

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'

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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

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

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

A.F. distortion

4. Taken at 2.5 Ω 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 μ V to 300mV must not increase the output level (set at 50mW with the 3 μ 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 μ V (10dB above 1 μ V) a change of input to 3.16mV (70dB above 1 μ 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

| | | |
|------------------------------|--------------------|---------------------|
| 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 (Ω) | Rating (W) | Tol (%) | Type | Location | |
|------------------|-----------------------|---------------|------------|----------|-------------------------|----------------------|
| | | | | | Schematic (Fig 2501) | Layout (Fig 2504) |
| RESISTORS | | | | | | |
| R1 | 12 | 1/2 | 20 | comp | a/F2 | D3 |
| R2 | 470k | 1/2 | 20 | comp | a/F3 | I12 |
| 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) |
| RESISTORS - (cont) | | | | | | |
| 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 | 330k | 1/2 | 10 | 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) |
| CAPACITORS | | | | | | |
| 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) |
| CAPACITORS - (cont) | | | | | | |
| 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) |
| CAPACITORS - (cont) | | | | | | |
| 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) |
| CAPACITORS - (cont) | | | | | | |
| 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) | | | |
| VALVES | | | | | | |
| 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 | | | |

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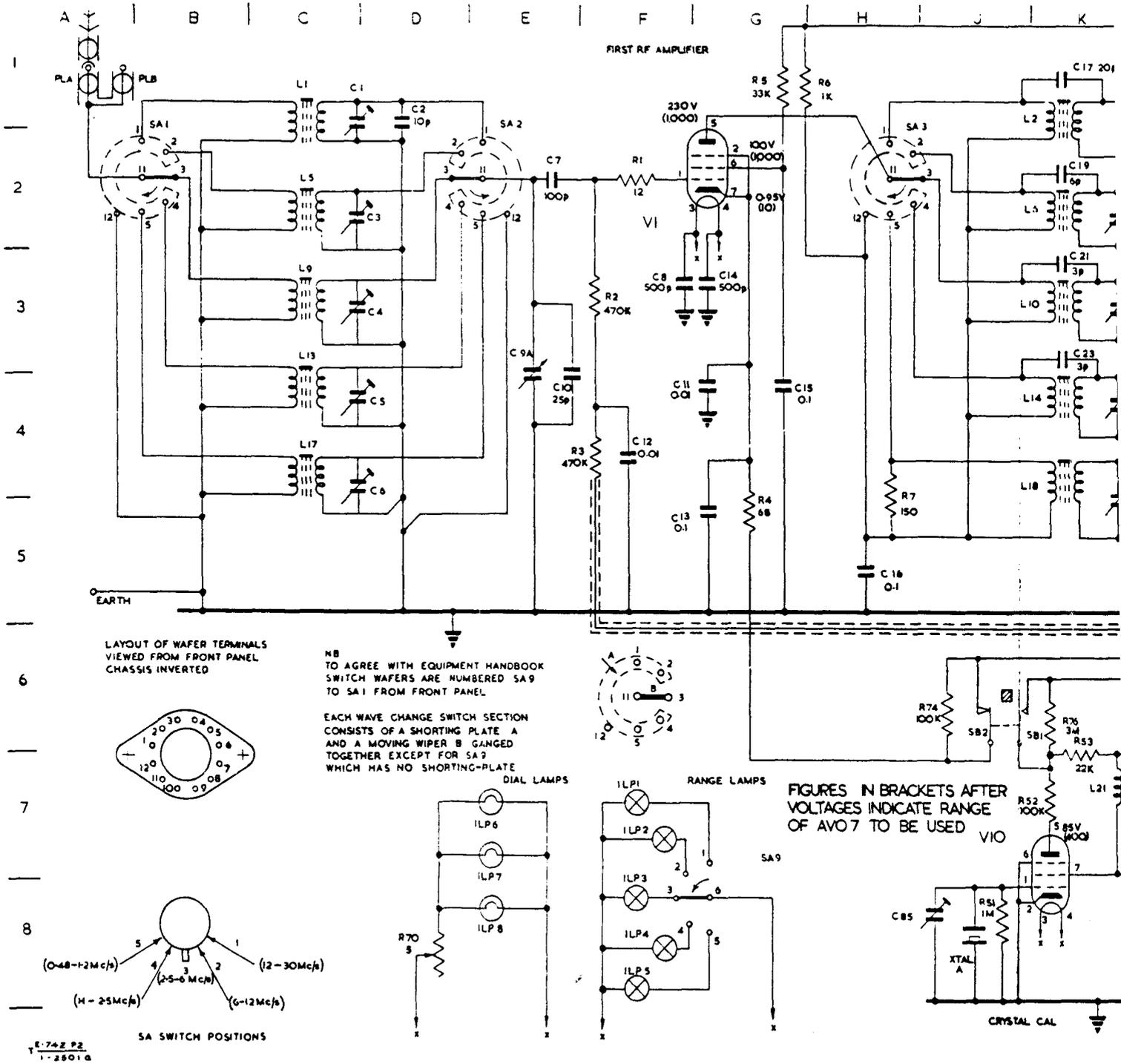
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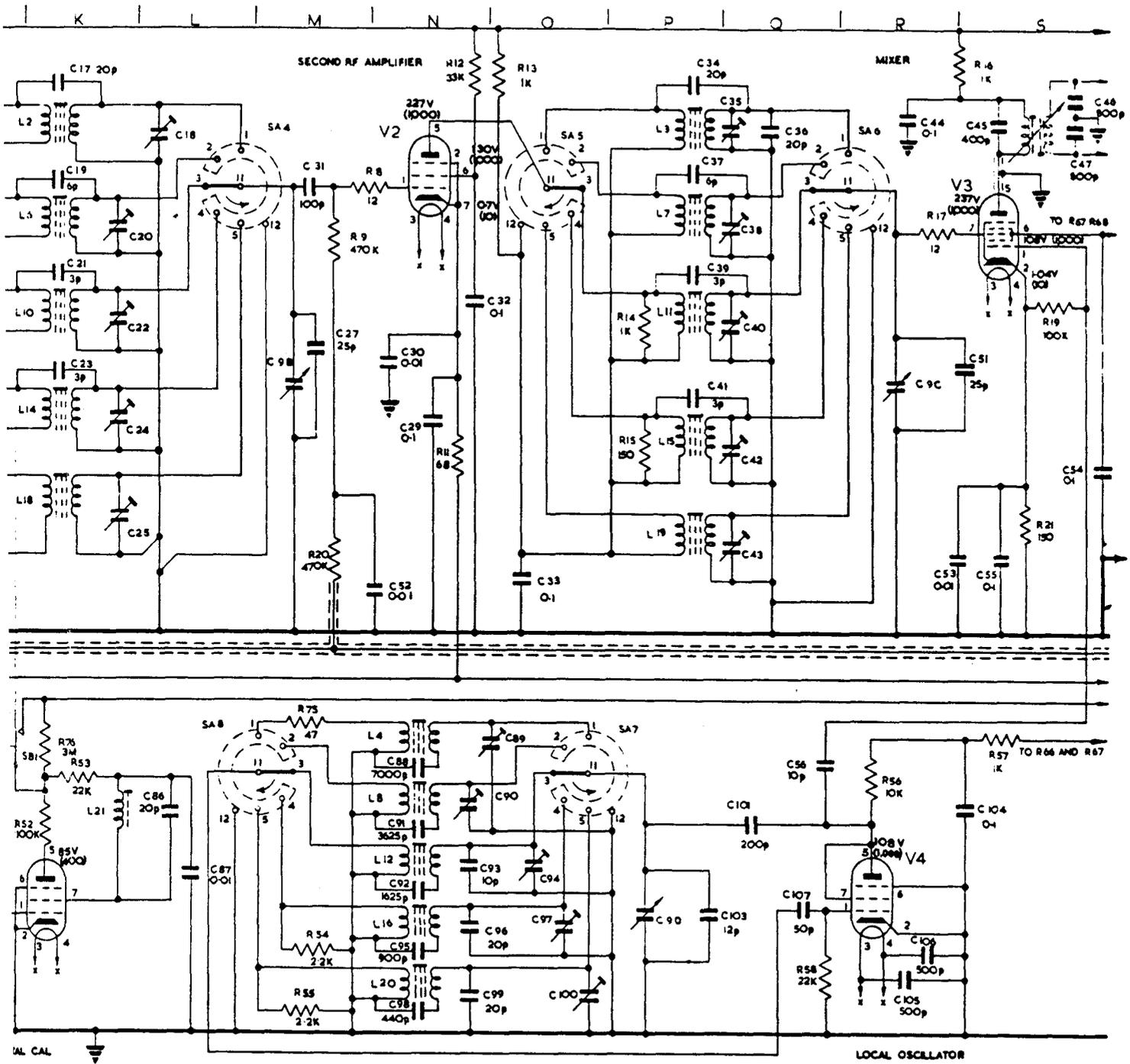
Table 2501 - (cont)

