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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 as time and effort permit. 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

Opening the file

You need to view this document with Acrobat Reader <u>version 5.0</u> or later (current version at time of writing is v8). This software is available free of charge from Adobe. It is also widely distributed with many other software and hardware products. You can upgrade your Acrobat Reader by direct download from the internet at http://www.adobe.com/products/reader/ - or going to http://www.adobe.com/ and navigating from there.

It is possible that the document may open with a version of the Acrobat Reader earlier than 5.0 (thus allowing you to get this far!), but is also likely that some pages will not be shown correctly.

Reading the file on-screen

When you open the file, you will see the first page displayed, and also a list of headings down the left hand side. These are "bookmarks", which provide you with an "on-screen index". By (left) clicking on any of these headings, you will be taken immediately to the page it refers to. This enables quick navigation around the document.

Large diagrams

The large diagrams (larger than A4) are given in two formats – in A4 size "sub-sheets" to allow easy printing, and also as A3 complete sheets. When you click on a bookmark for a large diagram, you are taken to the A3 version, so you can see the whole diagram on-screen. When you print the document, the A4 versions of these pages are used. (You can of course print the A3 size sheets, if you are lucky enough to have an A3 format printer).

Printing the document

The document started life on paper, and one aim of these archive copies is to provide a good record of the original. If you want to, you can make a pretty accurate copy of the original from our file.

The vast majority of our users have access only to an A4 format printer (this is the common paper size available in UK and Europe, which measures 29.7cm by 21.0cm), and special steps have been taken to provide accurate reproduction of large pages (typically A3 size or large).

To keep close to the original, our file is intended for double-sided printing – that is printing on both sides of one sheet of paper. Nearly all original documents are printed in this way to keep their size to a minimum and save paper. This also means that you will occasionally get a blank sheet – because the original had exactly that. It also means that properly bound copies will remain readable – no text disappearing into the binding if the copy is properly paginated.

Large sheets are a problem if you have only an A4 format printer. Shrinking such sheets to half size (or smaller) is not generally an answer because they often become unreadable without a magnifying glass. The solution used here is for you to print A3 sheets as two overlapping A4 sheets (overlap size is 1.5cm), and then cut and paste them together.

A4 double-sided printing

Double-sided printers (automatic) are becoming increasingly common, however double-siding can often be achieved manually by first printing the odd sides only, then turning the sheets over, feeding them through again and printing the even sides. Your printer manual will explain how to do this for your specific printer (don't assume its dead straightforward – read the manual!).

The following instructions are based on Adobe Reader v8, and 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 "Reading the file on-screen" 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. (If you are only printing part of the document, then just note the page range you want.)
- 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. If your printer has automatic double-siding, you may still need to select "double-sided printing" if this not an option you use by default.
- 6. If you are using manual double-siding, then change the "subset" setting from "All pages in range" to "Odd pages only".
- 7. In the "Page Handling" area, next to "Page Scaling", select "Fit to paper". The press "OK"

If you are doing manual double-siding, then you will need to repeat steps 2 to 7, but in step 6, substitute "Even pages only" for "Odd pages only". You will need to refer to your printer manual to understand exactly how to feed the sheets back through the printer (which way round to place them) – or find out how to do this by trial and error.

A4 single-sided printing

Single-sided printing is straightforward. You will just use more paper! And you will get the occasional blank sheet, which you can remove from the stack of printed pages, and re-use in your printer. Just follow the instructions under double-sided printing but ignore all references to double-siding.

Printing the document on an US Letter format printer

Since A4 and US Letter sizes are similar, it is expected that this document should print satisfactorily on the latter format paper. This has not been tested however, and is not guaranteed. Follow the steps as for A4 printing, and make doubly sure that "Fit to paper" is selected (step 7).

Any other problems?

Please get in touch with the archive team at archivist@vmarsmanuals.co.uk.

Richard Hankins, January 2008



(By Command of the Defence Council)

RECEIVER, RADIO, R234

TECHNICAL HANDBOOK - FAULT FINDING AND REPAIR DATA

Errata

Note: This Page 0, Issue 2, supersedes Page 0, Issue 1, dated 3 Jul 67, and must be filed immediately in front of page 1, Issue 1, dated 16 May 66. Items 3 and 4 are additional.

- 1. The following amendments must be made to the regulation.
- 2. Page 1010, Fig 2504d, grid ref R8.

 Amend the diagram to show C210 connected between PLA-L L40 and LT EARTH (PLA-K)
- 3. Page 1015, Table 2501, detail for R49 and R55 amend to read:-

'1/4 10 022-1109
In the rating, type and limit, and part number columns.

4. Page 1056, Table 2503, R75
Delete all amendment detail as required by Tels E 619 Misc Instr No 3

T/8c/2193 T/60932/11 (TELS)

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RECEIVER, RADIO, R234

TECHNICAL HANDBOOK - FAULT-FINDING AND REPAIR DATA

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 613 and E 614 deal with repairs.

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ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

S.S.B. UNIT

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Notes:

- 1. Ref Tables 2501 to 2507. These tables are current at the time of issue only. Use the I.S.P.L., when published to demand stores.
- 2. The prefix of any grid reference, when given in the form Δ -B5, refers to the main section of the relevant figure. Thus, Λ -B5 under column heading Fig 2516 refers to Fig 2516a grid reference B5.
- 3. The following abbreviations have been used in the 'Type and limit' columns:-

comp.	=	composition	var.	=	variable
ins.	=	insulated	mic.	=	mica
		wire wound	pap.	=	paper
vit.	=	vi tre ous	met.	=	metal
enam.	=	enamel	cer.	=	ceramic
gd.	=	grade	tub.	=	tubular
		rectangular	elect.	=	electrolytic
tor.	=	toroidal	mlded	=	moulded
thru.	=	through	al.	=	aluminium

TELECOMMUNICATIONS E 612 Part 2

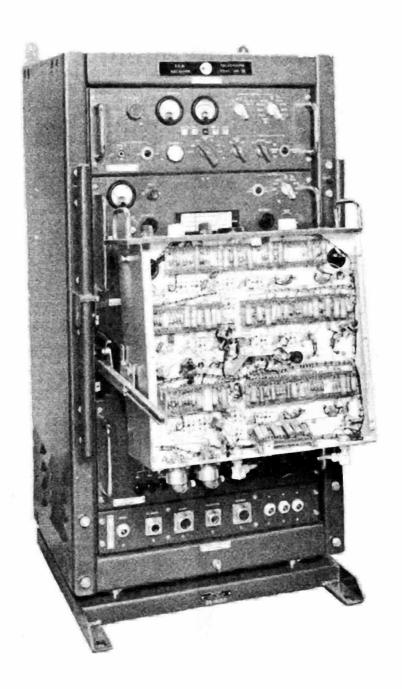


Fig 2501 - View of receiver with s.s.b. unit withdrawn

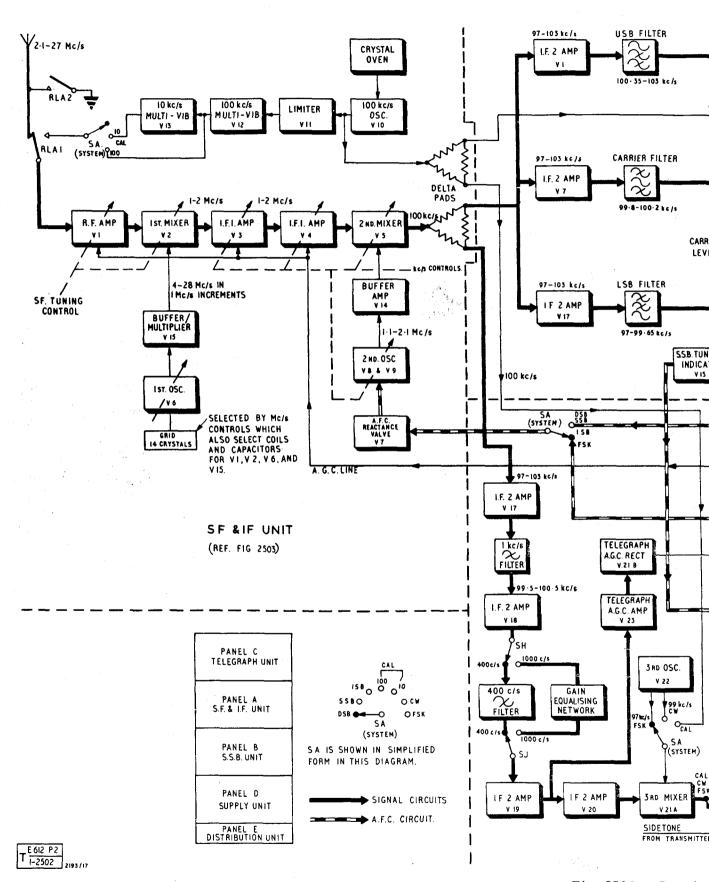


Fig 2502 - Receiv

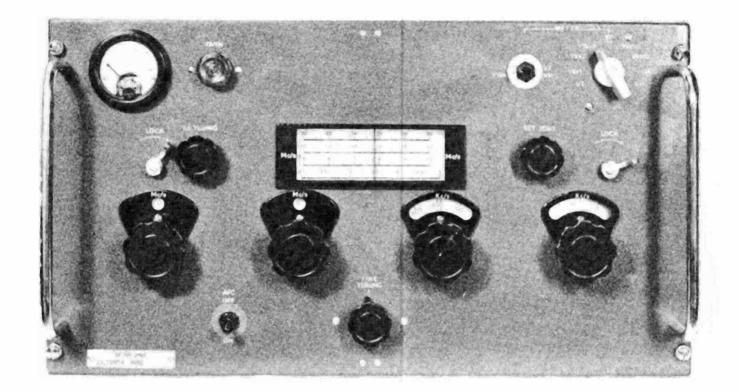
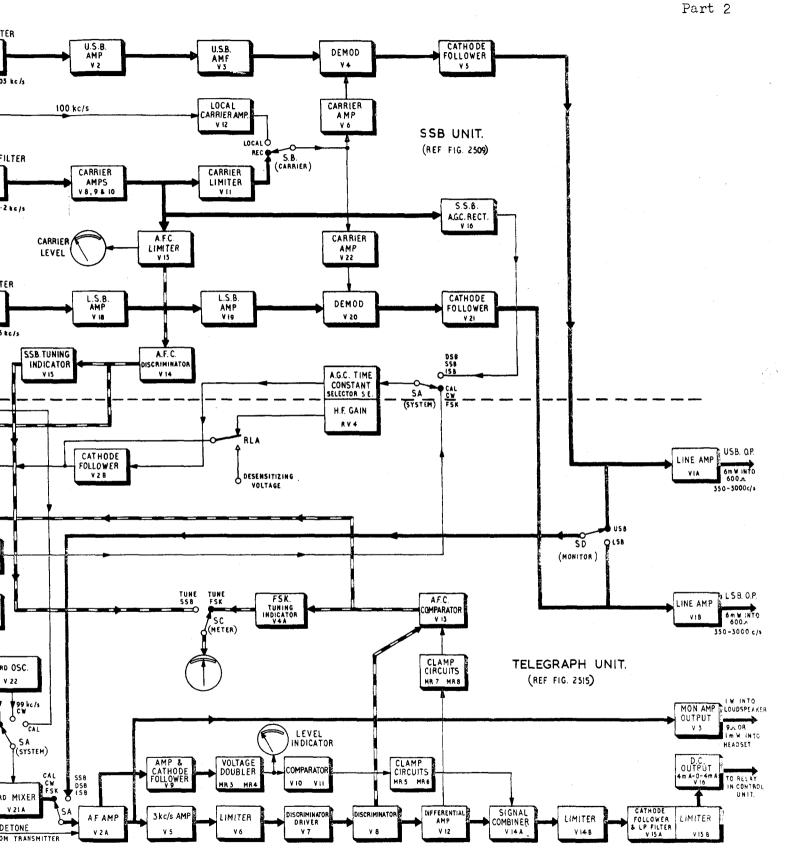


Fig 2503 - S.F. and i.f.1 unit, view of front panel

TELECOMMUNICATIONS
E 612





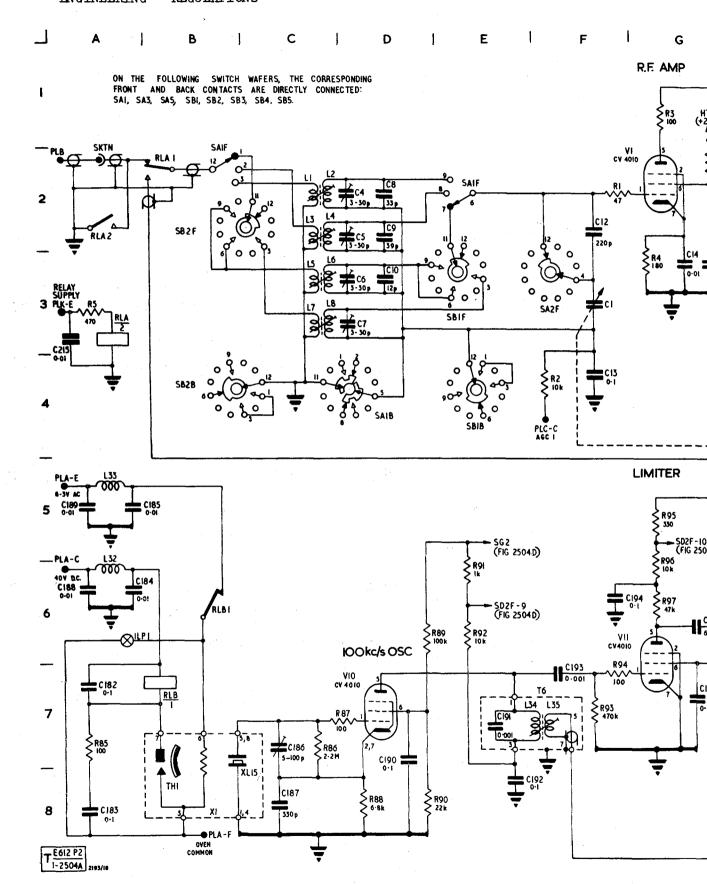
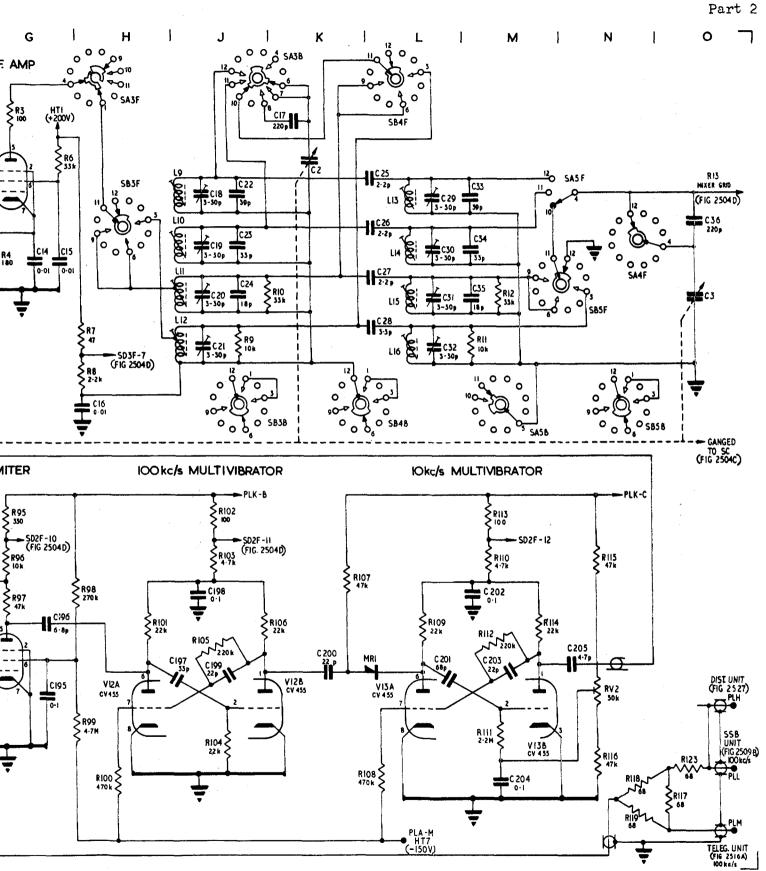


Fig 2504a - S.F. and i.f.1 unit, cir



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nit, circuit diagram, s.f. amplifier and calibrator

Fig 2504a Page 1007





Part 2

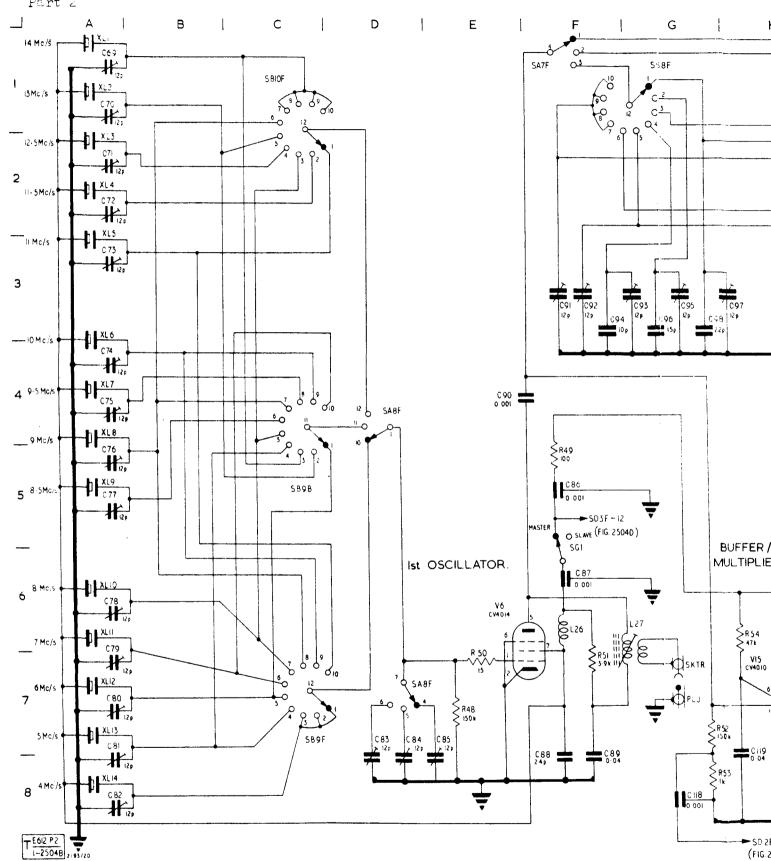
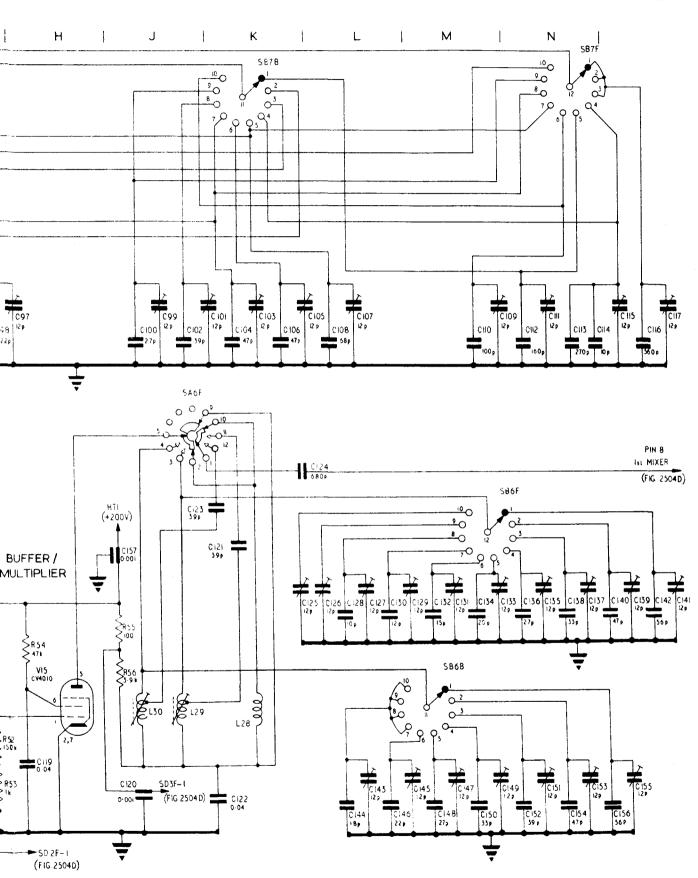


Fig 2504b - S.F. and i.f.1 unit, circuit diagram, fi





ram, first oscillator and buffer/multipler

nis figure, for use as bench i on supplementary demand.

I P I Q I R I S I T I U I

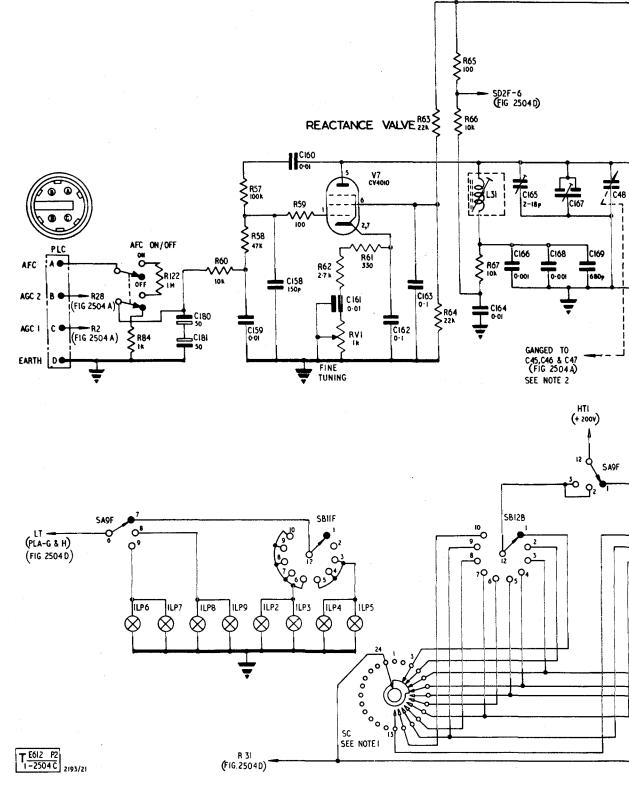
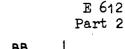
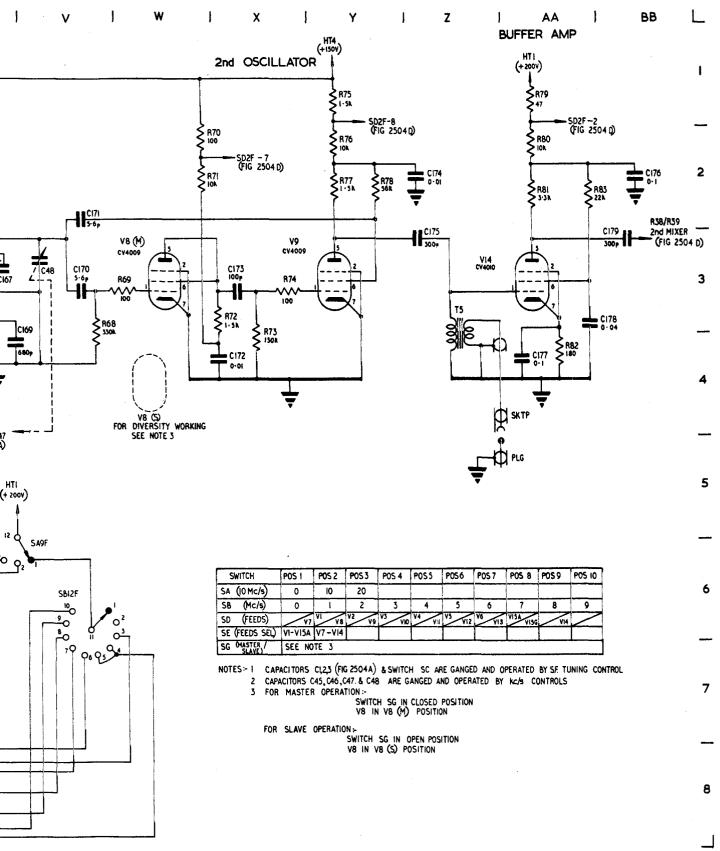


Fig 2504c - S.F. and i.f. 1 unit, circuit

Additional copies of copies, may be obtain







circuit diagram, reactance valve and second oscillator





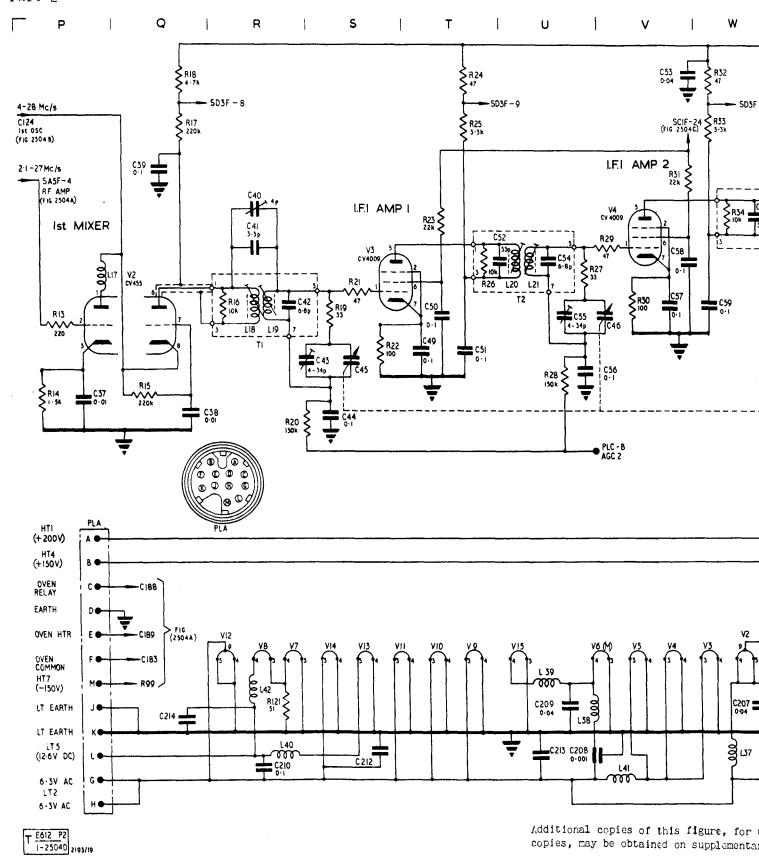
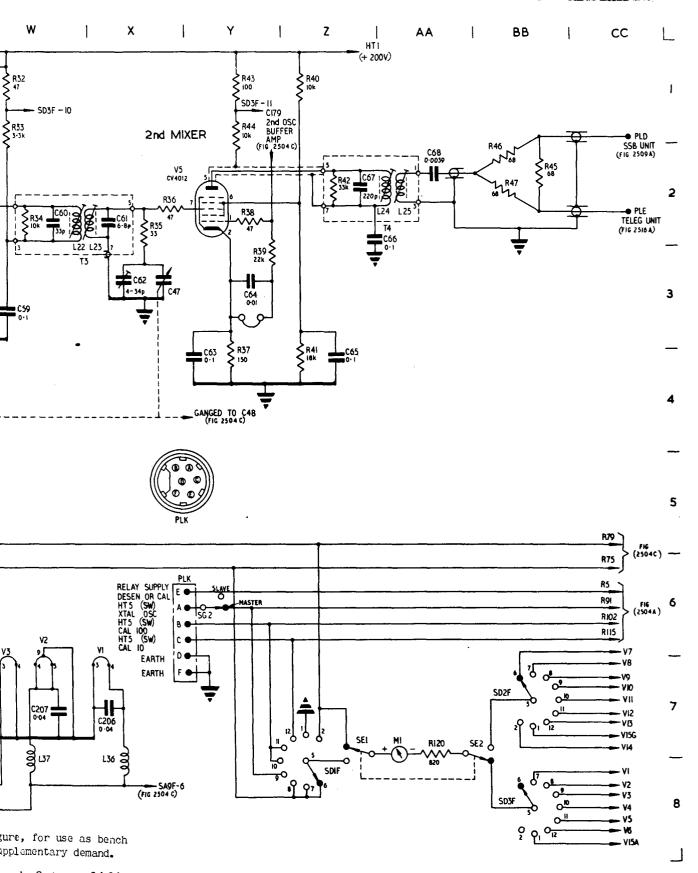


Fig 2504d - S.F. and i.f.1 unit, circuit diagram, first mixer, i.f.1





r, i.f.1 amplifier, second mixer and valve heaters

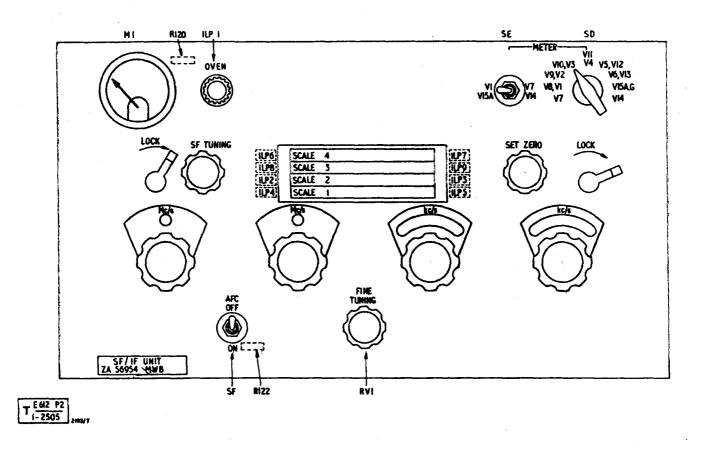


Fig 2505 - S.F. and i.f.1 unit, component layout, front panel

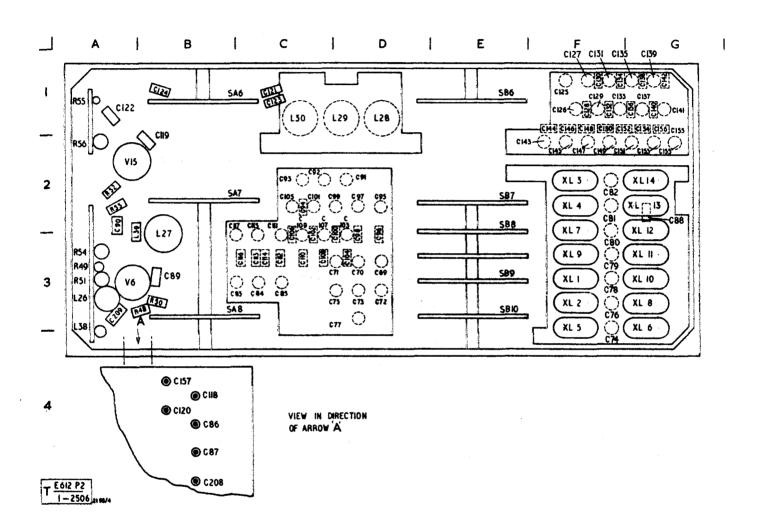
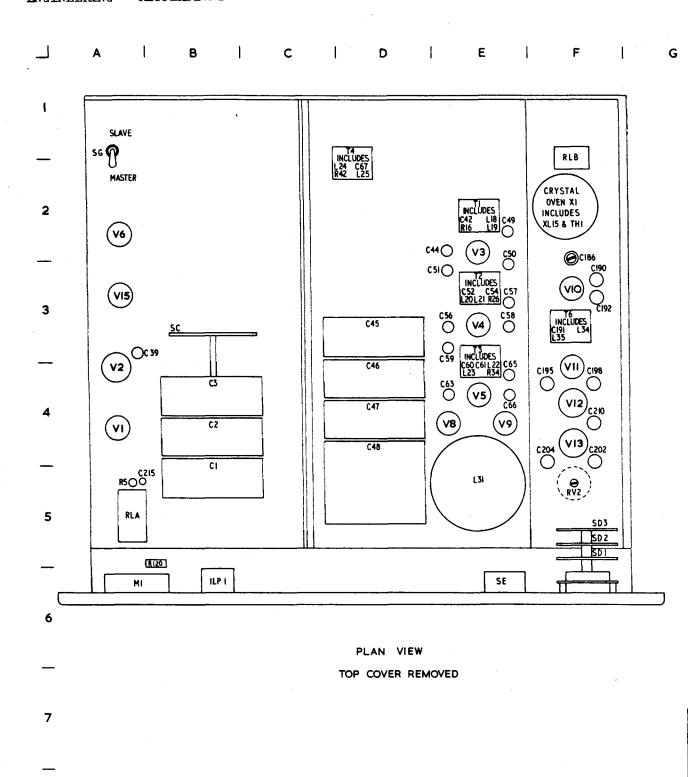


Fig 2506 - S.F. and i.f.1 unit, component layout, first oscillator and buffer/multiplier compartments



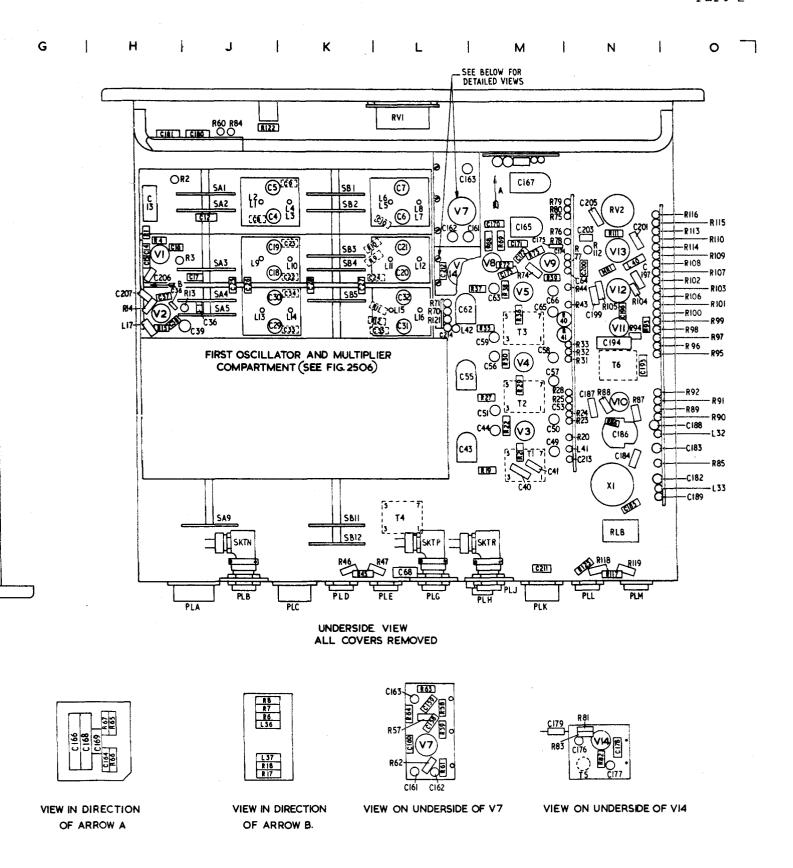
TE612 P2

8

Fig 2507 - S.F. and i.f.1

VIE





i.f.1 unit, component layout, chassis



E 612 Part 2

Table 2501 - S.F. and i.f.1 unit, component schedule

Note: This Ta	able is current	at the time of issue	only. Use I.S.P.L.,	when published, to	demand stores.

