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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.*

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*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**

The document has been optimised for printing on A4 size paper (this is the common size available in UK and Europe, which measures 29.7cm by 21.0cm). Please follow these steps (these are based on Acrobat Reader version 6.0 – other versions may differ in detail):

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”. Then press “OK”

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### **Any other problems?**

Please get in touch with me at [archivist@vmarsmanuals.co.uk](mailto:archivist@vmarsmanuals.co.uk).

Richard Hankins, VMARS Archivist, Summer 2004

R E S T R I C T E D

ELECTRICAL AND MECHANICAL  
ENGINEERING REGULATIONS  
(By Command of the Defence Council)

TELECOMMUNICATIONS  
E 742  
Part 2

RECEPTION SET, EDDYSTONE, 730/4 (Z1/ZA 51262)

TECHNICAL HANDBOOK - FAULT FINDING AND REPAIR DATA

Errata

Note: These Pages 0 and 01, Issue 1, must be filed immediately in front of Page 1001, Issue 1, dated 16 May 60.

1. The following amendments must be made to the regulation.
2. ~~Page 1004~~, Table 2501 Cct ref R64, columns 2 and 4  
Delete: '68k' and '20'  
Insert: '330k' and '10'
3. ~~Page 1008~~, Table 2501, Cct ref V12, column 3, immediately after CV454  
Insert: '/CV4009'

Issue 1, 8 May 67

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Page 0

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4. Page 1011, Fig 2501b

a. position E7, resistor R64  
Delete: '68k' Insert: '330k'

b. position E7, Red figures  
Delete: '20V'  
(1,000)  
Insert: '7V'  
(100)

EME/8/2146 (TELS)

Page 01

Issue 1, 8 May 67

RECEPTION SET, EDDYSTONE, 730/4 (Z4/ZA 51262)TECHNICAL HANDBOOK - FAULT FINDING AND REPAIR DATA

<p>This Part 2 contains fault finding and repair data in tabular and diagrammatic form. Part 1 of this EMER contains a general description of the equipment. Tels E 743 and E 744 deal with repairs.</p>
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INTRODUCTION

1. This regulation provides circuit and layout diagrams, component tables, and specification data. The text relating to test operations will be found in Tels E 744.

SPECIFICATION DATA

2. Unless otherwise stated, r.f. input is modulated 30% at 400-1000c/s.

Sensitivity

3. For a signal-to-noise ratio of 15dB, and an output power of 50mW, the input must be:-

- (a) Less than 5 $\mu$ V for an a.m. signal modulated 30% at 300c/s.
- (b) Less than 1 $\mu$ V for a c.w. signal on ranges 1, 2, 3 and 4.
- (c) Less than 2 $\mu$ V for a c.w. signal on range 5.

A.F. distortion

4. Taken at 2.5 $\Omega$  output at 1kc/s.

- (a) 1W output - 20% total harmonic maximum.
- (b) 500mW output - 7% total harmonic maximum.
- (c) 100mW output - 3% total harmonic maximum.

A.G.C.

5. At any frequency and any setting of the bandwidth switch, an increase of input from 3 $\mu$ V to 300mV must not increase the output level (set at 50mW with the 3 $\mu$ V input) by more than 75mW, ie it must not rise above 125mW.

Beat frequency oscillator stability

6. With an input set at 3.16 $\mu$ V (10dB above 1 $\mu$ V) a change of input to 3.16mV (70dB above 1 $\mu$ V) and a.g.c. on, the beat note must not change by more than 50c/s.

Noise factor

7.	Frequency	Noise factor
	750kc/s	12dB
	2Mc/s	5dB
	4Mc/s	10.5dB ± 3dB
	9Mc/s	6.5dB ± 3dB
	20Mc/s	9.5dB ± 3dB

I.F. bandwidth

8. SELECTIVITY control position	Bandwidth (kc/s)	
	Min at 3dB down	Max at 45dB down
Broad	9	24
First intermediate	4	16
Second intermediate	2.5	13
Narrow	2.0	12

Crystal filter

9. With the crystal filter in circuit and the crystal correctly phased, the rejection at 1kc/s off tune must be at least 49dB with the SELECTIVITY control in the 'narrow' position.

A.F. filter

10. Not less than 100c/s wide at 6dB down.  
Not more than 250c/s wide at 25dB down.

Image rejection

11. More than 80dB at 2Mc/s  
More than 40dB at 18Mc/s  
More than 30dB at 25Mc/s

Cathode follower

12. Output approximately 300mV into approximately 68Ω.

Table 2501 - Components

Cct ref	Value ( $\Omega$ )	Rating (W)	Tol (%)	Type	Location	
					Schematic (Fig 2501)	Layout (Fig 2504)
<b>RESISTORS</b>						
R1	12	1/2	20	comp	a/F2	D3
R2	470k	1/2	20	comp	a/F3	I2
R3	470k	1/2	20	comp	a/F4	D2
R4	68	1/2	20	comp	a/G5	D3
R5	33k	1	20	comp	a/G1	F4
R6	1k	1/2	20	comp	a/H1	F4
R7	150	1/2	20	comp	a/H5	B4
R8	12	1/2	20	comp	a/M/N2	D5
R9	470k	1/2	20	comp	a/M3	
R11	68	1/2	20	comp	a/N4	F4
R12	33k	1	20	comp	a/N1	F5
R13	1k	1/2	20	comp	a/O1	F5
R14	1k	1/2	20	comp	a/P3	C6
R15	150	1/2	20	comp	a/P4	B5
R16	1k	1/2	20	comp	a/S1	C6
R17	12	1/2	20	comp	a/R2	D6
R18	12	1/2	20	comp	b/D3	
R19	100k	1/2	20	comp	a/S3	D6
R20	470k	1/2	20	comp	a/M5	B2
R21	150	1/2	20	comp	a/S5	F6
R22	470k	1/2	20	comp	b/D5	
R23	15k	3/4	20	comp	b/E1	
R24	1k	1/2	20	comp	b/E1	
R25	33k	1	20	comp	b/G1	
R26	1k	1/2	20	comp	b/H1	
R27	15k	3/4	20	comp	b/D2	
R28	470k	1/2	20	comp	b/F5	
R29	820	1/2	20	comp	b/F5	
R30	3.3k	1/2	20	comp	b/F5	
R31	1.2k	1/2	20	comp	b/F5	
R32	68	1/2	20	comp	b/E4	
R33	1M	1/2	5	comp	b/K3	
R34	68	1/2	20	comp	b/G5	
R35	100k	3/4	20	comp	b/H5	
R36	100k	3/4	20	comp	b/H3	
R37	10k	1/2	20	comp	b/O1	
R38	220k	3/4	20	comp	b/N2	
R39	100k	3/4	20	comp	b/P2	
R40	500k			variable	b/M5	
R41	1M	3/4	20	comp	b/L5	
R42	470k	1/2	20	comp	b/L5	
R43	6.8k	1/2	20	comp	b/N5	
R44	2.2k	3/4	20	comp	b/P5	
R45	1M	1/2	5	comp	b/O5	
R46	1M	1/2	5	comp	b/P2	

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Table 2501 - (cont)

Cct ref	Value (Ω)	Rating (W)	Tol (%)	Type	Location	
					Schematic (Fig 2501)	Layout (Fig 2504)
<b>RESISTORS - (cont)</b>						
R47	470k	1/2	20	comp	b/P5	
R48	680	3/4	20	comp	b/Q5	
R49	47k	3/4	20	comp	b/R3	
R50	4.7k	3/4	20	comp	b/R5	
R51	1M	1/2	5	comp	a/J8	
R52	100k	3/4	20	comp	a/K7	
R53	22k	3/4	20	comp	a/K6	
R54	2.2k	1/2	20	comp	a/M8	B6
R55	2.2k	1/2	20	comp	a/M8	B7
R56	10k	1/2	20	comp	a/R7	D8
R57	1k	1/2	20	comp	a/S7	E8
R58	22k	1/2	20	comp	a/R8	C8
R59	10k	3/4	20	comp	b/B1	
R60	5k			variable	b/B2	
R61	27k	1	20	comp	b/B2	
R62	2M	1/2	5	comp	b/K4	
R63	22k	1/2	20	comp	b/E8	
R64	<del>330k</del>	1/2	<del>10</del>	comp	b/E7	
R65	10k			variable	b/N5	
R66	2.7k	6	5	WW	b/D6	
R67	4.7k	3/4	20	comp	b/C7	
R68	22k	1	20	comp	b/C8	
R69	270k	3/4	20	comp	b/D7	
R70	5			variable	a/D8	
R71	6.8k	3/4	20	comp	b/D8	
R72	100k	3/4	20	comp	b/M1	
R73	6.8k	1/2	20	comp	b/M3	
R74	100k	3/4	20	comp	a/J6	
R75	47	1/2	20	comp	a/M6	D7
R76	3M	1/2	20	comp	a/K6	
R77	22k	1	20	comp	b/L6	
R78	470k	1/2	20	comp	b/K8	
R79	68	1/2	20	comp	b/L8	
R80	10k	1/2	20	comp	b/E6	
R81	68k	1/2	20	comp	b/F7	
Cct ref	Value (F)	Rating (V)	Tol (%)	Type	Location	
					Schematic (Fig 2501)	Layout (Fig 2504)
<b>CAPACITORS</b>						
C1	3-23p			air	a/C1	D3
C2	10p	350	10	silver-mica	a/D1	D3
C3	3-23p			air	a/C2	C3
C4	3-23p			air	a/C3	B3