| 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 |

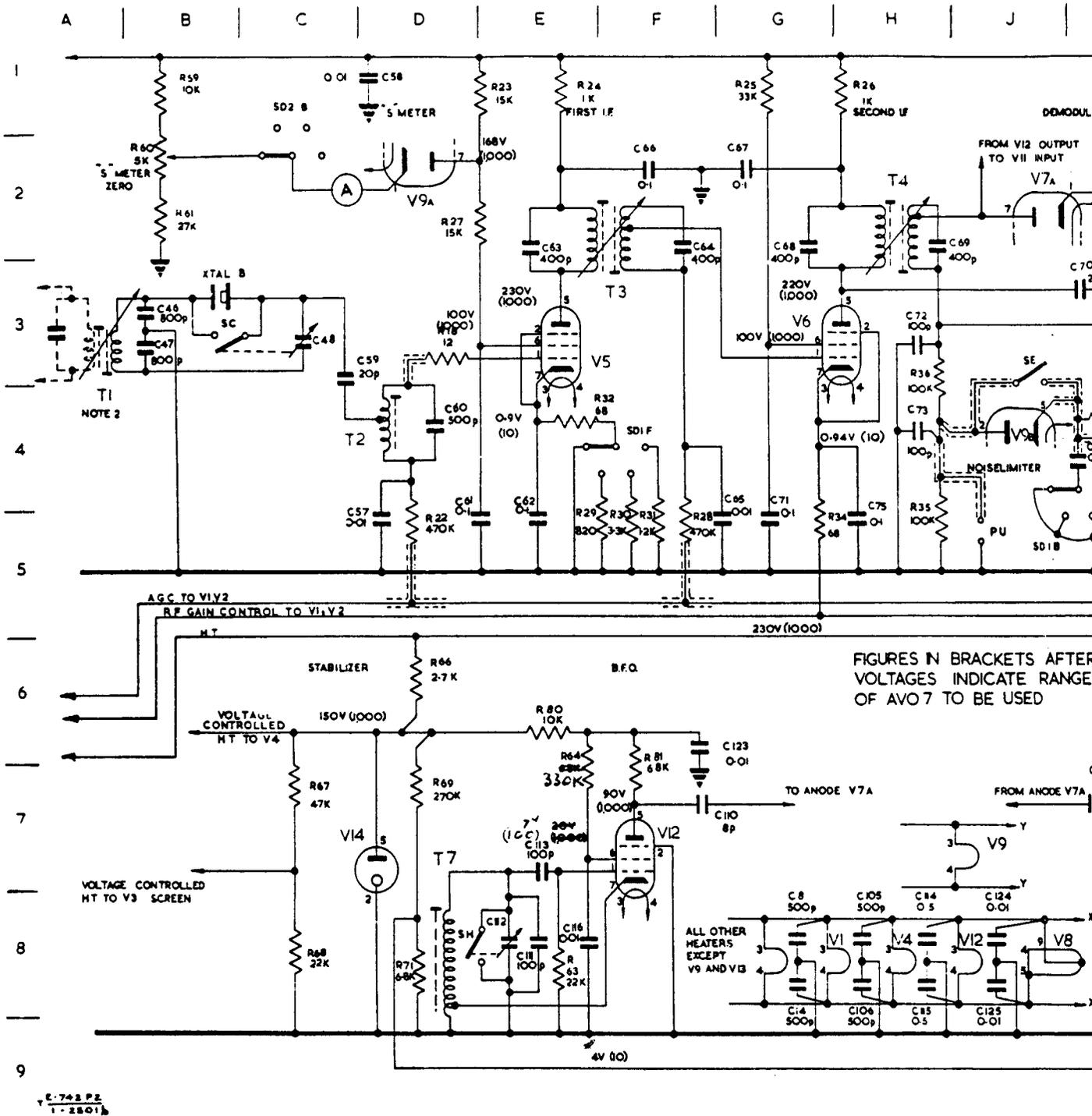
Table 2501 - (cont)