Cct	Compo Loca		Value	Rating	Type and lin	nit	Part No
ref	Circuit Fig 2504	Layout Fig 2507	΄ (Ω)	(W)	₩) (±º/o)		(Z/5905 - 99-)
		:		RESISTORS	, FIXED		
R1	A-F2	H2	47	1/4	comp, ins	10	022-1067
R2	A-F4	H2	10k	1/4	comp, ins	10	022-2130
R3	A-G1	Н3	100 180	1/4	comp, ins	10	022-1110
R4	A- G3	H2 A5	470	1/4 1/4	comp, ins	10 10	022 – 1143 022 – 1195
R5 R6	A-A3 A-G2	J7	470 33k	1/4	comp, ins	10	022-2195
R7	A-H3	J7	47	1/8	comp, ins film, ins	5	011-9714
R8	A-H4	J7	2.2k	1/2	comp, ins	10	022-2048
R9	A-J3	L3	10k	1/4	comp, ins	10	022-2040
R10	A-K3	L3	33k	1/4	comp, ins	10	022-2193
R11	A-M 3	L3	10k	1/4	comp, ins	10	022-2130
R12	A-M3	L3	33k	1/4	comp, ins	10	022-2193
R13	D - P3	J3	220	1/4	comp, ins	10	022-1152
R14	D-P4	Н3	1 •5k	1/4	comp, ins	10	022-2025
R15	D-Q4	Н3	220k	1/4	comp, ins	10	022-3079
R16	D-R3	E2	10k	1/4	comp, ins	10	022-2130
R17	D-Q2	J8	220k	1/4	comp, ins	10	022-3081
R18	D-Q1	J8	4.7k	1/8	film, ins	5	021-9160
R19	D-\$3	M5	33	1/4	comp, ins	10	022-1047
R20	D-R4	N4	150k	1/4	comp, ins	10	022-3059
R21	D-S3	M5	47	1/4	comp, ins	10	022-1068
R22	D-S4	M4	100	1/4	comp, ins	10	022 –1 110
R23	D-T2	N4	22k	3/4	comp, ins	10	022 - 2245
R24	D-T1	N4	47	1/8	film, ins	- 5	011-9714
R25	D-T1	N4	3.3k	3/4	comp, ins	10	022-2235
R26	D-T3	E3	10k	1/4	comp, ins	10	022-2130
R27	D - U3	M4	33	1/4	comp, ins	10	022 1047
R28	D-U4	N4	150k	1/4	comp, ins	10	022 – 3059
R29	D-V3	M4	47	1/4	comp, ins	10	022-1068
R30	D-V3	M4	100	1/4	comp, ins	10	022-1110
R31	D-V2	N4	22k	3/4	comp, ins	10	022-2245
R32	D-W1	N4	47	1/8	film, ins	5	011-9714
R33	D -W1	N4	33k	3/4	comp, ins	10	022-2235
R34	D-W2	E4	10k	1/4	comp, ins	10	022 -213 0
R35	D-X2	M3	33	1/4	comp, ins	10	022-1047
R36	D-X2	M3	47	1/4	comp, ins	10	022-1068
R37	D-Y4	M3	150	1/4	comp, ins	10	022-1131
R38	D-Y2	13 M 3	47	1/4	comp, ins	10	022-1068
R39	D-Y3	M3	22k	1/4	comp, ins	1 0	022-2173
R40 R41	D-Z1 D-Z4	M3 M3	10k 18k	2	comp, non-ins	10	021-2131
141	υ - 44	M.)	I OK	1	comp, ins	10	011-1486

Part 2

0.4	Compo Loca	onent ation	Value	Rating	Type and	imit.	Part No
Cct ref	Circuit Fig	Layout Fig	(Ω)	(W)	(±°/o)	TUIT C	(Z /5905 - 99 -)
	2504	2507					
			RESIS	TORS, FIX	ED - (cont)		
R42	D - Z2	D2	33k	1/4	comp, ins	10	022-2193
R43	D-Y1	N3	100	1/8	film, ins	5	021-9040
R44	D-Y1	N3	10k	3/4	comp, ins	10	022-2241
R45	D <i>-</i> BB2	к6	68	1/4	comp, ins	10	022 –1 089
R46	D-BB2	К6	68	1/4	comp, ins	10	022-1089
R47	D <i>-</i> BB2	к6	68°.	1/4	comp, ins	10	022-1089
R48	В-Е7	2506	150k	1/4	comp, ins	10•	022 –3 058
R49	B-F5	2506	100	1/8	film, ins	5	02 1- 9040
R50	B-E7	2506	15	1/4	comp, ins	10	022-1010
R51	B - F7	2506	3.9k	1/2	comp, ins	10	022-2081
R52	B-G7	1506	150k	1/4	comp, ins	10	022 –3 058
R53	B-G8	2506	1k	1/4	comp, ins	1 0	022-2004
R54	в - н6	2506	47k	1/2	comp, ins	10	022-2216
R55	B - H7	2506	100	1/8	film, ins	5	021-9040
R56	В - Н7	2506	3.9k	1/2	comp, ins	10	022-2081
R57	C - R3	L7	100k	1/4	comp, ins	10	022 – 3037
R58	C-R4	L7	47k	1/4	comp, ins	10	022-2214
R59	C-R3	L7	100	1/4	comp, ins	10	022-1109
R60	C:-382/+	J1	10k	1/4	comp, ins	10	022-2130
R61	C-S4	r 8	330	1/4	comp, ins	10	022-1173
R62	C-S4	L8	2.7 k	1/4	comp, ins	10	022-2059
R63	C-T2	L7	22k	1/2	comp, ins	1 0	022-2174
R64	C-T4	L7	22 k	1/2	comp, ins	10	022 -21 74
R65	C-T2	н7	100	1/8	film, ins	5	021-9040
R66	C-T2	н8	10k	1/2	comp, ins	10	022-2132
R67	C-T4	Н7	10k	1/2	comp, ins	10	022-2132
R68	C-V4	M2	330k	1/8	film, ins	5	021 - 91 85
R69	C-W3	M2	100	1/4	comp, ins	10	022 - 1110
R70	C-W2	L3	100	1/8	film, ins		021-9040
R71	C <i>-</i> √2	L3	10k	1/4	film, ins	5 5 5 5	021-9185
R72	C-X4	M3	1 •5k	1/4	film, ins	5	021 -9 125
R73	C-X4	M 3	150k	1/8	film, ins	5	021 -9 268
R74	C-X4	M 3	100	1/4	comp, ins	10	022 -111 0
R75	C-Y1	N2	1 •5k	1/4	film, ins	5	021-9125
R76	C-Y2	N2	10k	3/4	comp, ins	10	022-2241
R77	C-Y2	N3	1 •5k	1/4	comp, ins	10	022-2026
R78	C-Y2	N2	56k	1/4	film, ins	5	021-9239
R79	C-AA1	N2	47	1/8	film, ins	5	011-9714
R80	C-AA2	N2	10k	3/4	comp, ins	10	022-2241
R81	C-AA2	N 7	3.3k	1/4	comp, ins	10	022-2067
R82	C-AA4	ΝЗ	180	1/4	comp, ins	10	022 -2 007
R83	C-AA2	N7	22k	1/4	comp, ins	10	022-1142
		-, (:			10	VEL 21/2

200 B. Oak.

Cct	Compo Loca	nent tion	Value	Rating	Type and li	mit	Part No
ref	Circuit Fig 2504	Layout Fig 2507	(U)	(W)	(±°/o)	milia i. V	(Z/5905-99-)
	-		RESI	STORS, FI	XED - (cont)		aranan pilikunii (- Angga magangia - Anga Anga Anga ana ana anga sa Anga anga anga a
R84	C-Q5	J1	1k	1/4	film, ins	10	022-2004
R85	A-A7	N5	100	1/2		10	
R86	A-C7	N4	2.2M	1/4	comp, ins	10	022-3205
R87 R88	A-C7 A-D8	N4 N4	100 6.8k	1/4 1/4	comp, ins	10 10	022 - 2109
R89	A-D6	N4	100k	1/4	comp, ins	10	022-3037
R90	A-D8	N4	22k	1/4	comp, ins	10	022-2172
R91	A-E6	N4	1k	1/8	film, ins	5	021-9112
R92	A- E6	N4	10k	1/4	comp, ins	10.	022-2130
R93	A- F7	N3	470k	1/4	comp ins	10	022-3121
R94	A-F7	N3	100	1/8	film, ins	5	021-9040
R95	A-G5	N4	330	1/8	film, ins	5	021-9076
R96	A-G6	N4	10k	1/4	comp, ins	10	022-2130
R97	A- G6	N 3	47k	1/4	film, ins	5	021-9233
R98	A-G6	N3	270k	1/4	comp, ins	10	022-3091
R99	A-H7	N 3	4.7M	1/4	comp, ins	10	022 - 3247
R100	A- H7	N3	470k	1/4	comp, ins	10	022 -3121
R101	л-н6	N 3	22k	1/4	film, ins	5	021-9209
R102	A- J5	N3	100	1/4	comp, ins	10	022-1109
R103	A- J6	N3	4.7k	1/4	comp, ins.	10	022-2088
R104 R105	A-J7 A-J6	N 3	22k 2 20k	1/4	film, ins	5	021 - 9209 021-9280
R105	A- 36 A- K6	N3 N3	22k	1/4	film, ins	5 5	021-9200
R107		N3	47k	1/4	comp, ins	10	021-7207
R103	:	N3	470k	1/4	comp, ins	10	022-3121
R109	:	N3	22 k	1/4	film, ins	5	021-9209
R110	:	N2	4.7k	1/4	comp, ins	10	022-2088
R111		N2	2.2M .	1/4	comp, ins	10	022 –320 5
R112	A- M6	N3	220k	1/8	film, ins	5	021-9280
R113		NS	100	1/4	comp, ins	10	022-1109
R114		N3	22k	1/4	film, ins	. 5	021-9209
R115	A-N6	N2	47k	3/4	comp, ins	10	022 - 2222
R116	A-N7	N2	47k	3/4	comp, ins	10	022-2222
R117		N6	68	1/4	comp, ins	10	022-1089
R118		N6	68 68	1/4	comp, ins	10	022-1089
R119 R120		N6 2505	820	1/4 1/8	comp, ins	10	022-1089
R120	D-AA7 D-R7	L3	51	1.1/2:	film, ins w.w.vit.enam	5 5	021-9106 011-7880
R122	0-R/ 0-Q4	2505	1M	1/4	comp, ins	10	022-3163
R123	A-08	n6	68	1/4	comp, ins	10	022-1089

ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

ref	Circuit		Value Rating		Type and limit	Part No				
	Fi g 2504	Layout Fig 2507	(Ω)	(W)	(±°/o)	Part No				
RESISTORS VARIABLE										
RV1 RV2	C-S5 A-N7	2505 F5	1 k 50k	3 1/4	w.w. linear comp, linear 20	Z1/ZA 56399 Z/ 5905-99-026-2004				
Cct -	Compor Locat		Value	Rating	Type and limit					
:	Circuit Fig 2504	Layout Fig 2507	(μ F)	(v)	(±°/°)	Part No				
CAPACITORS										
C1) C2) C3) C4 C5 C6 C7 C8 C9 C12 C14 C15 C15 C12 C12 C12 C12 C22 C22 C22 C22 C22 C22	A-F3 A-K2 A-C3 A-D2 A-D3 A-D3 A-D3 A-D3 A-D3 A-F3 A-F3 A-F3 A-F3 A-J3 A-J3 A-J3 A-L2 A-L3 A-L3 A-L3 A-L3 A-L3 A-L3	B5 B44 J22 L22 KL2 J23 H33 J33 J33 KX J3 J33 J33 J33 J33 J33 J33 J33 J33 J33	284p max 284p max 284p max 30p max 30p max 30p max 30p max 33p 39p 12p 220p 0.1 0.01 0.01 0.01 220p 30p max 30p max	350 350 350 350 350 350 350 350 350 750 750 750	variable, air dielectric, 3 section var, air var, air var, air fixed mic, met 1p fixed mic, met 1 fixed met, pap 1p fixed met, pap 25 fixed pap, foil 25 fixed pap, foil 25 fixed pap, foil 25 fixed mic, met 2 var, air var, air var, air var, air fixed mic, met 1p fixed mic, met 1p fixed mic, met 1p fixed mic, met 1p fixed cer 0.5p fixed cer 0.5p fixed cer 0.5p fixed cer, tub 0.5p ins var, air	2/5910-99-011-8270 2/5910-99-011-8270				

G - 1	Compo Loca	nent tion	We like	Doting	Type and lin		
Cct ref	Circuit Fig 2504	Layout Fig 2507	Value (μF)	Rating (V)	(±°/o)		Part No
			(CAPACITOR	S - (cont)		
C 31	A-L3	L3	30р пах		var, air		Z/ 5910 - 99 - 016-7006
C32	A-L3	L3	30p max		var, air		Z/5910-99-016-7006
C33	A-M2	K 3	30p	350	fixed mic	1 p	Z 1/5910 - 99-972-7241
C34	A-M2	К3	33p	350	fixed, mic, met	1p	Z1/ 5910 - 99-911-8412
C35	Λ-1/43	L3	18p	350	fixed mic, met	1p	Z 1/5910-99-913-6731
C 36	A- 02	H3	220p	350	fixed mic met	2	Z1/5910-99-911-6839
C37	D-P4	H3	0.01	350	fixed pap, foil	25	Z/ 5910-99-011-5625
C38	D-14 D-04	H3	0.01	350	fixed pap, foil	25 25	Z/ 5910-99-011-5625
			£				
039	D <i>-</i> Ų2	A3	1	350	fixed pap	25	Z1/00000-05306
C40	D-R2	M5	4p max	75.0	var,plastic	۰	2 1/5910 - 99 - 999 - 0771
C41	D - R3	M5	3•3p	750	fixed cer, tub	0.5p	5 /50:0 00 0 0070
		77.0		750	ins	۰	2/ 5910 - 99-011-8272
C42	D - R3	E 2	6.8p	750	fixed cer, tub	0.5p	
					ins		2/ 5910 - 99-011-8276
C43	D-R4	L 5	34p max		var, air		2/ 5910 - 99 -01 6-0047
C44	D-54	E2	0.1	300	fixed met, pap	20	Z1/ZA 56457
C45)	D - S3	E 2	200p		air, dielectric)
C46)	D-V3	D3	200p		4 section) Z1/ZA 56622
C47)	D-X3	D4	200p		200p max)
C48)	D-V3	D5	200p)
C49	D-1,1+	E 2	0.1	300	fixed met,pap	20	Z1/ ZA 56457
C50	D-T3	E3	0 •1	3 00	fixed met,pap	20	Z1/ZA 56457
C51	D-TL	E3	0.1	300	fixed met,pap	20	Z1/ZA 56457
C52	D - T3	E3	3 <i>3</i> p	350	fixed mic met	1p	Z1/5910-99-911-8412
C53	D-V1	N4	0.04	250	fixed met,pap	20	Z/5910-99-012-0116
C54	D-113	E3	6 . 8p	750	fixed cer, tub		
		_	: :	1	ins		Z/ 5910 - 99-011 - 8276
C55	D-U3	$\mathbf{L}I_{+}$	34p max		var, air		Z/5910-99-016-0047
056	D-U4	E3	0.1	300	fixed met,pap	20	Z1/ZA 56457
C57	D-V3	£3	0.1	300	fixed met,pap	20	Z1/ZA 56457
€ ¢58	D-V 3	E 3	0.1	300	fixed met,pap	20	Z1/ZA 56457
C59	D-113	E5	0.1	300	fixed met,pap	20	21/ZA 56457
: 060	D-W2	E4	33p	3 50	fixed met, met	1p	Z1/5910-99-911-8412
C61	D-X2	E4	6,8p	750	fixed cer, tub	0.5 p	Z/5910-99-011-8276
001	D-KZ	7.144	O •Op	150	ins	ور. ∪	2/ / / / / / / / / / / / / / / / / / /
C62	D-X3	L3	34p ma x		var, air		Z/ 5910 - 99 - 016 - 0047
c63	D-Y1	E4	0.1	300	fixed met,pap	20	Z1/ZA 56457
C64	D-Y3	N 3	0.01	500	fixed met,pap	20	Z /5910 - 99-012 - 0123
C65	D-17 D-24	E4	0.1	3 00	fixed met, pap	20	$\mathbf{Z}_{1}/\mathbf{Z}_{A}$ 56457
066	D-22	E4	0.1	300	fixed met, pap	20	21/2A 56457
1067	D-22 D-22	D2	22'0p	750			Z /5910 - 99 - 012 - 3936
668	•	L 6			fixed mic, met	5	
(000	D-AA2	υC	0.003 .	75 0	fixed mic, met	5	Z/ 5910 - 99 - 012 - 4728

C a t	Compo Loca		Value	Rating	Mary and line	.	
Cct ref	Circuit Fig	Layout Fig	Varue (μF)	(V)	Type and liming (±°/o)	LU	Part No
	2504	2507	· · · · · · · · · · · · · · · · · · ·				
			· C.	APACITOR	S - (cont)		
C69	B-A1	2506	12.9p max		var,cer,rotary		Z 1/5910 - 99 - 5 8 0 - 6710
C70	B-4.1	2506	12.9p max	:	var,cer,rotary		Z 1/5910-99-580-6710
C 71	B-A2	2506	12.9p max		var, cer, rotary		Z1/5910 - 99-580-6710
C 72	B-A2	2506	12.9p max		var, cer, rotary		Z 1/5910 - 99 - 580-6710
C 73	B-13	2506	12.9p max		var, cer, rotary		Z 1/5910 - 99-580-6710
C 74	B-44	2506	12.9p max		var, cer, rotary		Z 1/5910-99-580-6710
C 75	B4	2506	12.9p max		var, cer, rotary		Z 1/5910 - 99-580 - 6710
C76	B-A5	2506	12.9p max		var, cer, rotary		Z1/5910-99-580-6710
C77	B-A5	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-6710
C78	B-46	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-6710
C 79	B-A7	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-6710
C80 C81	B-A7	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-6710
C82	B-18 B-18	2506 2506	12.9p max	*	var, cer, rotary		Z 1/5910-99-580-6710
C83	B-A8	2506 2506	12.9p max		var, cer, rotary		Z1/5910-99-580-6710
C84	B-48	2506 2506	12.9p max 12.9p max		var, cer, rotary var, cer, rotary		Z1/5910-99-580-6710
C 85	B-A8	2506 2506	12.9p max		var, cer, rotary		Z1/5910-99-580-6710 Z1/5910-99-580-6710
C 86	B-F5	2506	0.001	500	fixed cer, feed	20	21/9910-99-000-0710
000	D-17	<i>ا</i>	0.001	700	-thru, bush mtg	20	Z1/5910-99-102-3523
C87	B-F6	2506	0.001	500	fixed cer,feed	20	21,75710 75-102-5525
007	D-10	2,00	0,001	700	-thru, bush mtg	20	Z1/ 5910 - 99 - 102 - 3523
C88	B-F8	2506	12p	350	fixed met,pap	1p	Z1/5910-99-110-2278
C89	B-F8	2506	0.04	35 0	fixed met,pap	20	Z/5910-99-012-0116
C90	B-F4	2405	0.001	350	fixed mic met	5	Z/5910-99-012-4701
C 91	B-F3	2506	12.9p max		var,cer,rotary	7	Z1/5910-99-580-6710
092	B- 3	2506	12.9p max		var,cer,rotary		Z 1/5910-99-580-6710
C 93	B-G3	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-6710
C 94	B-F3	2506	10p	350	fixed mic met	1 p	Z1/5910-99-102-2884
C 95	B-G3	2506	12.9p max		var,cer,rotary	-	Z1/5910-99-580-6710
C96	B-G3	2506	15p	350	fixed mic met	1	Z1/5910-99-110-2279
C97	B-G3	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-6710
c9 8	B-G3	2506	22p	350	fixed mic, met	1p	21/5910-99-110-2280
C99	B-J3	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-6710
C100	B-J3	2506	27 p	35 0	fixed mic, met	1p	21/5910-99-911-6939
C101	B-J3	2506	12.9p max		var,cer,rotary		Z1/ 5910 -99- 580 - 6710
C102	B-J3	2506	39p	350	fixed mic	1 p	Z 1/5910 - 99-972-7241
C103	B-K3	2506	12.9p max		var, cer, rotary		Z1/5910-99-580-6710
C104	-	2506	47p	350	fixed mic	1p	21/5910-99-911-8413
C105	B-K3	2506	12.9p max	75.0	var,cer,rotary		Z1/5910-99-580-6710
C106	B-K3	2506	47p	350	fixed mic	1p	21/5910-99-911-8413
C107		2506	12.)p max	750	var,cer,rotary		Z 1/5910-99-580-6710
C108	B-L3	2506	68p	350	fixed mic,met	2	Z 1/5910-99 - 940-9921

TELECOMMUNICATIONS E 612 Part 2

	Compo Loca			D. J.	m	• 1					
Cct ref	Circuit Fig 2504	Layout Fig 2507	Value (μF)	Rating (V)	Type and lim (±°/o)	16	Part No				
	CAPACITORS - (cont)										
C109	В-М3	2506	12.9p max		var,cer,rotary		Z 1/5910-99-580-6710				
C110	В-м3	2506	100p	350	fixed mic, met	2	Z1/5910-99-911-6846				
C111	B-N3	2506	12.9p max	- •	var, cer, rotary		Z1/5910-99-580-6710				
C112	B-N3	2506	160p	350	fixed mic met	2	21/5910-99-946-6735				
C113	B-N3	2506	270p	350	fixed mic, met	2	Z1/ 5910 - 99 - 110 - 2406				
C114	B-N3	2506	10p	350	fixed mic, met	1p	Z 1/5910-99-102-2884				
C115	B-03	2506	12.9p max		var,cer,rotary	. •	Z1/5910-99-580-6710				
C116	B-03	2506	560p	350	fixed mic, met	2	- 1/37.1- 37 333 -1113				
			- 1		rect		Z1/ 5910-99-110-2673				
C117	B-03	2506	12.9p max		var,cer,rotary		Z1/ 5910-99-580-6710				
C1 1 /8	B-G8	2506	0.001	500	fixed cer, feed	20	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
					-thru, bush mtg		Z1/5910-99-102-3523				
C119	B-G8	2506	0.04	250	fixed met.pap	20	Z/ 5910 - 99 - 012 - 0116				
C120	B-J8	2506	0.001	500	fixed cer, feed	20	2,0010 00 012 0110				
0,-0	_ •		, ,	500	-thru, bush mtg		Z1/ 5910 - 99 - 102 - 3523				
C121	B - K5	2506	39p	750	fixed cer, tub	5	Z/5910-99-011-8311				
C122	B - J8	2506	0.04	250	fixed met,pap	20	Z1/5910-99-911-6839				
C123	B - J5	2506	39p	750	fixed cer, tub	5	Z /5910-99-011-8311				
C124	B-K5	2506	680p	350	fixed mic met	5	Z/ 5910 - 99 - 012 - 3954				
C125	В-К6	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-6710				
C126	B-L6	250,6	12.9p max		var,cer,rotary		Z1/5910-99-580-6710				
C127		2506	12.9p .nax		var,cer,rotary		Z 1/5910-99-580-6710				
C128	B-L6	2506	10p	350	fixed mic,met	1p	Z 1/5910-99-102-2884				
C129	•	2506	12.9p max		var,cer,rotary	. 1	Z1/5910-99-580-6710				
C130	B-L6	2506	1 2p	350	fixed met,pap	1p	Z 1/5910-99-110-2278				
C131	В-М6	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-6710				
0132	B-M6	2506	15p	350	fixed mic met	1p					
			_		rect	-	Z 1/5910-99 - 110 - 2279				
C133	B-M6	2506	12.9p max		var,cer,rotary		Z 1/5910-99-580-6710				
C134	В-м6	2506	20p	350	fixed mic, met	5	Z1 /5910-99-945-9214				
C135	B-N6	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-6710				
0136	B-N6	2506	27p	350	fixed mic met	1p	21/ 5910 - 99 - 911 - 6939				
C137	B - N6	2506	12.9p max		var, cer, rotary	•	21/5910-99-580-6710				
C138	B-N6	2506	33p	350	fixed mic, met	1p	Z 1/5910-99-911-8412				
C139	B - 06	2506	12.9p max		var,cer,rotary	•	Z1 /5910-99-580-6710				
C140	B-06	2506	47p	350	fixed mic	1p	21/ 5910-99-911-8413				
C141	B - 06	2506	12.9p max		var,cer,rotary	•	21/5910-99-580-6710				
C142	B-06	2506	56p	350	fixed mic, met	2	Z1/5910-99-940-9847				
C143	B-I.8	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-6710				
C144	B -L 3	2506	18p	3 50	fixed mic met	1p	2 1/5910 - 99 - 913 - 6731				
C145	B-L3	2506	12.9p max		var,cer,rotary	-	21/5910-99-580-6710				
0146	B-L8	2506	22p	350	fixed mic, met	1p	Z1/5910-99 - 940-2280				

Cot	Compo Loca		· Value	Rating	Type and lim	-i +	
Cct ref	Circuit Fig 2504	Layout Fig 2507	(μF)	(V)	(±°/o)	LL U	Part No
			C	APACITOR	S - (cont)		
C147	в-м8	2506	12.9p max		var,cer,rotary		Z1/5910-99-580-671 0
C148	B-M8	2506	27p	350	fixed mic, met	1p	Z1/5910-99-911-6939
C149	В-м8	2506	12.9p max		var,cer,rotary	•	Z1/5910-99-580-6710
C150	B-M8	2506	33p -	350	fixed mic, met	1p	Z1/5910-99-911-8412
C151	B - N8	2506	12.9p max		var,cer,rotary	•	Z1/5910-99-580-6710
C152	B-N8	2506	39p	350	fixed mic	1 p	Z1/5910 - 99 - 972 - 7241
C153	B-N8	2506	12.9p max		var,cer,rotary	_	Z1/5910-99-580-6710
C154	B-N8	2506	47p	350	fixed, mic	1 p	Z1/ 5910 - 99-911-8413
C155	B-08	2506	12.9p max		var,cer,rotary	_	Z1/5910-99-580-6710
C156	B-08	2506	56p	350	fixed mic, met	2	Z1/5910-99-940-9847
C157	в-н6	2506	0 •001	500	fixed cer,feed	20	
					-thru, bush mtg		Z1/5910-99-102-3523
C158	C - R4	L7	150p	350	fixed mic, met	2	Z1/5910-99-940 - 9841
C159	C-R4	L7	0.01	500	fixed met,pap	20	Z/ 5910 - 99 - 012 - 0123
C160	C-R3	L7	0.01	500	fixed met,pap	20	Z/5910-99-012-0123
C161	C - S5	L2	0 •01	500	fixed cer,feed		
- /-			_	~	thru	-0	Z 1/5910-99-940-9700
C162	C-S4	L2	0.1	300	fixed met,pap	20	Z1/ZA 56457
C163	C-T4	L2	0.1	300	fixed met,pap	20	Z1/ZA 56457
C164	C-T4	н8	0.01	500	fixed,met,pap	20	Z/5910-99-012-0123
C165	C-U3	M2	19.5 max	1000	var, air		2/5910-99-016-0048
0166	C-U4	G7	0.001	500	fixed, cer	2	Z1/ZA 56632
C167	C-U3	M2	6 .5 p		var, air		<i>Z</i> 1/5910-99-110-2619
C168	C-U4	G7	0.001	500	fixed, cer	2	Z1/ZA 56632
C169	C-U4	G7	680p	350 350	fixed mic, met	5	Z /5910-99 - 012-3954
C170	C-V3	M2	5.6p	750	fixed cer, tub	0.5p	F/5010 00 011 0075
C4.74	CVZ	MO	E 6m	750	ins	٥. ٢	Z/5910-99-011-8275
C171	C-V3	M2	5 •6p	7 50	fixed cer, tub	0.5p	Z/5910-99-011-8275
C172	C-X4	M 3	0.01	500	fixed met,pap	20	Z/5910-99-012-0123
C173	C-X3	M 3	100p	350	fixed mic, met	20	Z1/5910-99-911-6846
C174		N3	0.01	500	fixed met,pap	20	Z/5910-99-012-0123
C175	C-23	M3	300p	350	fixed mic, rect	20	Z1/5910-99-102-3096
0176	C-BB2	N 8	0.1	300	fixed met,pap	20	Z1/ZA 56457
C177	:	N8	0.1	300	fixed met,pap	20	21/2A 56457
C178	i contract of the contract of	N8	0.04	250	fixed met,pap	20	Z /5910 - 99 - 012 - 0116
C179	:	M 7	30 0 p	350	fixed mic, rect		Z1/5910-99-102-3096
C180		J1	50	70	elect tantalum		Z1/ZA 56613
C181	C-Q5	J1	50	70	elect tantalum	_	Z/ 5910-99-012-0137
C182		N5	0.1	150	fixed met,pap	25	Z/ 5910 - 99 - 011 - 9827
C183	1	N5	0.1	150	fixed met,pap	25	Z/5910-99-011-9827
C184	•	N5	0.01	250	fixed met,pap	20	Z/5910-99-012-0113
- 10-7	:			· -/-	o , p.a.p		-, 5510 55 012-0115

Table 2501 - (cont)

Cct	Compo Loca	nent tion	Value	Rating			
ref	Circuit Fig 2504	ircuit Layout (μF) (V) $(\pm^{\circ}/o$ Fig Fig		(±°/o)	II	Part No	
			C	APACITOR	S - (cont)		
C185	n - n5	N5	0.01	250	fixed met,pap	20	Z/5910 - 99 - 012 - 0113
C186	Λ-C7	N4	97.2p max		var, air		Z/5910-99-016-0006
C187	7 − C8	N4	330p	750	fixed mic, met	10	Z/ 5910 - 99 - 012 - 3942
C138	À-A6	N4	0.01	250	fixed met,pap	20	Z/ 5910-99-012-0113
C189	A-A5	N5	0.01	250	fixed met,pap	20	Z/5910 - 99 - 012 - 0113
C190	л - D7	F3	0.1	350	fixed pap		Z1/ 00000 - 05306
C191	∆- E7	F3	0.001	350	fixed mic, met	5	Z/ 5910 - 99 - 012 - 4701
C192	∴-E8	F3	0.1	350	fixed pap		Z1/ 00000 - 05306
C193	Δ - F7	N4	0 •001	350	fixed mic, met	5	Z/ 5910-99-012-4701
C194	A-F6	N4	0.1	150	fixed met,pap	25	Z/5910-99-011-9827
C195	∴ - G7	F4	0.1	350	fixed pap		Z1/ 00000 – 05306
C196	14-G6	N3	6.3p	750	fixed cer, tub	0 . 5p	
					ins		Z/ 5910 - 99 - 011 - 8276
C197	- J7	N3	33p	3 50	fixed mic, met	2	Z 1/5910 - 99 - 911-8412
C198	A-J6	F4	0.1	350	fixed pap		Z1/ 00000 – 05306
C199	A-J7	N3	22p	350	fixed mic, met	1p	Z 1/5910 - 99 - 110 <i>-</i> 2280
C 200	Λ - Κ7	N3	22p	3 50	fixed mic, met	1p	Z1/ 5910 - 99 - 110 - 2280
C201	L7	N2	6 8p	350	fixed mic, met	2	Z1/5910-99-940-9921
C202	∴-M6	F 5	0.1	350	fixed pap		Z1/ 00000 – 05306
C203	Λ-M 7	N2	22p	350	fixed mic, met	1p	Z1/5910 - 99-110-2280
C204	M8	F 5	0.1	350	fixed pap		Z1/00000-05306
C205	Λ-N6	N2	4.7p	750	fixed cer, tub	0.5p	-/
		*** -	0.01	050	ins		2/5910-99-011-827 4
C 206	D-X7	H3	0.04	250	fixed met,pap	20	2/5910-99-011-0116
C207	D-1/7	H3	0.04	250	fixed met,pap	20	Z/ 5910-99-012-0116
C 203	D-U8	2506	0.001	500	fixed cer,feed		g. /50.0 00 .00 7507
2200	- · · · ·	05.06	2 01	050	thru, bush mtg		Z1/5910-99-102-3523
C 209		2506	0.04	250	fixed met,pap	20	Z /5910-99-012-0116
C210	D-R8	F4	0.1	350	fixed pap	00	Z1/ 00000 - 05306
C 211	D 00	M6	0.01	500	fixed met,pap	20	Z/59 10-99-012-0123
C212	•	L3	0.01	500	fixed met,pap	20	Z/5910-99-012-0123
C213	:	N5	0.01	500	fixed, met, pap	20	Z/59 10-99-012-0123
C214	:	L3	0.01	500	fixed met,pap	20	Z/ 5910-99-012-0123
0215	A-A3	À5	0.01	500	fixed met,pap	20	Z/ 5910-99-012-0123

ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

Cot	Compo Loca			
Cct ref	Circuit Fig 2504	Layout Fig 2507	Desc r ip tio n	Part No
			INDUCTORS	!
L1 L2)A-C2)A-C2	J2 J2	Transformer, r.f. uncased (antenna, 20-30Mc/s)	Z1/ZA 56315
L3 L4)A-C2)A-C2	K2 K2) Transformer, r.f. uncased) (antenna, 10-20Mc/s)	Z1/ZA 56314
L5 L6)A-03)A-03	L2 L2) Transformer, r.f. uncased) (antenna, 5-10Mc/s)	Z1/ZA 56313
L 7 L 8)A-C3)A-C3	L2 L2) Transformer, r.f. uncased) (antenna, 2.1-5Mc/s)	Z1/Z 56312
L9 L10 L112 L13 L14 L15 L16 L17 L18 L20 L21 L22 L23 L24 L25 L26	A-J2 A-J3 A-J3 A-L2 A-L2 A-L3 A-L3 D-P3 D-R3 D-W2 D-W2 D-W2 D-M2 B-F6	J3 K3 L3 L3 L3 L3 L3 E2 E3 E4 D2 D2 2506	R.F. uncased (anode 20-30Mc/s) R.F. uncased (anode 10-20Mc/s) R.F. uncased (anode 5-10Mc/s) Transformer, r.f. uncased 33+8 turns (anode 2.1-5Mc/s) R.F. uncased (grid, 20-30Mc/s) R.F. uncased (grid, 10-20Mc/s) R.F. uncased (grid, 5-10Mc/s) R.F. uncased (grid, 2.1-5Mc/s) R.F. 10 turns, 1.5µH nominal Part of T1 Part of T2 Part of T4 A.F. 364 turns, unscreened	Z1/ZA 56405 Z1/ZA 56404 Z1/ZA 56317 Z1/5950-99-102-1721 Z1/ZA 56405 Z1/ZA 56404 Z1/ZA 56327 Z1/ZA 56326 Z1/ZA 55883
L27 L28 L29 L30 L31 L32 L33 L34 L35 L36 L37	B-F/G7 B-K7 B-J7 B-J7 C-T3 A-A5 A-A5 A-E7 A-F7 D-X8 D-W8	2506 2506 2506 2506 E5 N4 N5 F3 F3 J7 J8 2506	15/32 in. dia x 17/32 in. lg Transformer, r.f. unscreened 3.4µH Transformer, r.f. unscreened 0.625µH Transformer, r.f. unscreened 1.6µH R.F. 2900µH R.F. 71 turns, 118µH R.F. 6.9µH, unscreened R.F. 6.9µH, unscreened R.F. 6.9µH, unscreened R.F. 6µH, unscreened R.F. 6µH, unscreened R.F. 6µH, unscreened	21/Zi 56673 21/5950-99-102-1780 21/5950-99-102-1744 21/5950-99-102-1768 21/5950-99-102-1749 21/Zi 56465 21/Zi 55966 21/Zi 55966 21/Zi 55966 21/5950-99-540-2715 21/Zi 55966

TELECOMMUNICATIONS E 612 Part 2

Table 2501 - (cont)

0-4	Compo Loca	nent tion								
Cct ref	Circuit Fig 2504	Layout Fig 2507	Description	Part No						
	INDUCTORS - (cont)									
L39 L40 L41 L42	D-U7 D-R8 D-V8 D-R7	2506 N 3 N 5 L 3	R.F. 6µH, unscreened R.F. 6.9µH, unscreened R.F. 6.4mH inductance at 1Mc/s R.F. 6µH, unscreened	Z1/5950-99-540-2715 Z1/ZA 55966 Z1/5950-99-940-4188 Z1/5950-99-540-2715						
			TRANSFORMERS							
T4 T2 T3 T4 T5 T6	D-R3 D-U3 D-W2 D-AA2 C-Z4 AE/F7	E2 E3 E4 D2 N8 F3	I.F. 1.2Mc/s peak frequency, shielded I.F. 1.2Mc/s peak frequency, shielded I.F. 1.2Mc/s peak frequency, shielded I.F. 103kc/s, shielded I.F. 100kc/s, shielded	21/ZA 56444 21/ZA 56445 21/ZA 56445 21/ZA 55790 21/ZA 56803						
	SWITCHES									
SA SB SC	ABC ABC C	J 2/3/5 K2/3/5 B3	Rotary wafer, 1 pole, 11 position,							
SD SE	D D	E6 & 2505 F5 &	shorting 1 wafer Rotary wafer, 3 pole, 9 positions - NON -shorting, 3 wafer, S.R.B.P. Lever operated, 2 pole, CO, QMQB, 3A	Z1/5930-99-102-2015 Z1/ZA 56381						
SF	C	2505 2505	250V Lever operated, 2 pole, CO, QMQB, 3A,	Z/ 59 3 0 – 99 – 051 – 0504						
SG	BD	A1	250V Lever operated, 2 pole, CO, QMQB, 3A 250V	Z/ 5930 - 99 - 051 - 0504 Z/ 5930 - 99-051-0504						
TH1			See Miscellaneous	7,2,2,5						
			CRYSTAL UNIT, QUARTZ	(2 17/5955 - 99 -)						
XL1 XL2 XL3 XL4 XL5 XL6 XL7 XL8 XL9 XL10	B-A1 B-A1 B-A2 B-A2 B-A3 B-A3 B-A4 B-A4 B-A6	2506 2506 2506 2506 2506 2506 2506 2506	Style D, 14,000kc/s Style D, 13,000kc/s Style D, 12,500kc/s Style D, 11,500kc/s Style D, 11,000kc/s Style D, 10,000kc/s Style D, 9,500kc/s Style D, 9,000kc/s Style D, 8,500kc/s Style D, 8,000kc/s	102-6023 901-4889 102-6022 901-4892 901-4888 102-6021 901-4891 901-4887 901-4890 102-6020						