Table 2501 - (cont)

Cct ref	Value (F)	Rating (V)	Tol (%)	Type	Location	
					Schematic (Fig 2501)	Layout (Fig 2504)
<b>CAPACITORS - (cont)</b>						
C5	3-23p			air	a/G4	B3
C6	3-23p			air	a/G4	A3
C7	100p	350	10	silver-mica	a/E2	D3
C8	500p	350	10	mica	a/F3 & b/G8	D1
C9A-D	10-367.75p			variable	a/E4	
C10	25p	350	10	silver-mica	a/E4	D3
C11	0.01μ	150	20	paper	a/G4	D4
C12	0.01μ	350	20	paper	a/F4	
C13	0.1μ	350	20	paper	a/G5	E3
C14	500p	350	10	mica	a/G3 & b/G8	D2
C15	0.1μ	350	20	paper	a/G4	F4
C16	0.1μ	350	20	paper	a/H5	F4
C17	20p	350	10	silver-mica	a/K1	D4
C18	3-23p			air	a/L2	D4
C19	6p	350	10	silver-mica	a/K2	C4
C20	3-23p			air	a/K2	C4
C21	3p	350	10	silver-mica	a/K2	B4
C22	3-23p			air	a/K3	B5
C23	3p	350	10	silver-mica	a/K4	B4
C24	3-23p			air	a/K4	B4
C25	3-23p			air	a/K5	A5
C27	25p	350	10	silver-mica	a/M3	D5
C29	0.1μ	350	20	paper	a/N4	F5
C30	0.01μ	150	20	paper	a/N4	D5
C31	100p	350	10	silver-mica	a/M2	D5
C32	0.1μ	350	20	paper	a/N3	F5
C33	0.1μ	350	20	paper	a/O5	F5
C34	20p	350	10	silver-mica	a/P1	D6
C35	3-23p			air	a/Q2	D5
C36	20p	350	10	silver-mica	a/Q2	D6
C37	6p	350	10	silver-mica	a/P2	C5
C38	3-23p			air	a/Q3	C5
C39	3p	350	10	silver-mica	a/P3	B6
C40	3-23p			air	a/Q3	C6
C41	3p	350	10	silver-mica	a/P4	B5
C42	3-23p			air	a/Q4	B5
C43	3-23p			air	a/Q5	A6
C44	0.1μ	350	20	paper	a/R2	
C45	400p	350	2	silver-mica	a/S2	
C46	800p	350	2	silver-mica	a/S2 & b/B3	
C47	800p	350	2	silver-mica	a/S2 & b/B3	
C48	3-10p			air	b/C3	
C51	25p	350	10	silver-mica	a/S3	
C52	0.01μ	350	20	paper	a/N5	B1
C53	0.01μ	150	20	paper	a/S5	D6
C54	0.1μ	350	20	paper	a/S4	F6
C55	0.1μ	350	20	paper	a/S5	F6
C56	10p	350	5	ceramic	a/Q6	D6

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Table 2501 - (cont)

Cot ref	Value (F)	Rating (V)	Tol (%)	Type	Location	
					Schematic (Fig 2501)	Layout (Fig 2504)
<b>CAPACITORS - (cont)</b>						
C57	0.01μ	350	20	paper	b/D5	
C58	0.01μ	350	10	mica	b/D1	
C59	20p	350	10	silver-mica	b/C3	
C60	500p	350	2	silver-mica	b/D4	
C61	0.1μ	350	20	paper	b/D5	
C62	0.1μ	350	20	paper	b/E5	
C63	400p	350	2	silver-mica	b/E3	
C64	400p	350	2	silver-mica	b/F3	
C65	0.01μ	350	20	paper	b/F5	
C66	0.1μ	350	20	paper	b/F2	
C67	0.1μ	350	20	paper	b/G2	
C68	400p	350	2	silver-mica	b/G3	
C69	400p	350	2	silver-mica	b/H3	
C70	20p	350	10	silver-mica	b/K3	
C71	0.1μ	350	20	paper	b/G5	
C72	100p	350	10	silver-mica	b/H3	
C73	100p	350	10	silver-mica	b/H4	
C74	0.1μ	350	20	paper	b/K5	
C75	0.1μ	350	20	paper	b/H5	
C76	0.01μ	350	20	paper	b/L5	
C77	30μ	15	+100	electrolytic	b/N5	
			- 20			
C78	8μ	275	+100	electrolytic	b/O2	
			- 20			
C79	0.01μ	350	10	mica	b/P3	
C80	0.01μ	350	10	mica	b/N2	
C81	7000p	350	1	silver-mica	b/N3	
C82	7000p	350	1	silver-mica	b/O4	
C83	30μ	15	+100	electrolytic	b/Q5	
			- 20			
C84	0.01μ	350	10	mica	b/R3	
C85	3-23p			air	a/J8	
C86	20p	350	10	silver-mica	a/L7	
C87	0.01μ	350	10	mica	a/L7	
C88	7000p	350	1	silver-mica	a/N7	
C89	3-23p			air	a/O7	D7
C90	3-23p			air	a/N7	C6
C91	3625p	350	1	silver-mica	a/O7	C7
C92	1625p	350	1	silver-mica	a/N7	B7
C93	10p	350	10	silver-mica	a/O7	B7
C94	3-23p			air	a/O7	B7
C95	900p	350	1	silver-mica	a/N8	B7
C96	20p	350	1	silver-mica	a/O8	B6
C97	3-23p			air	a/O8	B6
C98	440p	350	1	silver-mica	a/N8	A7
C99	20p	350	1	silver-mica	a/O8	A6

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Table 2501 - (cont)

Cct ref	Value (F)	Rating (V)	Tol (%)	Type	Location	
					Schematic (Fig 2501)	Layout (Fig 2504)
<b>CAPACITORS - (cont)</b>						
C100	3-23p			air	a/08	A7
C101	200p	350	10	ceramic	a/Q7	D6
C103	12p	350	10	ceramic	a/Q8	
C104	0.1μ	350	20	paper	a/S7	F6
C105	500p	350	10	mica	a/R8 & b/H8	B8
C106	500p	350	10	mica	a/R8 & b/H8	E8
C107	50p	350	10	ceramic	a/Q8	C8
C108	2000p	350	10	mica	b/K4	
C109	0.01μ	350	10	mica	b/M4	
C110	8p	350	5	silver-mica	b/F7	
C111	100p	350	10	silver-mica	b/E8	
C112	3-10p			air	b/E8	
C113	100p	350	10	silver-mica	b/E7	
C114	0.5μ	350	20	paper	b/H8	
C115	0.5μ	350	20	paper	b/H8	
C116	0.01μ	350	20	paper	b/E8	
C117	16μ	450	+80 -20	electrolytic	b/07	
C118	40μ	350	+80 -20	electrolytic	b/M7	
C119	0.01μ	350	20	paper	b/M3	
C120	0.01μ	350	20	paper	b/L8	
C121	6p	350	5	ceramic	b/K7	
C122	0.04μ	350	10	paper	b/M8	
C123	0.01μ	350	20	paper	b/G6	
C124	0.01μ	150	20	paper	b/J8	
C125	0.01μ	150	20	paper	b/J8	
Cct ref	Description	Type	Location			
			Schematic (Fig 2501)			
<b>VALVES</b>						
V1	1st r.f. amplifier	CV454	a/F2			
V2	2nd r.f. amplifier	CV454	a/N2			
V3	Mixer	CV453	a/S2			
V4	Local oscillator	CV138	a/R7			
V5	1st i.f. amplifier	CV454	b/F3			
V6	2nd i.f. amplifier	CV454	b/G3			
V7	Demodulator and a.g.c.	CV140	b/J2 & b/L3			
V8	A.F. amplifier	CV491	b/M3 & b/P3			
V9	'S' meter and noise limiter	CV140	b/D2 & b/J4			
V10	Crystal calibrator	CV138	a/J7			