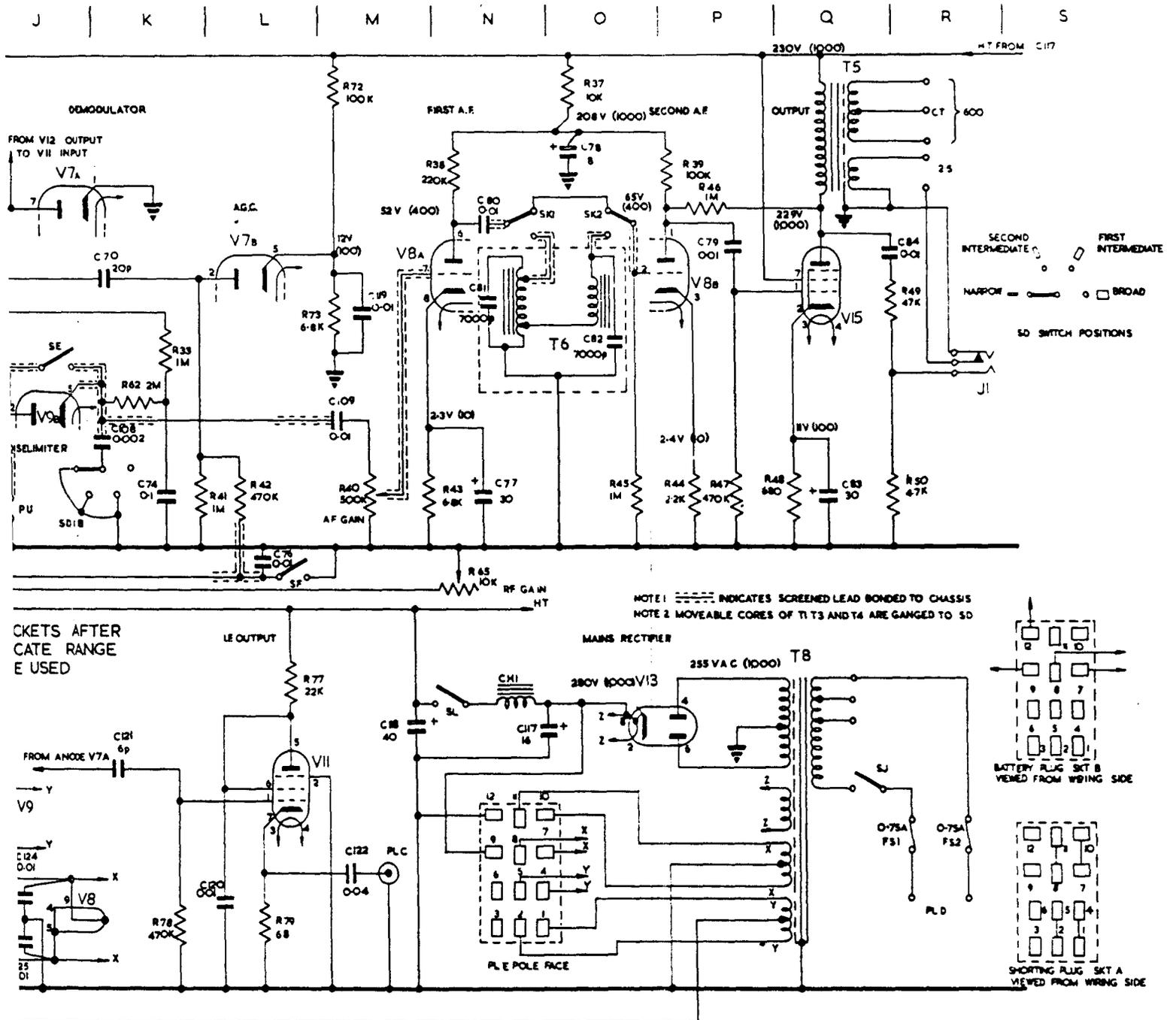
| Cct ref | Description | Location |
|-------------------------------------|-------------------------|----------------------|
| | | Schematic (Fig 2501) |
| MISCELLANEOUS ITEMS - (cont) | | |
| SKTA | PLE shorting socket | b/S78 |
| SKTB | External battery socket | b/S67 |
| SA1 | Wavechange switch | 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 |



