RL1 RL2, S4, S5, RL3 RL4 RL5, F.1.2.3.4.5, L1 L2, S2, V3, L5, T5, T4, V4, T5, V5 V6, T6



PLUG WIRING	
SINGLE PRESSEL	DOUBLE PRESSEL
3-5	1-3
4-6	2-4
9-11	7-9
10-12	8-10
14-16	16-18
15-17	17-19
20-22	22-24
21-23	

Nos 1-13 CORRESPOND TO SK.4. Nos 1-13
Nos 14-26 CORRESPOND TO SK 5 Nos 1-13.

TRANSMITTER A.C. POWER UNIT

CIRCUIT SCHEMATIC

MISC.	PL2 F12 F11 SK1	PL1, F5, F4, F1, F2, F3,	SK1, W2, RL6 RL7 RL9 RL8 V1, C2, C7, R1 V2, W1, L1, LP1 C1, L2	R2A R2B R2C F10 F9 T1 R2D F8 F6 F7 C4 C3 L4, C6 L3, C5 PL2	MISC.