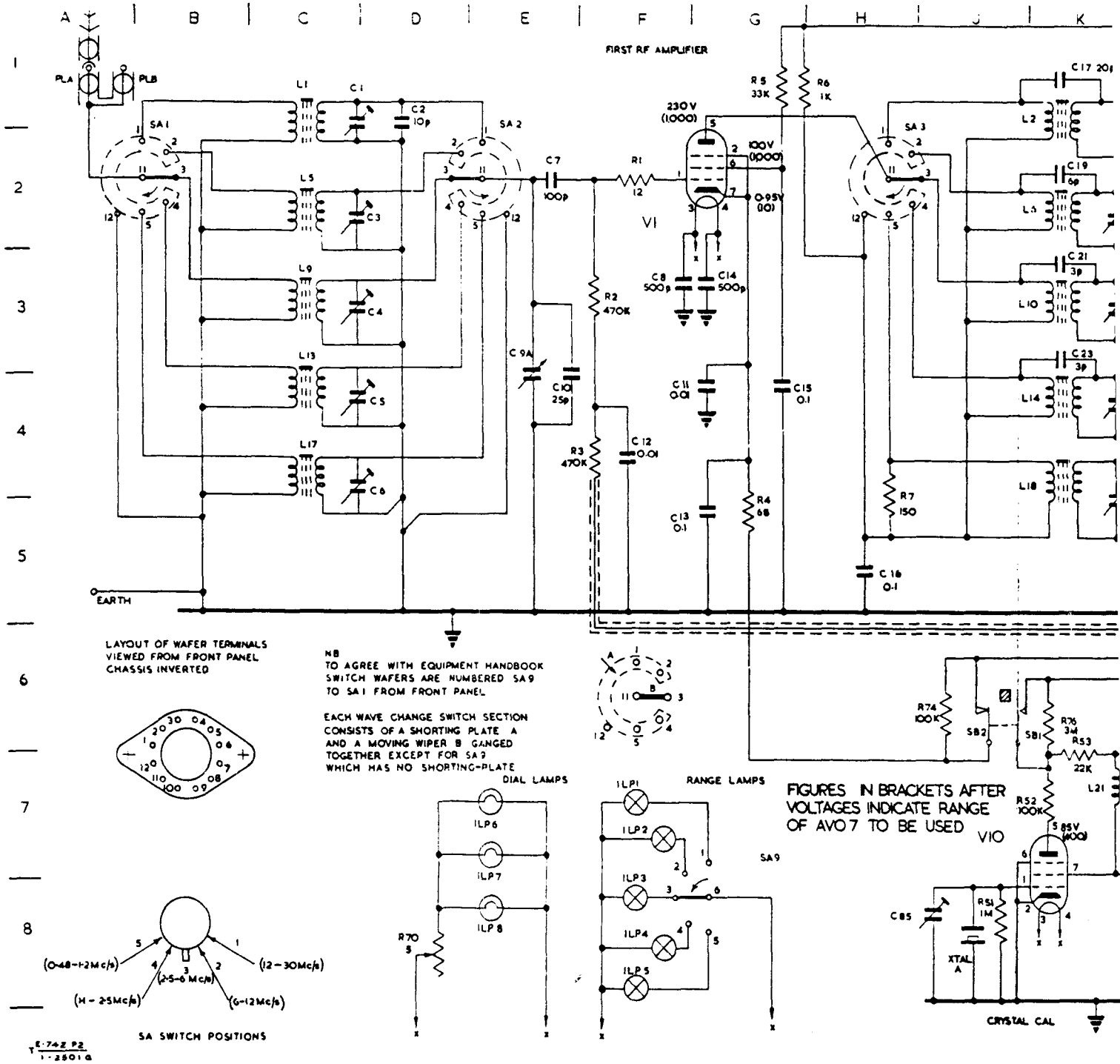
Table 2501 - (cont)

Cct ref	Description	Type	Location
			Schematic (Fig 2501)
VALVES - (cont)			
V11 V12 V13 V14	Cathode follower i.f. output Beat frequency oscillator Full-wave h.t. rectifier H.T. stabilizer	CV2524 CV454/CV4009 CV1863 CV216	b/M7 b/F7 b/P6 b/D7
Cct ref	Description	Location	
		Schematic (Fig 2501)	
INDUCTORS AND TRANSFORMERS			
L1-L5 L6-L10 L11-L15 L16-L20 L21 T1 T2 T3 T4 T5 T6 T7 T8 CH1	Aerial matching transformers 1st to 2nd r.f. coupling transformers 2nd r.f. to mixer coupling transformers Local oscillator transformers Crystal calibrator tuning Part of mixer to 1st i.f. coupling Part of mixer to 1st i.f. coupling 1st to 2nd i.f. coupling 2nd i.f. to demodulator coupling A.F. output transformer A.F. filter 1kc/s Beat frequency oscillator tuning Mains transformer H.T. smoothing choke		a/C1-C4 a/K2-K5 a/P2-P5 a/N6-N8 b/K7 a/S2 & b/A3 b/D4 b/F3 b/H2 b/Q1 b/O4 b/D8 b/Q6 b/N6
MISCELLANEOUS ITEMS			
A FS1 } FS2 } ILP1 ILP2 ILP3 ILP4 ILP5 ILP6 ILP7 ILP8 J1 PLA } PLB } PLC PLD PLE	'S' meter Mains fuses Range lamp Range lamp Range lamp Range lamp Range lamp Dial lamp Dial lamp Dial lamp Phone jack Aerial input plugs I.F. output plug Mains input plug External h.t. & l.t. input plug		b/C2 b/R78 a/F7 a/F7 a/F8 a/F8 a/F8 a/E7 a/E7 a/E8 b/R34 a/A1 b/M8 b/R8 b/NO78

Table 2501 - (cont)