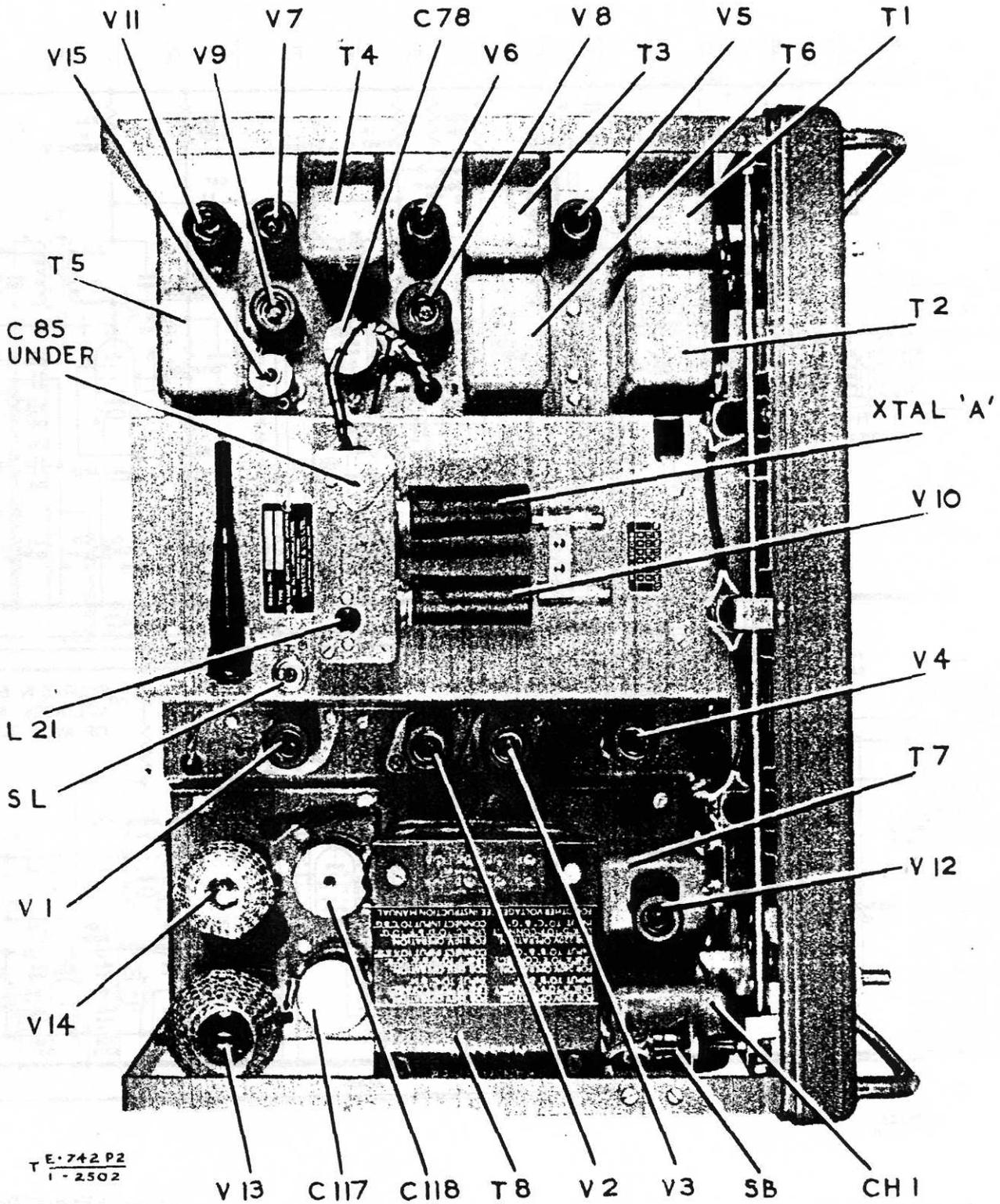


Receiver circuit diagram



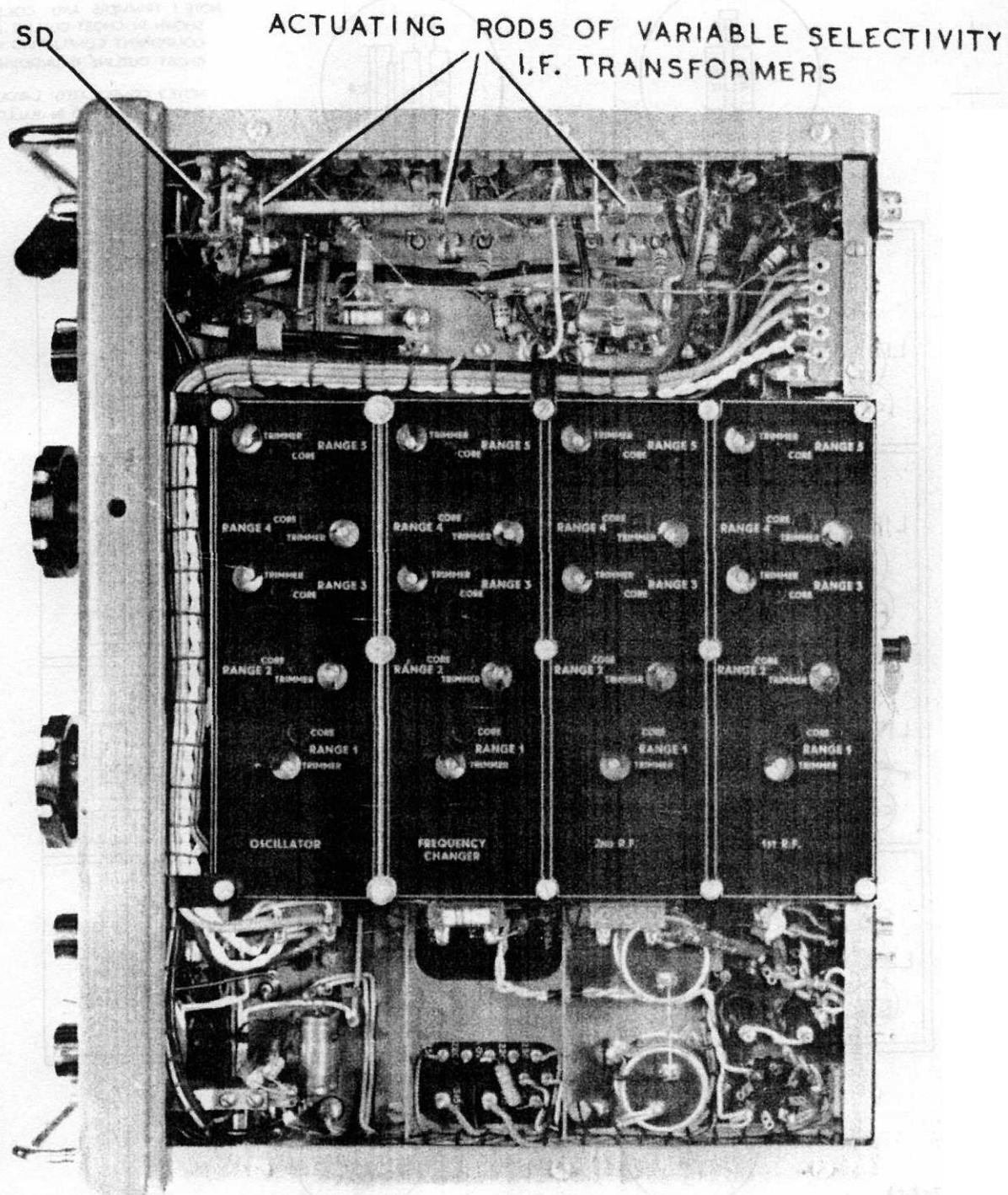


- Receiver circuit diagram



T E-742 P2
1-2502