Cot	Component Location Circuit Layout Fig Fig 2504 2507			Part No (Z17/5955-99-)						
Cct ref			Description							
	CRYSTAL UNITS, QUARTZ - (cont)									
XL11 XL12 XL13 XL14 XL15	B-A6 B-A7 B-A7 B-A8 A-B7	2506 2506 2506 2506 F2	Style D, 7,000kc/s Style D, 6,000kc/s Style D, 5,000kc/s Style D, 4,000kc/s Style F, 100kc/s	901-4866 901-4865 901-4864 901-4863 901-5153						
			LAMPS FILAMENT	(X5/6240-99 -)						
ILP1	A-46	B6 &	8V, 1.6W, mes, clear	995-1201						
ILP2 ILP3 ILP4 ILP5 ILP6 ILP7 ILP8 ILP9	C-Q7	2505 2505 2505 2505 2505 2505 2505 2505	6V, 0.6W, midget flange, clear 6V, 0.6W, midget flange, clear	995-9119 995-9119 995-9119 995-9119 995-9119 995-9119 995-9119						
	RELAYS (Z/5945-99-)									
RLA RLB	А-А2 Л-В6	A5 F1	Magnetic, sealed SMSA-N96 Magnetic, sealed SMSA-N97	011 - 9881 011 - 9882						
			PLUGS, SOCKETS, ADAPTORS							
PLA	D - P6	н6	Plug, elec, M4, brass, fixed female shell, size 2/0, 12-pole	2 1/5935-99 - 911-6993						
PLB	A-A2	Ј6	Adaptor, skt to skt, elec fixed, co-ax single pole	Z/ 5935-99 - 054-0019						
PLC	C - P4	к6	Plug, elec, M4, brass, fixed female shell, size 1/0, 4-pole	Z1/ 5935 - 99 - 911 <i>-</i> 8297						
PLD	D-CC1	к6	Plug, elec, r.f., fixed female shell, straight, entry, single pole	Z /5935-99-011-9484						
PLE	D-CC2	L6	Plug, elec, r.f., fixed female shell, straight entry, single pole	Z/ 5935 -99-011-9 484						
PLG	C-Z5	L6	Adaptor, skt to skt, elec fixed, co-ax single pole	Z/ 5935 - 99 - 054-0019						
PLH	A- 07	м6	Plug, elec, r.f., fixed female shell, straight entry, single pole	Z/ 5935-99 - 011-9484						
PLJ	B-G7	м6	idaptor, skt to skt, elec fixed, co-ax single pole	2/ 5935 - 99 - 054 - 0019						

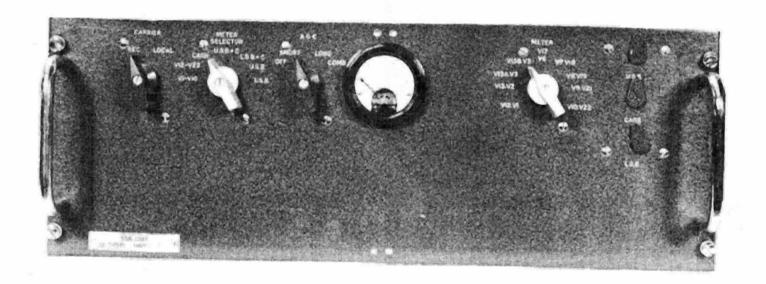
0.4	Component Location Circuit Layout Fig Fig 2504 2507							
Cct ref			Description	Part No				
			PLUGS, SOCKETS, ADAPTORS - (cont)					
PLK	D-X6	M 6	Plug, elec, M4, brass, fixed female shell, size 1/0, 6-pole	Z1/ 5935-99 - 940 - 8504				
PLL	A-08	N6	Plug, elec, r.f., fixed female shell, straight entry, single pole	Z/ 5935-99-011-9484				
PLM	A - 08	n 6	Plug, elec, r.f., fixed female shell, straight entry, single pole	2/593 5-99-011-9484				
SKT-N		J5	Socket, elec, free male shell, co-ax, single pole	z/593 5-99 - 054-0022				
SKT-P	-	L6	Socket, elec, free male shell, co-ax, single pole	Z/5935- 99-054-0022				
SKT-R	B-G7	м6 2506	Socket, elec, free male shell, co-ax, single pole Socket assembly, crystal, 14-socket,	2/593 5-99 - 054 - 0022				
		2500	aluminium frame, 2.27/32 in. lg, 2.3/4 in. wide	Z1/ 5935 - 99-102 - 1422				
			VALVES, ELECTRONIC	(Z/ 5960 - 99 -)				
V1 V2 V3 V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15	A-G2 D-P3 D-S3 D-V2 D-V2 A-E6 C-S3 C-W3 C-V3 A-D7 A-G6 A-H7 A-L7 C-AA3 B-H7	A4 A4 E2 E3 E4 A2 L2 E4 F3 F4 F4 L3 A3	CV4010 (CV850) (Types in brackets CV4024 (CV455) may be found in CV4009 (CV454) equipments) CV4012 (CV453) CV4014 (CV138) CV4010 (CV850) CV4009 (CV454) CV4009 (CV454) CV4010 (CV850) CV4010 (CV850) CV4010 (CV850) CV4010 (CV850) CV4024 (CV455) CV4010 (CV850) CV4010 (CV850) CV4010 (CV850)	000-4010 000-4024 000-4009 000-4012 000-4014 000-4010 000-4009 000-4010 000-4010 000-4010 000-4010 000-4024 000-4010 000-4010				
MISCELLANEOUS								
M1 MR1 TH1	D-AA7 A-L7 A-B7	6 N3 F2	Meter, arbitrary, scale, 0-10, 1mA movement, panel type Semi-conductor device, dindo CV448 Switch thermostatic, 75°, 15V a.c. 15mA Flask, Dewar, pyrex class Shield, crystal oven, metal Adaptor, crystal socket, B7G to B80	Z4/ZD 05488 Z/5960-99-000-0448 Z1/5930-99-102-1848 Z1/ZA 56703 Z1/ZA 56740 Z1/ZA 56713				

TELECOMMUNICATIONS E 612 Part 2

RESTRICTED

ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

Cot	Compo	nent tion			
	Circuit Layout Fig Fig 2504 2507		Description	Part No	
			MISCELLANEOUS - (cont)		
	Core, adju 8 BA thre 2505 Light ind base amb		Heating element, electrical Core, adjustable, tuning, iron dust 8 BA thread Light indicator, flange mtg, M.E.S., base amber lens Lens, indicator light, plastic yellow	21/2A 55922 21/2A 42749 21/2A 56014 21/6210-99-949-1428	



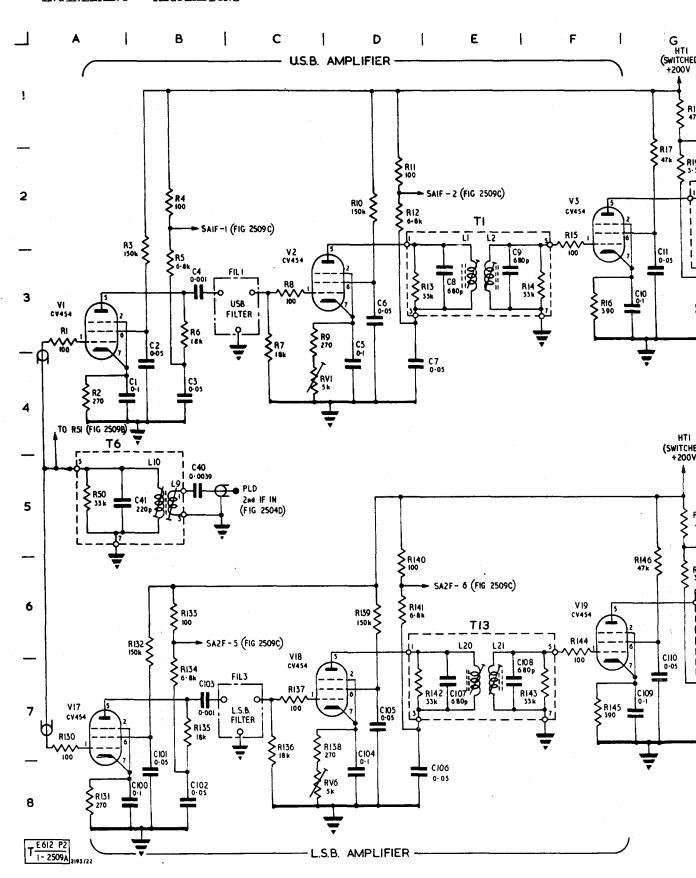
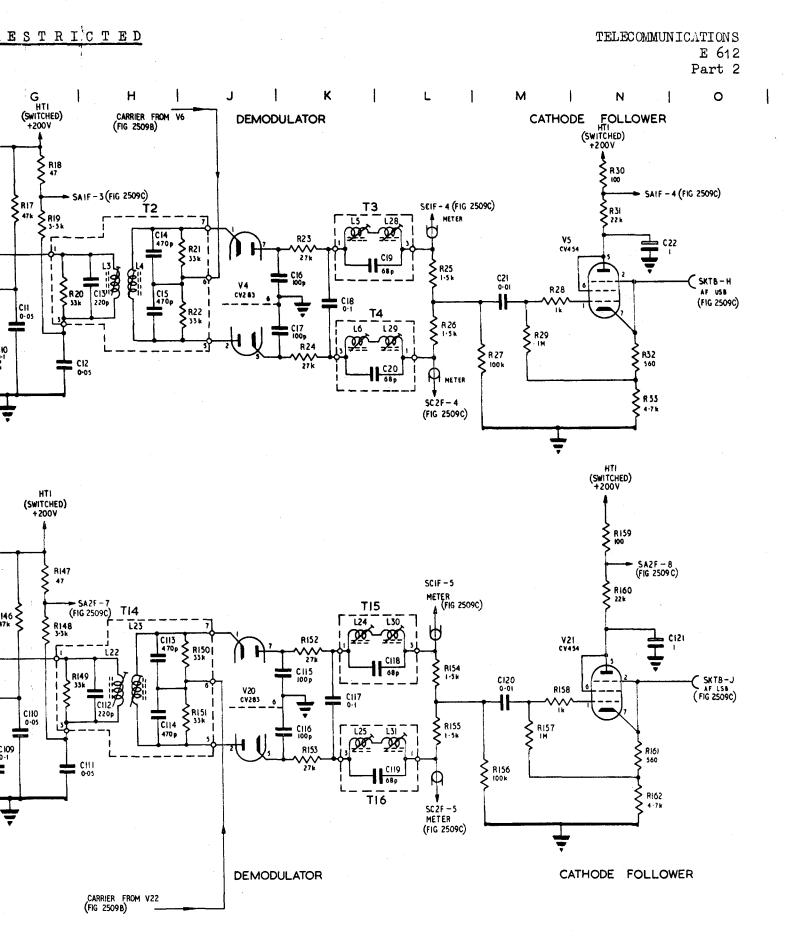


Fig 2509a - S.S.B. unit, circuit diag





uit diagram, sideband amplifiers and demodulators copies of this figure, for use as bench be obtained on sup-lementary demand.

Fig 2509a Pag∈ 1028





USB RECO

CARRIE

D Α

2

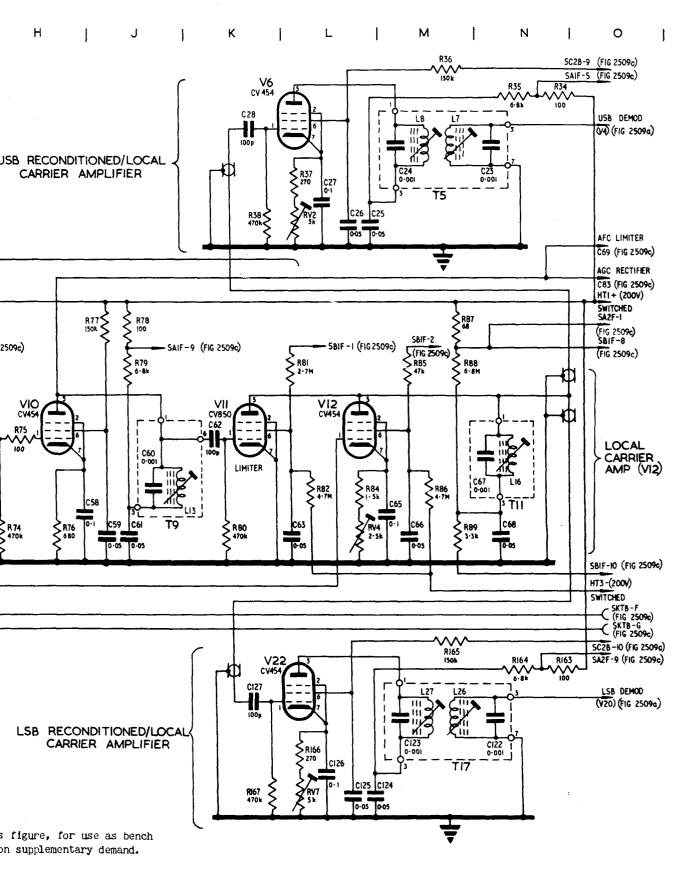
AMPLIFIER V7-VII 3 ₹R72 ₹ R65 SAIF-7 (FIG 2509c) - SAIF-6 (FIG 2509c) -SAIF-8 (FIG 2509c) R66 10k (FIG 2509a) CARRIER FILTER 5 C52 6 7 LSB R R83 LOCAL CARRIER INPUT (FIG 2504a) T E612 P2 Additional copies of this figure,

Fig 2509b - S.S.B. unit, circuit diagram, recondi

copies, may be obtained on supplem

RECONDITIONED CARRIER





reconditioned and local carrier amplifiers

F P I Q I R I S | T | U | V

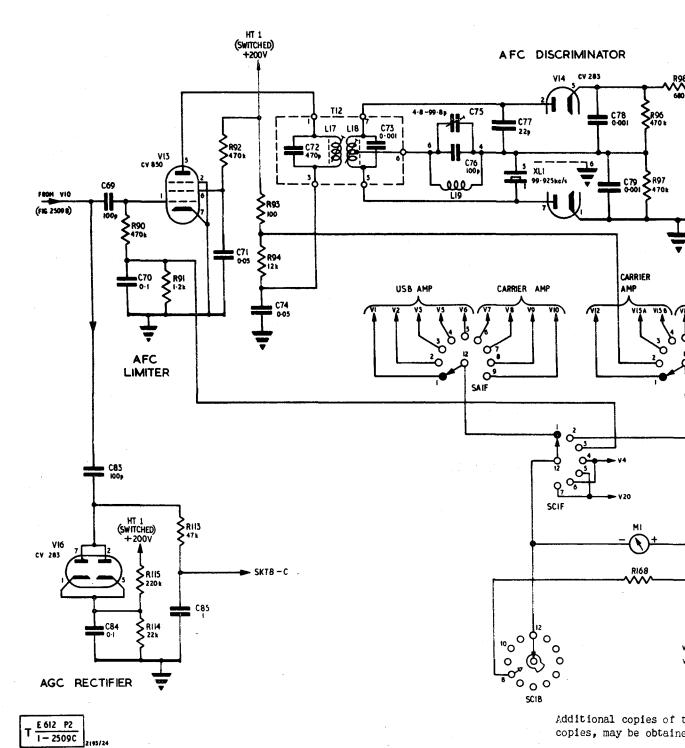


Fig 2509c - S.S.B. unit, circuit diag a.g.c. rectifier, tuning

Issue 1, 16 May 1966

Part 2

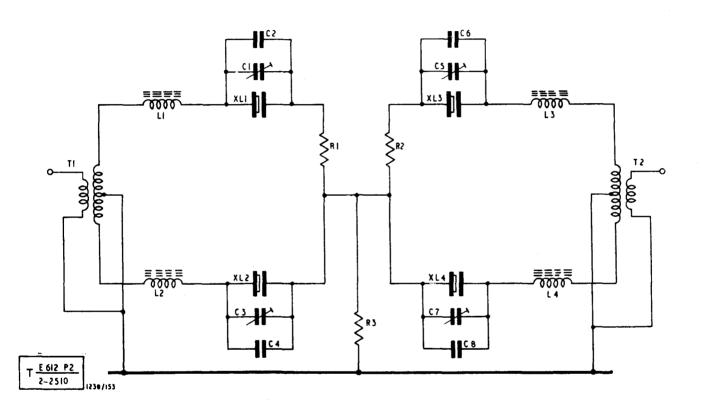
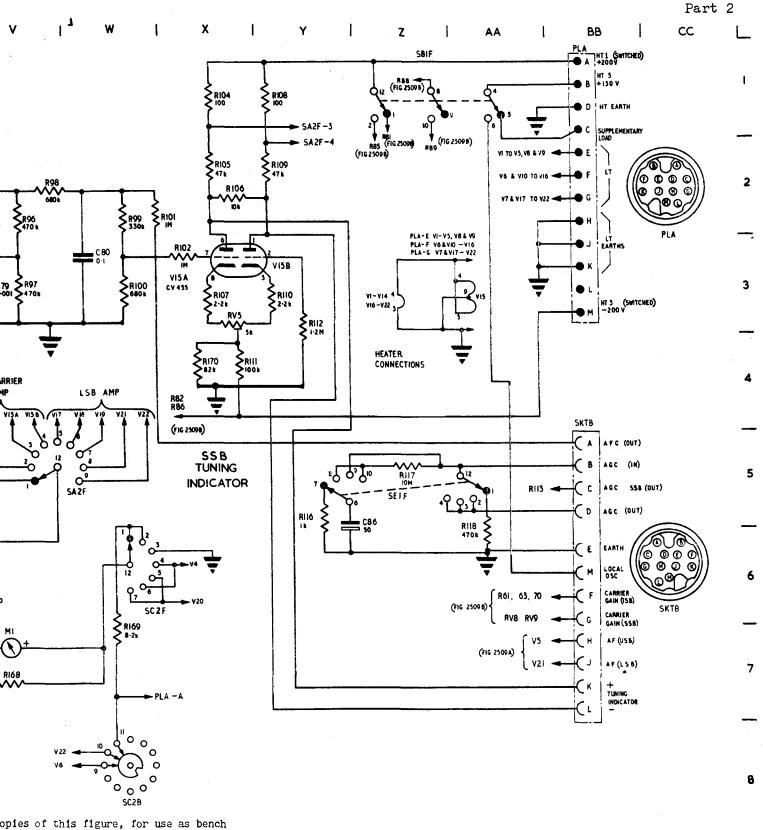


Fig 2510 - S.S.B. unit, circuit diagram, sideband crystal filters

Note: This circuit is included for information only. FILTERS MUST NOT BE OPENED UNDER ANY CIRCUMSTANCES. When faulty, they must be dealt with in accordance with EMER Tels A 801.

E 612



it diagram, a.f.c. limiter and discriminator, tuning indicator stage and valve heaters

be obtained on supplementary demand



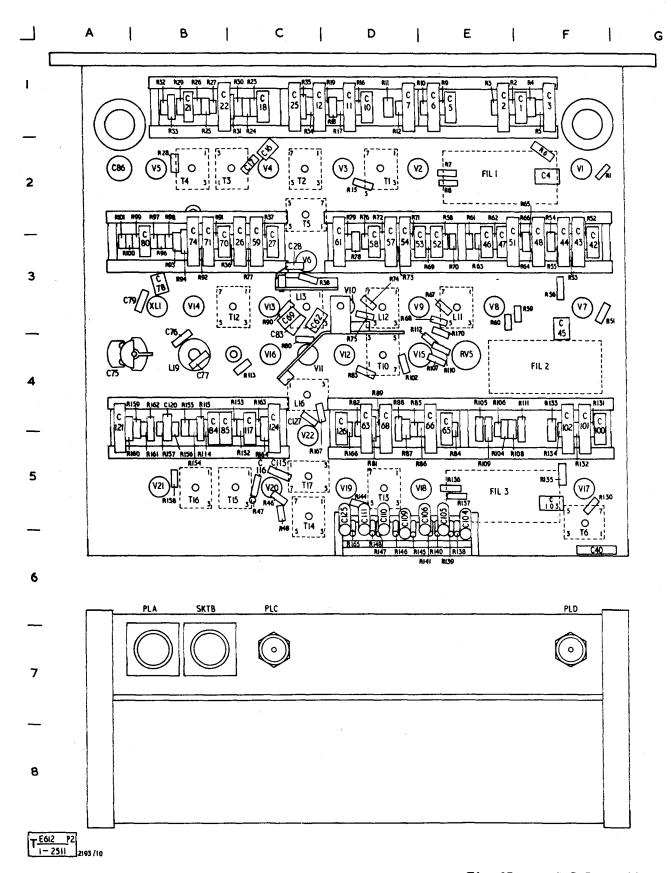


Fig 2511 - S.S.B. unit, co

Issue 1, 16 May 1966

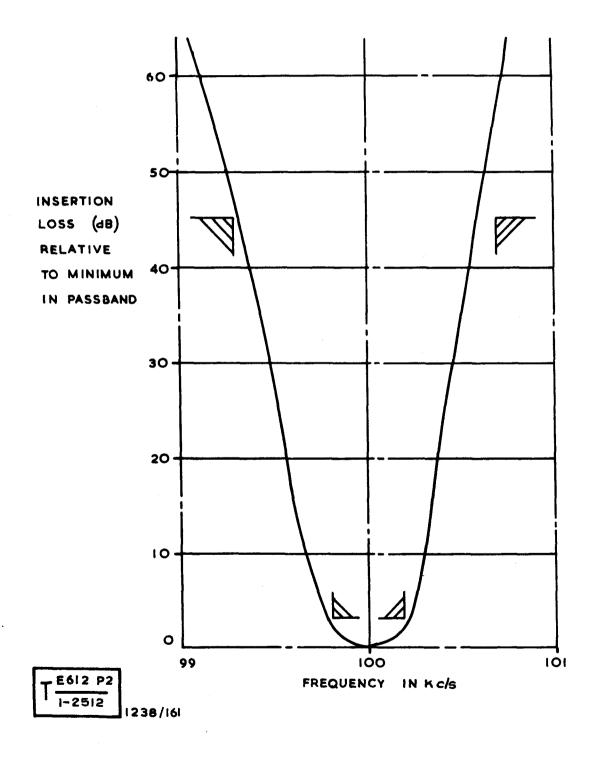
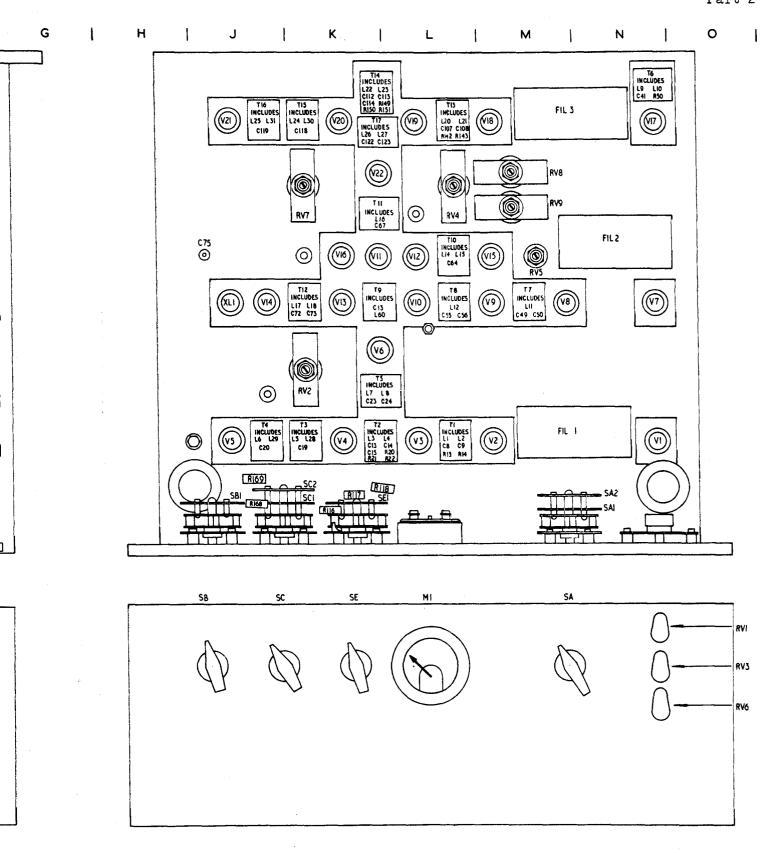


Fig 2512 - S.S.B. unit, response curve, carrier filter

E 612 Part 2



unit, component layout, chassis and panel



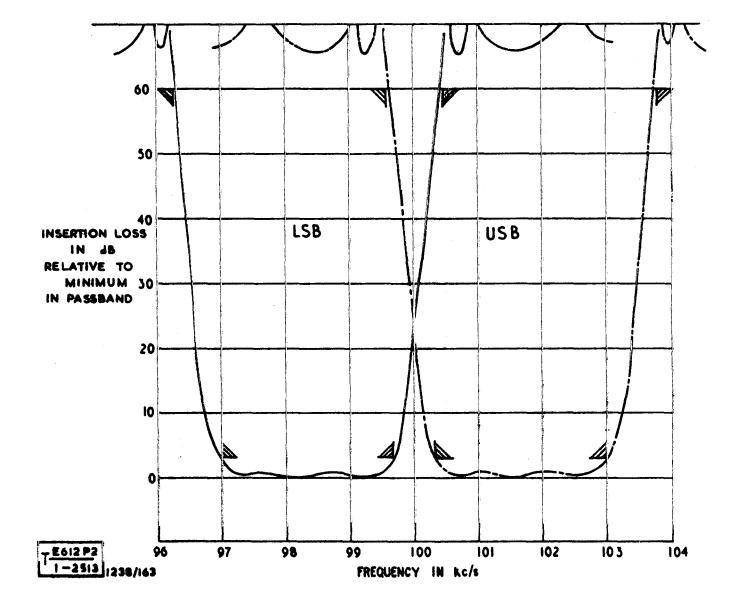


Fig 2513 - S.S.B. unit, response curves, sideband filters

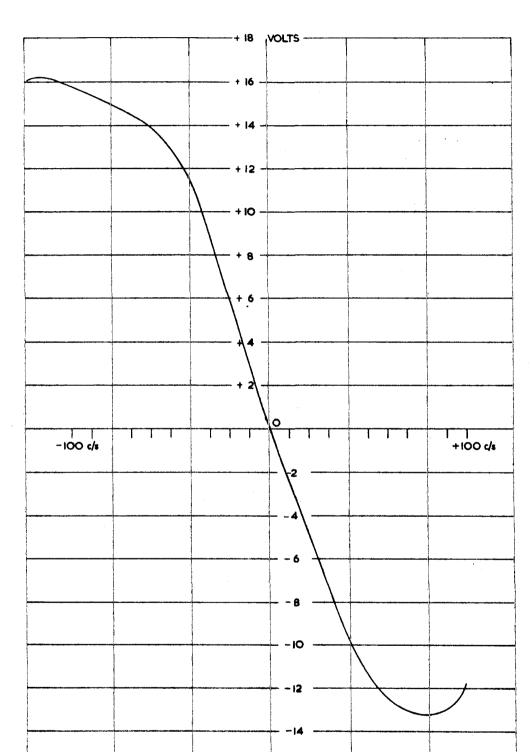


Fig 2514 - S.S.B. unit, response ourve, a.f.c. discriminator

-18 VOLTS-

TE612 P2 1-2514 1238/446

Part 2

Table 2502 - S.S.B. unit, component schedule

Note: This table is current at the time of issue only. Use I.S.P.L., when published, to demand stores.

0.4	Component Location		Value Rating			_	Part No		
Cct ref	Circuit Fig 2509	Layout Fig 2511	(Ω)	(W)	Type and limit (± ⁰ /o	,	(Z/5905-99-)		
	RESISTORS, FIXED								
'R1	A-A3	F 2	100	1/4	comp, ins	10	022-1109		
R2	11-A4	E 1	270	1/4	comp, ins	10	022-1164		
R3	∆ - B3	E1	150k	1/4	comp, ins	10	022-3059		
R4	A-B2	F1	100	1/8	comp, ins, gd 1	5	021-9040		
R5	₁-B3	F1	6.8k	1/4	comp, ins	10	JC02242110		
R6	а - В3	F2	18k	1/2	comp, ins	10	022-2165		
R7	λ - C3	F2	18k	1/4	comp, ins	10	022-2164		
R8	Λ - C3	F2	100	1/4	comp, ins	10	-022 -1 109		
R9	Λ - C3	E1	270	1/4	comp, ins	10	022-1164		
R10	Λ - D2	E1	150k	1/4	comp, ins,	10	021 -3 059		
R11	A-D2	D1	100	1/8	comp, ins, gd 1	5	021-9040		
R12	D2	D1	6.8k	1/4	comp, ins	10	022-2110		
R13	л - D3	L5	33k	1/4	comp, ins (in T1)	10	022-2193		
R14	∴-F3	L 5	33k	1/4	comp, ins (in T1)	10	022-2193		
R15	A-F2	D2	100	1/4	comp, ins	10	022-1109		
R16	A-F3	D1	390	1/4	comp, ins	10	022-1185		
R17	∴-G2	D1	47k	1/4	comp, ins	10	022-2215		
R18	Λ-G1	D1	4.7	1/8	film, ins	5	011-9714		
R19	Λ - G2	D1	3.3k	1/4	comp, ins	• 10	022 –20 68		
R20	.1 - G2	K5	33k	1/4	comp, ins (in T2)	10	022 - 2193		
R21	λ - J2	K5	33k	1/4	comp, ins (in T2)	10	022-2193		
R22	A - J3	K5	33k	1/4	comp, ins (in T2)	10	022 - 2193		
R23	<u>-</u> K2	C1	27k	1/8	film, ins	5	021-9214		
R24	− K3	C1	27k	1/8	film, ins	5	021-9214		
R25	n-L2	B1	1 •5k	1/8	film, ins	5 5 5 5	021-9214		
R26	11-L3	B1	1.5k	1/8	film, ins		021-9214		
R27	- M3	B1	100k	1/4	comp, ins	10	022-3038		
R28	A-M2	B2	1k	1/4	comp, ins	10	022-2004		
R29	A-M3	B1	1M	1/4	comp, ins	10	022-3163		
R30	14-11 N 2	C1	100	1/8	comp, ins, gd 1	5	021-9040		
R31	N2	C1	22 k	1/2	comp, ins	10	022-2174		
R32	A-N 3	B1 B1	560	1/4	comp, ins	10 10	022-1206		
R33 R34	._N4 B_N1	C1	4.7k 100	1/2 1/8	comp, ins	10 5	022 -2 090 021-9040		
R35	B-N1	C1	6.8k	1/4	comp, ins, gd 1	ر 10	021-9040		
R36	B-M1	B3	150k	1/4	comp, ins	10	022-3059		
R37	B-L2	02	270	1/4	comp, ins	10	022-1164		
R38	B-K2	C3	470k	1/4	comp, ins	10	022-7104		
R44.	B-B8		10	1/4	comp, ins	10	022-1002		
R45	B - B8		12	1/4	comp, ins	10	J22 1002		
R46	B - B8	C5 ¹	47	1/4	comp, ins	10			

G-+	Compor Locat		· Value	Rating	Type and limit	Type and limit	
Cct ref	Circuit Fig 2509	Layout Fig 2511		(W)	(±°/o)		Part No (Z/5905-99-)
			RE	SISTORS.	FIXED - (cont)		
R47	В - С8	C5	68 ~	1/4	comp, ins	10	022-1089
R48	B - B8	C5	22	1/4	comp, ins	10	
R50	A- A5	N1	33k	1/4	comp, ins (in T6)	10	022-2193
R51	B - A5	F3	100	1/4	comp, ins	10	022-1109
R52	B -B 5	F 2	270	1/4	comp, ins	10	022-1164
R53	B-B4	F2	270 k	1/4	comp, ins	10	022-3092
R54	B-B4	F2	100	1/8	comp, ins, gd 1	5	0 21 - 9040
R55	B-B4	F3	10k	1/4	comp, ins	10	022-2131
R56	B - C5	F3	18k	1/2	comp, ins	10	022-2165
R58	B - B6	E 2	470	1/4	comp, ins	10	022-1194
R59	B-C5	E3	18k	1/4	comp, ins	10	022-2164
R60	B - C5	E3	100	1/4	comp, ins	110	022-1109
R61	в-с6	E 2	47	1/4	comp, ins	10	
R62	B -D 5	E2	330	1/4	comp, ins	10	022-1173
R63	B - D6	E2	330	1/4	comp, ins	10	022-1173
R64	B-D4	F 2	270 k	1/4	comp, ins	10	022-3092
R65	B-E4	F2	100	1/8	comp, ins, gd 1	5	021-9040
R66	B-E4	F 2	10k	1/4	comp, ins	10	022-2131
R67	B-E4	E3	470k	1/4	comp, ins	10	022-3121
R68	B -F 5	E 3	100	1/4	comp, ins	10	022-1109
R 69	B -F 5	E2	3 30	1/4	comp, ins	10	022-1173
R70	B-F6	E2	330	1/4	comp, ins	10	022-1173
R71	B -F 4	D 2	2 70k	1/4	comp, ins	10	022-3092
R72	B-G4	D2	100	1/8	comp, ins, gd 1	5	021-9040
R73	B-G4	D2	10k	1/4	comp, ins	10	022-2131
R74	B - G6	D3	470 k	1/4	comp, ins	10	022-3121
R75	в-н6	D3	100	1/4	comp, ins	10	022-1109
R76	B-G6	D2	680	1/4	comp, ins	10	022-1215
R77	B-J4	C3	150k	1/4	comp, ins	10	022 - 30 59
R78	B-J4	C3	100	1/8	comp, ins, gd 1	5	021-9040
R79	B-J4	D2	6.8k	1/4	comp, ins	10	022-2110
R80	в-к6	C4	470k	1/4	comp, ins	10	022-3121
R81	B-L4	D 5	2.7M	1/2	comp, ins	10	022-3219
R82	B -L5	D4	4.7M	1/4	comp, ins	10	022-3248
R83	B-E8	D4	100	1/4	comp, ins	10	022-1109
R84	B- L 5	E5	1.5k	1/4	comp, ins	10	000 00 =
R85	B-M4	D4	47k	1/4	comp, ins	10	022-2215
R86	B-M5	D5	4.7M	1/4	comp, ins	10	022-3248
R87	B-M4	D5	68	1/8	comp, ins, gd 1	5	011-9726
R88	B-M4	D4	6.8M	1/2	comp, ins	10	022-3270
R39	B-M6	D4	3.3k	1/4	comp, ins	10	022-2068
R90	C-84	С3	470k	1/4	comp, ins	5	

Part 2

Table 2502 - (cont)