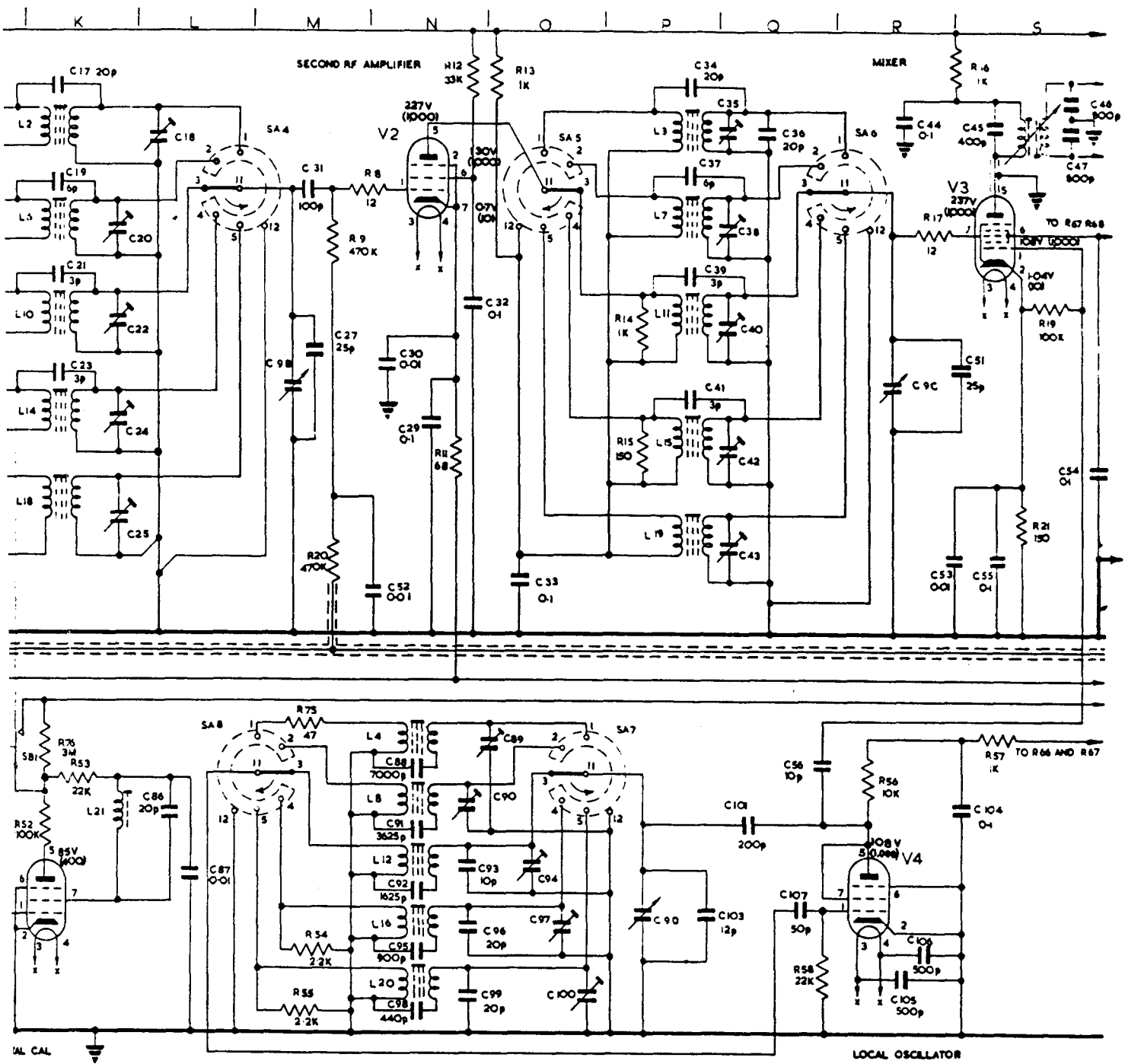
Cct ref	Description	Location
		Schematic (Fig 2501)
<b>MISCELLANEOUS ITEMS - (cont)</b>		
SKTA	PLE shorting socket	b/S78
SKTB	External battery socket	b/S67
SA1	Wavechange switch	a/AB2
SA2	Wavechange switch	a/DE2
SA3	Wavechange switch	a/H2
SA4	Wavechange switch	a/LM2
SA5	Wavechange switch	a/O2
SA6	Wavechange switch	a/QR2
SA7	Wavechange switch	a/OP67
SA8	Wavechange switch	a/LM67
SA9	Wavechange switch	a/FG78
SB1 )	Calibrator switch	a/J6
SB2 )		
SC	CRYSTAL PHASING switch	b/BC3
SD1B	SELECTIVITY switch	b/JK45
SD1F	SELECTIVITY switch	b/EF4
SD2B	SELECTIVITY switch	b/C12
SE	Noise limiter switch	b/J3
SF	A.V.C. switch	b/L5
SJ	MAINS switch	b/Q7
SK1	A.F. filter switch	b/N2
SK2	A.F. filter switch	b/O2
SL	H.T. switch	b/N6
XTAL A	Calibrator crystal	a/J8
XTAL B	Filter crystal	b/B3