Fig 2502 - Layout above chassis



E-742 P2
1-2503

Fig 2503 - Layout below chassis

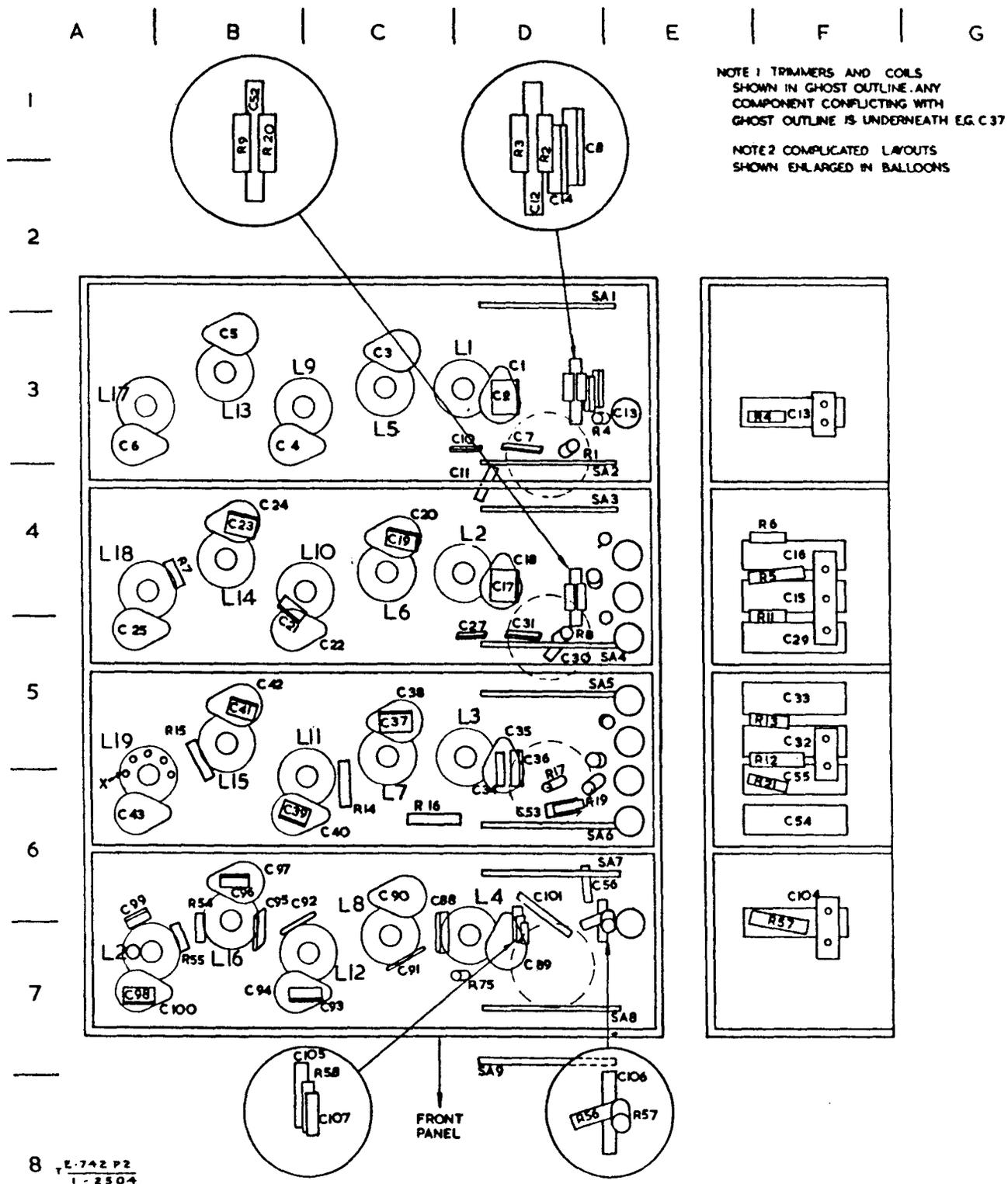


Fig 2504 - Layout of coil compartment