Resistors	0 +	Component Location		Volue Poting				D- 4 N-	
R91	,	Fig	Fig					Part No (<i>Z</i> /5 <i>9</i> 05 - 99-)	
R92 C-R3 B3 H3 H70k	RESISTORS, FIXED, - (cont)								
R92 C-R3 B3 470k 1/4 comp, ins, gd 1 5 021-9 R94 C-R4 B3 12k 1/2 comp, ins, gd 1 5 021-9 R96 C-V2 B3 470k 1/4 comp, ins 10 022-3 R97 C-V2 B2 460k 1/4 comp, ins 10 022-3 R99 C-W2 B2 350k 1/4 comp, ins 10 022-3 R99 C-W2 B2 350k 1/4 comp, ins 10 022-3 R100 C-W3 A3 680k 1/4 comp, ins 10 022-3 R101 C-W3 D4 1M 1/4 comp, ins 10 022-3 R102 C-X3 D4 1M 1/4 comp, ins 10 022-3 R102 C-X3 B4 100 1/8 comp, ins 10 022-2 R106 C-X2 E4 1	R91	C-Q4	В2	1 •2k	1/8	film, ins	5	021-9118	
R96 C-R4 B3 470k 1/4 comp, ins 10 022-3 R97 C-V2 B2 470k 1/4 comp, ins 10 022-3 R98 C-V2 B2 680k 1/4 comp, ins 10 022-3 R99 C-W2 B2 330k 1/4 comp, ins 10 022-3 R100 C-W3 A3 680k 1/4 comp, ins 10 022-3 R101 C-W2 A2 IM 1/4 comp, ins 10 022-3 R101 C-X2 B4 100 1/8 comp, ins 10 022-3 R104 C-X1 B4 100 1/8 comp, ins 10 022-3 R105 C-X2 B4 47k 1/2 comp, ins 10 022-3 R106 C-X2 B4 10k 1/4 comp, ins 10 022-2 R107 C-X3 B4 2.2k 1/4 comp, ins 10 022-2 R108 C-Y1 B4 100 1/8 comp, ins 10 022-2 R108 C-Y1 B4 100 1/8 comp, ins 10 022-2 R109 C-Y2 B4 47k 1/2 comp, ins 10 022-2 R110 C-Y3 B4 2.2k 1/4 comp, ins 10 022-2 R110 C-Y3 B4 2.2k 1/4 comp, ins 10 022-2 R111 C-Y4 B4 100k 1/2 comp, ins 10 022-2 R112 C-Y3 D4 1.2M 1/4 comp, ins 10 022-2 R112 C-Y3 D4 1.2M 1/4 comp, ins 10 022-3 R113 C-Q7 C4 47k 1/4 comp, ins 10 022-3 R114 C-Q8 B5 22k 1/8 film, ins 5 021-9 R115 C-Q7 B4 220k 1/4 comp, ins 10 022-3 R116 C-Y5 K5 1k 1/4 comp, ins 10 022-3 R117 C-Z5 K5 10M 1/4 comp, ins 10 022-3 R118 C-Z6 K5 470k 1/4 comp, ins 10 022-3 R130 A-A7 F5 100 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/4 comp, ins 10 022-3 R134 A-B7 F5 18k 1/2 comp, ins 10 022-3 R135 A-B7 F5 18k 1/4 comp, ins 10 022-3 R136 A-C7 E5 18k 1/4 comp, ins 10 022-3 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R139 A-B6 E6 150k 1/4 comp, ins 10 022-2 R139 A-B6 E6 150k 1/4 comp, ins 10 022-2 R139 A-B6 E6 150k 1/4 comp, ins 10 022-2 R139 A-B6 E6 150k 1/4 comp, ins 10 022-3 R141 A-B7 E5 100 1/4 comp, ins 10 022-2 R139 A-B6 E6 150k 1/4 comp, ins 10 022-2 R139 A-B6 E6 150k 1/4 comp, ins 10 022-2 R141 A-B7 E6 270 1/4 comp, ins 10 022-2 R141 A-B7 E6 270 1/4 comp, ins 10 022-2 R141 A-B7 E6 270 1/4 comp, ins 10 022-2 R141 A-B7 E6 270 1/4 comp, ins 10 022-2 R141 A-B7 E6 270 1/4 comp, ins 10 022-2 R141 A-B7 E6 270 1/4 comp, ins 10 022-2 R141 A-B7 E6 270 1/4 comp, ins 10 022-2 R142 A-B7 E6 270 1/4 comp, ins 10 022-2 R141 A-B7 E6 270 1/4 comp, ins 10 022-2 R141 A-B7 E6 270 1/4 comp, ins 10 022-2 R141 A-B7 E6 270 1/4 comp, ins 10 022-2 R141 A-B7 E6 270 1/4 comp, ins 10 022-2 R141 A-B7 E6 170 170 170 170 170 1		C - R3	В3	470k	1/4		10	022-3121	
R94 C-R4 B3 12k 1/2 comp, ins 10 022-3 R97 C-V2 B3 470k 1/4 comp, ins 10 022-3 R98 C-V2 B2 680k 1/4 comp, ins 10 022-3 R99 C-W2 B2 350k 1/4 comp, ins 10 022-3 R99 C-W2 B2 350k 1/4 comp, ins 10 022-3 R100 C-W2 A2 1M 1/4 comp, ins 10 022-3 R101 C-W2 A2 1M 1/4 comp, ins 10 022-3 R102 C-X1 B4 100 1/8 comp, ins 10 022-3 R104 C-X1 B4 100 1/8 comp, ins 10 022-2 R105 C-X2 B4 4/7k 1/2 comp, ins 10 022-2 R106 C-X2 B4 1/4 comp, ins 10 022-2 R107 C-X3 E4 2/2k		C-R3		100		comp, ins, gd 1	5	021-9040	
R96 C-V2 B3 470k 1/4 comp, ins 10 022-3 R97 C-V3 B2 470k 1/4 comp, ins 10 022-3 R98 C-V2 B2 680k 1/4 comp, ins 10 022-3 R99 C-W2 B2 330k 1/4 comp, ins 10 022-3 R100 C-W3 \(\text{A3} \) \(\text{A3} \) \(\text{A680k} \) \(\text{A78k} \) \(A78k	•		:	12k					
R97				i			10	022-3121	
R98			•	,		- -		022-3121	
R99 C-W2 B2 330k 1/4 comp, ins 10 022-3 R100 C-W3 A3 680k 1/4 comp, ins 10 022-3 R101 C-W2 A2 1M 1/4 comp, ins 10 022-3 R102 C-X3 D4 1M 1/4 comp, ins 10 022-3 R104 C-X1 B4 100 1/8 comp, ins, gd 1 5 021-9 R105 C-X2 B4 4/R 1/2 comp, ins 10 022-2 R106 C-X2 B4 10k 1/4 comp, ins 10 022-2 R107 C-X3 B4 2.2k 1/4 comp, ins 10 022-2 R108 C-Y1 B4 100 1/8 comp, ins, gd 1 5 021-9 R109 C-Y2 B4 4/R 1/2 comp, ins 10 022-2 R110 C-Y3 B4 2.2k 1/4 comp, ins 10 022-2 R111 C-Y4 B4 100k 1/2 comp, ins 10 022-2 R111 C-Y4 B4 100k 1/2 comp, ins 10 022-3 R112 C-Y3 D4 1.2M 1/4 comp, ins 10 022-3 R113 C-Q7 C4 4/R 1/4 comp, ins 10 022-3 R114 C-Q8 B5 22k 1/8 film, ins 5 021-9 R115 C-Q7 B4 220k 1/8 film, ins 5 021-9 R116 C-Y5 K5 1k 1/4 comp, ins 10 022-2 R117 C-25 K5 10M 1/4 comp, ins 10 022-2 R118 C-Z6 K5 4/70k 1/4 comp, ins 10 022-3 R130 A-47 F5 100 1/4 comp, ins 10 022-3 R131 A-48 F4 270 1/4 comp, ins 10 022-3 R132 A-B6 F5 150k 1/4 comp, ins 10 022-1 R133 A-B7 F5 6.8k 1/4 comp, ins 10 022-1 R134 A-B7 F5 18k 1/2 comp, ins 10 022-1 R135 A-C7 E5 18k 1/4 comp, ins 10 022-1 R138 A-C7 E6 270 1/4 comp, ins 10 022-2 R139 A-D6 E6 150k 1/4 comp, ins 10 022-2 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-3 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-3 R144 A-D7 L2 33k 1/4 comp, ins 10 022-3 R144 A-D7 L2 33k 1/4 comp, ins 10 022-3 R144 A-D7 L2 33k 1/4 comp, ins 10 022-3 R144 A-D7 L2 33k 1/4 comp, ins 10 022-3 R144 A-D7 L2 33k 1/4 comp, ins 10 022-3 R144 A-D7 L2 33k 1/4 comp, ins 10 022-3		-	•					022-3143	
R100 C-W3 A3 A3 680k 1/4 comp, ins 10 022-3 R101 C-W2 A2 1M 1/4 comp, ins 10 R102 C-X3 D4 1M 1/4 comp, ins 10 R102 C-X3 D4 1M 1/4 comp, ins 10 R105 C-X2 E4 47k 1/2 comp, ins 10 R106 C-X2 E4 47k 1/2 comp, ins 10 R107 C-X3 E4 2.2k 1/4 comp, ins 10 R108 C-Y1 E4 100 1/8 comp, ins 10 R109 C-Y2 E4 47k 1/2 comp, ins 10 R109 C-Y2 E4 47k 1/2 comp, ins 10 R101 C-Y3 E4 2.2k 1/4 comp, ins 10 R102 C-Y3 E4 100k 1/2 comp, ins 10 R110 C-Y3 E4 100k 1/2 comp, ins 10 R111 C-Y4 E4 100k 1/2 comp, ins 10 R112 C-Y3 D4 1.2M 1/4 comp, ins 10 R113 C-Q7 C4 47k 1/4 comp, ins 10 R114 C-Q8 B5 22k 1/8 film, ins 5 R115 C-Q7 B4 220k 1/4 comp, ins 10 R116 C-Y5 K5 1k 1/4 comp, ins 10 R117 C-25 K5 10M 1/4 comp, ins 10 R118 C-26 K5 470k 1/4 comp, ins 10 R131 A-A8 F4 270 R131 A-A8 F4 270 R133 A-B6 F5 150k 1/4 comp, ins 10 R134 A-B7 F5 18k 1/2 comp, ins 10 R135 A-B7 F5 18k 1/2 comp, ins 10 R136 A-C7 E5 18k 1/4 comp, ins 10 R137 A-B7 F5 18k 1/2 comp, ins 10 R138 A-C7 E5 18k 1/4 comp, ins 10 R139 A-B6 E6 150k 1/4 comp, ins 10 R141 A-B6 E6 150k 1/4 comp, ins 10 R142 A-B7 L2 33k 1/4 comp, ins 10 R144 A-B6 E6 150k 1/4 comp, ins 10 R145 A-B7 E5 150k 1/4 comp, ins 10 R146 A-B6 E6 150k 1/4 comp, ins 10 R141 A-B6 E6 150k 1/4 comp, ins	•	i		•		-		022-3101	
R101 C-W2			•					022-3143	
R102 C-X3 D4 1M 1/4 comp, ins 10 022-3 R104 C-X1 E4 100 1/8 comp, ins, gd 1 5 021-9 R105 C-X2 E4 4/7k 1/2 comp, ins 10 022-2 R106 C-X2 E4 4/7k 1/2 comp, ins 10 022-2 R107 C-X3 E4 2.2k 1/4 comp, ins 10 022-2 R108 C-Y1 E4 100 1/8 comp, ins, gd 1 5 021-9 R109 C-Y2 E4 4/7k 1/2 comp, ins 10 022-2 R110 C-Y3 E4 2.2k 1/4 comp, ins 10 022-3 R111 C-Y4 E4 100k 1/2 comp, ins 10 022-3 R112 C-Y3 D4 1.2M 1/4 comp, ins 10 022-3 R113 C-Q7 C4 4/7k 1/4 comp, ins 10 022-3 R114 C-Q8 B5 22k 1/8 film, ins 5 021-9 R115 C-Q7 B4 220k 1/4 film, ins 5 021-9 R116 C-Y5 K5 1k 1/4 comp, ins 10 022-3 R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R130 A-47 F5 100 1/4 comp, ins 10 022-3 R130 A-47 F5 100 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/4 comp, ins 10 022-3 R134 A-B7 F5 18k 1/4 comp, ins 10 022-1 R135 A-B7 F5 18k 1/4 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R138 A-C7 E6 270 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/8 comp, ins 10 022-2 R134 A-D6 D6 66 K8 1/4 comp, ins 10 022-2 R134 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2		-		;					
R104 C-X1 B4 100 1/8 comp, ins, gd 1 5 021-96 R105 C-X2 B4 47k 1/2 comp, ins 10 022-2 R106 C-X2 B4 10k 1/4 comp, ins 10 022-2 R107 C-X3 B4 2.2k 1/4 comp, ins 10 022-2 R108 C-Y1 B4 100 1/8 comp, ins, gd 1 5 021-96 R109 C-Y2 B4 47k 1/2 comp, ins 10 022-2 R110 C-Y3 B4 2.2k 1/4 comp, ins 10 022-2 R111 C-Y4 B4 100k 1/2 comp, ins 10 022-3 R112 C-Y3 D4 1.2M 1/4 comp, ins 10 022-3 R113 C-Q7 C4 47k 1/4 comp, ins 10 022-3 R114 C-98 B5 22k 1/8 film, ins 5 021-9 R115 C-Q7 B4 220k 1/4 film, ins 5 021-9 R116 C-Y5 K5 10M 1/4 comp, ins 10 022-3 R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R130 A-17 F5 100 1/4 comp, ins 10 022-3 R130 A-17 F5 100 1/4 comp, ins 10 022-3 R133 A-86 F4 100 1/4 comp, ins 10 022-1 R132 A-87 F5 18k 1/2 comp, ins 10 022-1 R134 A-87 F5 18k 1/2 comp, ins 10 022-2 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E6 270 1/4 comp, ins 10 022-2 R138 A-C7 E6 270 1/4 comp, ins 10 022-2 R139 A-D6 E6 100 1/8 comp, ins 10 022-3 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins 10 022-2 R144 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2			•	•		•		022-3163	
R105 C-X2 E4 47k 1/2 comp, ins 10 022-2 R106 C-X2 E4 10k 1/4 comp, ins 10 022-2 R107 C-X3 E4 2.2k 1/4 comp, ins 10 022-2 R108 C-Y1 E4 100 1/8 comp, ins, gd 1 5 021-9 R109 C-Y2 E4 47k 1/2 comp, ins 10 022-2 R110 C-Y3 E4 2.2k 1/4 comp, ins 10 022-2 R111 C-Y4 E4 100k 1/2 comp, ins 10 022-3 R112 C-Y3 D4 1.2M 1/4 comp, ins 10 022-3 R113 C-Q7 C4 47k 1/4 comp, ins 10 022-3 R114 C-Q8 B5 22k 1/8 film, ins 5 021-9 R115 C-Q7 B4 220k 1/4 film, ins 5 021-9 R116 C-Y5 K5 1k 1/4 comp, ins 10 022-3 R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R118 C-26 K5 470k 1/4 comp, ins 10 022-3 R130 A-47 F5 100 1/4 comp, ins 10 022-3 R131 A-88 F4 270 1/4 comp, ins 10 022-3 R132 A-86 F5 150k 1/4 comp, ins 10 022-3 R133 A-86 F5 150k 1/4 comp, ins 10 022-3 R134 A-B7 F5 6.8k 1/4 comp, ins 10 022-3 R135 A-B7 F5 18k 1/2 comp, ins 10 022-3 R136 A-C7 E5 18k 1/2 comp, ins 10 022-3 R137 A-C7 E5 18k 1/2 comp, ins 10 022-3 R138 A-B6 F4 100 1/8 comp, ins 10 022-3 R137 A-C7 E5 18k 1/2 comp, ins 10 022-3 R137 A-C7 E5 18k 1/2 comp, ins 10 022-2 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E6 270 1/4 comp, ins 10 022-2 R137 A-C7 E6 150k 1/4 comp, ins 10 022-2 R137 A-C7 E6 150k 1/4 comp, ins 10 022-2 R137 A-C7 E6 150k 1/4 comp, ins 10 022-2 R137 A-C7 E6 150k 1/4 comp, ins 10 022-2 R137 A-D6 E6 150k 1/4 comp, ins 10 022-2 R139 A-D6 E6 150k 1/4 comp, ins 10 022-2 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2	:	_	•			-		021-9040	
R106 C-X2 E4 10k 1/4 comp, ins 10 022-2 R107 C-X3 E4 2.2k 1/4 comp, ins, gd 1 022-2 R108 C-Y1 E4 100 1/8 comp, ins, gd 1 5 021-9 R109 C-Y2 E4 47k 1/2 comp, ins 10 022-2 R110 C-Y3 E4 2.2k 1/4 comp, ins 10 022-2 R111 C-Y4 E4 100k 1/2 comp, ins 10 022-3 R112 C-Y3 D4 1.2M 1/4 comp, ins 10 022-3 R113 C-Q7 C4 47k 1/4 comp, ins 10 022-3 R115 C-Q7 B4 220k 1/4 film, ins 5 021-9 R115 C-Q7 B4 220k 1/4 film, ins 5 021-9 R116 C-Y5 K5 1k 1/4 comp, ins 10 022-2 R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R130 A-a7 F5 100 1/4 comp, ins 10 022-3 R131 A-86 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/8 comp, ins 10 022-3 R134 A-B7 F5 6.8k 1/4 comp, ins 10 022-3 R135 A-B7 F5 18k 1/2 comp, ins 10 022-3 R136 A-C7 E5 18k 1/4 comp, ins 10 022-3 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R138 A-D6 E6 150k 1/4 comp, ins 10 022-2 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R141 A-D6 D6 6.6k 1/4 comp, ins 10 022-2 R141 A-D6 D6 6.6k 1/4 comp, ins 10 022-2 R1442 A-D7 L2 33k 1/4 comp, ins 10 022-2 R1441 A-D6 D6 6.6k 1/4 comp, ins 10 022-2 R1442 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2			•	:				022-2216	
R107 C-X3 E4 2.2k 1/4 comp, ins 10 022-2k 1/8 100 1/8 comp, ins, gd 1 5 021-9k 1/9k 1/9k 1/9k 1/9k 1/9k 1/9k 1/9k 1/	_ 1		•	:				022-2131	
R108 C-Y1 E4 100 1/8 comp, ins, gd 1 5 021-96 R109 C-Y2 E4 47k 1/2 comp, ins R110 C-Y3 E4 2.2k 1/4 comp, ins R111 C-Y4 E4 100k 1/2 comp, ins R112 C-Y3 B4 1.2M 1/4 comp, ins R113 C-Q7 C4 47k 1/4 comp, ins R114 C-08 B5 22k 1/8 film, ins R115 C-Q7 B4 220k 1/4 film, ins R116 C-Y5 K5 1k 1/4 comp, ins R117 C-25 K5 10M 1/4 comp, ins R118 C-Z6 K5 470k 1/4 comp, ins R130 A-A7 F5 100 1/4 comp, ins R131 A-A8 F4 270 1/4 comp, ins R132 A-B6 F5 150k 1/4 comp, ins R133 A-B6 F4 100 1/8 comp, ins R134 A-B7 F5 6.8k 1/4 comp, ins R135 A-B7 F5 18k 1/2 comp, ins R136 A-C7 E5 18k 1/4 comp, ins R137 A-C7 E5 100 1/4 comp, ins R138 A-C7 E5 18k 1/4 comp, ins R139 A-B6 E6 150k 1/4 comp, ins R140 A-D6 E6 100 1/4 comp, ins R141 A-D6 D6 6.8k 1/4 comp, ins R141 A-D6 D6 6.8k 1/4 comp, ins R141 A-D6 D6 6.8k 1/4 comp, ins R142 A-D7 L2 33k 1/4 comp, ins R150 C-Z2-2 R144 A-D7 L2 33k 1/4 comp, ins R150 C-Z2-2 R145 C-Z70 I/4 comp, ins R150 C-Z2-2 R141 A-D6 D6 6.8k 1/4 comp, ins R150 C-Z2-2 R141 A-D6 D6 G.8k 1/4 comp, ins R150 C-Z2-2 R141 A-D6 D6 G.8k 1/4 comp, ins R150 C-Z2-2 R141 A-D6 D6 G.8k 1/4 comp, ins R150 C-Z2-2 R141 A-D6 D6 G.8k 1/4 comp, ins R150 C-Z2-2 R141 A-D6 D6 G.8k 1/4 comp, ins R150 C-Z2-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 C-Z2-2	:		•	1				022-2047	
R109 C-Y2 E4 47k 1/2 comp, ins 10 022-2 R110 C-Y3 E4 2.2k 1/4 comp, ins 10 022-2 R111 C-Y4 E4 100k 1/2 comp, ins 10 022-3 R112 C-Y3 D4 1.2M 1/4 comp, ins 10 022-3 R113 C-Q7 C4 47k 1/4 comp, ins 10 022-3 R114 C-Q8 B5 22k 1/8 film, ins 5 021-9 R115 C-Q7 B4 220k 1/4 film, ins 5 021-9 R116 C-Y5 K5 1k 1/4 comp, ins 10 022-2 R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R118 C-Z6 K5 470k 1/4 comp, ins 10 022-3 R130 A-47 F5 100 1/4 comp, ins 10 022-3 R131 A-48 F4 270 1/4 comp, ins 10 022-1 R131 A-48 F5 150k 1/4 comp, ins 10 022-1 R132 A-B6 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/8 comp, ins 10 022-3 R134 A-B7 F5 18k 1/2 comp, ins 10 022-3 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 100 1/4 comp, ins 10 022-2 R138 A-C7 E5 18k 1/4 comp, ins 10 022-2 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-2 R141 A-D6 D6 E6 150k 1/4 comp, ins 10 022-2 R141 A-D6 D6 E6 150k 1/4 comp, ins 10 022-2 R141 A-D6 D6 E6 150k 1/4 comp, ins 10 022-2 R141 A-D6 D6 E6 150k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins 6 1 5 021-9 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins 6 1 5 021-9 R142 A-D7 L2 33k 1/4 comp, ins 6 1 0 022-2	1	-	1	!				021-9040	
R110 C-Y3 E4 2.2k 1/4 comp, ins 10 022-2 R111 C-Y4 E4 100k 1/2 comp, ins 10 022-3 R112 C-Y3 D4 1.2M 1/4 comp, ins 10 022-3 R113 C-Q7 C4 4/7k 1/4 comp, ins 10 022-2 R114 C-Q8 B5 22k 1/8 film, ins 5 021-9 R115 C-Q7 B4 220k 1/4 film, ins 5 021-9 R116 C-Y5 K5 1k 1/4 comp, ins 10 022-2 R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R118 C-26 K5 470k 1/4 comp, ins 10 022-3 R130 A-47 F5 100 1/4 comp, ins 10 022-3 R131 A-88 F4 270 1/4 comp, ins 10 022-1 R131 A-86 F5 150k 1/4 comp, ins 10 022-3 R132 A-B6 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/8 comp, ins 10 022-3 R134 A-B7 F5 6.8k 1/4 comp, ins 10 022-2 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/2 comp, ins 10 022-2 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R138 A-C7 E6 270 1/4 comp, ins 10 022-2 R139 A-B6 E6 150k 1/4 comp, ins 10 022-2 R139 A-B6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 150k 1/4 comp, ins 10 022-3 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-3 R142 A-D7 L2 33k 1/4 comp, ins 10 022-2 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins 6 1 5 021-9 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2	i		•	:				022-2216	
R111 C-Y4 E4 100k 1/2 comp, ins 10 022-3 R112 C-Y3 D4 1.2M 1/4 comp, ins 10 022-3 R113 C-Q7 C4 4/K 1/4 comp, ins 10 022-2 R114 C-Q8 B5 22k 1/8 film, ins 5 021-9 R115 C-Q7 B4 220k 1/4 film, ins 5 021-9 R116 C-Y5 K5 1k 1/4 comp, ins 10 022-2 R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R118 C-Z6 K5 470k 1/4 comp, ins 10 022-3 R130 A-47 F5 100 1/4 comp, ins 10 022-3 R131 A-A8 F4 270 1/4 comp, ins 10 022-1 R132 A-B6 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F5 150k 1/4 comp, ins 10 022-3 R134 A-B7 F5 6.3k 1/4 comp, ins 10 022-3 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R138 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 100 1/4 comp, ins 10 022-2 R138 A-C7 E6 270 1/4 comp, ins 10 022-2 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-2 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2			•	1				022-2047	
R112 C-Y3 D4 1.2M 1/4 comp, ins 10 022-3 R113 C-Q7 C4 47k 1/4 comp, ins 10 022-2 R114 C-Q8 B5 22k 1/8 film, ins 5 021-9 R115 C-Q7 B4 220k 1/4 film, ins 5 021-9 R116 C-Y5 K5 1k 1/4 comp, ins 10 022-2 R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R118 C-Z6 K5 470k 1/4 comp, ins 10 022-3 R130 A-47 F5 100 1/4 comp, ins 10 022-1 R131 A-A8 F4 270 1/4 comp, ins 10 022-1 R132 A-B6 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/8 comp, ins, gd 1 5 021-9 R134 A-B7 F5 18k 1/2 comp, ins 10 022-2 R135 A-B7 F5 18k 1/4 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R138 A-C7 E6 270 1/4 comp, ins 10 022-2 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-2 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2	i	_	•	7		* · · · · · · · · · · · · · · · · · · ·		022-3039	
R113			1	;		: · · · ·		022-3175	
R114 C-98 B5 22k 1/8 film, ins 5 021-9 R115 C-97 B4 220k 1/4 film, ins 5 021-9 R116 C-Y5 K5 1k 1/4 comp, ins 10 022-2 R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R118 C-Z6 K5 470k 1/4 comp, ins 10 022-3 R130 A-47 F5 100 1/4 comp, ins 10 022-1 R131 A-A8 F4 270 1/4 comp, ins 10 022-1 R132 A-B6 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/8 comp, ins, gd 1 5 021-9 R134 A-B7 F5 6 Bk 1/4 comp, ins 10 022-2 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R138 A-C7 E6 270 1/4 comp, ins 10 022-2 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6 8k 1/4 comp, ins, gd 1 5 021-9 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2	•		:					022-2215	
R115 C-Q7 B4 220k 1/4 film, ins 5 021-9 R116 C-Y5 K5 1k 1/4 comp, ins 10 022-2 R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R118 C-Z6 K5 470k 1/4 comp, ins 10 022-3 R130 A-A7 F5 100 1/4 comp, ins 10 022-1 R131 A-A8 F4 270 1/4 comp, ins 10 022-1 R132 A-B6 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/8 comp, ins, gd 1 5 021-9 R134 A-B7 F5 6 Bk 1/4 comp, ins 10 022-2 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 100 1/4 comp, ins 10 022-2 R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 100 1/8 comp, ins 10 022-2 R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6 8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2			:					021-9208	
R116 C-Y5 K5 1k 1/4 comp, ins 10 022-2 R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R118 C-26 K5 470k 1/4 comp, ins 10 022-3 R130 A-A7 F5 100 1/4 comp, ins 10 022-1 R131 A-A8 F4 270 1/4 comp, ins 10 022-1 R132 A-B6 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/8 comp, ins 10 022-3 R134 A-B7 F5 6 8k 1/4 comp, ins 10 022-2 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 100 1/4 comp, ins 10 022-2 R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-1 R140 A-D6 E6 100 1/8 comp, ins 10 022-2 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2	1			i .			5	021-9281	
R117 C-25 K5 10M 1/4 comp, ins 10 022-3 R118 C-26 K5 470k 1/4 comp, ins 10 022-3 R130 A-47 F5 100 1/4 comp, ins 10 022-1 R131 A-48 F4 270 1/4 comp, ins 10 022-1 R132 A-B6 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/8 comp, ins, gd 1 5 021-9 R134 A-B7 F5 6 8 1/4 comp, ins 10 022-2 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 100 1/4 comp, ins 10 022-2 R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R138 A-C7 E6 150k 1/4 comp, ins 10 022-1 R139 A-B6 E6 150k 1/4 comp, ins 10 022-1 R139 A-B6 E6 150k 1/4 comp, ins 10 022-1 R140 A-B6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-B6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2			1	t.		1		022-2005	
R118 C-Z6 K5 470k 1/4 comp, ins 10 022-3 R130 A-A7 F5 100 1/4 comp, ins 10 022-1 R131 A-A8 F4 270 1/4 comp, ins 10 022-1 R132 A-B6 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/8 comp, ins, gd 1 5 021-9 R134 A-B7 F5 6.8k 1/4 comp, ins 10 022-2 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 18k 1/4 comp, ins 10 022-2 R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R138 A-C7 E6 150k 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6.8k 1/4 comp, ins, gd 1 5 021-9 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2		•		1				022-3290	
R130 A-47 F5 100 1/4 comp, ins 10 022-1 R131 A-A8 F4 270 1/4 comp, ins 10 022-1 R132 A-B6 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/8 comp, ins, gd 1 5 021-9 R134 A-B7 F5 6.8k 1/4 comp, ins 10 022-2 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 100 1/4 comp, ins 10 022-2 R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6.8k 1/4 comp, ins, gd 1 5 021-9 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2	- !					•		022-3121	
R131 A-A8 F4 270 1/4 comp, ins 10 022-1 R132 A-B6 F5 150k 1/4 comp, ins 10 022-3 R133 A-B6 F4 100 1/8 comp, ins, gd 1 5 021-9 R134 A-B7 F5 6-Bk 1/4 comp, ins 10 022-2 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 100 1/4 comp, ins 10 022-1 R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 150k 1/4 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6-8k 1/4 comp, ins, gd 1 5 021-9 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2		1		1				022-1109	
R132 A=B6 F5 150k 1/4 comp, ins 10 022-36 R133 A=B6 F4 100 1/8 comp, ins, gd 1 5 021-96 R134 A=B7 F5 6 Bk 1/4 comp, ins 10 022-26 R135 A=B7 F5 18k 1/2 comp, ins 10 022-26 R136 A=C7 E5 18k 1/4 comp, ins 10 022-26 R137 A=C7 E5 100 1/4 comp, ins 10 022-26 R138 A=C7 E6 270 1/4 comp, ins 10 022-16 R139 A=D6 E6 150k 1/4 comp, ins 10 022-17 R140 A=D6 E6 100 1/8 comp, ins, gd 1 5 021-96 R141 A=D6 D6 6 8k 1/4 comp, ins 10 022-26 R142 A=D7 L2 33k 1/4 comp, ins (in T13) 10 022-2	1			I				022-1164	
R133 A-B6 F4 100 1/8 comp, ins, gd 1 5 021-9 R134 A-B7 F5 6 8k 1/4 comp, ins 10 022-2 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 100 1/4 comp, ins 10 022-1 R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6 8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2			•			<u> </u>		022-3059	
R134 A-B7 F5 6 8k 1/4 comp, ins 10 022-2 R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 100 1/4 comp, ins 10 022-1 R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6 8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2						1		021-9040	
R135 A-B7 F5 18k 1/2 comp, ins 10 022-2 R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 100 1/4 comp, ins 10 022-1 R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2								022-2110	
R136 A-C7 E5 18k 1/4 comp, ins 10 022-2 R137 A-C7 E5 100 1/4 comp, ins 10 022-1 R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2						:		022-2165	
R137 A-C7 E5 100 1/4 comp, ins 10 022-1 R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2						*		022-2164	
R138 A-C7 E6 270 1/4 comp, ins 10 022-1 R139 A-D6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2				1		:		022-2104	
R139 A-D6 E6 150k 1/4 comp, ins 10 022-3 R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6.8k 1/4 comp, ins (in T13) 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2								022-1164	
R140 A-D6 E6 100 1/8 comp, ins, gd 1 5 021-9 R141 A-D6 D6 6.8k 1/4 comp, ins (in T13) 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2						• · · · · · · · · · · · · · · · · · · ·		022-3059	
R141 A-D6 D6 6.8k 1/4 comp, ins 10 022-2 R142 A-D7 L2 33k 1/4 comp, ins (in T13) 10 022-2						•		021-9040	
R142 Λ -D7 L2 33k 1/4 comp, ins (in T13) 10 022-2				:				022-2110	
								022-2193	
						1 /		022-2193	
								022-1109	
				i				022-1185	

ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

Table 2502 (cont)

G - t	Compo Loca	nent tion			Type and limit		Post No.
Cct ref	Circuit Fig 2509	Layout Fig 2511	, ,	(W)	(±°/°)		Part No (Z/5905-99-)
			RES	SISTORS,	FIXED - (cont)		
R146 R147 R148 R149 R150 R151 R152 R153 R156 R156 R156 R166 R166 R166 R166 R167 R167	A-G6 A-H6 A-H6 A-K7 A-L7 A-M7 A-N7 A-N7 A-N7 B-N7 B-W7 B-W7	D6661115454555456545654554554555455455545	47k 47 3.3k 33k 33k 27k 27k 1.5k 1.5k 100k 1M 1k 100 22k 560 4.7k 100 6.8k 150k 270 470k 222 8.2k 82k	1/48 1/4 1/4 1/4 1/8 1/8 1/4 1/4 1/8 1/4 1/4 1/4 1/4 1/4	comp, ins film, ins comp, ins comp, ins (in T14) comp, ins (in T14) comp, ins (in T14) film, ins film, ins film, ins comp, ins	10 50 10 10 55 55 50 10 10 10 10 10 10 10 10 10 10 10 10 10	022-2215 011-9714 022-2068 022-2193 022-2193 022-2193 021-9214 021-9124 021-9124 021-9124 022-3038 022-2004 021-9040 022-2174 022-1206 022-2090 021-9040 022-2111 022-3058 022-3121 21/Zh 56814 022-3121 21/Zh 56814 022-3028
RESISTORS, VARIABLE (Z1/5905-9							(Z 1/5 <i>9</i> 05-99 -)
RV1 RV2 RV3 RV4 RV5 RV6 RV7 RV8 RV9	A-C4 B-L3 B-B6 B-L6 C-X3 A-C8 B-L8 B-C6 B-B6	N7 K4 N7 L2 E4 N7 K2 M2	5k 5k 5k 2•5k 5k 5k 5k 500	1 1 1 1 1 1 1/2 1	w.w. rotary, tor w.w. rotary, tor w.w. rotary, tor w.w. linear w.w. rotary, tor	10 10 10 10 10 10 10	940-0458 940-0458 940-0458 21/ZA 39386 940-0458 940-0458 940-0458 940-0458

Table 2502 - (cont)

0.1	Compo Loca		Value Rating Type and limit			Part No	
Cct ref	Circuit Fig 2 50 9	Layout Fig 2511	(µF)	(V)	(±°/°)		(Z/5910 - 99-)
					CAPACITORS		
C1234567890123456789012345678000000000000000000000000000000000000	A-B44A-B34343434343434343434343434343434343434	F11211155111155522155114413335513333333333	0.1 0.05 0.05 0.001 0.1 0.05 0.05 680p 680p 0.1 0.05 0.05 220p 470p 100p 100p 100p 0.1 68p 68p 0.01 1 0.001 0.001 0.005 0.05 0.01 1 0.005 0.05 0.01 0.001 0.05 0.05 0.001 0.05 0.001 0.001 0.005 0.001 0.005 0.005 0.001 0.005 0.005 0.001 0.005 0.005 0.001 0.005 0.005 0.001 0.005 0.005 0.005 0.005 0.001 0.005 0.005 0.005 0.005 0.001 0.005 0.005 0.005 0.005 0.001 0.005 0.005 0.005 0.005 0.005 0.001 0.005 0.0001	200 175 175 350 175 350 200 175 175 350 200 175 350 200 750 200 275 350 200 175 200 175 200 175 200 175 350 200 175 350 200 275 350 200 275 350 200 275 350 200 275 350 200 275 350 200 275 350 200 275 350 200 200 200 200 200 200 200 200 200 2	pap, met, tub pap, met, tub pap, met, tub mica, met, rect pap, met, tub pap, met, tub pap, met, tub mica, met, tub (in T1) mica, met, tub (in T1) pap, met, tub pap, met, tub pap, met, tub mic, met, rect (in T2) mic, met, rect (in T2) mic, met, rect mic, met, rect mic, met, rect pap, met, tub mic, met, rect (in T4) pap, met, tub mic, met, rect (in T5) mic, met, rect (in T5) mic, met, rect (in T5) pap, met, tub mic, met, rect (in T7)	250 20 5 5 5 5 20 20 5 2 2 5 5 5 5 5 5 5	011-9827 011-5596 011-5596 011-5596 011-5596 011-5596 012-3954 011-5596 011-5596 011-5596 011-5596 012-3936 110-2284 110-2284 012-3924 012-3924 012-3918 011-5627 014-5003 012-3918 011-5627 014-5003 012-4701 011-5596
C50 C51 C52	B-E5 B-E6 B-F6	M3 E3 E3	0 •001 0 •05 0 •1	350 175 200	mic,met,rect (in T7) pap, met, tub pap, met, tub	5 5 20 25	012-4701 011-5596 011-9827