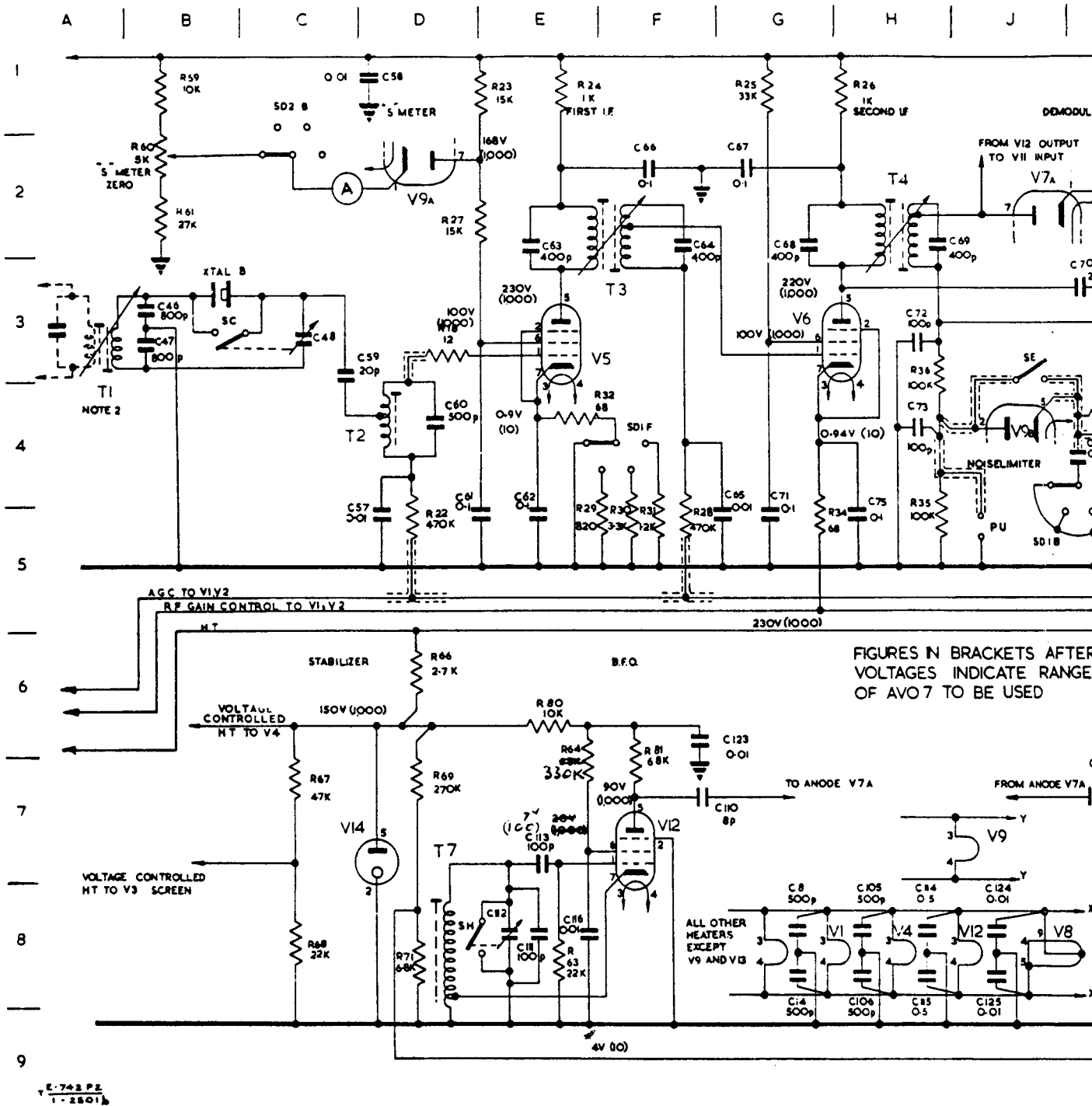




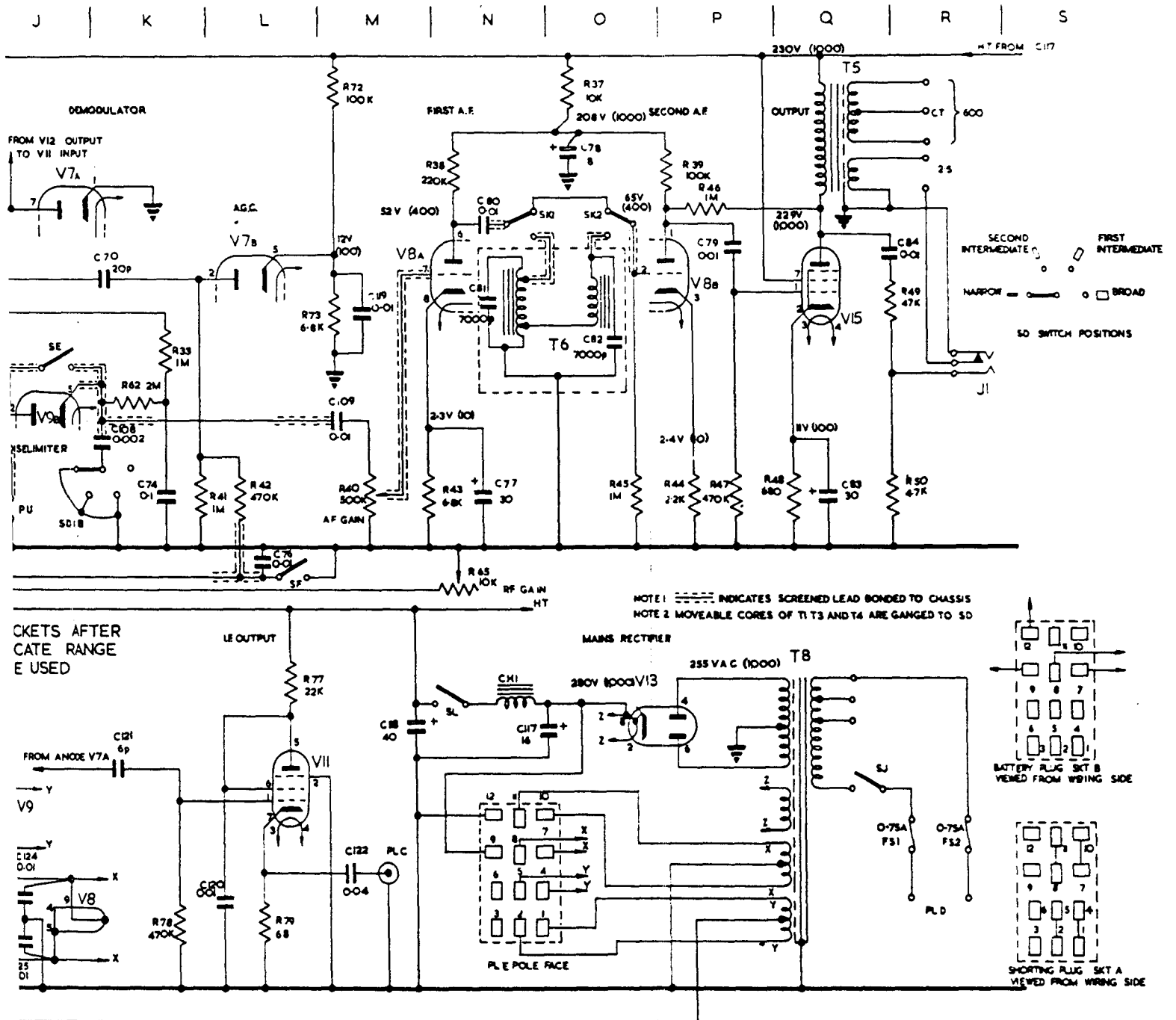


Receiver circuit diagram





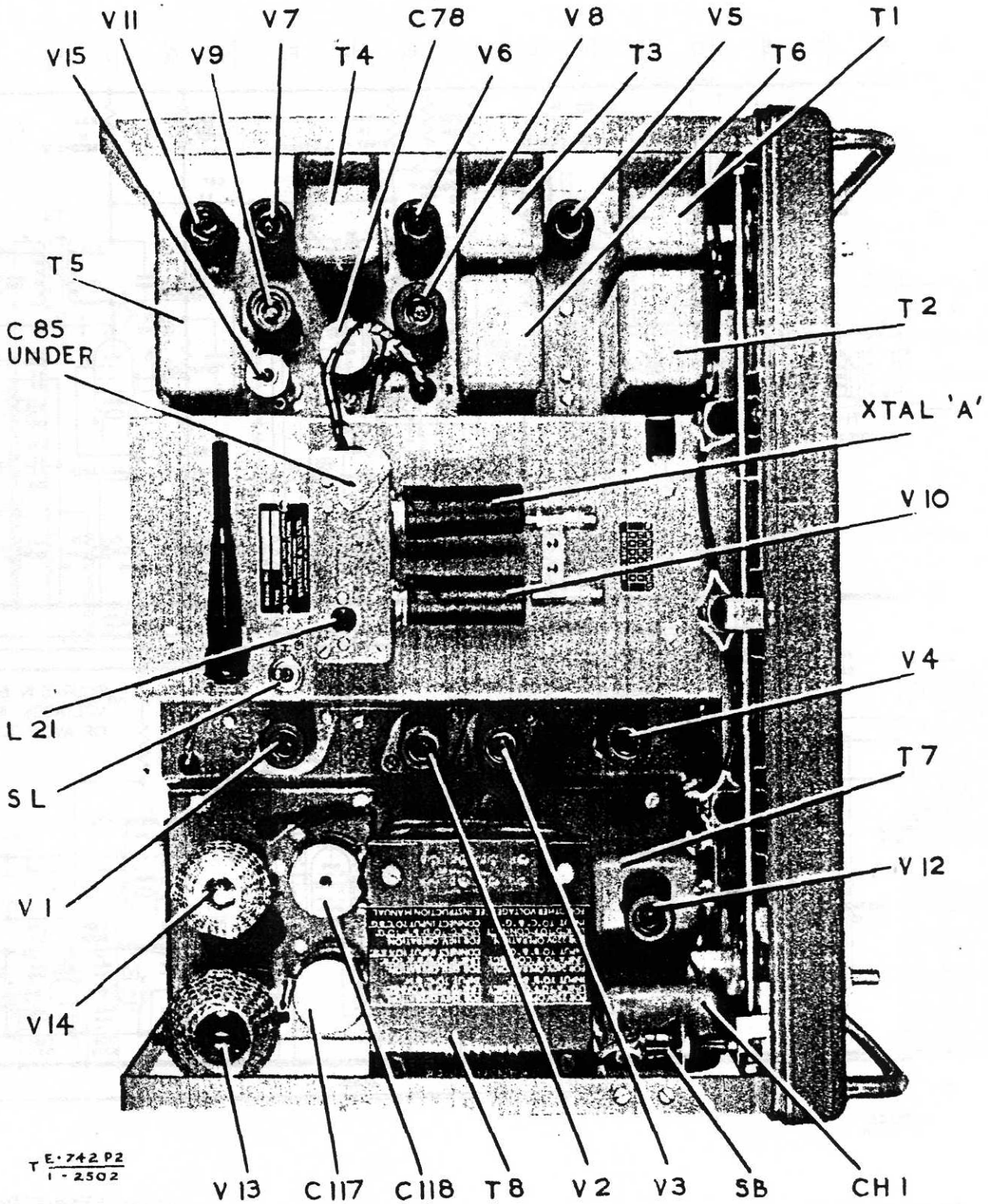




- Receiver circuit diagram





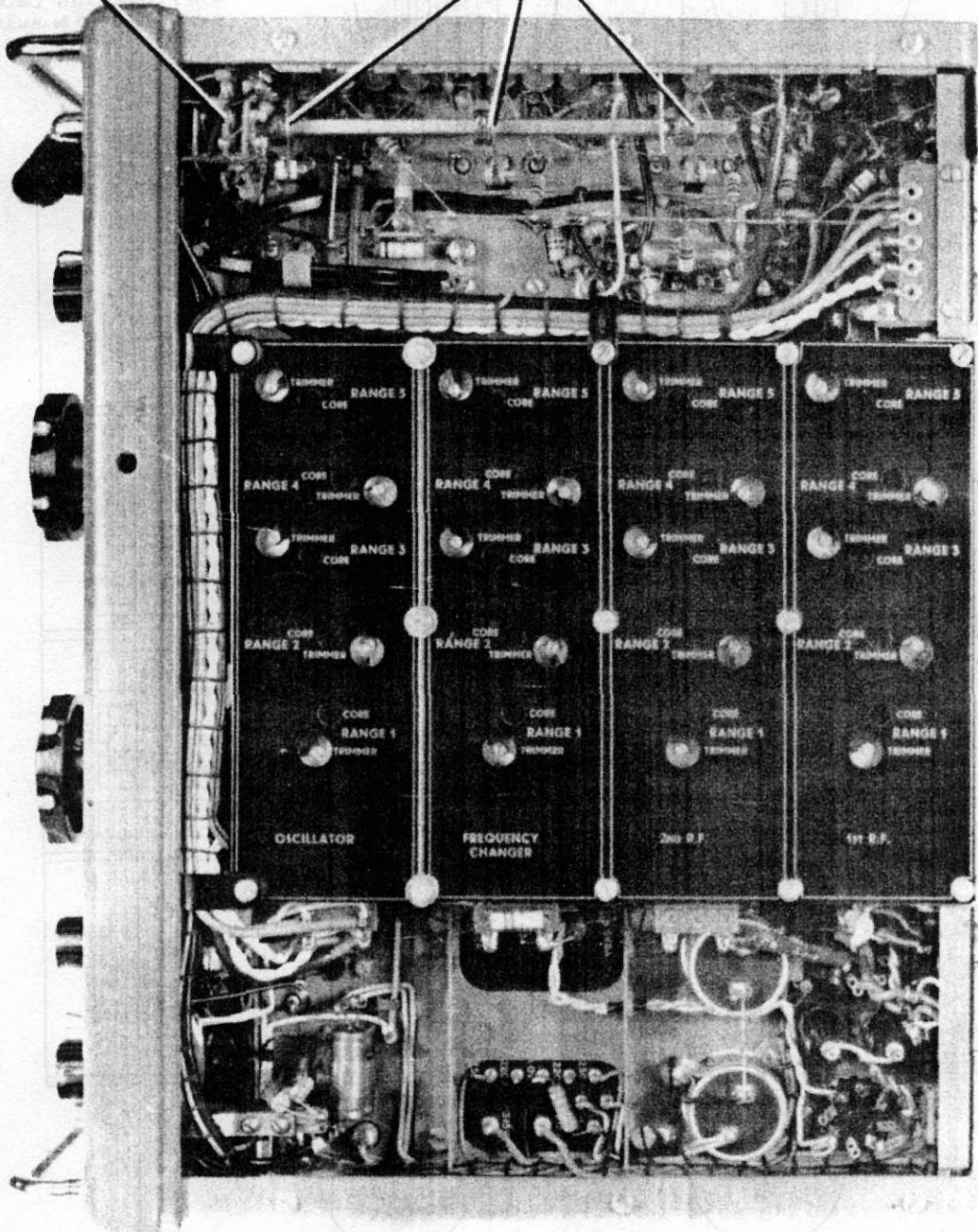


T E-742 P2  