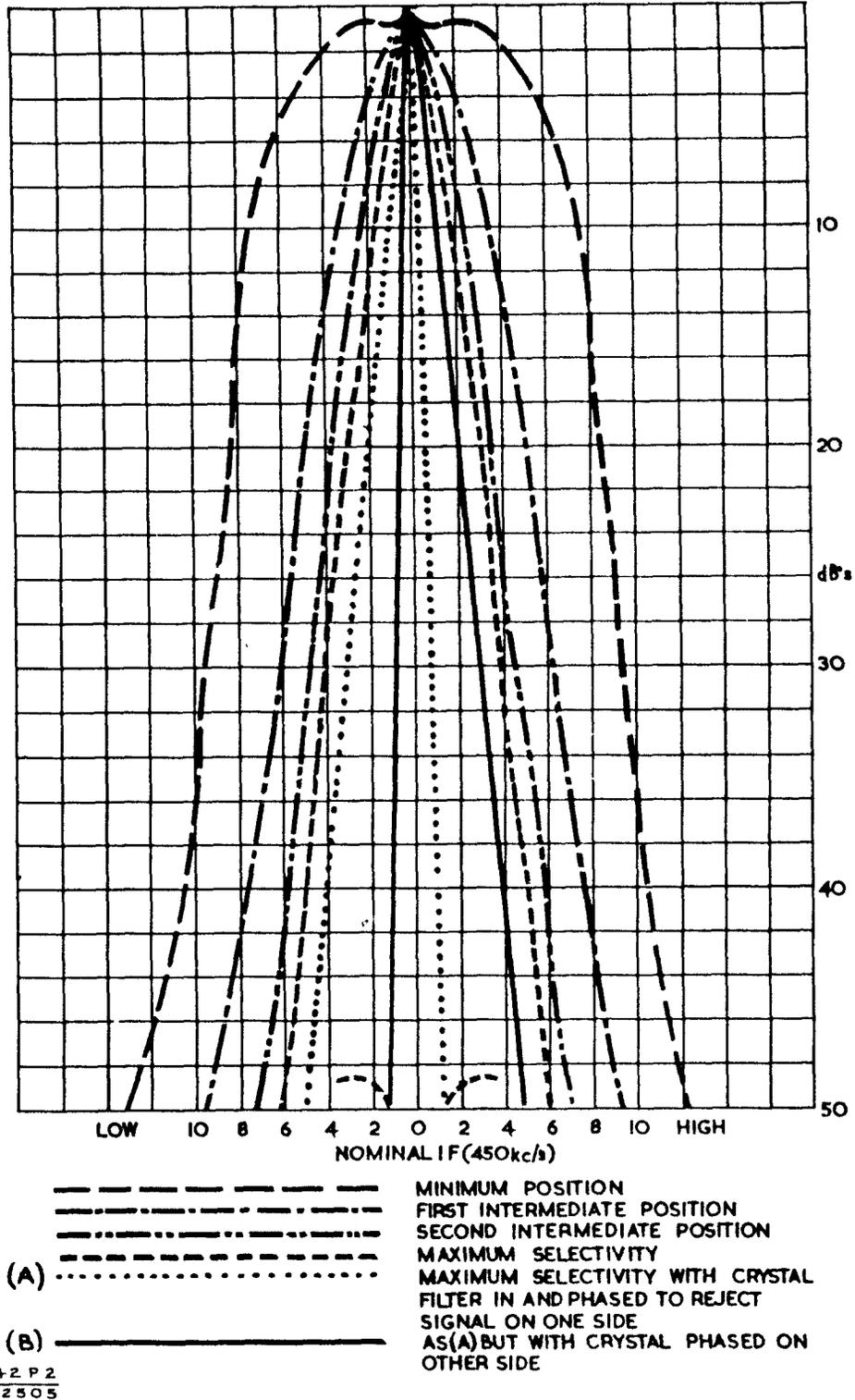


Fig 2505 - Typical i.f. response curves

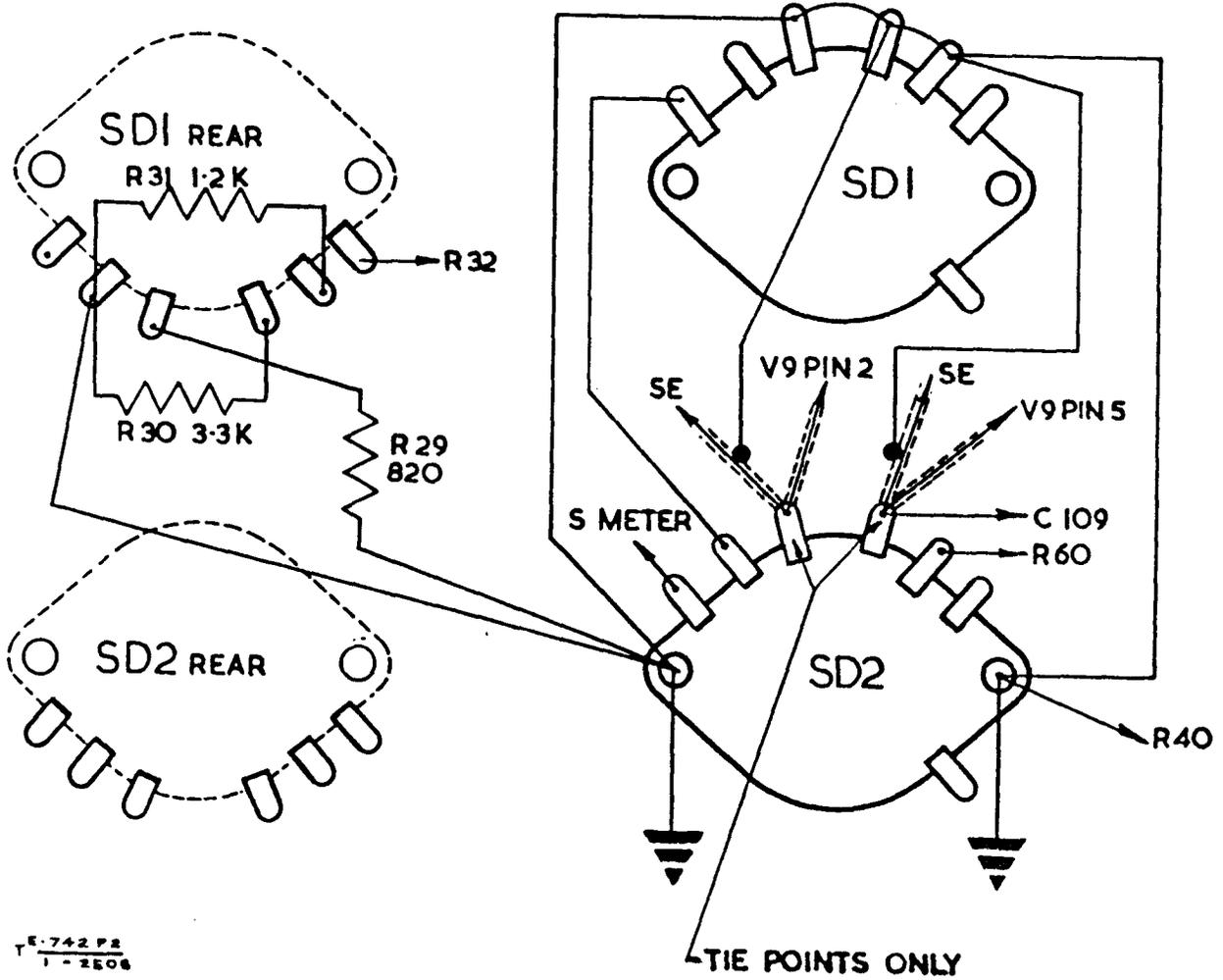


Fig 2506 - Layout of SD (viewed from rear with set inverted)