Carcuit Layout Fig Fi	Cat	Compo Loca	nent tion	Value	e Rating Type and limit			Part No
C53 B-F6 D3 O.1 200 pap, met, tub 25 O11-9827 C55 B-C6 D3 O.05 175 pap, met, tub 20 O11-5596 mic, met, rect (in T8) 5 O12-4,701 pap, met, tub 20 O11-5596 mic, met, rect (in T8) 5 O12-4,701 pap, met, tub 20 O11-5596 mic, met, rect (in T8) 5 O12-4,701 pap, met, tub 20 O11-5596 mic, met, rect (in T8) 5 O12-4,701 pap, met, tub 20 O11-5596 pap, met, tub 25 O12-3948 pap, met, tub 25 O12-3948 pap, met, rect (in T12) 5 O12-4701 pap, met, rect 5 O12-4701 pap, met, rect 5 O12-4701 pap, met, rect 5 O12-4701 pap, met, tub 25 O11-5596 pap, met, tub 25 O11-5596 pap, met, tub 25 O11-5596 O11-559		Fig	Fig			(±°/o)		
C54					CAPACITÓ:	RS - (cont)		
C55 B-G5								
C56		:						
C57 B-G6 D3 O.05 175 pap, met, tub 20 O11-5596		•		:		, , , , , , , , , , , , , , , , , , , ,	2	-
C58						•		
C59 B-J6 C3 O.05 175 pap, met, tub 20 O11-5596				•				
C60 B-J5 K3 O.001 350 mic,met,rect (in T9) 5 O12-4701 O14-5596 O15-596 O15-596 O16-596 O16-3596				:	:			
C61 B-J6 D3 0.05 175 pap, met, tub 20 011-5596 C62 B-K5 C3 100p 750 mic, foil, rect, met 20 012-3165 C63 B-D8 L3 0.001 350 mic, met, rect (in T10) 5 012-4701 C65 B-M6 E4 0.1 200 pap, met, tub 20 011-5596 C67 B-M5 K2 0.001 350 mic, met, rect 5 012-4701 C68 B-M6 D4 0.05 175 pap, met, tub 20 011-5596 C69 C-P3 C3 100p 750 mic, foil, rect, met 20 012-3165 C70 C-Q4 B2 0.1 200 pap, met, tub 25 011-9827 C71 C-R4 B2 0.05 175 pap, met, tub 20 012-3165 C72 C-R3 K3 470p 750 mic, met, rect (in T12) 5 012-4701 C73 C-S3 K3 4.70p 750 mic, met, rect (in T12) 5 012-4701 C74 C-R4 B4 0.05 175 pap, met tub 20 014-5596 C75 C-T2 A4 97.2p var, air dielectric - 016-006 C76 C-T3 B4 56p 750 mic, met, rect 5 012-4701 C79 C-V2 B2 0.001 350 mic, met, rect 5 012-4701 C79 C-V3 B2 0.01 200 pap, met C79 C-V3 B2 0.001 350 mic, met, rect 5 012-4701 C79 C-V3 B2 0.01 200 pap, met C79 C-V3 B2 0.01 200 pap, met C79 C-V3 B2 0.01 200 pap, met, tub 25 011-9827 C79 C-V3 B2 0.01 200 pap, met, tub 25 011-9827 C79 C-V3 B2 0.1 200 pap, met, tub 25 011-9827 C79 C-V8 B4 0.1 200 pap, met, tub 25 011-9827 C79 C-V8 B4 0.1 200 pap, met, tub 25 011-9827 C70 A-A8 F4 0.05 175 pap, met, tub 25 011-9827 C70 A-B8 F4 0.05 175 pap, met, tub 25 011-9827 C70 A-B8 F4 0.05 175 pap, met, tub 25 011-9827 C70 A-B8 F4 0.05 175 pap, met, tub 25 011-9827 C70 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C70 A-B7 E5 0.05 175 pap, met, tub 20 011-5596 C70 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C70 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C70 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C70 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C70 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C70 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C70 A				:		1		•
C62 B-K5 C3 100p 750 mic,foil,rect,met 20 012-3165 C63 B-L6 D4 0.05 175 pap,met,tub 20 011-5596 C64 B-D8 L3 0.001 350 mic,met,rect (in T10) 5 012-4701 C65 B-M6 E4 0.1 200 pap,met, tub 20 011-5596 C66 B-M6 D4 0.05 175 pap,met, tub 20 011-5596 C67 B-N5 K2 0.001 350 mic,met,rect = 5 012-4701 C68 B-M6 D4 0.05 175 pap,met, tub 10 011-5596 C69 C-P3 C3 100p 750 mic,foil,rect,met 20 012-3165 C70 C-Q4 B2 0.1 200 pap,met, tub 25 014-9827 C71 C-R4 B2 0.1 200 pap,met,tub 25 014-9827 C72 C-R3 K3 470p 750 mic,met,rect (in T12) 5 012-3948 C73 C-S3 K3 0.001 350 mic,met,rect (in T12) 5 012-4701 C74 C-R4 B4 0.05 175 pap, met C75 C-T2 A4 97.2p C76 C-T3 B4 56p C77 C-U2 B4 22p 750 mic,met,rect 5 012-4701 C78 C-V2 B2 0.001 350 mic,met,rect 5 012-4701 C79 C-V3 B2 0.001 350 mic,met,rect 5 012-4701 C80 C-W3 B2 0.01 200 pap, met C79 C-V3 B2 0.001 350 mic,met,rect 5 012-4701 C80 C-W3 B2 0.01 200 pap, met C79 C-V3 B2 0.001 350 mic,met,rect 5 012-4701 C80 C-W3 B2 0.01 200 pap, met C79 C-V3 B2 0.001 350 mic,met,rect 5 012-4701 C80 C-W3 B2 0.01 200 pap, met C85 C-Q8 B4 0.1 200 pap, met C96 C-T6 A2 50 70 elect, tantalum 20 21/ZA 56613 C100 A-B8 F4 0.05 175 pap, met, tub 25 011-9827 C101 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C102 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C103 A-B7 F5 0.001 350 mic,met,rect 5 012-4701 C104 A-D8 E5 0.1 200 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 C107 A-B7 E5 0.05 175 pap, met, tub 20 011-5596 C106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 C107 A-B7 E5 0.05 175 pap, met, tub 20 011-5596 C106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 C107 A-B7 E5 0.05 175 pap, met, tub 20 011-5596 C108 A-B7 L1 680p 350 mic,met,tub (in T13) 5 012-3954 C108 A-B7 L1 680p 350 mic,met,tub (in T13) 5 012-3954				•				
C63 B-L6 D4 0.05 175 pap,met,tub 20 011-5596 C64 B-D8 L3 0.001 350 mic,met,rect (in T10) 5 012-4701 c66 B-M6 D4 0.05 175 pap, met, tub 20 011-5596 C67 B-N5 K2 0.001 350 mic,met,rect 5 012-4701 c68 B-N6 D4 0.05 175 pap, met, tub 20 011-5596 c69 C-P3 C3 100p 750 mic,foil,rect,met 20 012-3165 c70 C-Q4 B2 0.1 200 pap, met, tub 25 011-9827 c71 C-R4 B2 0.05 175 pap, met, tub 25 011-9827 c72 C-R3 K3 470p 750 mic,met,rect (in T12) 5 012-3948 c73 C-S3 K3 470p 750 mic,met,rect (in T12) 5 012-3948 c75 C-T2 A4 97.2p var, air dielectric - 016-0006 c76 C-T3 B4 52p 750 mic,met,rect 5 012-4701 c79 C-V3 B2 0.001 350 mic,met,rect 5 012-4701 c79 C-V3 B2 0.001 350 mic,met,rect 5 012-4701 c79 C-V3 B2 0.001 350 mic,met,rect 5 012-4701 c79 C-W3 B2 0.1 200 pap, met 25 011-9827 c83 C-P6 C3 100p 750 mic,met,rect 5 012-4701 c79 c-V3 B2 0.001 350 mic,met,rect 5 012-4701 c79 c-V3 B2 0.001 350 mic,met,rect 5 012-4701 c79 c-W3 B4 0.1 200 pap, met 25 011-9827 c85 C-Q8 B4 0.1 200 pap, met 25 011-9827 c85 C-Q8 B4 0.1 200 pap, met, tub 25 011-9827 c85 C-Q8 B4 0.1 200 pap, met, tub 25 011-9827 c86 C-Y6 A2 50 70 elect, tantalum 20 Z1/ZA 56613 c103 A-B7 F5 0.05 175 pap, met, tub 25 011-9827 c101 A-B8 F4 0.05 175 pap, met, tub 25 011-9827 c104 A-B8 F4 0.05 175 pap, met, tub 25 011-9827 c104 A-B8 F4 0.05 175 pap, met, tub 25 011-9827 c105 A-B7 E5 0.05 175 pap, met, tub 25 011-9827 c105 A-B7 E5 0.05 175 pap, met, tub 25 011-9827 c105 A-B7 E5 0.05 175 pap, met, tub 25 011-9827 c105 A-B7 E5 0.05 175 pap, met, tub 25 011-9827 c105 A-B7 E5 0.05 175 pap, met, tub 20 011-5596 c106 A-B8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-B7 E5 0.05 175 pap, met, tub 20 011-5596 c106 A-B7 E5 0.05 175 pap, met, tub 20 011-5596 c106 A-B7 E5 0.05 175 pap, met, tub 20 011-5596 c106 A-B7 E5 0.05 175 pap, met, tub 20 011-5596 c106 A-B7 E5 0.05 175 pap, met, tub 20 011-5596 c106 A-B7 E5 0.05 175 pap, met, tub 20 011-5596 c106 A-B7 E7 L1 680p 350 mic,met,tub (in T13) 5 012-3954 c108 A-E7 L1 680p 350 mic,met,tub (in T13) 5 012-3954 c108 A-E7 L1 680p 350 mic,met,tub (in T13)		•		:				
C64 B-D8 L3 0.001 350 mic,met,rect (in T10) 5 012-4701 C65 B-M6 E4 0.1 200 pap, met, tub 20 011-9827 C66 B-M6 D4 0.05 175 pap, met, tub 20 011-5596 C67 B-N5 K2 0.001 350 mic,met,rect 5 012-4701 C68 B-N6 D4 0.05 175 pap, met, tub 10 011.5596 C69 C-P3 C3 100p 750 mic,foil,rect,met 20 012-3165 C70 C-Q4 B2 0.1 200 pap, met, tub 25 011-9827 C71 C-R4 B2 0.05 175 pap, met, tub 20 011-5596 C72 C-R3 K3 470p 750 mic,met,rect (in T12) 5 012-3948 C73 C-S3 K3 0.001 350 mic,met,rect (in T12) 5 012-4701 C74 C-R4 B4 0.05 175 pap, met 20 011-5596 C75 C-T2 A4 97.2p C76 C-T3 B4 56p C77 C-U2 B2 0.001 350 mic,met,rect 5 012-4701 C78 C-V2 B2 0.001 350 mic,met,rect 5 012-4701 C79 C-V3 B2 0.001 350 mic,met,rect 5 012-4701 C79 C-V3 B2 0.001 350 mic,met,rect 5 012-4701 C79 C-V3 B2 0.001 350 mic,met,rect 5 012-4701 C80 C-W3 B2 0.1 200 pap, met 25 011-9827 C83 C-P6 C3 100p 750 mic,foil,rect,met 20 012-3165 C84 C-P8 B4 0.1 200 pap, met, tub 25 011-9827 C85 C-Q8 B4 0.1 200 pap, met, tub 25 011-9827 C86 C-Y6 A2 50 70 elect, tantalum 20 C70 A-B8 F4 0.1 200 pap, met, tub 25 011-9827 C101 A-B8 F4 0.1 200 pap, met, tub 25 011-9827 C102 A-B8 F4 0.05 175 pap, met, tub 25 011-9827 C103 A-B7 F5 0.001 350 mic,met,rect 5 012-4701 C104 A-D8 E5 0.1 200 pap, met, tub 25 011-9827 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 C107 A-E7 L1 680p 350 mic,met,tub (in T13) 5 012-3954 C108 A-E7 L1 680p 350 mic,met,tub (in T13) 5 012-3954			•	•				
C65 B-M6 D4 0.05 175 pap, met, tub 20 011-9827 C66 B-M6 D4 0.05 175 pap, met, tub 20 011-5596 C67 B-N5 K2 0.001 350 mic,met,rect 5 012-4701 C74 C-R4 B2 0.01 350 mic,met,rect (in T12) 5 012-3954 C73 C-S3 K3 0.001 350 mic,met,rect (in T12) 5 012-3982 C74 C-R3 B4 0.05 175 pap, met ub 20 011-5596 C75 C-T2 A2 B2 0.01 350 mic,met,rect (in T12) 5 012-3904 C78 C-V2 B2 0.001 350 mic,met,rect 5 012-4701 C79 C-V3 B2 0.01 200 pap, met ub 25 011-9827 C83 C-P6 C3 100p 750 mic,foil,rect,met 20 012-3165 C84 C-P8 B4 0.1 200 pap, met, tub 25 011-9827 C85 C-Y6 A2 50 70 elect, tantalum 20 Z1/ZA 56613 C100 A-A8 F4 0.1 200 pap, met, tub 25 011-9827 C101 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C103 A-B7 F5 0.001 350 mic,met,rect 5 012-4701 C104 A-B8 E5 0.1 200 pap, met, tub 20 011-5596 C103 A-B7 F5 0.001 350 mic,met,rect 5 012-4701 C104 A-B8 E5 0.1 200 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 C106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 C106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596				•				
C66 B-M6 D4 0.05 175 pap, met, tub 20 011-5596 C67 B-N5 K2 0.001 350 mic_met_rect 5 012-4701 pap, met, tub 10 011.5596 C69 C-P3 C3 100p 750 mic_foil_rect_met 20 012-3165 C70 C-Q4 B2 0.05 175 pap, met, tub 25 011-9827 C71 C-R4 B2 0.05 175 mic_met_rect (in T12) 5 012-4701 C74 C-R3 K3 470p 750 mic_met_rect (in T12) 5 012-4701 C74 C-R4 B4 0.05 175 pap, met 20 011-5596 C75 C-T2 A4 97.2p var, air dielectric 016-0006 C77 C-U2 B4 22p 750 mic_met_rect 5 012-4701 C79 C-V3 B2 0.001 350 mic_met_rect 5 012-3904 C79 C-P6 C3 100p 750 mic_foil_rect_met 25 011-9827 C79 C76 C-Q8 B4 0.1 200 pap, met tub 25 011-9827 C76 C76 C-Q8 B4 0.1 200 pap, met, tub 25 011-9827 C76 C76 C-Y6 A2 50 70 elect_t_tantalum 20 Z1/ZA_56613 C700 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C703 A-B7 F5 0.005 175 pap, met, tub 20 011-5596 C704 A-B8 D5 0.05 175 pap, met, tub 20 011-5596 C704 A-B8 D5 0.05 175 pap, met, tub 20 011-5596				;				
C67 B-N5 K2 0.001 350 mic_met_rect 5 012-4701 pap, met tub 10 011.5596 c69 C-P3 C3 100p 750 mic_foil_rect_met 20 012-3165 c70 C-Q4 B2 0.1 200 pap, met, tub 25 011-9827 c71 C-R4 B2 0.05 175 pap, met, tub 20 014-5596 c72 C-R3 K3 0.001 350 mic_met_rect (in T12) 5 012-3948 c73 C-S3 K3 0.001 350 mic_met_rect (in T12) 5 012-4701 c74 C-R4 B4 0.05 175 pap, met 20 011-5596 c75 C-T2 A4 97.2p var, air dielectric - 016-0006 c76 C-T3 B4 56p c77 C-U2 B4 22p 750 mic_met_rect 5 012-4701 c79 C-V3 B2 0.001 350 mic_met_rect 5 012-4701 c80 C-W3 B2 0.01 200 pap, met 25 011-9827 c83 C-P6 C3 100p 750 mic_foil_rect_met 20 012-3165 c84 C-P8 B4 0.1 200 pap, met, tub 25 011-9827 c86 C-Y6 A2 50 70 elect_t_tantalum 20 Z1/ZA.56613 c100 A-A8 F4 0.1 200 pap, met, tub 25 011-9827 c101 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 c103 A-B7 F5 0.001 350 mic_met_rect 5 012-4701 c104 A-D8 E5 0.1 200 pap, met, tub 20 011-5596 c105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 c106 A-E7 L1 680p 350 mic_met_tub (in T13) 5 012-3954 c108 A-E7 L1 680p 350 mic_met_tub (in T13) 5 012-3954 c108 A-E7 L1 680p 350 mic_met_tub (in T13) 5 012-3954 c108 A-E7 L1 680p				•				
C68 B-N6 D4 0.05 175 pap, met, tub 10 011.5596 C69 C-P3 C3 100p 750 mic, foil, rect, met 20 012-3165 C70 C-Q4 B2 0.05 175 pap, met, tub 25 014-9827 C71 C-R4 B2 0.05 175 pap, met, tub 20 011-5596 C72 C-R3 K3 470p 750 mic, met, rect (in T12) 5 012-3948 C73 C-S3 K3 0.001 350 mic, met, rect (in T12) 5 012-4701 C74 C-R4 B4 0.05 175 pap, met C75 C-T2 A4 97.2p var, air dielectric - 016-0006 C76 C-T3 B4 56p C77 C-U2 B4 22p 750 mic, met, rect 5 012-3904 C78 C-V2 B2 0.001 350 mic, met, rect 5 012-4701 C80 C-W3 B2 0.001 350 mic, met, rect 5 012-4701 C80 C-W3 B2 0.01 200 pap, met 25 011-9827 C83 C-P6 C3 100p 750 mic, foil, rect, met 20 012-3165 C84 C-P8 B4 0.1 200 pap, met, tub 25 011-9827 C85 C-Q8 B4 0.1 200 pap, met, tub 25 011-9827 C86 C-V6 A2 50 70 elect, tantalum 20 Z1/ZA 56613 C100 A-A8 F4 0.1 200 pap, met, tub 20 011-5596 C102 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C103 A-B7 F5 0.001 350 mic, met, rect 5 012-4701 C104 A-D8 E5 0.1 200 pap, met, tub 20 011-5596 C105 A-D7 E5 0.05 175 pap, met, tub 20 011-5596 C106 A-D8 D5 0.05 175 pap, met, tub 20 011-5596 C107 A-E7 L1 680p 350 mic, met, tub (in T13) 5 012-3954 C108 A-E7 L1 680p 350 mic, met, tub (in T13) 5 012-3954		•				,		•
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C70								
C71								
C72				;				
C73	C72	C-R3	К3	470p				
C74	C73	C - S3	K3	0.001	350			
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C78 C-V2 B2 0.001 350 mic,met,rect 5 012-4701 C79 C-V3 B2 0.001 350 mic,met,rect 5 012-4701 C80 C-W3 B2 0.1 200 pap, met 25 011-9827 C83 C-P6 C3 100p 750 mic,foil,rect,met 20 012-3165 C84 C-P8 B4 0.1 200 pap, met, tub 25 011-9827 C85 C-Q8 B4 0.1 200 pap, met, tub 25 011-9827 C86 C-Y6 A2 50 70 elect, tantalum 20 21/ZA 56613 C100 A-B8 F4 0.05 175 pap, met, tub 25 011-9827 C101 A-B8 F4 0.05 175 pap, met, tub 20 011-5596 C103 A-B7 F5 0.001 350 mic,met,rect 5 012-4701 C104<			:					
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C108 A-E7 L1 680p 350 mic, met, tub (in T13) 5 012-3954	•	1	1					
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1			D5	0.1	200	pap, met, tub	25	011-9827

RESTRICTED

TELECOMMUNICATIONS E 612 Part 2

Q - 4	Compo Loca		Value	Dotino	Type and limit		Part No	
Cct ref	Circuit Fig 2509	Layout Fig 2 51 1	value (μF)	Rating (V)	(±°/o)		(z/5910-99-)	
				CAPA	CITORS - (cont)			
C110 C111 C112 C113 C114 C115 C116 C117 C118 C119 C120 C121 C122 C123 C124 C125 C126 C127	A-G7 A-G7 A-H6 A-H6 A-K6 A-K6 A-K6 A-K6 A-K6 A-K6 A-K8 B-L8 B-L8 B-L8 B-L8 B-L8	D5 D5 K1 K1 C5 C4 J1 K2 C4 D5 C4	0.05 0.05 0.05 220p 470p 470p 100p 100p 0.1 68p 68p 0.01 1 0.001 0.001 0.05 0.05 0.05	175 175 750 350 350 750 750 200 750 200 275 350 350 175 175 200 750	pap, met, tub pap, met, tub mic, met, rect (in T14) mic, met, rect (in T14) mic, met, rect mic, foil, rect, met mic, foil, rect, met pap, met, tub mic, met, rect (in T15) mic, met, rect (in T16) pap, met, tub elect, al, tub, met mic, met, rect (in T17) mic, met, rect (in T17) pap, met, tub pap, met, tub pap, met, tub pap, met, tub mic, foil, rect, met	20 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	011-5596 011-5596 012-3936 110-2284 110-2284 012-3924 012-3924 011-9827 012-3918 012-3918 011-503 011-503 012-4701 012-4701 011-5596 011-9827 012-3165	
Cct ref	Compo Loca Circuit Fig 2509	Layout Fig 2511			Description .		Part No	
					INDUCTORS			
L1 L2	A-E3 A-E3	L5) L5)	Part of	Γ1				
L3 L4	А-H2 А-H2	K5) K5)	Part of '	T2				
L5 L6	A-K2 A-K3	K5 J5	7	Part of T3 Part of T4				
L7 L8	В-М2 Б-М2	К4) К4)	Part of '	T5				
L9 L10	л - В5 Л - В5	N1) N1)	Part of	16				
L11	B - E5	E3			2.1/16 in. high x 1.13/1 wd (containing C49,C50,L		Z1/Z A 56775	

Cot	Component Location			
Cct ref	Circuit Fig 2509	Layout Fig 2511	Description	Part No
			INDUCTORS - (cont)	
L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24 L25 L26 L27 L28 L29 L30 L31	B-G5 B-D8 B-D8 B-N5 C-S3 C-T3 A-E7 A-H6 A-K7 B-M7/8 B-M7/8 A-L2 A-L3 A-L6 A-L7	D3 C3 L3) C4 K3) K4 E1) K1 K1 K2) K5 J5 K1 J1	R.F., screened (containing C55, C56, L12) R.F., screened (containing C60, L13) Part of T10 R.F., screened, (containing C67, L16) Part of T12 R.F., 1200 turns, unscreened Part of T13 Part of T14 Part of T15 Part of T16 Part of T3 Part of T4 Part of T4 Part of T15 Part of T15 Part of T17	Z1/ZA 56775 Z1/ZA 56820 Z1/ZA 56820 Z1/ZA 56436
		<u> </u>	TRANSFORMERS	
T1	A-E3	L2/L5	I.F. 103kc/s, shielded (containing R13,R14,	
Т2	A-H2	C2/K5	C8, C9, L1, L2) I.F. 103kc/s, shielded, (containing R20, R21, R22, C13, C14, C15, L3, L4)	Z1/ZA 55791 Z1/ZA 55795
Т3	A-K2	B2/K5	I.F. 100kc/s, shielded, (containing C19, L5, L28)	Z1/ZA 55792
T4	A-K3	B2/J5	L6, L29)	Z1/ZA 55792
Т5 Т6	B-M2 A-A5	C 2/K4 F5/N1	I.F. 100kc/s, shielded, (containing C23, C24, L7, L8) I.F. 103kc/s, shielded, (containing R50, C41, L9, L10)	Z1/ZA 56446 Z1/ZA 55790

	Compo Loca	nent tion		
Cct ref	Circuit Fig 2509	Layout Fig 2511	Description	Part No
			TRANSFORMERS - (cont)	
T7 T8 T9 T10 T11 T12 T13 T14 T15 T16	B-E5 B-G5 B-J5 B-D8 B-N5 C-S3 A-E7 A-H6 A-K5 A-K7 B-M7		See L12 See L13 I.F. 100kc/s, shielded (containing C64, L14, L15) See L16 I.F. 100kc/s, shielded (containing C72, C73, L17, L18) I.F. 97kc/s, shielded (containing R142, R143, C107, L20, L21) I.F. 97kc/s, shielded (containing R149, R150, R151, C112, C113, C114, L22, L23) I.F. 100kc/s, shielded (containing C118, L24, L30) I.F. 100kc/s, shielded (containing C119, L25, L31) I.F. 100kc/s, shielded (containing C122, C123,	
			L26, L27) FILTERS, BANDPASS	Z1/ZA 56446
FIL1 FIL2 FIL3	A-B3 B-C5 A-B7	E2/M5 F4/N2 E5/M1		Z1/ZA 56063 Z1/ZA 56066 Z1/ZA 56064
			SWITCHES, ROTARY WAFER	
SA SB SC SE	C-T5 C-Z1 C-W8 C-Y5	M7 J7 J7 K7	2-pole, 9-posn, non shorting 2-wafer SRBP 3-pole, 2-posn, non shorting single wafer SRBP 4-pole, 7-posn, non shorting 2-wafer SRBP 2-pole, 4-posn, shorting single wafer SRBP	Z1/ZA 56339 Z1/ZA 56344 Z1/ Z A 56355 Z1/5930-99 -949-5617

TELECOMMUNICATIONS
E 612
Part 2

RESTRICTED

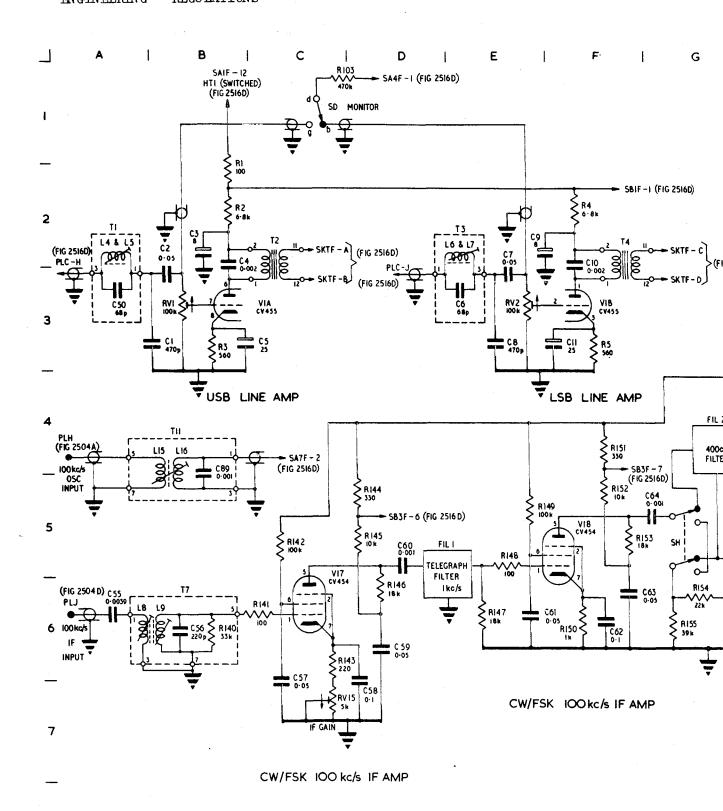
ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

Cct	Compo Loca	nent tion		Part No
ref	Circuit Fig 2509	Layout Fig 2511	Description	(z/5960-99-)
			VALVES, ELECTRONIC	
V1 V2 V3 V4 V5 V6 V7 V8 V10 V11 V12 V13 V14 V15 V16 V17 V18 V19 V20 V21 V22	A-A3 A-F2 A-F2 A-V2 B-L5 B-F5 B-F5 B-K5 B-L2 C-V3 C-P7 A-F6 A-N6 B-L7	F2/N5 D2/M5 D2/L5 C2/K5 B2/J5 C3/K4 F3/N3 D3/M3 D3/L3 C4/K3 D4/K3 D5/M1 D5/K1 D5/K1 C5/K1 C5/K2	CV4009 (CV454) (Types in brackets CV4009 (CV454) may be found in CV4009 (CV454) equipments) CV4009 (CV454) CV4010 (CV850) CV4009 (CV454) CV4010 (CV850) CV4007 (CV283) CV4007 (CV283) CV4009 (CV454)	000-4009 000-4009 000-4009 000-4009 000-4009 000-4009 000-4009 000-4010 000-4010 000-4010 000-4007 000-4009 000-4009 000-4009 000-4009 000-4009 000-4009
			PLUGS AND SOCKETS	
PLA SKT-B PLC PLD	C-BB 1,2,3 C-BB 5,6,7 B-A8	В7 В7 С7 .F 7	Plug, elect, M4, brass, fixed female shell, size 2/0, 12-pole Socket, elect, M4, fixed female shell, size 2/0, 12-pole Plug, elect, r.f., fixed female shell, st. entry, single pole, style PR4D Plug, elect, r.f., fixed female shell, st.	Z1/5935-99 -911-6993 Z1/5935-99- -911-4461 Z/5935-99 -011-9484 Z/5935-99
_			entry, single pole, style PR4D MISCELLANEOUS	-011-9484
		-		74 /73 10710
M1	C-V7	L7	Core, adjustable tuning, iron dust, 1.176 in. lg, 0.21 in. dia, 8 BA thread pitch Meter, arbitrary scale, moving coil, panel type, 2.012 in. dia, 50µA movement, scaled 0 to 10, c/w external shunt, hermetically sealed	Z1/Zû 42749 Z4/ZD 05487
XL1	C-U3	В3	Crystal, unit, quartz, 99.925kc/s	7



Fig 2515 - Telegraph unit, view of front panel





TE612 P2

8

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Fig 2516a - Telegraph unit, circuit of third oscillator, a.g.c.



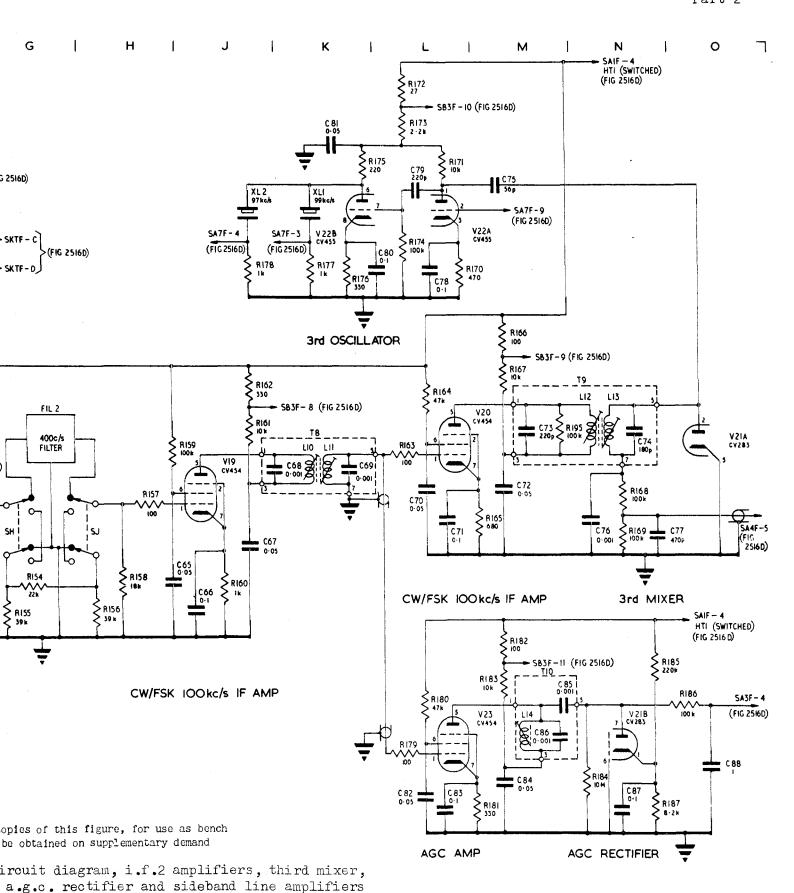


Fig 2516a Page 1047





Port 2

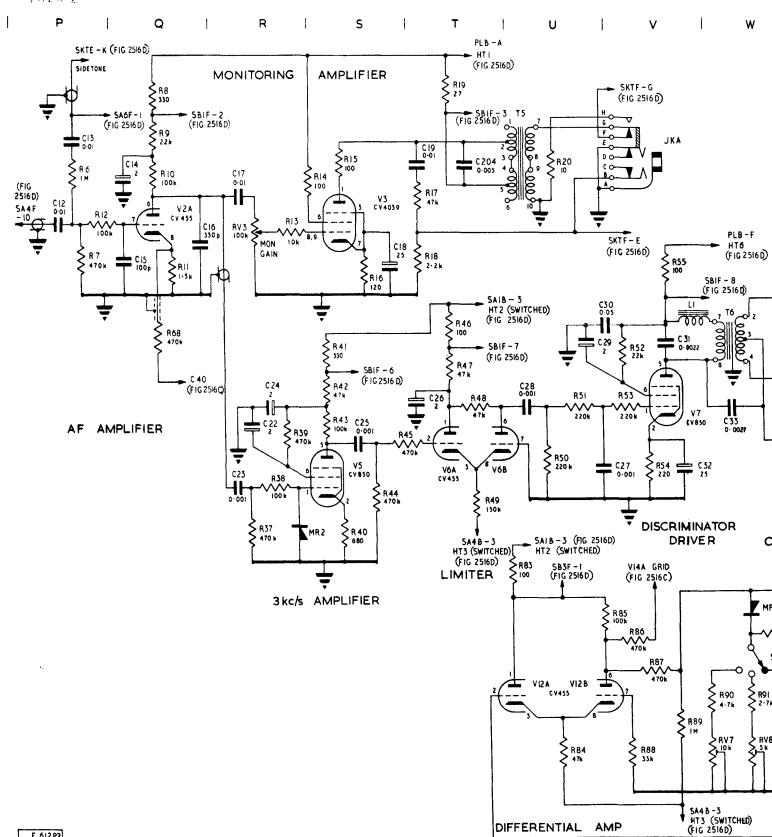
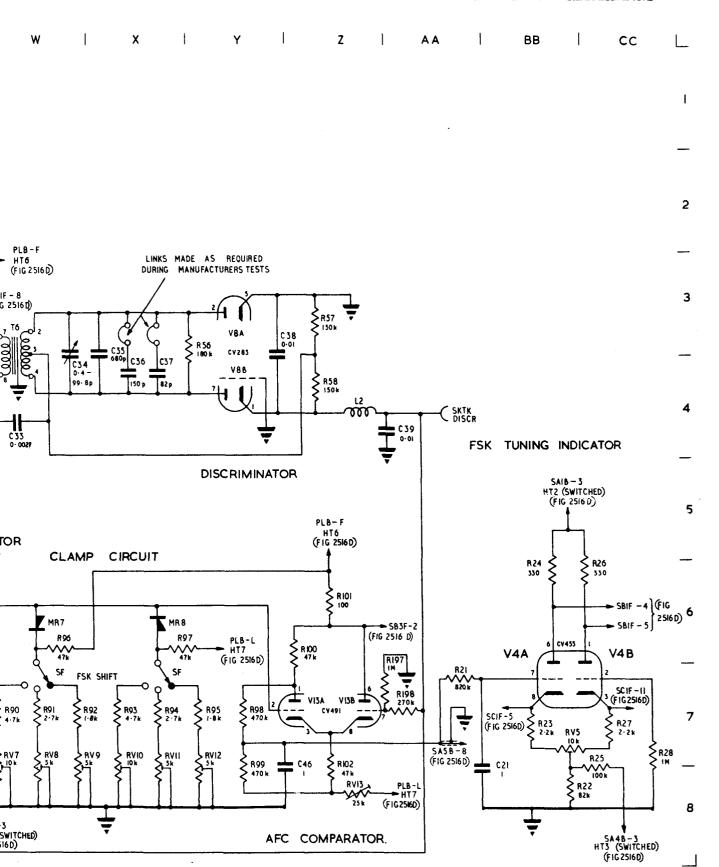


Fig 2516b - Telegraph unit, circuit diagram, 3kc/s a tuning indicator stage, a.f.c. comparato

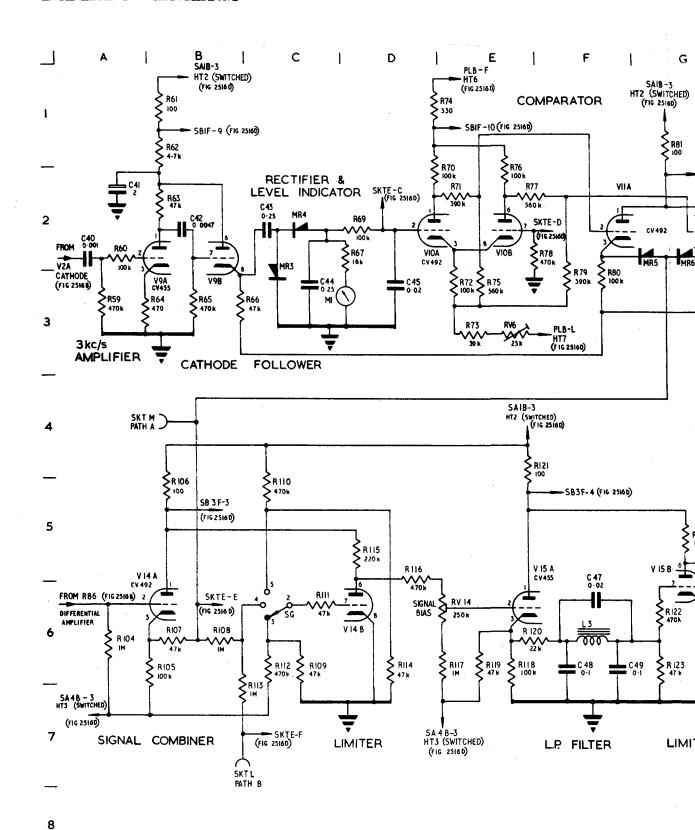
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T E 612 PZ





3kc/s amplifier, f.s.k. discriminator and mparator and a.f. and monitoring amplifiers figure, for use as bench on supplementary demand.