1-2502

Fig 2502 - Layout above chassis



SD  
ACTUATING RODS OF VARIABLE SELECTIVITY  
I.F. TRANSFORMERS



E-742 P2  
1-2503

Fig 2503 - Layout below chassis

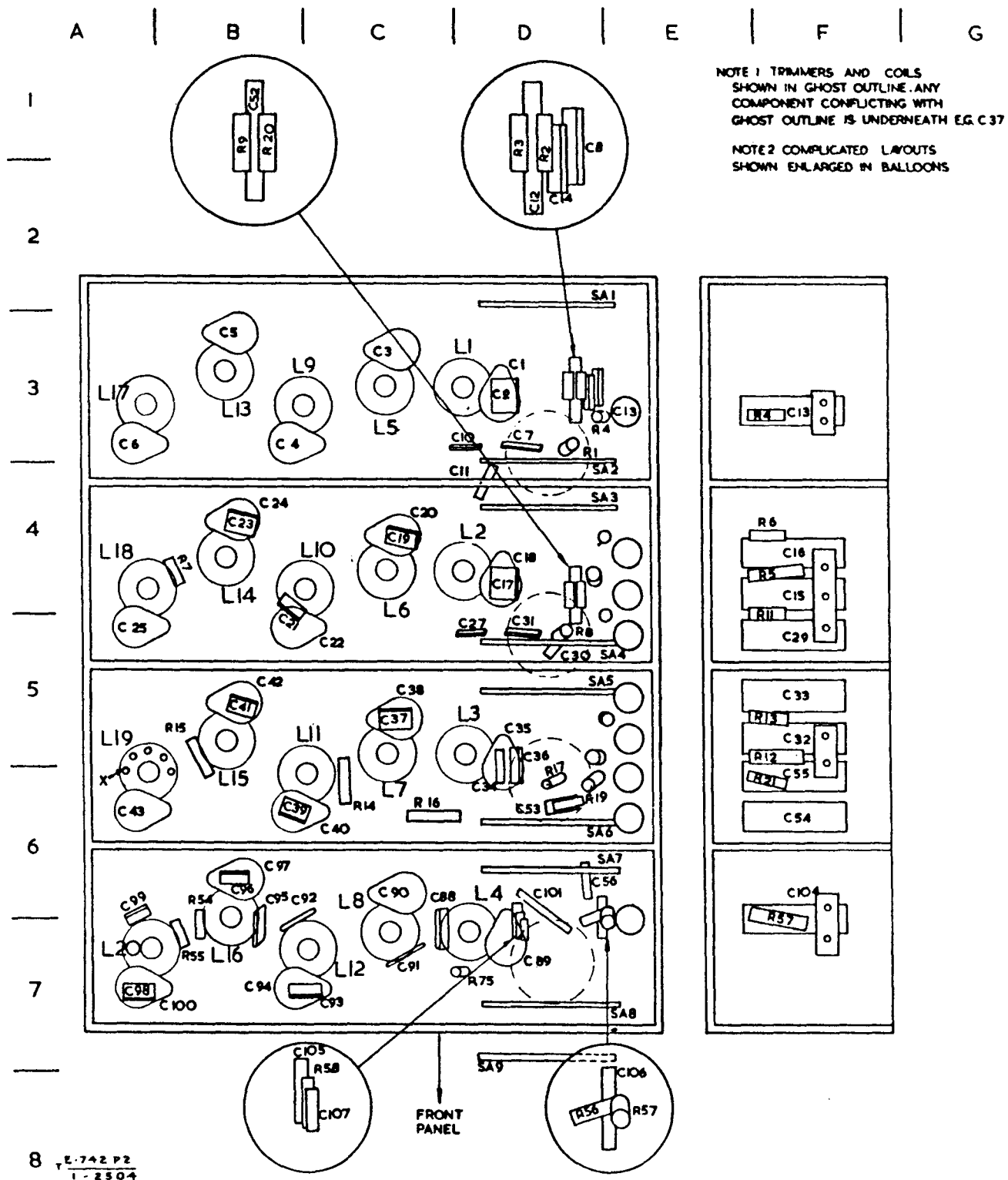
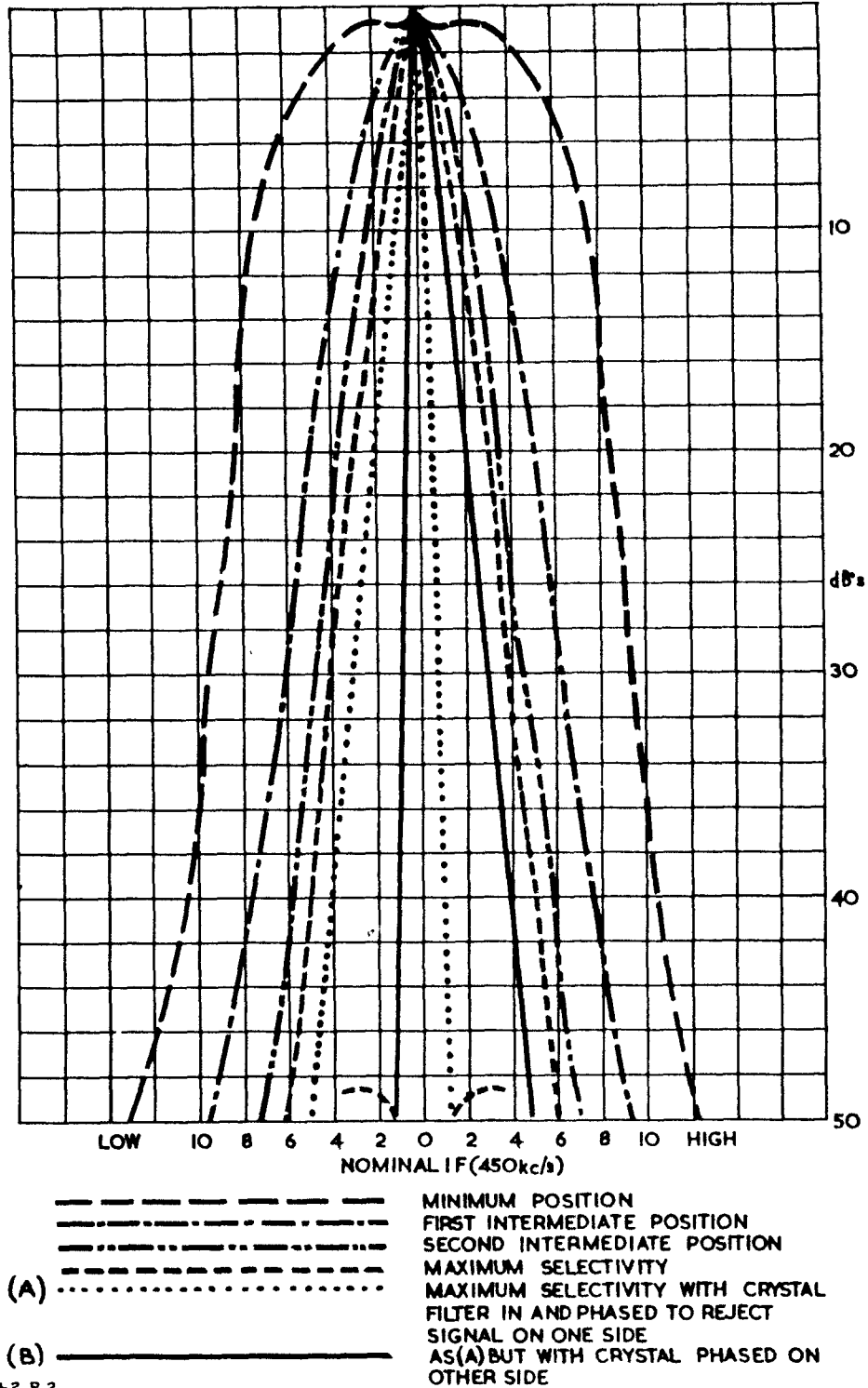