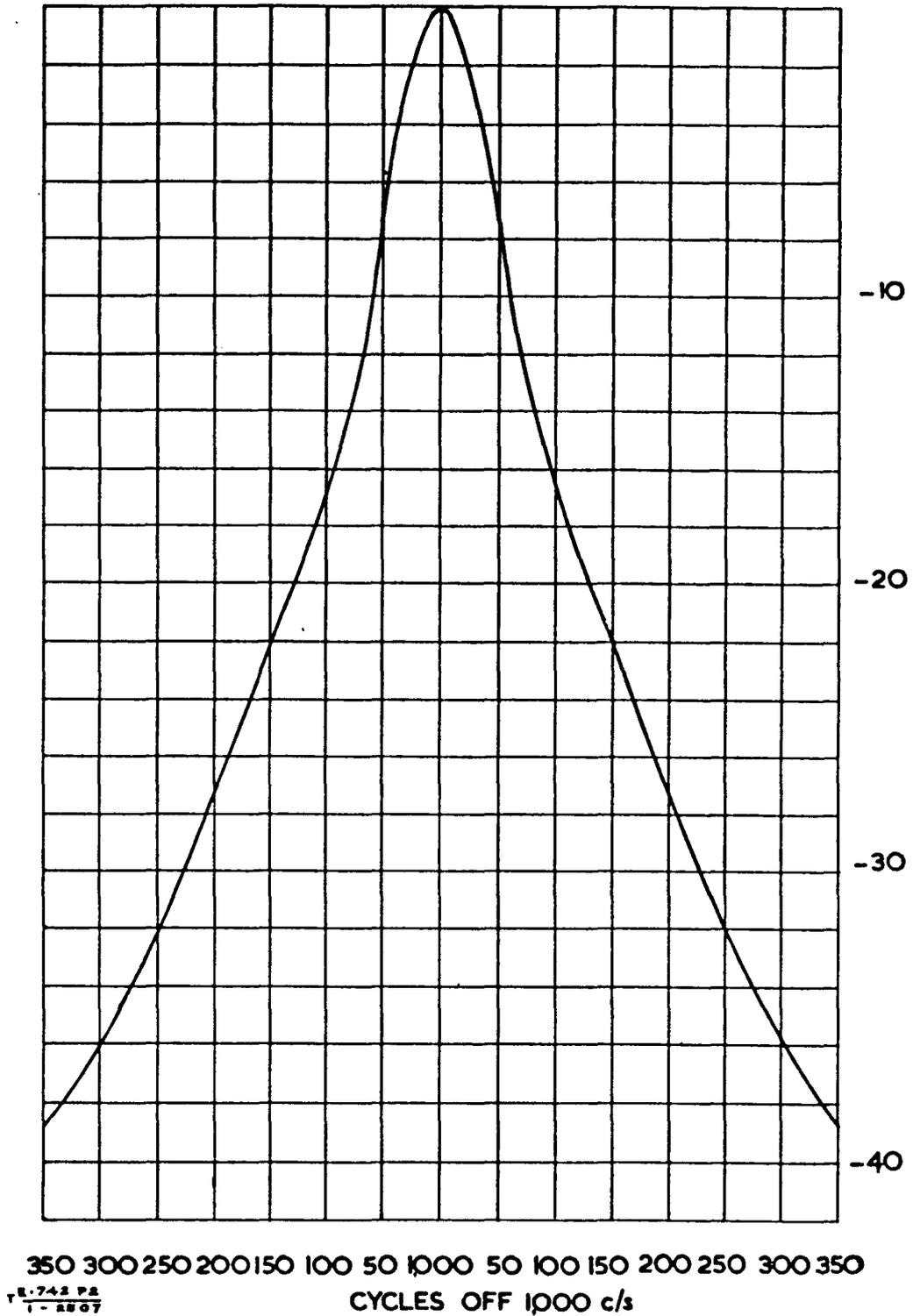


Fig 2507 - Response of a.f. filter

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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