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Fig 2516c - Telegraph unit, circuit signal combiner, a.g.c.



E 612

Part 2

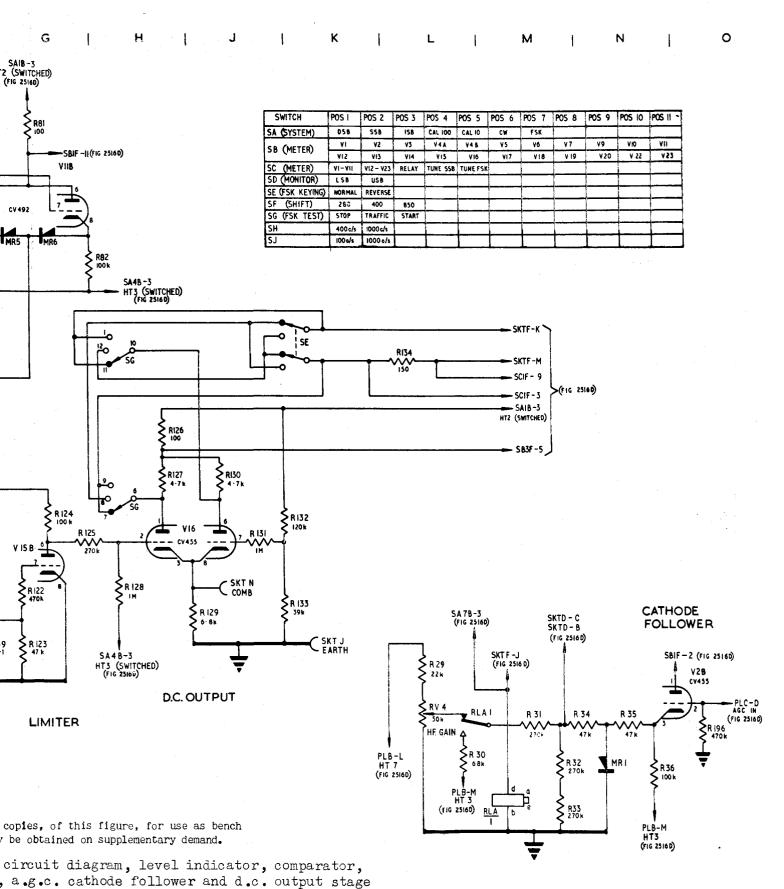


Fig 2516c Page 1049





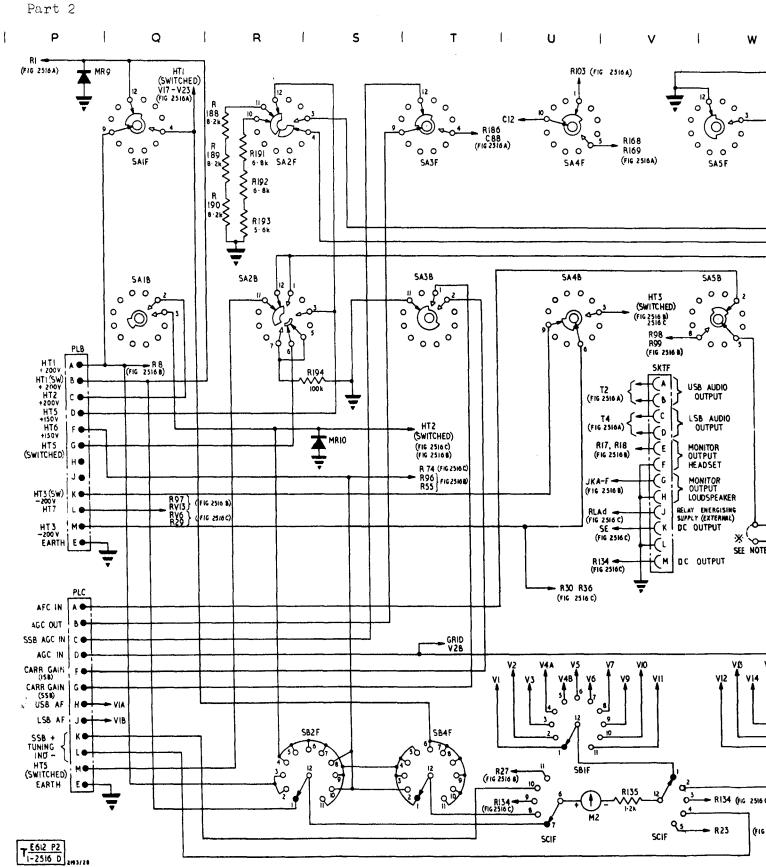
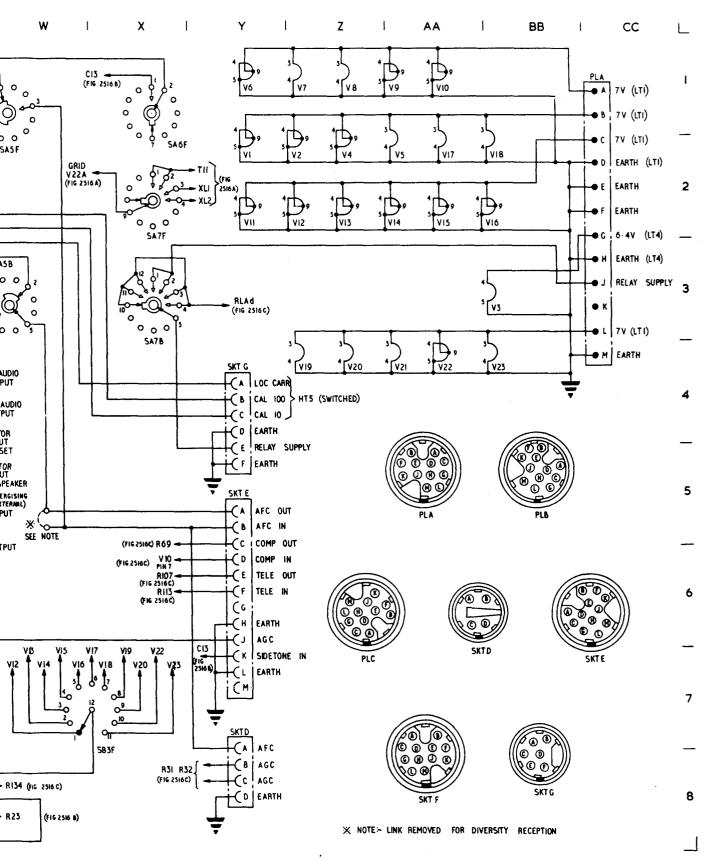


Fig 2516d - Telegraph unit, circuit diagram, plugs,

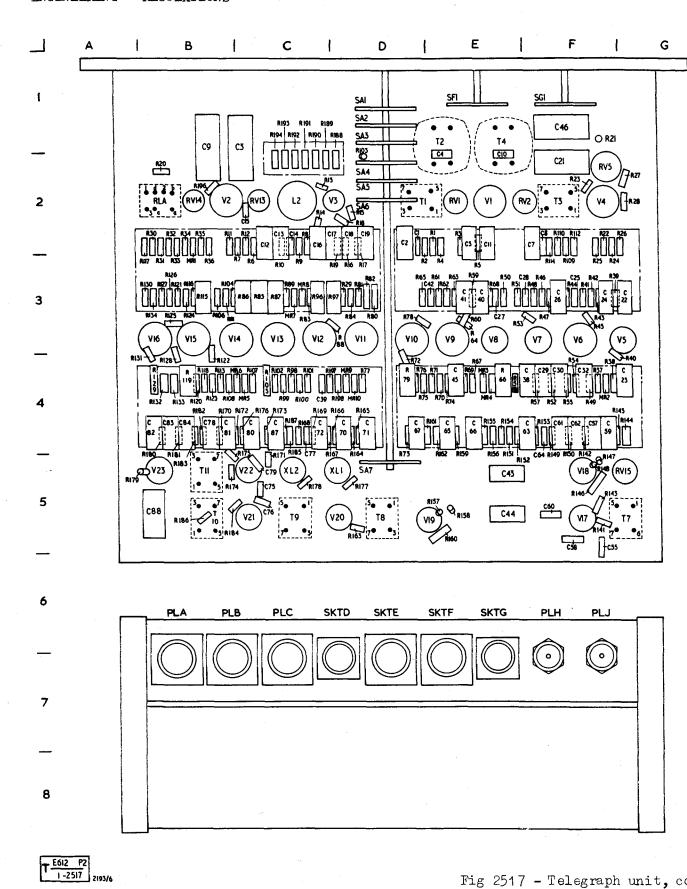
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plugs, sockets, switching and valve heaters

figure, for use as bench on supplementary demand.



Issue 1, 16 May 1966

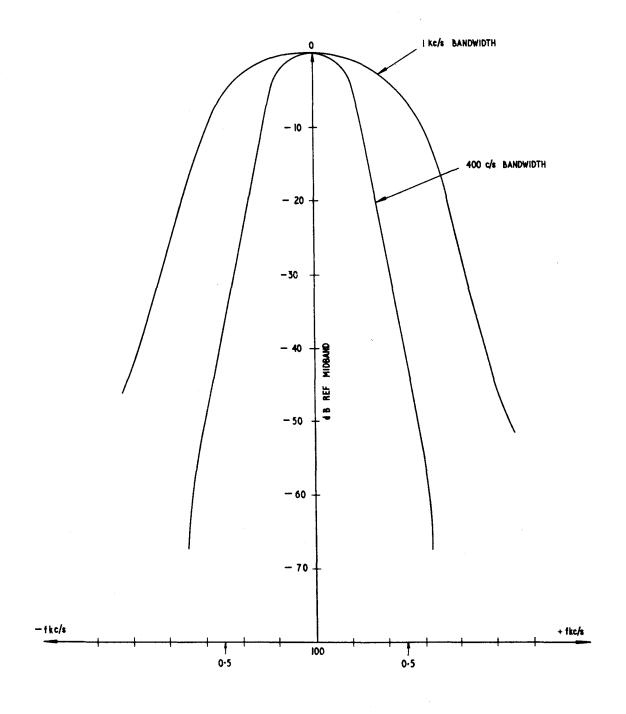


Fig 2518 - Telegraph unit, response curves, telegraph filters

E 612 Part 2

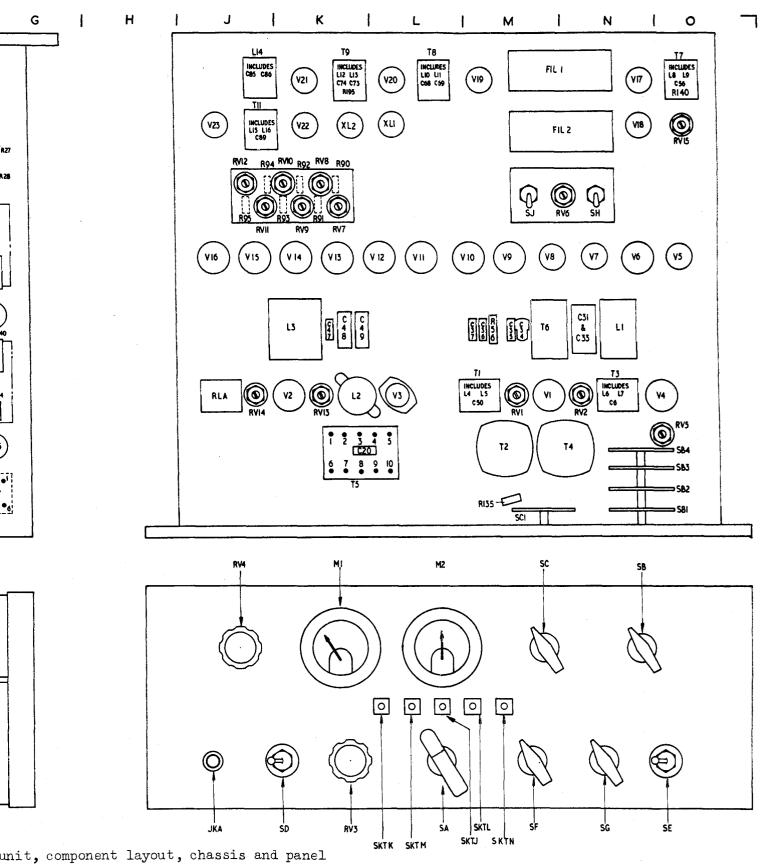


Fig 2517 Page 10**5**1



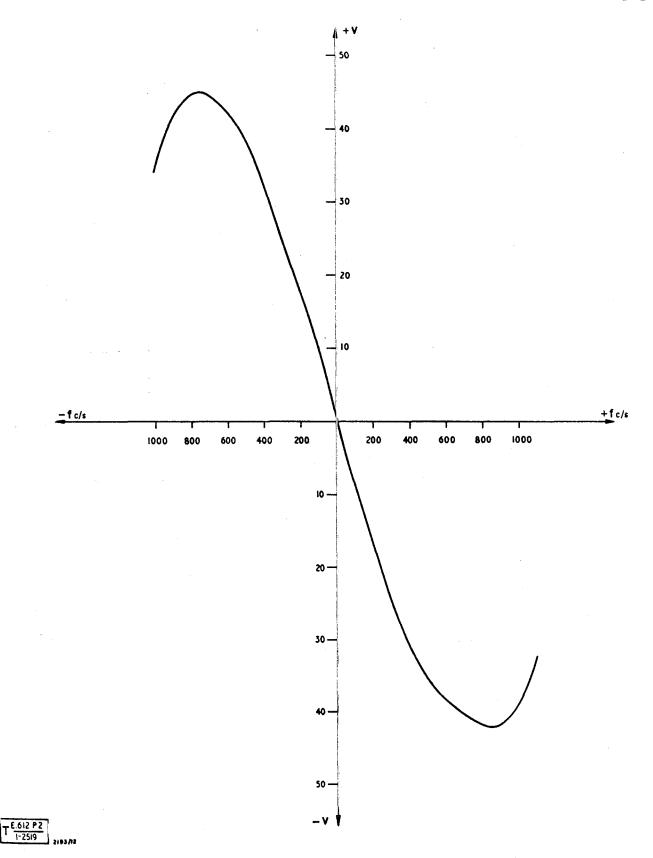


Fig 2519 - Telegraph unit, response curve, f.s.k. discriminator

Part 2

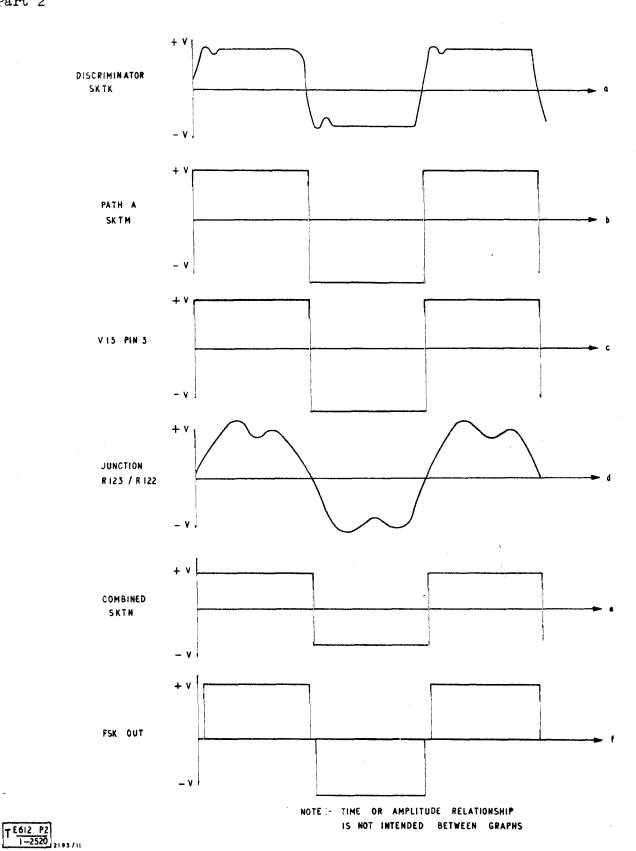


Fig 2520 - Telegraph unit, waveforms, f.s.k. circuits

Table 2503 - Telegraph unit, component schedule

Note: This table is current at the time of issue only. Use I.S.P.L., when published, to demand stores

0.1	Compo Loca	nent tion		Dotin	M		D N
Cct ref	Circuit Fig 2516	Layout Fig 2517		Rating (W)	Type and limit (±°/°)		Part No (Z/ 5905-99-)
				RESISTO	rs, fi x ed		
R1	A- B2	E2	100	1/8	comp, ins, gd 1	5	021-9040
R2	∆- B2	E2	6.8k	1/4	comp, ins	10	022-2110
R3	A-B3	E 2	560	1/4	comp, ins	10	022 – 1206
R4	A-F2	E2	6.8k	1/4	comp, ins	10	022-2110
R5	A-F3	E2	560	1/4	comp, ins	10	022-1206
R6	B-P2	C2	1M	1/4	comp, ins	10	022-3164
R7	B - P3	C2	470k	1/4	comp, ins	10	022-3122
R8	B-Q1	C2	330	1/8	film, ins	5	021-9076
R9	B-Q1	C2	22k	1/4	comp, ins	10	022-2173
R10	B-Q2	C2	100k	1/4	comp, ins	10	022-3037
R11	B-Q3	B2	1.5k	1/4	comp, ins	10	022-2026
R12	B-P2	02	100k	1/4	comp, ins	10	022-3038
R13	B-R2	C2	10k	1/4	comp, ins	10	022-2130
R14	B-S2	C2	100	1/4	comp, ins	10	022-1109
R15	B-S2	D2	100	1/4	comp, ins	10	022-1109
R16	B - S3 B - T2	D2 D2	120 47k	1/2 1/2	comp, ins	10 10	022 - 1123 022 -22 16
R17 R18	B-T3	D2	2.2k	1/4	comp, ins	10	022-2047
R19	B-T1	D2 D2	2 • Z.K. 27	1/4	comp, ins film, ins	5	021-9012
R20	B-U2	B2	10	3	w.w. vit, enam	5	011-3272
R21	B-AA7	F1	820k	1/4	comp, ins	10	022-3155
R22	B-BB8	F2	82k	1/4	comp, ins	10	022-3029
R23	B-BB7	F2	2.2k	1/4	comp, ins	10	022-2046
R24	B-BB6	F2	330	1/8	film, ins	5	021-9076
R25	В-ВВ8	F 2	100k	1/2	comp, ins	10	022-3039
R26	B-BB6	G2	330	1/8	film, ins	5	021-9076
R27	B-CC7	G2	2.2k	1/4	comp, ins	10	022-2046
R28	B-CC7	G2	1M	1/4	comp, ins	10	022-3163
R29	C-L7	D3	22k	1/4	comp, ins	10	022-2173
R30	C-L7	В2	68k	1/2	comp, ins	10	022-3018
R31	C-M7	B2	270k	1/2	comp, ins	10	022 – 3093
R32	C-M7	B2	270k	1/2	comp, ins	10	022 -3 09 3
R33	C-M8	В2	270k	1/4	comp, ins	10	022 –3 092
R34	C-M7	В2	47k	1/4	comp, ins	10	022 -221 5
R35	C-N7	В2	47k	1/4	comp, ins	10	022-2215
R36	C-N7	В2	100k	3/4	comp, ins	10	022 - 3296
R37	B-R5	F4	470k	1/4	comp, ins	10	022-3122
R38	B-R5	G4	100k	1/4	comp, ins	10	022-3038
R39	B-R4	G3	470k	1/4	comp, ins	10	022 –312 2
R40	B-S5	G4	680	1/4	comp, ins	10	022-1215
R41	B-54	F3	330	1/8	film, ins	5	021-9076
R42	B - S4	F3	47k	1/4	comp, ins	10	022-2215

Cot		Component Location Value Rating Type and limit		4	Dowt No.		
Cct ref	Circuit Fig 2516	Layout Fig 2517	(Ω)	(W)	(\pm°/\circ)		Part No (Z/5905-99-)
			RES	SISTORS,	FIXED - (cont)		
R43	B <i>-</i> S4	F3	100k	1/2	comp, ins	10	022 – 3039
R44	B -S 5	F3	470k	1/4	comp, ins	10	022-3122
R45	B-S5	F3	470k	1/4	comp, ins	10	022-3121
R46	B-T3	F3	100	1/8	comp, ins, gd 1	5	021-9040
R47	B-T4	F3	47k	1/2	comp, ins	10	022-2216
R48	B-T4	F3	47k	1/2	comp, ins	10	022-2216
R49	B-T5	F4	1 50k	1/2	comp, ins	10	022 -3 060
R50	B - U5	E3	220k	1/4	comp, ins	10	022 – 3080
R51	B-U4	E 3	200k	1/4	comp, ins	10	022 –3 080
R52	B-V4	F4	2 2k	1/2	comp, ins	10	022-2174
R53	B-V4	F 3	220k	1/4	comp, ins	10	022-3079
R54	B-V5	F4	220	1/4	comp, ins	10	022 -11 52
R55	B-V3	F4	100	1/8	comp, ins, gd 1	5	021-9040
R56	B-X3	М3	180k	1/4	film, ins	5	021 - 9275
R57	B-Z3	F4	150k	1/4	film, ins	5	021-9296
R58	B-Z4	E4	150k	1/4	film, ins	5	021 -9 296
R59	C-A3	E3	470k	1/8	film, ins	5	021-9304
R60	C-12	E3	100k	1/4	comp, ins	10	022-3037
R61	C-B1	E3	100	1/8	comp, ins, gd 1	5	021-9040
R62	C <i>-</i> B1	E3	4.7k	1/4	comp, ins	10	022-2089
R63	C-B2	E3	47k	1/2	comp, ins	10	022-2216
R64	C-A3	E3	470	1/4	comp, ins	10	022-1193
R65	C-B3	D3	470k	1/4	comp, ins	10	022-3122
R66	C-B3	E4	47k	1	comp, ins	10	011-1491
R67	C-D2	比 4	18k	1/8	comp, ins, gd 1		021-9202
R68	B-Q3	E 3	470k	1/8	film, ins	5 5	021-9304
R69	C-D2	E4	100k	1/4	comp, ins	10	022-3028
R70	C-D2	E4	100k	1/2	film, ins	2	021-9844
R71	C-E2	E4	390k	1/2	film, ins	2	021-9924
R72	C-E3	D4	100k	1/2	comp, ins	10	022-3039
R73	C-E3	D4	39k	1/4	comp, ins	10	022 - 2206
R74	C-D1	E4	330	1/8	film, ins	5	021-9076
R75	C-E3	C4	560k	1/2	film, ins	2	Z1/5905-99-
	_		:		•		947-4330
R76	C -E1	D4	100k	1/2	film, ins	2	021-9844
R77	C-E2	D4	560k	1/2	film, ins	2	Z1/5905-99- 947 - 4330
R78	C-F2	D3	470k	1/4	comp, ins	10	022-3121
R79	C-F3	D4	390k	1/2	film, ins	2	021-9924
R80	C-F3	D3	100k	3/4	comp, ins	10	022-3296
R81	C-G1	D3	100	1/8	comp, ins, gd 1	5	021-9040
R82	C-G3	:	100k	3/4	comp, ins	10	022 - 3296
				-/		. ~	

Table 2503 - (cont)

	Compo Loca	nent tion		D 4:	ng Type and limit (±°/o)		Dont No.	
Cct ref	Circuit Fig 2516	Layout Fig 2517	Value (Ω)	Rating (W)			Part No (Z/5905-99-)	
			RES	SISTORS,	FIXED - (cont)			
R83	в-т6	C3	100	1/8	comp, ins, gd 1	5	021-9040	
R84	в - U8 в - U6	D3 C3	47k 100k	1/2	comp, ins film, ins	10	011-1491 021-9258	
R85 R86	B - V6		470k	1/2	film, ins	5	021-9296	
R87	B-V7	C 3 C 3	470k 470k	1/2	film, ins	5 5	021-9306	
R88	B-U8	D3	33k	1/4	comp, ins	10	021-9500	
R89	B-V7	C3	1M	1/4	film, ins		021-9322	
R90	B-V7	C3	4.7k	1/4	film, ins	55555555555	021-9161	
R91	B-W7	K2	2.7k	1/4	film, ins	5	021-9143	
R92	B-W7	K2	1.8k	1/4	film, ins	5	021-9131	
R93	В-Х7	K2	4.7k	1/4	film, ins	5	021-9161	
R94	B-X7	J2	2.7k	1/4	film, ins	5	021 - 91 43	
R95	B-X7	J2	1.8k	1/4	film, ins	5	021-9131	
R96	B-W6	C3	47k	1/2	film, ins	5	. 021-9234	
R97	в-х6	D3	47k	1/2	film, ins	5	021 -9234	
R98	B-Y7	C4	470k	1/4	film, ins	5	021-9305	
R99	B-Y8	C4	470k	1/4	film, ins		021-9305	
R100	B-Y6	C4	47k	1/4	comp, ins	10	022-2215	
R101	B-Z6	C4	100	1/8	comp, ins, gd 1	5	021-9040	
R102	B-Z8	C4	47k	1/4	comp, ins	10	022-2215	
R103	A-C1	D2	470k	1/4	comp, ins	10	022-3121	
R104	C-A6	B3	1M	1/4	film, ins	5	021 -9322	
R105 R106	C-A6 C-B5	C4 B3	100k 100	3/4 1/8	comp, ins	10	022-3296	
R107	C-B6	C4	47k	1/4	comp, ins, gd 1 comp, ins	5 10	021-9040 022-22 15	
R107	C-B6	B4	1M	1/4	film, ins	.5	021-9322	
R109	1	F2	47k	1/4	comp, ins	10	022-2215	
R110		F2	470k	1/4	comp, ins	10	022-3122	
R111	C-C6	В3	47k	1/4	comp, ins	10	022-2215	
R112		F2	470k	1/4	comp, ins	10	022-3122	
R113	C <i>-</i> B7	B4	1M	1/4	film, ins	5	021-9322	
R114	C-D6	F2	47k	1/4	comp, ins	10	022-2215	
R115	C <i>-</i> D5	В3	220k	1/2	film, ins		021 - 9282	
R116	C-D5	В3	470k	1/2	film, ins	5 5 5	021 - 9306	
R117	C-D6	B2	1M	1/4	film, ins		021-9322	
R118	C-E6	BU ₊	100k	1/4	comp, ins	10	022 –3 038	
R119	C-E6	B4	47k	1	comp, ins	10	011-1491	
R1 20	C-E6	B4	22k	1/4	comp, ins	10	022-2173	
R1 21	C-E4	B3	100	1/8	comp, ins, gd 1	5	021 - 9040	
R122		B4 B4	470k	1/4	comp, ins	10	022-3121	
R1 23 R1 24		B3	47k 100k	1/4	comp, ins	10 5	022 - 2215 021 - 9258	
11124	0-47	: <i>יי</i> א	1002	1 1/4	i rrime ino	<i></i>	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	

Part 2

Table 2503 - (cont)

Cot	Compo Loca		Value	Rating	Type and limit		Don't No.
Cct	Circuit Fig 2516	Layout Fig 2517	(Ω)	(W)	(±°/0)	10	Part No (2/5905-99-)
	<u> </u>		RESIS	STORS, FI	XED - (cont)		
R1 25	C-G5	В3	2 70k	1/4	film, ins	5	021 -9287
R126	C-H4	В3	100	1/8	comp, ins, gd 1	5	021 -9040
R127	C-H5	В3	4.7k	1/4	comp, ins	10	022-2089
R128	С-Н6	В4	1M	1/4	film, ins	5	021-9322
R129	С-Н6	B4	6.8k	3/4	comp, ins	10	022-2239
R130	C-J5	В3	4.7k	1/4	comp, ins	10	022-2089
R1 31	C-J5	B4	1 M	1/4	comp, ins	10	022-3163
R132	C-J5	B4	120k	1/2	comp, ins	10	022-3051
R1 33	C-J6	B4	39k	1/4	comp, ins	10.	022-2206
R134	C-L4	B3	150	1/8	film, ins	5	021 -9052
R1 35	D-V8	M5	1 •2k	1/4	film, ins	5	021-9119
R140	A-B6	01	33k	1/4	comp, ins	10	022-2193
R141	А-В6	F 5	100	1/4	comp, ins	10	022-1109
R142	A-C5	F 4	100k	1/2	comp, ins	10	022-3039
R143	A-C6	F 5	220	1/4	comp, ins	10	022-1152
R1 44	A-D5	G4	330	1/3	film, ins	. 5	021-9076
R145	A-D5	G4	10k	1/4	comp, ins	10	022-2131
R146	A-D6	F 5	18k	1/2	comp, ins	10	022-2165
R147	Λ-E6	F5	18k	1/4	comp, ins	10	022-2163
R148	Λ-E5	F5	100	1/4	comp, ins	10	022-2109
R149	A-E5	F4	1k	1/4	comp, ins	10	022-1109
		F4	1k	1/4			
R150	A-F6		330	1/8	comp, ins	10	022-2025
R151	A-F4	E4		1/4	film, ins	5	021 -9076
R152	A-F5	E4	10k		comp, ins	10	022-2131
R153	Λ - F5 Λ - G6	F4 E4	18k 22k	1/2	comp, ins film, ins	10	022-2165
R154	Λ-G6	E4	39k	1/8	film, ins	5 5	021 -9208 021 -9226
R155	<i>1</i> , − 46	E4	39k	1/8	film, ins	5	021-9226
	1	E5	100	1/2	1	10	
R157	Λ - H5 Λ-H6	E5	18k	1/4	comp, ins		022 - 1109 022 -2163
			100k	1/2	comp, ins	10	
R159 R160	Λ-H4 Λ-J6	E4 E5	1 1 k	1/4	comp, ins	10 10	022 -3039
R1 61	11-00 11-014	E4	10k	1/4	comp, ins	10	022 -2025 022 - 21 <i>3</i> 1
R162	11-04 12-J4	E4	330	1/8	film, ins	5	021-9076
R163	11-04 11-114	E5	100	1/4	comp, ins) 10	021-9076
R164	11-114 11-L4	D4	47k	1/4	comp, ins	10	022-1109
R165	A-L5	D4 D4	680	1/4	comp, ins	10	
R166	A-M3	D4 D4	100	1/4	1	5	022-1215
R167	$\Lambda - MA$	D4 D4	100 10k	1/4	comp, ins, gd 1	10	021 -9040
1		1	10k	1/4	comp, ins	10 10	022-2131
R168 R169	A-N5	C4 C4	100k 100k	1/4	•	10	022-3038
R1 70	A-N5 A-L3	B4	470	1/4	comp, ins	10 10	022-3038
TAI/U	· رىـــــ	1 14	+10	: 1/4	i oomb mp	IV.	022-1134

RESTRICTED

0-4	Compo Loca		Value	Doting	Marsa and limit		Don't No
Cct ref	Circuit Fig 2516	Layout Fig 2517	(Ω)	Rating (W)	Type and limit (±0/0)		Part No (Z/5905 - 99-)
	1		RESI	STORS, F	IXED - (cont)		
R1 71 R1 72 R1 73 R1 74 R1 75 R1 76 R1 78 R1 79 R1 80 R1 81 R1 82 R1 83 R1 85 R1 86	A-J3 A-L7 A-L7 A-L8 A-M6 A-M7 A-N7	C5 C4 B5 C5 DCA5 BBCCB5 CB5	10k 27 2.2k 100k 220 330 1k 1k 100 47k 330 100 10k 10M 220k 100k	1/2 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	comp, ins film, ins comp, ins	10 10 10 10 10 10 10 10 10 10 10	022-2132 021-9012 022-2047 022-3037 022-1152 022-1173 022-2004 022-2004 022-1109 022-2216 022-1173 021-9040 022-2131 022-3289 022-3081 022-3037
R1 87 R1 88 R1 89 R1 90 R1 91 R1 92 R1 93 R1 94 R1 95 R1 96 R1 97 R1 98	A-N8 D-R1 D-R2 D-R2 D-R2 D-R2 D-R2 D-S4 A-M4 C-07 B-Z7	C4 D2 C2 C2 C2 C2 C2 C2 C2 C4 D4	8.2k 8.2k 8.2k 8.2k 6.8k 6.8k 5.6k 100k 100k 170k 1M 270k	1/4 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/4 1/4 1/4	comp, ins film, ins film, ins	10 10 10 10 10 10 10 10 10 5 5	022-2122 022-2123 022-2123 022-2111 022-2111 022-2102 022-3039 022-3037 022-3121 021-9322 021-9287
				RESISTO	RS, VARIABLE		
RV1 RV2 RV3 RV4 RV5 RV6 RV7 RV8 RV9 RV10	A-B3 A-E3 B-R2 C-L7 B-BB7 C-E3 B-V8 B-W8 B-W8 B-W8 B-W8	E2/M4 F2/N4 K8 J7 F2/05 N2 K2 K2 K2 K2 J2	100k 100k 100k 50k 10k 25k 10k 5k 10k 5k	1/4 1/4 3/8 3/4 1/4 1/4 1/4 1/4 1/4	comp, log comp, log comp, log comp, linear	20 20 20 20 20 20 20 20 20 20	Z1/ZA 56387 026-2012 011-9465 026-1884 011-9465 011-9464 011-9465 011-9464

RESTRICTED

ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

Cct	Component Location Value Rating Type and limit		Marro and limit	Part No						
ref	Circuit Fig 2516	Layout Fig 2517	(Ω)	(W)	(±°/o)	(Z/5905-99-)				
	RESISTORS, VARIABLE - (cont)									
RV12 RV13 RV14 RV15	B-X8 B-Z8 C-D6 A-C7	J2 C2/K4 B2/J4 G5/O1	5k 25k 250k 5k	1/4 1/4 1/4 1	comp, linear 20 comp, linear 20 comp, linear 20 w.w., tor 10	011-9464 011-9466 011-9469 940-0458				
	Compo Loca	nent tion	Tr 7	D 44						
Cct ref	Circuit Fig 2516	Layout Fig 2517	Value (μF)	Rating (V)	Type and limit (±°/o)	Part No (Z/5910-99-)				
	CAPACITORS									
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11	A-B3 A-B2 A-B2 A-B3 A-E3 A-E3 A-E3 A-E2 A-F2 A-F3	D2 D2 C1 E2 E2 N4 F2 F2 B1 E2 E2	470p 0.05 8 0.002 25 68p 0.05 470p 8 0.002 25	750 175 350 350 25 750 175 750 350 350 25	mic, foil, rect, mlded 20 pap, foil, tub, met, ins 20 elect, al, foil, tub, ins +50-20 pap, foil, tub, met, ins 25 electrolytic, tub +50-20 mic, rec, mlded 5 pap, foil, tub, met, ins 20 mic, foil, rect, mlded 20 elect, al, foil, tub, ins +50-2 pap, foil, tub, met, ins 25 electrolytic, tub +50-20	011-5624 Z1/5910-99 -910-6964 012-3918 011-5596 012-3413 014-5503 011-5624				
C12 C13 C14	B-P2 B-P2 B-Q2	02 02 02	0 •01 0 •01 2	350 350 350	pap, foil, tub, met, ins 20 pap, foil, tub, met, ins 20 electrolytic +50-20	011 - 5594 011 <i>-</i> 5594				
C15 C16 C17 C18	B-Q3 B-Q3 B-R2 B-S3	C2 C2 D2 D2	100p 330p 0.01 25	750 750 350 25	mic, rec, mlded 5 mic, stkd, foil 20 pap, foil, tub, met, ins 20 electrolytic, tub +50-20	012 - 3924 012 - 3362 011 - 5594				
C19 C20 C21 C22	B-T2 B-T2 B-AA8 B-R4	D2 K5 F2 G3	0.01 0.005 1 2	350 350 200 350	pap,foil,tub,met,ins 20 pap,foil,tub,met,ins 20 pap,tub,met,ins 25 electrolytic +50-20	011-5594 011-5593 011-9836 21/5910-99 -110-2596				
C 23 C 24	B-R5 B-R4	G4 F3	0.001 2	350 350	pap,foil,tub,met,ins 25 electrolytic +50-20	011 - 5623 Z1/ 5910 - 99- 110 - 2596				