Fig 2504 - Layout of coil compartment



E 742 P 2  
1-2505

Fig 2505 - Typical i.f. response curves

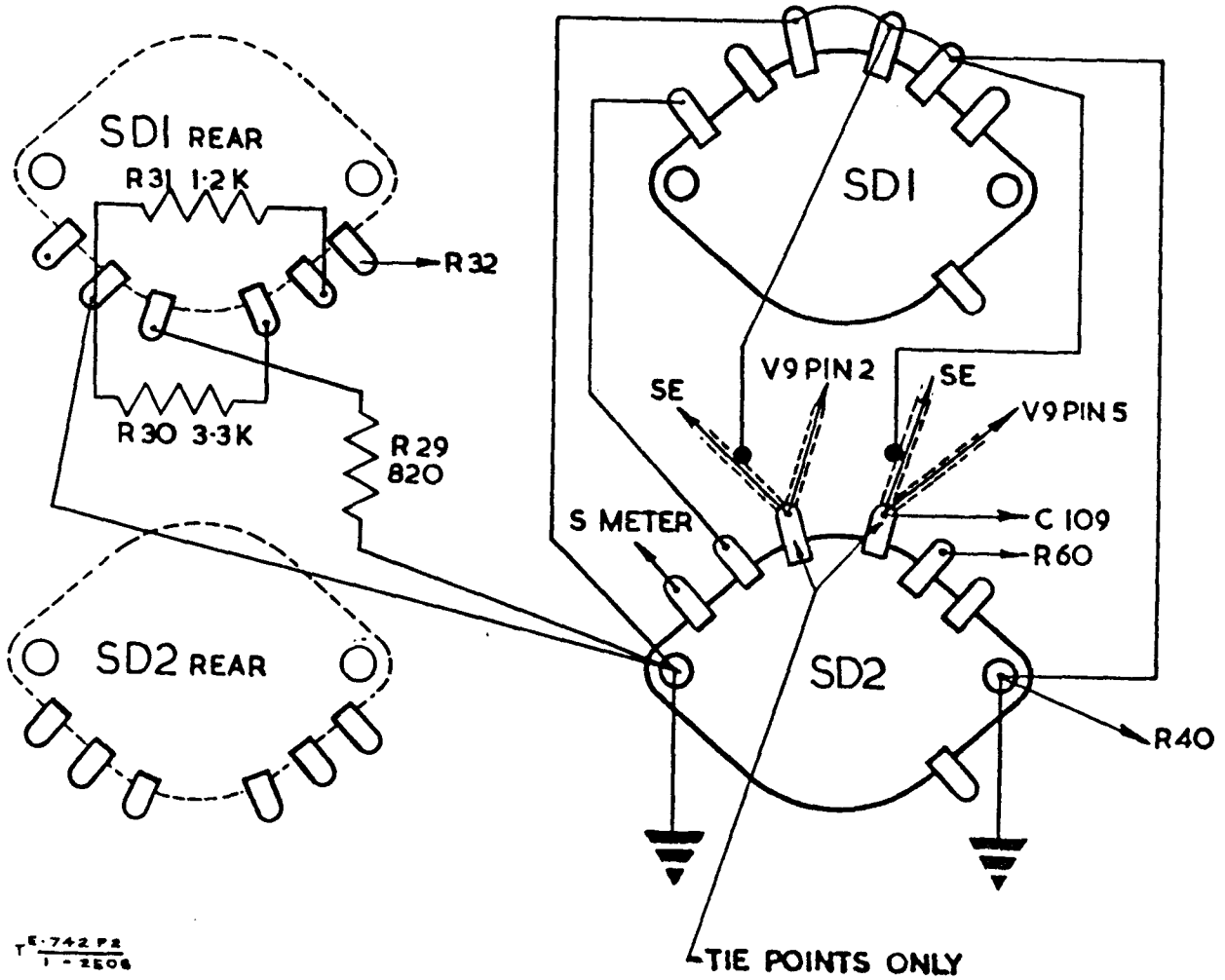


Fig 2506 - Layout of SD (viewed from rear with set inverted)

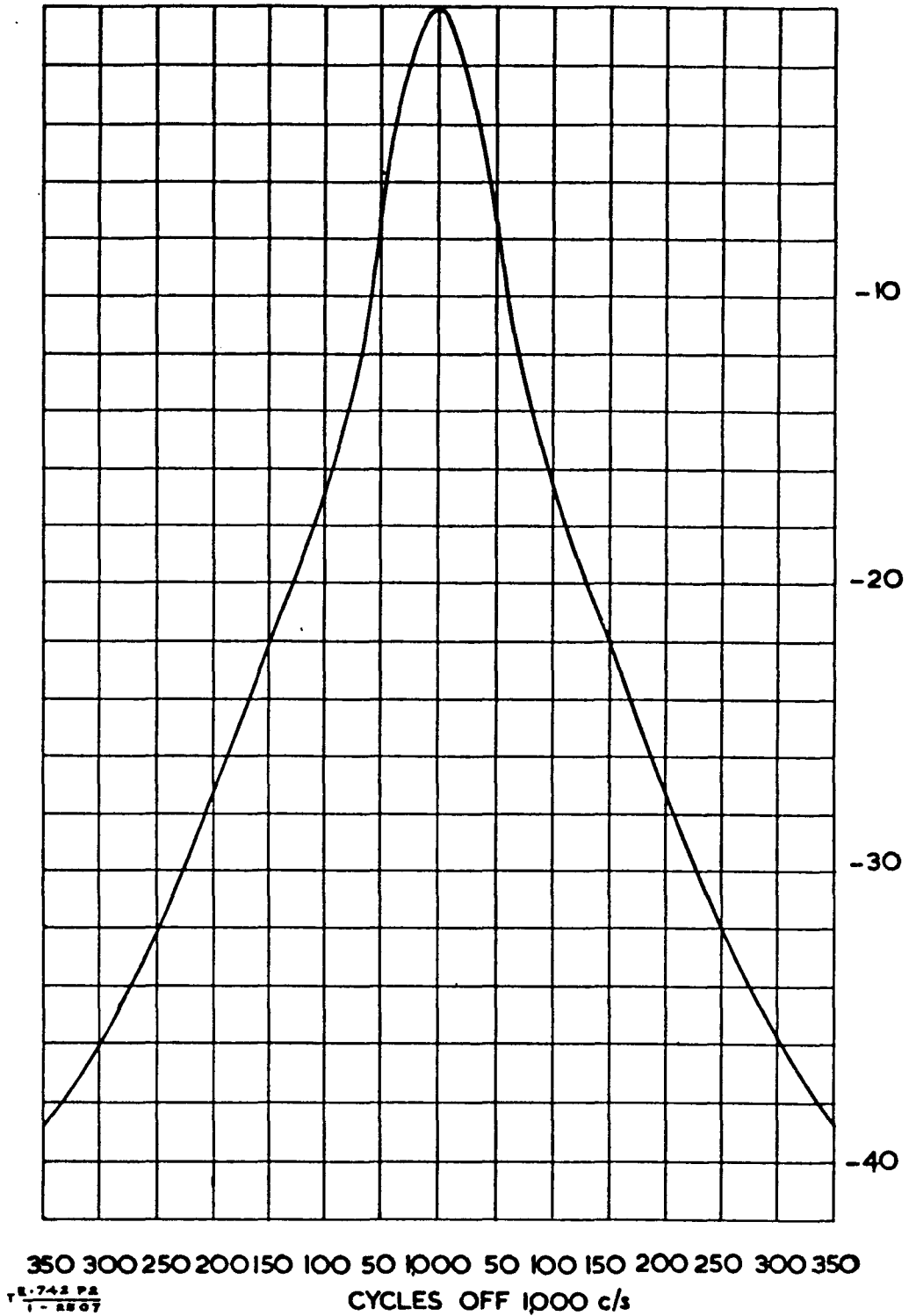


Fig 2507 - Response of a.f. filter



R E S T R I C T E D

ELECTRICAL AND MECHANICAL  
ENGINEERING REGULATIONS  
(By Command of the Defence Council)

TELECOMMUNICATIONS  
E 742  
Part 2

RECEPTION SET, EDDYSTONE, 730/4 (Z4/ZA 51262)

FORWARD CODING

Note: The following list of Assembly Codes must be used in conjunction with EMER Mgmt J 021 Part 4.