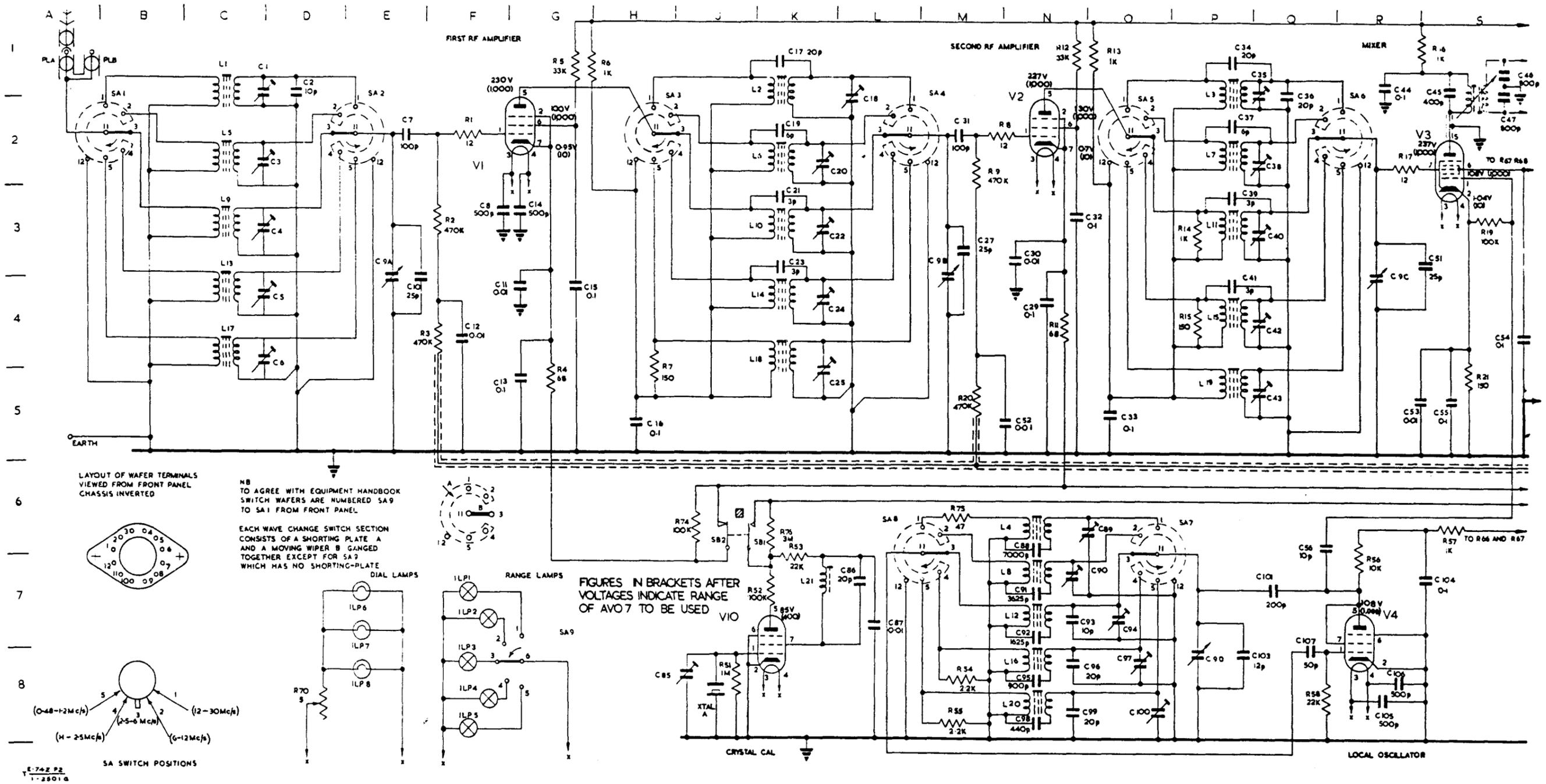


Fig 2501a - Receiver circuit diagram

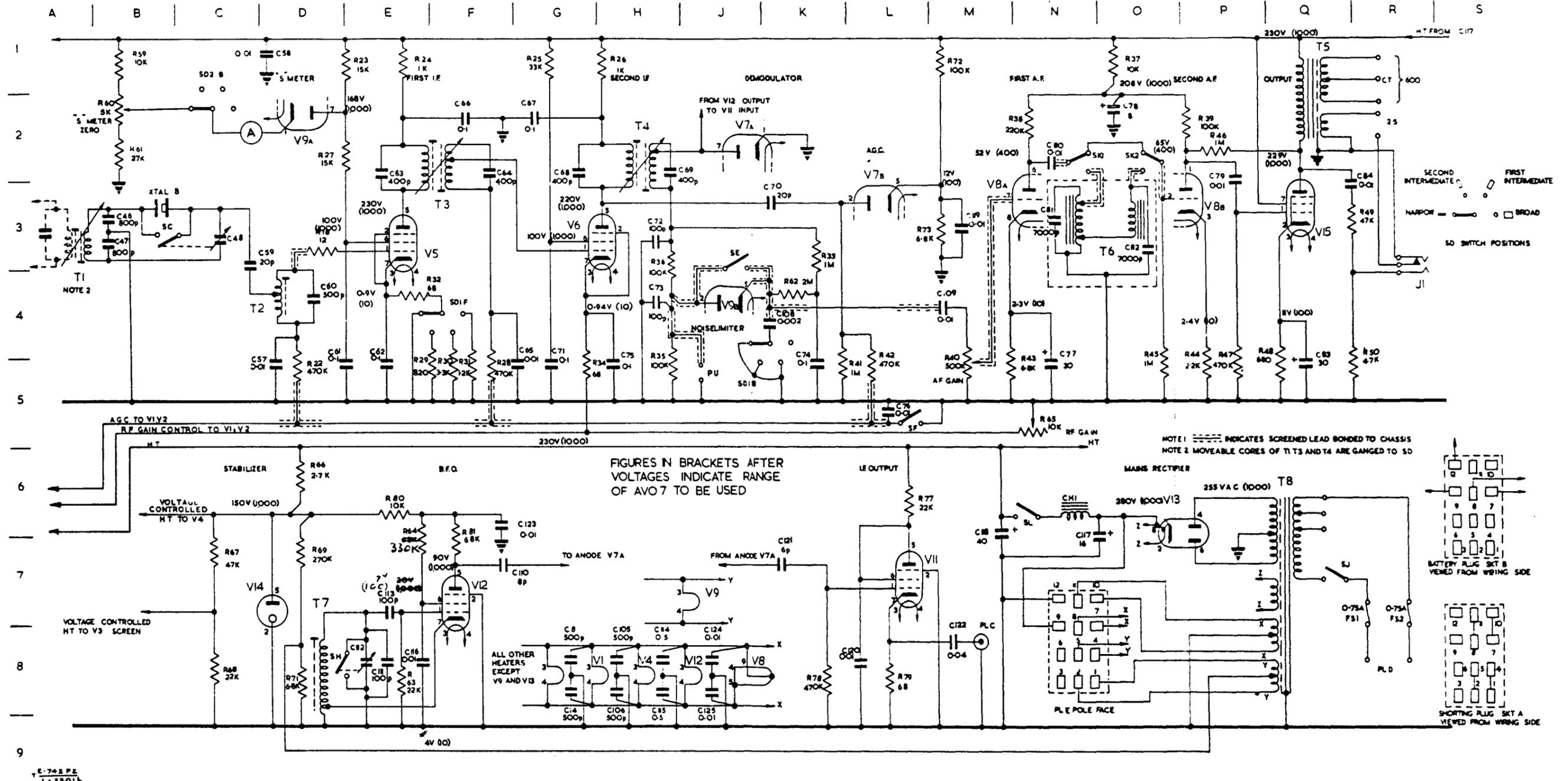


Fig 2501b - Receiver circuit diagram