	Compo Loca		37 - 7	D	Type and limit (\pm°/\circ)		Dt-M
Cct ref'	Circuit Fig 2516	Layout Fig 2517	Valu a (μF)	Rating (V)			Part No (Z/5910-99-)
				CAPAC	ITORS - (cont)		
C25	B-S5	F3	0.001	350	pap, foil, tub, met, ins	25	011 - 5623
C 26	B - S4	F3	2	350	electrolytic	+50-20	Z1/5910 - 99-1 110-2596
C27	B - U5	E3	0.001	350	pap,foil,tub,met,ins	25	011-5623
C28	B-U4	F3	0 •001	350	pap, foil, tub, met, ins	25	011-5623
029	B-U4	F4	2	350	electrolytic	+50-20	Z1/5910-99-
C30	B-U3	F4	0 •05	175	pap,foil,tub,met,ins	20.	110-2596 011-5596
C31	B-V4	N3	0.0022	750	mic, met, rect, mlded	5	012-4719
C32	B-V5	F4	25	25	electrolytic	+50-20	Z1/5910-99-
			-				910-6964
C33	B-W4	N4	0.0027	750	mic,rect,mlded	5	012 - 4722
C34	B-W4	М3	97.2p max		var,air dielectric		015 - 0006
C35	B-W4	M3	680p	350	mic,met,rect,mlded	5	012-3954
c36	B -X 4	M3	150p	750	mic,met,rect,mlded	5	012 - 3930
C 37	B-X4	М3	82p	750	mic,met,rect,mlded	5_	012-3921
c38	B-Y4	F4	0.01	350	pap, foil, tub, met, ins	25	011-5625
C 39	B-Z4	C4	0.01	<i>3</i> 50	pap, foil, tub, met, ins	25 25	011-5625
C40	C-A2	E3	0 •001 2	350 350	pap, foil, tub, met, ins	25 +50 <i>-</i> 20	011-5623
C41	C-A2	E3	2	350	electrolytic	+50-20	Z1/5910-99- 110-2596
C42	C-B2	E3	0.0047	350	mic,foil	20	Z 1/5910-99- 900-7826
C43	C - C2	E5	0,.25	200	pap,met,tub,ins	25	011-9830
C 44	C-C3	E5	0.25	200	pap met tub ins	25	011-9830
C45	C-D3	E4	0.02	350	pap, foil, tub, met, ins	20	011 - 5595
C46	B-Y8	F1	1	200	pap, foil, tub, met, ins	25	011 - 9835
C47	C-F6	J3	0.02	250	pap,met,tub,ins	20	012-0114
C48	C-F6	J 3	0.1	200	pap, foil, tub, met, ins	20	011-5599
C49	C-F6	J3	0.1	200	pap, foil, tub, met, ins	20	011-5599
C50 C 55	11-113 11-116	M4 F 5	68p 0.0039	750 750	mic, rec, mlded mic, rec, mlded	5 5	012 - 3918 012 -47 28
056	л-ло л-в6	01	220p	750 750	mic, rect, mlded	5 5	012-4726
C57	A-C6	F4	0.05	175	pap, foil, tub, met, ins	20	011-5596
c58	A-C6	F 5	0.1	200	pap, tub, met, ins	25	011-9827
C59	- D6	F4	0.05	1 75	pap, foil, tub, met, ins	20	011-5596
060	- D5	F5	0.001	350	mic,rect,mlded	20	012-4479
C61	V-FQ	F4	0.05	175	pap, foil, tub, met, ins	20	011-5596
C62	A-F 6	F4	0.1	200	pap, tub, met, ins	25	011-9827
063 064	A-F5	F4 F4	0 .0 5 0 . 001	175	pap, foil, tub, met, ins	20	011-5596
004	ハー・アン	F4	0.007	350	mic, rect, mlded	20	012-4479

Cat	Compo Loca		Value	Rating	Type and limit		Part No
Cct ref	Circuit Fig 2516	Layout Fig 2517	γaiue (μF)			(Z/5910-99-)	
	CAPACITORS - (cont)						
C65 C66 C67 C68 C69 C70 C71 C72 C73 C74 C75 C76	A-H6 A-J5 A-J5 A-K5 A-L5 A-M5 A-M4 A-N4 A-N5 A-N5	E4 E4 L1 LD4 CK1 CCC CCC	0.05 0.1 0.05 0.001 0.001 0.05 0.1 0.05 220p 180p 56p 0.001 470p	175 200 175 350 350 175 200 175 750 350 750	pap, foil, tub, met, ins pap, tub, met, ins pap, foil, tub, met, ins mic, rect, mlded mic, rect, mlded pap, foil, tub, met, ins pap, tub, met, ins pap, foil, tub, met, ins mic, rect, mlded mic, rect, mlded mic, rect, mlded mic, foil, rect, mlded	20 25 20 5 5 20 25 20 5 20	011-5596 011-9827 011-5596 012-4701 012-4701 011-5596 011-5596 011-5596 012-3915 012-4479 012-3413
C78 C79 C80 C81 C82 C83 C84 C85 C86 C87 C88 C89	A-L3 A-L2 A-L3 A-K1 A-L8 A-L8 A-M8 A-M7 A-M7 A-M7 A-N8 A-O7 A-B4	C4 C5 C4 B4 B4 B4 J1 C4 B5 J2	0.1 220p 0.1 0.05 0.05 0.05 0.05 0.001 0.001 0.001	200 750 200 175 175 200 175 350 350 200 200 350	pap, tub, met, ins mic, foil, rect, mlded pap, tub, met, ins pap, foil, tub, met, ins pap, foil, tub, met, ins pap, tub, met, ins pap, foil, tub, met, ins mic, rect, mlded mic, rect, mlded pap, tub, met, ins pap, tub, met, ins pap, tub, met, ins pap, tub, met, ins mic, rect, mlded	25 20 25 20 20 25 20 5 5 25 25 25	011-9827 012-3293 011-9827 011-5596 011-9827 011-5596 012-4701 012-4701 011-0827 011-9836 012-4701
Cct ref	Circuit	tion Layout					Part No (2 1/ 5950-99-)
	Fig 2516	Fig 2517					
INDUCTORS							
L1 L2 L3 L4 L5 L6 L7	B-V3 B-Z4 C-F6 A-A2 A-A2 A-E2 A-E2	N3 C2/K4 K3 M4 M4 N4 N4	Transformer, a.f., output, 120Ω to $2,100\Omega$ Z_1/Z_1 5597				102-1371 Z1/ZA 55972 Z1/ZA 55967

	Compo Loca			
Cct	2000		Description	Part No (Z1/5950-99÷)
rei	ref Circuit Layout			(41/5750 -33=)
	Fig	Fig		*
	2516	2517		
		• :	INDUCTORS - (cont)	
L8	A-A6	01	Part of T7	
L9	а - В6	01	Part of T7	
L10	A-K4	L1	Part of T8	
L11	∴-K4	L1	Part of T8	
L12	1 - N4	K1	Part of T9	
L13	Λ-N4	K1	Part of T9	,
L14	∴-M7	J1	R.F., screened	Z1/ZA 56775
L15	A-B4	J2	Part of T11	
L16	Л-В4	J2	Part of T11	
		<u> </u>	TRANSFORMERS	
T1	A-A2	D2/M4	I.F., 100kc/s, shielded	Z1/ZA 55792
T2	A-E2	E1/M5	Λ .F., pri impedance $10k\Omega$, sec! y impedance 600Ω	
T3	A-E2	F2/N4		Z 1/ Z A 55792
T4	A- F2	E1/N5		Z1/ZA 56088
T5	B - T2	K5	A.F. output, 4.5H at 10V	Z1/ZA 55797
Т6	B-W3	M 3	A.F.	1 _, 02 - 1370
Т7	A-46		I.F. 103kc/s, shielded	Z_1/Z_{Λ} 55790
T8	A-K4	D5/L1	I.F., shielded	901 - 9970
Т9	Λ-Μ4	C5/K1		
T10	∴-M7	B5	See L14	7. /7. F (007
T11	A-B4	B5/J1	I.F., 100kc/s, shielded	Z1/Z A 56803
		<u>:</u>	SEMI-CONDUCTOR DEVICES	(z/6960-99 -)
MR1	C-N7	В2	Diode CV7040 (OA 202)	037-2016
MR2	B - R5	F4	Diode CV7040 (01 202)	037-2016
MR3	C-C2	E4	Diode CV448	000 - 0448
MR4	C-C2	E4	Diode CV448	9 00 - 0448
MR5	C-G2	C4	Diode CV448	000-0448
MR6	C-G2	C4	Diode CV448	0 0 0-0448
MR7	B-W6	C3	Diode CV7040 (0A 2C2)	037-2016
MR8	B-X6	C3	Diode CV7040 (OA 202)	037-2016
MR9	D-P1	D4	Diode CV4078	000-4078
MR10	D-S5	D4	Diode CV4078	000–4078

Cct	Compo Loca	nent tion		Part No
ref	Circuit Fig 2516	Layout Fig 2517	Description	(Z1/5935-99-)
			PLUGS AND SOCKETS	
PLA	D-CC1	в6	Plug, electrical, M4, brass, fixed female shell, size 2/0, 12-pole	911-6993
PLB	D <i>-</i> P4	c6	Plug, electrical, M4, brass, fixed female shell, size 2/1, 12-pole	911 - 8219
PLC	D-P6	С6	Plug, electrical, M4, brass, fixed female shell, size 2/2, 12-pole	110-2271
PLH	A-A4	F 6	Plug, electrical, r.f., fixed, female shell, straight entry, single pole, style PR4D,	011-9484
PLJ	A - A6	F 6	Plug, electrical, r.f., fixed, female shell, straight entry, single pole, style PR4D	01 1- 9484
SKT-D	D-Y8	D6	Socket, electrical, M4, fixed female shell, size 1/0, 4-pole	940 - 8634
SKT-E	D - Y5	D6	Socket, electrical, M4, brass, fixed female shell, size 2/1, 12-pole	940 - 8682
SKT-F	D-V4	E6	Socket, electrical, M4, fixed female shell, size 2/0, 12-pole	911-4461
SKT-G	D-Y4	E 6	Socket, electrical, M4, brass, fixed female shell, size 1/0, 6-pole	911 - 4507
SKT-J	c-K6	L7	Socket, straight entry, black	911 - 4163
SKT-K	B-AA4	L7	Socket, straight entry, yellow	911-4159
SKT-L	C-B7	м7	Socket, straight entry, yellow	911-4159
SKT-M	C-B4	L7	Socket, straight entry, yellow	911 <i>-</i> 4159
SKT-N	C-J6	М7	Socket, straight entry, yellow	911-4159
			VALVES, ELECTRONIC	(z/ 5960 - 99-)
V1 V2 V3 V4 V5 V6 V7 V8 V10 V11 V12 V13 V14 V15 V16	A-B3 B-Q2 B-S2 B-B5 B-T5 B-Y3 C-B2 C-F2 B-Y7 C-B6 C-E6 C-H5		CV4024 (CV455) (Types in brackets may be CV4024 (CV455) found in equipments.) CV4039 (CV2129) CV4024 (CV455) CV4010 (CV850) CV4010 (CV850) CV4007 (CV283) CV4004 (CV455) CV4004 (CV492) CV4004 (CV492) CV4004 (CV492) CV4004 (CV492) CV4004 (CV492) CV4004 (CV455) CV4004 (CV455) CV4004 (CV455) CV4004 (CV455)	000-4024 000-4024 000-4039 000-4010 000-4010 000-4010 000-4007 000-4004 000-4004 000-4004 000-4003 000-4004 000-4004 000-4004

G . ±	Compo Loca			Don't No.
Cct ref	Circuit Layout Fig Fig 2516 2 5 17		Description	Part No (Z/5960-99-)
	•		VALVES, ELECTRONIC - (cont)	
V17 V18 V19 V20 V21 V22 V23	A-C6 A-F5 A-J5 A-L4 A-O4 A-K3 A-L7	F5/N1 F5/N2 E5/M1 D5/L1 C5/ K 1 C5/K2 B5/J1	CV4009 (CV454) CV4009 (CV454) CV4007 (CV283)	000-4009 000-4009 000-4009 000-4009 000-4007 000-4024 000-4009
			SWITCHES	(<i>Z</i> /5930 - 99-)
SA SB	D D	D1 ,2 ,5 N7/N5	Rotary, wafer, 4-pole, 11-pos'n, non-shorting, 4 wafer, SRBP	Z1/ZA 56380
sc	D - U8	M7/M5	Rotary, wafer, 2-pole, 5-pos'n, non-shorting,	102 -4 748
SD	Λ - C1	к8	Lever operated, 2-pole changeover, QMQB, 3A 250V AC/DC	051 - 0504
SE	C-J3	08	Lever operated, 2-pole changeover, QMQB, 3A, 250V AC/DC	051-0504
SF	B-W7	E1/M8		102-4743
SG	С	F1/N8	Rotary wafer, 1-pole, 3-position, non-shorting	102-4700
SH	A- G5	N2	Lever operated, 2-pole changeover, QMQB, 3A, 250V a.c.	051 - 0504
SJ	A-G5	M 2	Lever operated, 2-pole changeover, QMQB, 3A 250V a.c./d.c.	051 – 0504
	:		MISCELLANEOUS	
XL1	л - К2	D5/L2	Crystal unit, quartz, style F, 99kc/s, -20°C, +70°C, ±0.02°/o	Z 17/5955-99 -901-4829
XT5	A-J2	C5/K2	Crystal unit, quartz, style F, -20°C to +70°C, ±0.02°/o, 97kc/s	Z17/5955-99 -102-6024
FIL1	A-D5	M/N1	Filter unit, crystal, type 6631	
FIL2	11-G4	M/N2	Filter, band-pass, Marconi, W61380, sht 1, ed A	Z1/ZA 56066
J KA	3-V2	J8	Jack, telephone, single shank, accommodated contact arrangement J7-10	Y1/5935-99 -901-1510
M1	C-D3	K7	Meter, audio level, 2 in. body dia, 40dB	Z1/6625-99- 102-1475
M2	D-U8	L 7	Meter, scale 10-0-10, 1-0-1ml	Z1/5280 – 99 -1,02 – 1 985
RLA	C-M7	B2/J4	Relay, magnetic, sealed, high speed 500+500 ohms, changeover, type SM8-4 Core adjustable tuning, iron dust, 1.176 in. lg, 0.21 in. dia, 8 BA thread	Z/5945-99- 053-0039 Z1/ZA 42749

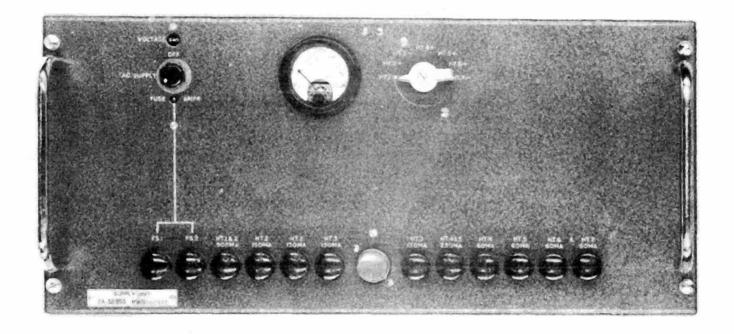


Fig 2521 - Power supply unit, view of front panel

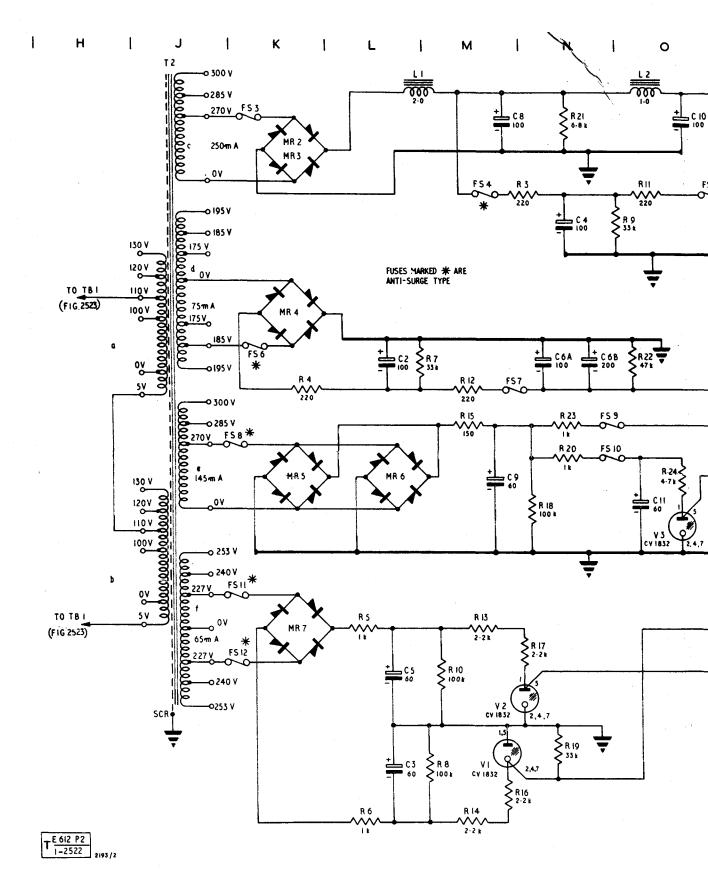


Fig 2522 - Power supply unit, circuit di

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Part 2

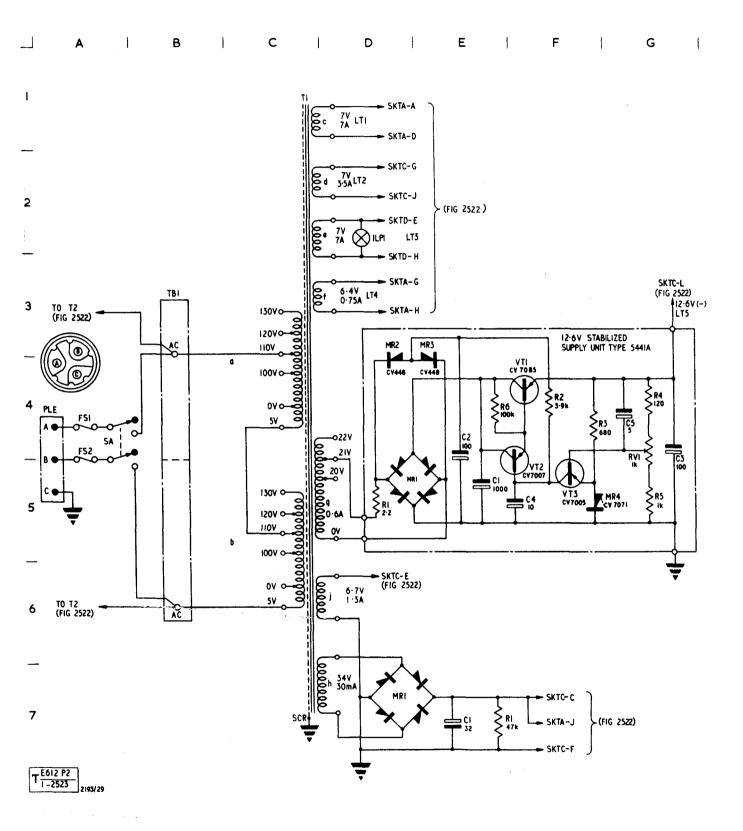
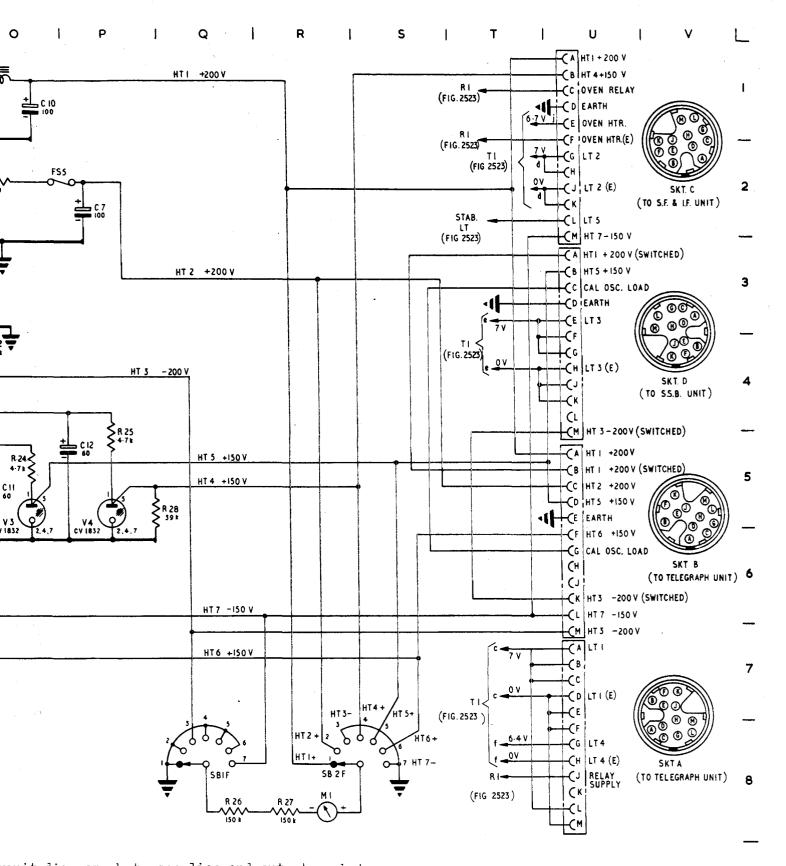


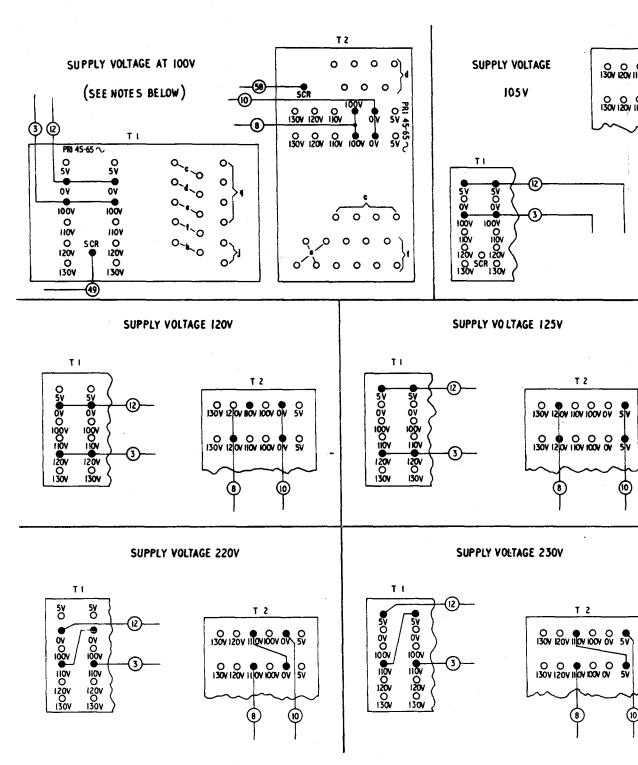
Fig 2523 - Power supply unit, circuit diagram, 1.t. transformer and stabilized 1.t. supply



rcuit diagram, h.t. supplies and output sockets

Fig 2522 Page 1067



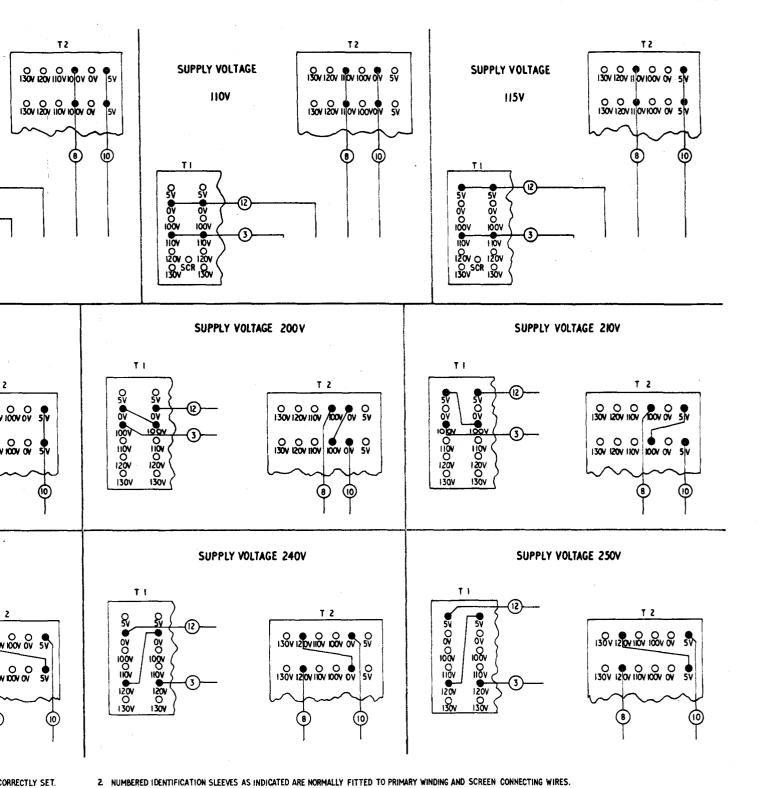


NOTE
I. IMPORTANT: WHEN PRIMARY CONNECTIONS HAVE BEEN ALTERED, ENSURE THAT THE MAINS VOLTAGE INDICATING PLATE ON THE FRONT PANEL IS CORRECTLY SET.



Fig 2524 - Power supply unit, tag identification





3. ALL TRANSFORMER TAGBOARD LAYOUTS AND WINDING IDENTIFICATIONS ARE AS SHOWN FOR IOQVOLT SUPPLY. ONLY PRIMARY TAGS

3. ALL TRANSFORMER TAGBOARD LATOUTS AND WINDING IDENTIFICATIONS ARE AS SHOWN FOR TOUTOUT SUPPLY, ONLY PRIMARY TAGS

ARE SHOWN IN OTHER DIAGRAMS.

fication and primary winding connection diagram, T1 and T2



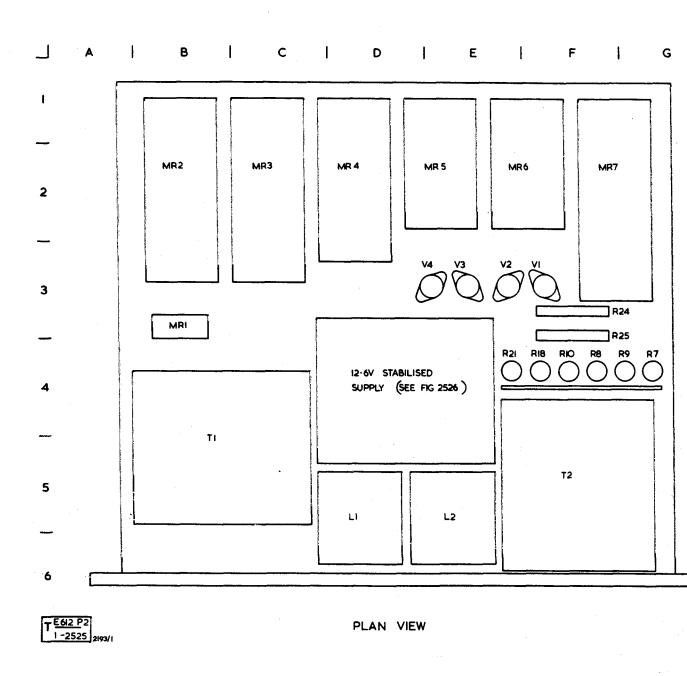
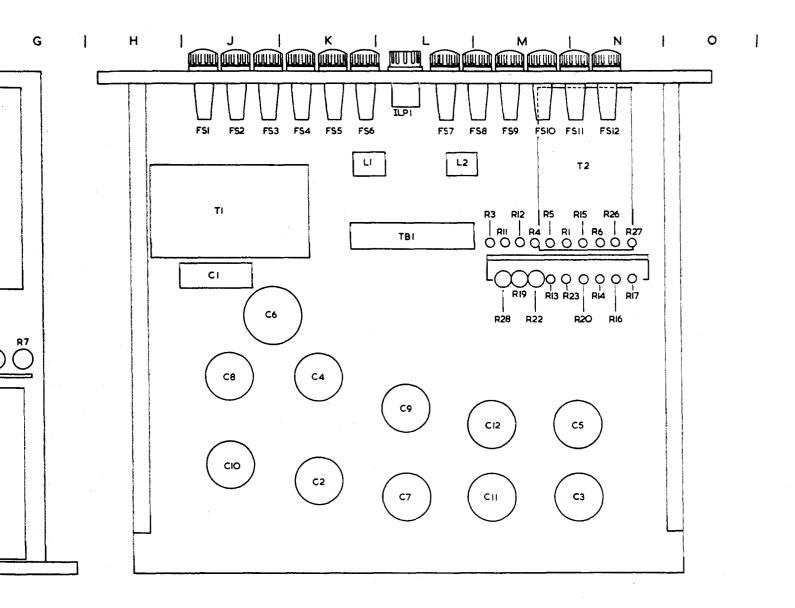


Fig 2525 - Power supply un

В С F | G | . E RI MRI 3 **®** PLAN VIEW FRONT OF UNIT 5 MRZ R 6 8 MR 4 C 5 R 3 8 VIEW ON UNDERSIDE

Fig 2526 - Power supply unit, component layout sub-chassis of stabilized supply

TE612 P2



VIEW ON UNDERSIDE



Part 2

Table 2504 - Power supply unit (excluding 12.6V d.c. stabilized supply) - component schedule

Note: This table is current at the time of issue only. Use I.S.P.L., when published, to demand stores.

Cct	Compo Loca		Value	Rating	Type and limit		Part No
ref	Circuit Fig 2522	Layout Fig 2525	(Ω)	(W)	(±°/o)	. U	(z/5905-99-)
				RESISTO	RS, FIXED		
R1 R3 R4 R5	2523-E7 M2 K4 L6	M3 M3 M3 M3	47k 220 220 1k	1/4 1 •1/2 1 •1/2 3	comp, ins w.w. vit, enam w.w. vit, enam	10 5 5	022-2215 011-3239 011-3239
R6 R7 R8 R9	L8 L4 L8 N2	N3 G4 . F4 G4	1 k 33k 100k 33k	3 1 1	comp, non-ins comp, non-ins comp, non-ins	10 10 10	021 -21 94 021 -3038 021 -21 94
R10 R11 R12 R13 R14	M7 02 M4 M6 M8	F4 M3 M3 M3 M3	100k 220 220 2.2k 2.2k	1 1 •1/2 1 •1/2 4 •1/2 4 •1/2	comp, non-ins w.w. vit, enam w.w. vit, enam w.w. vit, enam w.w. vit, enam	10 5 5 5 5 5 5 5 5	021 -3038 011 -3239 011 -3239 011 -3495 011 -3495
R15 R16 R17 R18	M4 M8 M7 N5	N3 N3 N3 F4	150 2.2k 2.2k 100k	3 4.1/2 4.1/2 1	w.w. vit, enam w.w. vit, enam w.w. vit, enam comp, non-ins	10	011-3300 011-3495 011-3495 021-3038
R1 9 R20 R21 R22	N8 N5 N1 04	M3 M3 E4 M3	33k 1k 6.8k 47k	1 4.1/2 10 1	comp, ins w.w. vit, enam w.w. vit, enam	10 5 5	011 -1489 011 -3487 011 -3084
R23 R24 R25 R26 R27	M4 05 P4 Q8 R8	M3 F3 F3 N3	1k 4.7k 4.7k 150k 150k	4.1/2 6 6 1/4 1/4	w.w. vit, enam w.w. vit, enam w.w. vit, enam film, ins film, ins	5 5 5 5 5	011-3487 011-3413 011-3413 021-9269 021-9269
R28	P5 Compo Loca	M3 nent	39k	1	comp, ins	10	011-1490
Cct ref	Circuit Fig 2522	Layout Fig 2525	Value (µF)	Rating (V)	Type and limi	iţ	Part No (Z/5910-99-)
			C.A	APACITORS	, ELECTROLYTIC		
C1 C2 C3 C4	2523-E7 L7 L8 N2	J3 K5 N5 K4	32 100 60 100	150 350 450 350	tub, met case tub, met case tub, met case tub, met case	+100-20 +50-20 +50-20 +50-20	014-5509 014-5554 014-5553 014-5554

ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

Cct	Component Location		Value	Rating	Typ	pe and limit	;	Part No
ref	Circuit Fig 2522	Layout Fig 2525	(µF)	(v)		(°/∘)		(Z/5910-99-)
		,	CAPACITOR	S, ELECT	ROLYTIC -	(cont)		
C5 C6 C7 C8 C9 C10 C11 C12	L7 N4 P2 M1 M5 O1 O5	N4 J3 L5 J4 L4 J5 M5	60 100+200 100 100 60 100 60	450 350 350 350 450 450 450 450	tub, met	case case case case case	+50-20 +50-20 +50-20 +50-20 +50-20 +50-20 +50-20	01 4-5553 014-5606 014-5554 014-5554 014-5553 014-5553 014-5553
Cct	Compo Loca	nent tion						Part No
ref	Circuit Fig 2522	Layout Fig 2525	() Octobro to the contract of					(Z1/5950-99-)
				IND	UCTORS			
L1 L2	L1 01	D5 E5	A.F. 2101 A.F. 1H,				·	102 - 1454 102 - 1661
				TRAN	SFORMERS			
T1 T2	252 3- C1 J1	J2 N2			, multi-se multi-seco			102 – 7502 102–7501
			SWITCHES					
SA	2523-A4		and a company of the					Z/5930 - 99 -051 - 0583
SB Q8 Rotary, 2-pole, 7-way								
				LAMPS	, FILAMEN	r		
ILP1	2523-D2	L1	8 v , 1.6w	, m.e.s.	, clear			x5/6240-99 -995-1201

Cct ref	Compo Loca Circuit Fig 2522	nent tion Layout Fig 2525	Description	Part No (Z1/6130-99-)
			RECTIFIERS, SELENIUM	
MR1 MR2 MR3 MR4 MR5 MR6 MR7	2523-D7 K1 K1 K3 K5 L5 K6	B3 B2 C2 D2 E2 F2 F2	Bridge, T5B18 Half wave T14A201 Half wave T14A201 Bridge, T14A193 Bridge, T14A144 Bridge, T14A144 Bridge, T14A232	102 -4 114 075 -2369 075 -2369 075 -2364 075 -2352 075 -2374
			PLUGS, SOCKETS	(Z1/5935-99-)
SKT-A SKT-E SKT-C SKT-I PLE	U5 U1		Socket, elec, M4, brass, fixed female shell, size 2/0, 12-pole Socket, elec, M4, brass, fixed female shell, size 2/1, 12-pole Socket, elec, M4, brass, fixed female shell size 2/2, 12-pole Socket, elec, M4, brass, fixed female shell, size 2/3, 12-pole Plug, elec, M4, brass, fixed female shell, size 1/0, 3-pole	911-4461 940-8682 940-9968 940-8900 940-8628
	· ·		VALVES, ELECTRONIC	(Z/5960 - 99-)
V1 V2 V3 V4	M8 M7 05 P5	F3 E 3 E3	CV1 832 CV1 832 CV1 832 CV1 832	000-1832 000-1832 000-1832 000-1832
			FUSE LINKS	(X2/5920-99 -)
FS1 FS2 FS3 FS4 FS5 FS6	2523-A4 2523-A4 K1 M2 02 K3	J1 J1 J1 K1 K1 K1	Cartridge, ceramic, 5A, 440V a.c. Cartridge, ceramic, 5A, 440V a.c. Cartridge, ceramic, 500mA 440V a.c. Cartridge, glass, 150mA, 250V a.c. (anti-surge) Cartridge, ceramic, 150mA, 250V a.c. Cartridge, glass, 150mA, 250V a.c. (anti-surge)	059-0112 059-0112 059-0108 945-7645 059-0132 945-7645

ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

Table 2504 - (cont)

Cat	Component Location Cct		Part No	
ref			Description	(x2/5920 - 99-)
			FUSE LINKS - (cont)	
FS7 FS8 FS9 FS10 FS11 FS12	M4 J4 N4 N5 J6 J7	L1 M1 M1 M1 N1	Cartridge, ceramic, 150mA, 250V a.c. Cartridge, glass, 250mA, 1000V a.c. (anti-surge) Cartridge, ceramic, 60mA, 250V a.c. Cartridge, ceramic, 60mA, 250V a.c. Cartridge, glass, 60mA, 1000V a.c. (anti-surge) Cartridge, glass, 60mA, 1000V a.c. (anti-surge)	059-0132 999-8041 059-0130 059-0130 945-3658 945-3658
			MISCELLANEOUS	
M1	R8		Voltmeter, moving coil, 300V d.c., less multiplier Carrier, fuse link, cap, single way, 7A Fuse unit, protected, single way, 7A	Z4/6625-99- -102-2599 012-0232 012-0231