Assembly code	Designation
0001	Complete reception set

6-502 (Data Centre)

END

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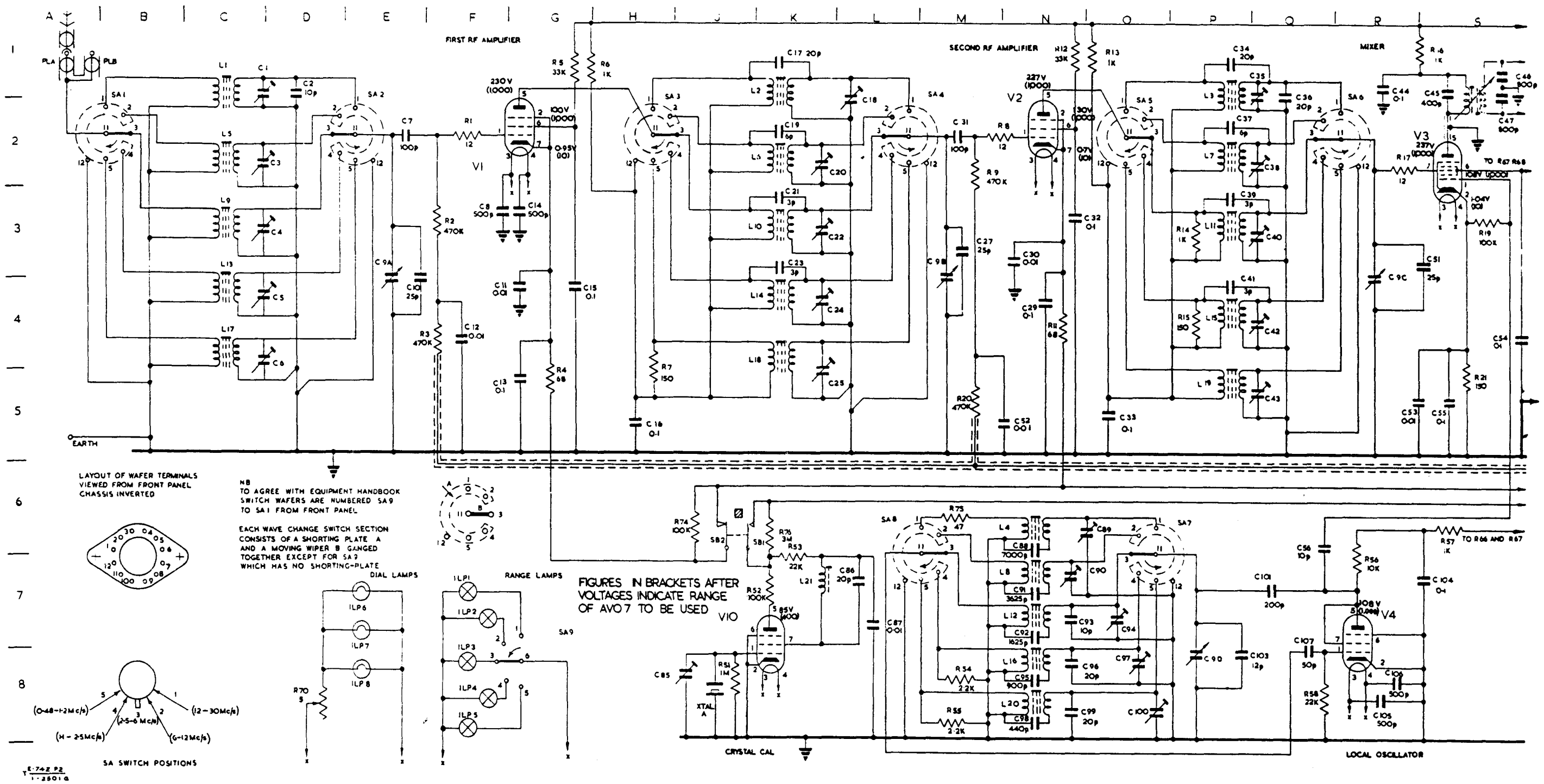


Fig 2501a - Receiver circuit diagram

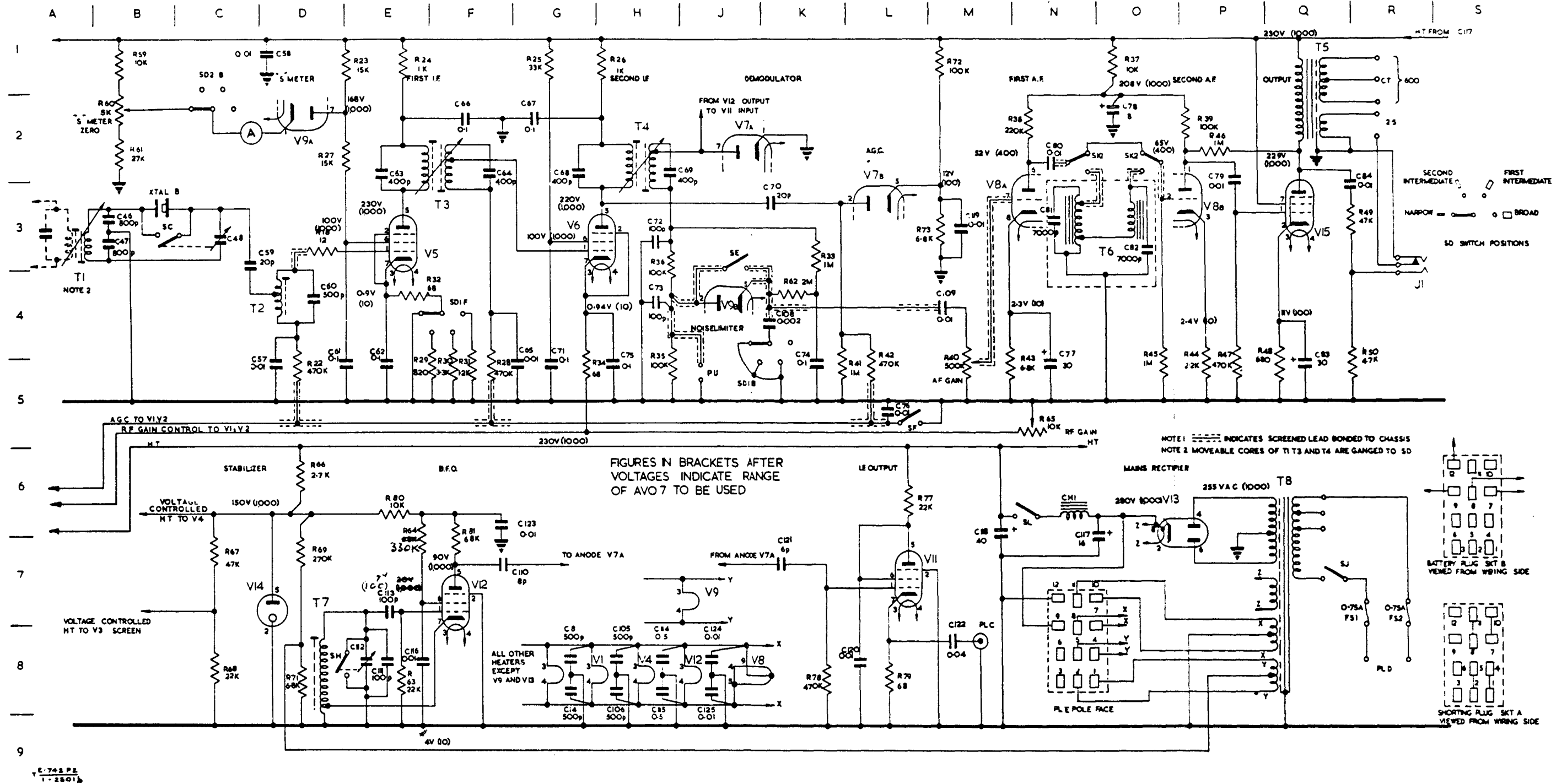


Fig 2501b - Receiver circuit diagram