Table 2505 - Power supply unit, 12.6V stabilized supply, component schedule

Note: This table is current at the time of issue only. Use I.S.P.L., when published, to demand stores

Cct		Component Location		Rating	Type and limit		Part No	
ref	Circuit Fig 2523	Layout Fig 2526	Value (Ω)	(W)	(±°/°)		(Z /5905-99-)	
				RESISTO	RS, FIXED			
R1 R2 R3 R4 R5 R6	D5 F4 F4 G4 G5 E4	C1 C7 C7 C7 C7 C7	2.2 3.9k 680 120 1k 100k	1.1/2 1/4 1/4 1/4 1/4 1/4	w.w. vitreous comp, ins comp, ins film, ins film, ins comp, ins	10 10 10 5 5	011-3199 022-2080 022-1215 021-9047 021-9113 022-3038	
				RESISTO	RS, VARIABLE			
RV1	G4	D3	1k	1	w.w. rotary, linear	10	21/5905-99 -911-5466	

0 - 1	Component Location		17.27	Do hi	m	· .	Doub No		
ref	Circuit Fig 2523	Layout Fig 2526	Value (μF)	Rating (V)	Type and lim (± ⁰ /o)		Part No (Z/5910-99-)		
			CAPACITOR	s, elect	ROLYTIC, ALUMINIUM				
C1 C2 C3 C4 C5	E5 E4 G4 F5 G4	E3 E2 E1 E6 E7	1000 100 100 100 5	25 50 50 25 50	foil, tub, met, ins foil, tub, met foil, tub, met foil, tub, met, ins	+100-20 +100-20 +100-20 + 50-20 + 50-20	014-5520 014-5228 014-5 22 8 014-5096 014-5047		
Cct	Compo Loca	nent tion							
ref	Circuit Fig 2523	Layout Fig 2526		Description					
		REC	TIFIERS/SE	MI-CONDU	CTOR DEVICES/VALVES				
MR1	D5	C2	Rectifier	r, seleni	um, bridge MBA 45-2	-16 Z	Z/6130-99 -075-1152		
MR2	D 4	C6	Valve ele	ectronic	, CV448	Att of the	Z/ 5960 - 99 - 000 - 0448		
MR3	E4	c6	Valve ele	ectronic,	, cv448		Z/ 5 <i>9</i> 60 - 99		
MR4	F 5	C7	Semi-conductor device dicde, CV7071			-000-0448 Z/ 5960-99 -037-2128			
	TRANSISTORS					(Z/ 5960 – 99 –)			
VT1 VT2 VT3	F4 F4 F5	D2 C5 C5	CV7085 CV7007 CV7005		·		037 - 2160 037-2007 037 - 2005		

TELECOMMUNICATIONS

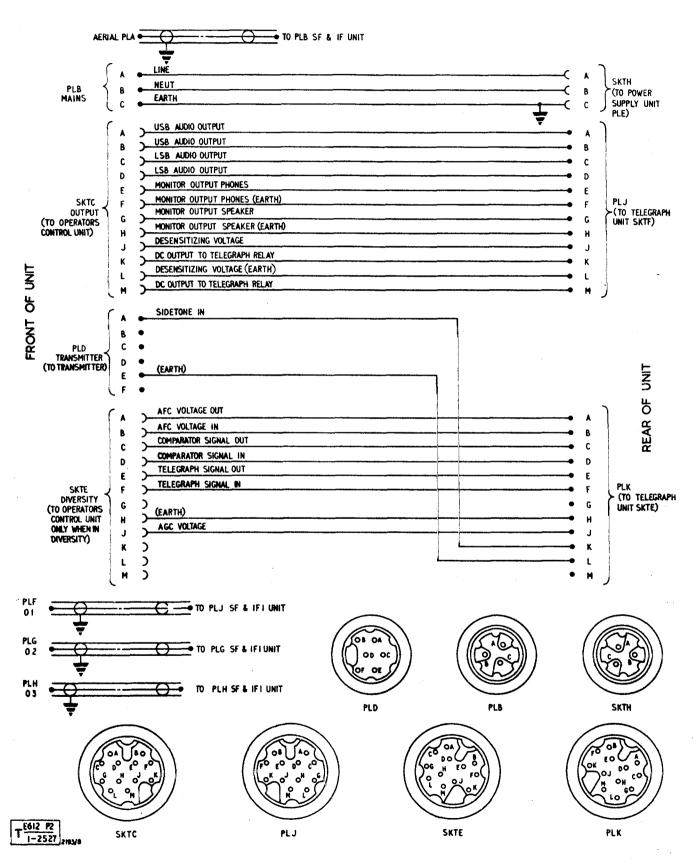
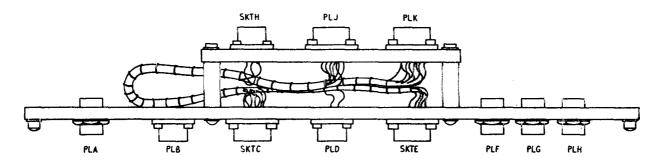
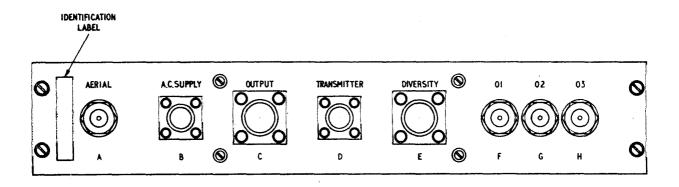


Fig 2527 - Distribution unit, circuit diagram

ENGINEERING



PLAN VIEW



FRONT PANEL

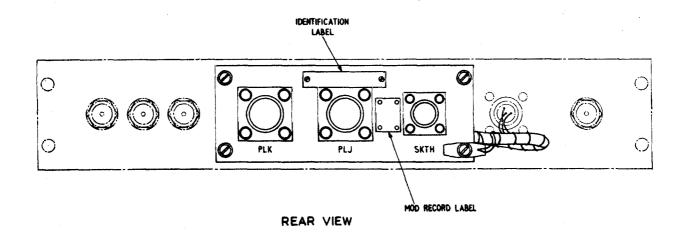




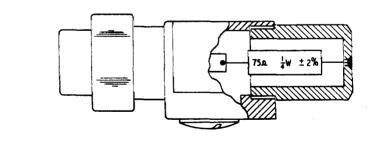
Fig 2525 - Distribution unit, component layout



Table 2506 - Distribution unit, component schedule

Note: This Table is current at the time of issue only. Use I.S.P.L., when published, to demand stores.

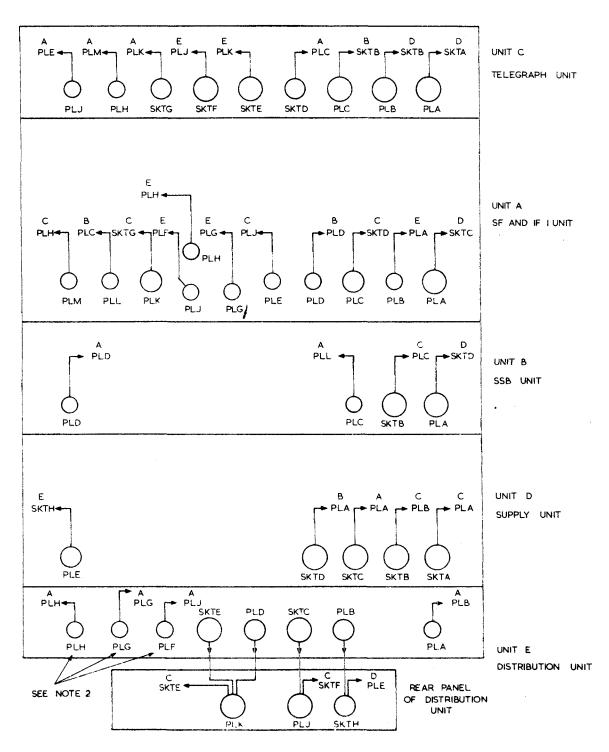
Cct Ref	Description	Part No (Z/5935-99-)
	PLUGS, SOCKETS AND ADAPTORS	
PLA PLB SKT-C PLD SKT-E	Adaptor, socket-to-socket, fixed, co-ax, single pole Plug, fixed, M4B, female shell, size 1/0, 3-pole Socket, fixed, M4B, female shell, size 2/0, 12-pole Plug, fixed, M4B, female shell, size 1/0, 6-pole Socket, fixed, M4B, female shell, size 2/1, 12-pole	054-0019 940-8628 911-4461 940-8504 940-8682
PLF PLG PLH SKT -H PLJ PLK	Adaptor, socket-to-socket, fixed, co-ax, single pole Adaptor, socket-to-socket, fixed, co-ax, single pole Adaptor, socket-to-socket, fixed, co-ax, single pole Socket, fixed, MAB, female shell, size 1/0, 3-pole Plug, fixed, MAB, female shell, size 2/0, 12-pole Plug, fixed, MAB, female shell, size 2/1, 12-pole	054-0019 054-0019 054-0019 940-8629 911-6993 110-2271



T E612 P2

Fig 2529 - Distribution unit, 75Ω terminating pad

Part 2

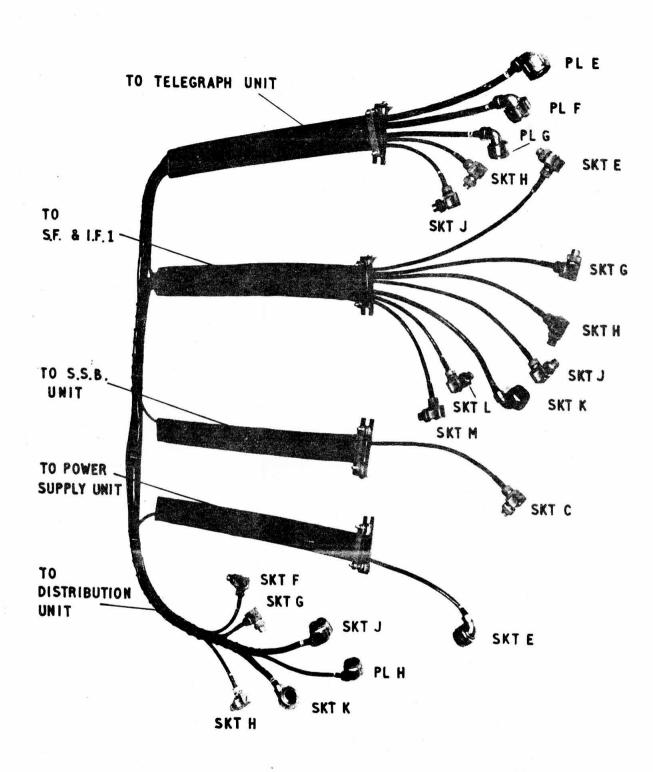


NOTES

- I ALL CONNECTIONS ARE IDENTICAL AT BOTH ENDS OF EACH RUN
- 2 PLF PLG AND PLH ON THE DISTRIBUTION UNIT MUST BE TERMINATED BY 750 DUMMY LOADS FXCEPT WHEN RECEIVER IS ACTING IN A DIVERSITY ROLE.

T E 612 P2

Fig 2530 - Cabinet, inter-unit cable connections



Left-hand harness, viewed from rear of equipment

Fig 2531 - Cabinet, cable har



TE

KT G

HT

TO TELEGRAPH UNIT SKT D-TO SF & IF 1 SKT BE WIT SKT DE T0 SSB UNIT TO DISTRIBUTION SKT A UNIT TO POWER SUPPLY UNIT

Right-hand harness, viewed from rear of equipment

ble harness with termination identification



Table 2507 - Cable harnesses, component schedule

Note: This table is current at the time of issue only. Use I.S.P.L., when published, to demand stores.

Unit and Circuit Ref	Description	Part No		
	PLUGS, SOCKETS			
TELEGRAPH UNIT				
SKT-A	Socket, elec, M4 brass, free male shell, size 2/0, 12-pole	Z 1/5935-99-940 - 8529		
SKT-5	Socket, elec, M4 brass, free male shell, size 2/1, 12-pole	Z1/5935-99-911-8226		
SKT -C	Socket, elec, M4 brass, free male shell, size 2/2, 12-pole	z1/5935-99-940-8595		
PLTD	Plug, elec, M4 brass, free male shell,	Z1/5935-99-940-8631		
PLE	size 1/0, 4-pole Plug, elec, M4 brass, free male shell,	Z 1/5935 - 99-940 - 8683		
PL F	size 2/1, 12-pole Plug, elec, M4 brass, free male shell,	Z 1/5935-99-940-8525		
PLG	size 2/0, 12-pole Plug, elec, M4 brass, free male shell,	Z1 /5935-99 - 911 -7 967		
SKT-H	size 1/0, 6-pole Socket, elec, free male shell, co-axial,	Z/ 5935-99 - 054 - 0022		
SKT-J	single pole Socket, elec, free male shell, co-axial, single pole	z/ 5935 - 99 - 054 - 0022		
SF & IF1 UNIT				
SKT-A	Socket, elec, M4 brass, free male shell,	Z 1/5935-99 - 940-8529		
SKT-B	size 2/0, 12-pole Socket, elec, free male shell, co-axial,	z/ 5935 - 99-054 - 0022		
SKT-C	single pole Socket, elec, M4 brass, free male shell, size 1/0, 4-pole	Z 1/5935-99-932-5875		
SKT-D	Socket, elec, free male shell, co-axial, single pole	Z/ 5935 - 99 - 054 - 0022		
SKT-E	Socket, elec, free male shell, co-axial, single pole	2/ 5935-99-054-0022		
SKT -G	Socket, elec, free male shell, co-axial, single pole	Z/ 5935 - 99 - 054 - 0022		
SKT-H	Socket, elec, free male shell, co-axial, single pole	Z/ 5935 - 99 - 054 - 0022		
SKT-J	Socket, elec, free male shell, co-axial, single pole	2/ 5935-99-054-0022		
SKT-K	Socket, elec, M4 brass, free male shell, size 1/0, 6-pole	Z1/5935-99-911-7968		
SKT –L	Socket, elec, free male shell, co-axial, single pole	Z/ 5935-99 - 054 - 0022		
SKT-M	Socket, elec, free male shell, co-axial, single pole	z /5935-99-054-0022		

Unit and Circuit Ref	Description	Part No		
PLUGS, SOCKETS - (cont)				
S.S.B. UNIT				
SKT	Socket, elec, M4 brass, free male shell, size 2/0, 12-pole	Z 1/5935-99 - 940 - 8529		
PLB	Plug, elec, M4 brass, free male shell, size 2/0, 12-pole	Z 1/5935-99 - 940-8525		
SKT-C	Socket, elec, free male shell, co-axial, single pole	z /5935-99-054 - 0022		
SKT-D	Socket, elec, free male shell, co-axial, single pole	z/ 5935 - 99 - 054 - 0022		
POWER SUPPLY UNIT				
PLA	Plug, elec, M4 brass, free male shell, size 2/0, 12-pole	Z 1/5935-99-940-8525		
PLB	Plug, elec, M4 brass, free male shell, size 2/1, 12-pole	Z1/ 5935-99-940-8683		
PLC	Plug, elec, M4 brass, free male shell, size 2/2, 12-pole	Z1/ 5935 - 99 - 940 <i>-</i> 8595		
PLD	Plug, elec, M4 brass, free male shell, size 2/3, 12-pole	Z 1/5935-99 - 940-9395		
SKT –E	Socket, elec, M4 brass, free male shell, size 1/0, 3-pole	z 1/5935-99-940-8630		
DISTRIBUTION UNIT				
SKT -A	Socket, elec, free male shell, co-axial, single pole	2/ 5935 - 99 - 054 - 0022		
SKT-F	Socket, elec, free male shell, co-axial, single pole	Z/5935 - 99 - 054 - 0022		
SKT-G	Socket, elec, free male shell, co-axial, single pole	Z /5935 - 99 - 054-0022		
PLH	Plug, elec, M4 brass, free male shell, size 1/0, 3-pole	Z 1/5935-99-940-8633		
SKT-H	Socket, elec, free male shell, co-axial single pole	2/ 5935 - 99 - 054 - 0022		
SKT-J	Socket, elec, M4 brass, free male shell, size 2/0, 12-pole	Z 1/5935-99 - 940 - 8529		
SKT-K	Socket, elec, M4 brass, free male shell, size 2/1, 12-pole	Z 1/5935-99-911-8226		

Table 2508 - Plugs and sockets, pin connection detail

Component	Pin	Function	Remote connection
		S.F. AND I.F.1 UNIT	
PLA	A B C D	H.T.1 H.T.4 Relay energizing supply Earth	From SKT-C Power supply unit
	E F	Oven heater supply	
	G H) L.T.2 for V1-V6, V9-V12, V14, V15 and) ILP2-9	
	J K	Earth	
	L M	L.T.5 for V7, V8 and V13 H.T.7	
PLB	Co-ax	Antenna input	From PLA, Distribution unit
PLC	A B C	A.F.C. voltage Common manual gain and a.g.c. voltages Earth	From SKT-D, Telegraph unit
PLD	Co-ax	100kc/s 2nd i.f. output	To PLD, S.S.B. unit
PLE	Co-ax	100kc/s 2nd i.f. output	To PLJ, Telegraph unit
PLG	Co-ax	2nd oscillator input or output	To PLG, Distribution unit
PLH	Co-ax	100kc/s oscillator, input or output	To PLH, Distribution unit
PLJ	Co-ax	1st oscillator voltage, input or output	To PLF, Distribution unit
PLK	A B C D E F	H.T.5 (switched) for local carrier H.T.5 (switched) for CAL 100 H.T.5 (switched) for CAL 10 Earth Relay energizing supply (desensitizing) Earth	From SKT-G, Telegraph unit

ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS

Component	Pin	Function	Remote connection				
FLL	Co-ax	100kc/s oscillator output	To PLC, S.S.B. unit				
PLM	Co-ax	100kc/s oscillator output	To PLH, Telegraph unit				
	S.S.B. UNIT						
PLA	A B C D E F G H J K L M	H.T.1 (switched) H.T.5 H.T.5 (switched) to equalizing loads Earth L.T.3 for V1-V5, V8 and V9 L.T.3 for V6, V10-V16 L.T.3 for V7, V17-V22) Earth H.T.3 (switched)	From SKT-D, Power supply unit				
SKT -B	A B C D E F G H J K L M	A.F.C. voltage (telephony) outgoing A.G.C. voltage incoming to SE A.G.C. voltage (telephony) outgoing A.G.C. voltage outgoing from SE Earth Carrier gain switching U.S.B. audio L.S.B. audio S.S.B. tuning indicator output (+) S.S.B. tuning indicator output (-) H.T.5 (switched) to local oscillator	To PLC, Telegraph unit				
PLC	Co-ax	100kc/s oscillator input	From PLL, S.F. and i.f.1 unit				
PLD	Co-ax	100kc/s 2nd i.f. input	From PLD, S.F. and i.f.1 unit				

RESTRICTED

Component	Pin	Function	Remote connection
		TELEGRAPH UNIT	
${ m PL}\alpha$	B C D E	L.T.1 for V6-V10 L.T.1 for V1, V2, V4, V5, V17 and V18 L.T.1 for V11-V16	From SKT-A, Power supply unit
	F G H J K L	L.T.4 for V3 Earth Relay energizing supply L.T.1 for V19-V23 Earth	
PLB	B C D E F G H J K	H.T.1 (switched) H.T.2 H.T.5 Earth H.T.6 H.T.5 (switched) to equalizing loads H.T.3 (switched) H.T.7 H.T.7	From SKT-B, Power supply unit
PIC	A B C D E F G H J K L M	A.F.C. voltage (telephony) incoming A.G.C. voltage outgoing A.G.C. voltage (telephony) incoming A.G.C. voltage incoming Earth Carrier gain switching U.S.B. audio, incoming L.S.B. audio, incoming S.S.B. tuning indicator input (+) S.S.B. tuning indicator input (-) H.T.5 (switched) to local oscillator	From SKT-B, S.S.B. unit
SKT -D	A B C	A.F.C. voltage Common manual gain and a.g.c. voltages Earth	To PLC, S.F. and i.f.1 uni

Component	Pin	Func tion	Remote connection
		TELEGRIPH UNIT - (cont)	
	B	\hat{\lambda}.F.C. Voltage	
	D D) Comparator signals	
SKT-E	E	Telegraph signals	To PLK, Distribution unit
	G H J K L	EarthG.C. voltage Sidetone, input Earth -	
SKT - F	B C D	U.S.B. audio output	To PLJ, Distribution unit
	E F G H J K L	Monitor output, phones Earth Monitor output, speaker Earth Relay energizing supply (desensitizing) D.C. output to telegraph relay Earth D.C. output to telegraph relay	
SKT -G	B C D E F	H.T.5 (switched) for local carrier H.T.5 (switched) for CAL 100 H.T.5 (switched) for CAL 10 Earth Relay energizing supply Earth	To PLK, S.F. and i.f.1 unit
PLH	Co-ax	100kc/s oscillator input	From PLM, S.F. and i.f.1 unit
PLJ	Co-ax	100kc/s 2nd i.f. input	From PLE, S.F. and i.f.1 unit

Component	Pin	Function	Remote connection
		POWER SUPPLY UNIT	
SKT-1.	B C) L.T.1 for V1-V18, excluding V3	To PLA, Telegraph unit
	D E F	L.T.1 for V1-V18 excluding V3	
	G H) L.T.4 for V3	
	J K	Relay energizing supply	
	L M	L.T.1 strapped to pins n, B & C L.T.1 strapped to pins D, E & F	
SKT - B	B C D E F G H J K L M	H.T.1 (switched) H.T.2 H.T.5 Earth H.T.6 H.T.5 (switched) to equalizing loads H.T.3 (switched) H.T.7 H.T.7	To PLB, Telegraph unit
SKT-C	A B C D E F G H J	H.T.1 H.T.4 Relay energizing supply Earth Oven heater supply Earth) L.T.2 for V1-V6, V9-V12,V14,V15 and) ILP2-9) L.T.2 for V1-V6, V9-V12, V14, V15 and	To PLi, S.F. and i.f.1 unit
	K L M) ILP2-9 L.T.5 for V7, V8 and V13 H.T.7	

Component	Pin	Function	Remote connection
		POWER SUPPLY UNIT - (cont)	ĺ
SKT-D	D E	H.T.1 (switched) H.T.5 H.T.5 (switched) to equalizing loads Earth	To PLA,
	F G H J) L.T.3 for V1-V22)))) L.T.3 for V1-V22	S.S.B. unit
	K L M	- H.T.3 (switched)	
PLE	A B	Mains input Earth	From SKT-H, Distribution unit
		DISTRIBUTION UNIT (See Fig 2527	.2528)
PLA AERTAL		Antenna input	To PLB, S.F. and i.f.1 unit
PLB A.C. SUPPLY	. Д В) Mains input	To SKT-H Distribution unit
	C	Earth	
SKT-C OUTPUT	B C D	U.S.B. audio output L.S.B. audio output	
	E F G H J K L	Monitor output, phones Earth from telegraph unit via PLJ Monitor output, speaker Earth from telegraph unit via PLJ Relay energizing supply (desensitizing) D.C. output to telegraph relay Earth from telegraph unit via PLJ D.C. output to telegraph relay	To PLJ, Distribution unit

Component	Pin	Function	Remote connection
		DISTRIBUTION UNIT - (cont)	
PLD TR.NSMITÆR	A B C	Sidetone input	To PLX-K, Distribution unit
	i , 1	- Earth from telegraph unit via PLK -	To PLX-L Distribution unit
SKT-E DIVERSITY	A B C D	\rightarrow A.F.C. voltage \rightarrow Comparator signals	
	E F G H J K L	Telegraph signals - Earth from telegraph unit via PLK A.G.C. voltage	To PLK, Distribution unit.
PLF 01 See Note1	Co-ax	1st oscillator, input or output	From PLJ, S.F. and i.f.1 unit
PLG 02 See Note 1	? ŧ	2nd oscillator, input or output	From PLG, S.F. and i.f.1 unit
PLH 03 See Note 1	1	100kc/s oscillator, input or output	Fromt PLH, S.F. and i.f.1 unit
SKT-H	A B C	Mains supply Earth	Linking PLB, Distribution unit to PLE, Power supply unit

Table 2508 - (cont)

Component	Pin	Function	Remote connection
		DISTRIBUTION UNIT - (cont)	
	B C D	U.S.B. audio output L.S.B. audio output Monitor output, phones	Linking SKT-F, Telegraph unit
PLJ	F G H J K L	Earth from telegraph unit Monitor output, speaker Earth from telegraph unit Relay energizing supply (desensitizing) D.C. output to telegraph relay Earth from telegraph unit D.C. output to telegraph relay	to SKT-C, Distribution unit
	B C D	<pre>} A.F.C. voltage } Comparator signals</pre>	
PLK	E F G H J K L	Telegraph signals - Earth from telegraph unit A.G.C. voltage Sidetone input Earth from telegraph unit	Linking SKT-E, Telegraph unit, to PLD and SKT-E, Distribution unit

Note 1. For use when receiver is working in dual diversity. When acting singly PLF, PLG and PLH must be terminated by the special 75Ω pads provided. (Fig 2529)

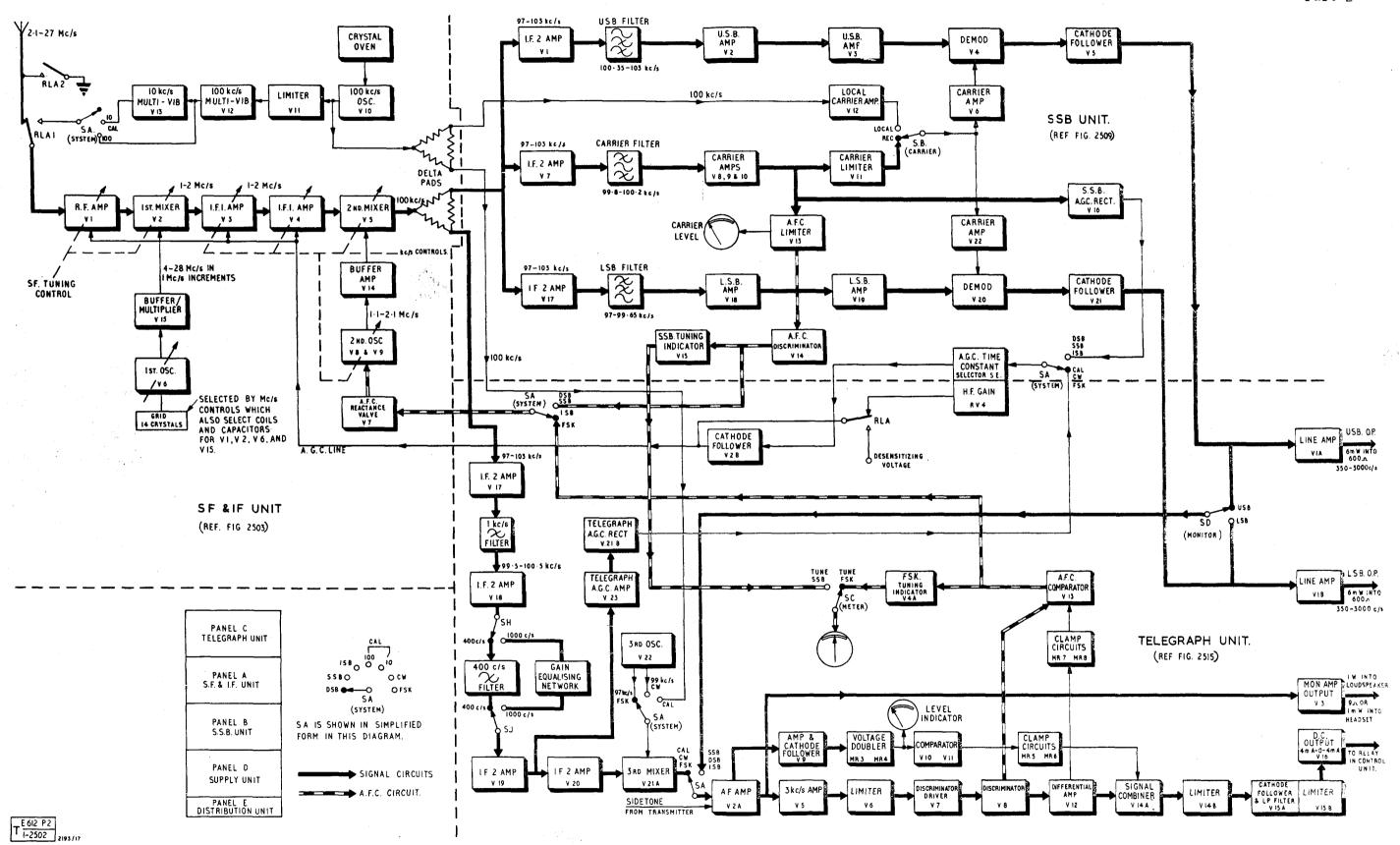


Fig 2502 - Receiver block diagram

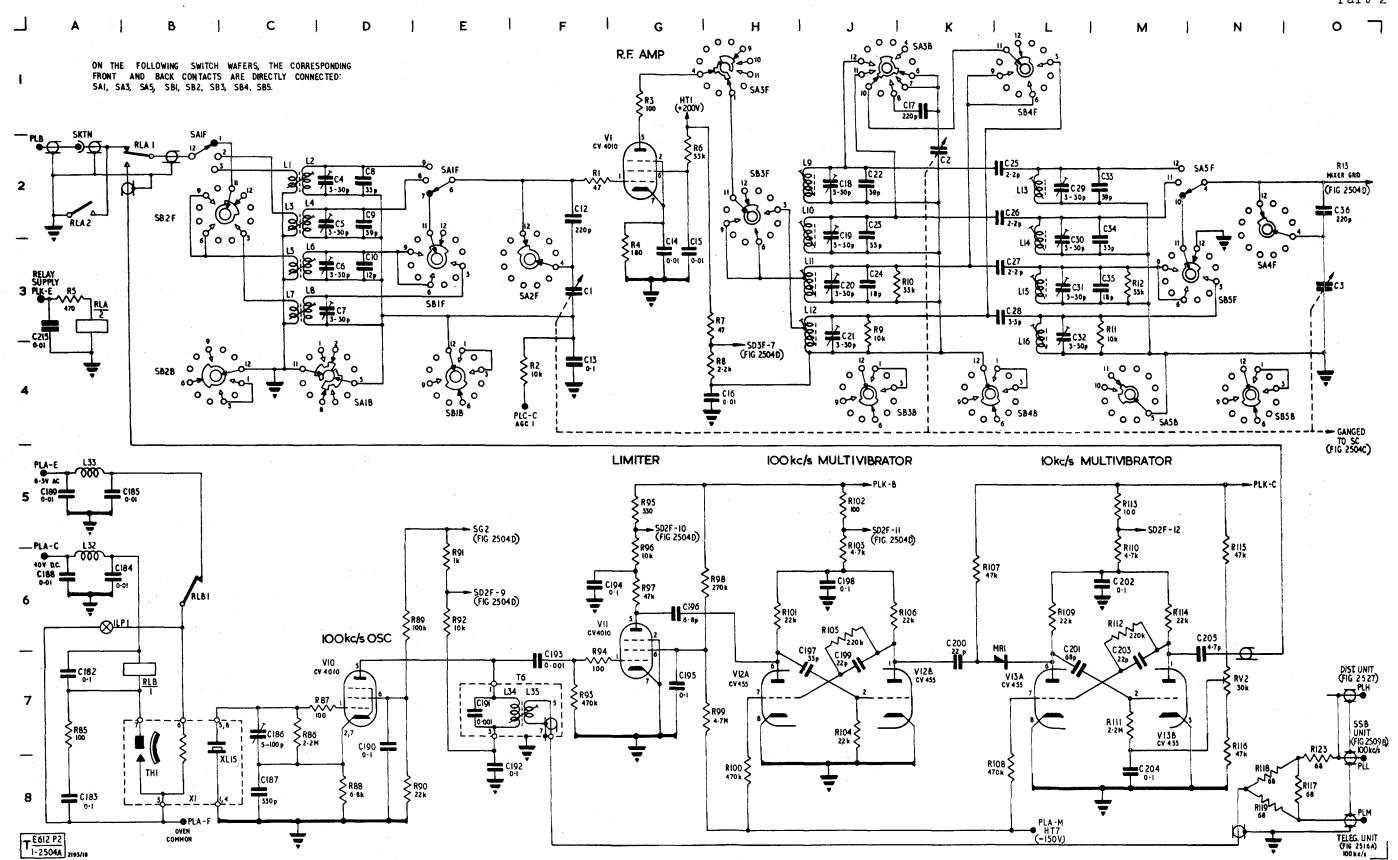


Fig 2504a - S.F. and i.f.1 unit, circuit diagram, s.f. amplifier and calibrator

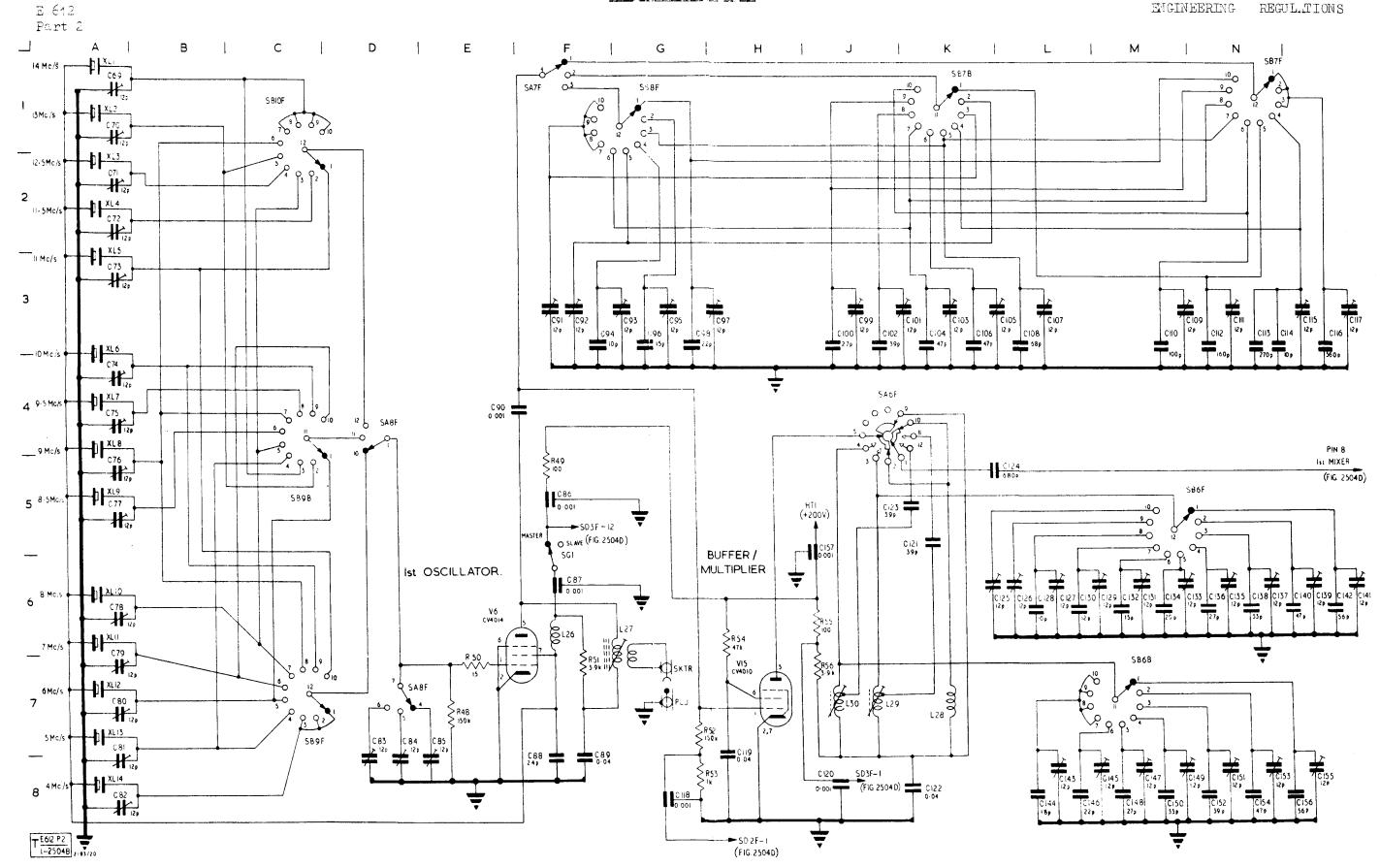
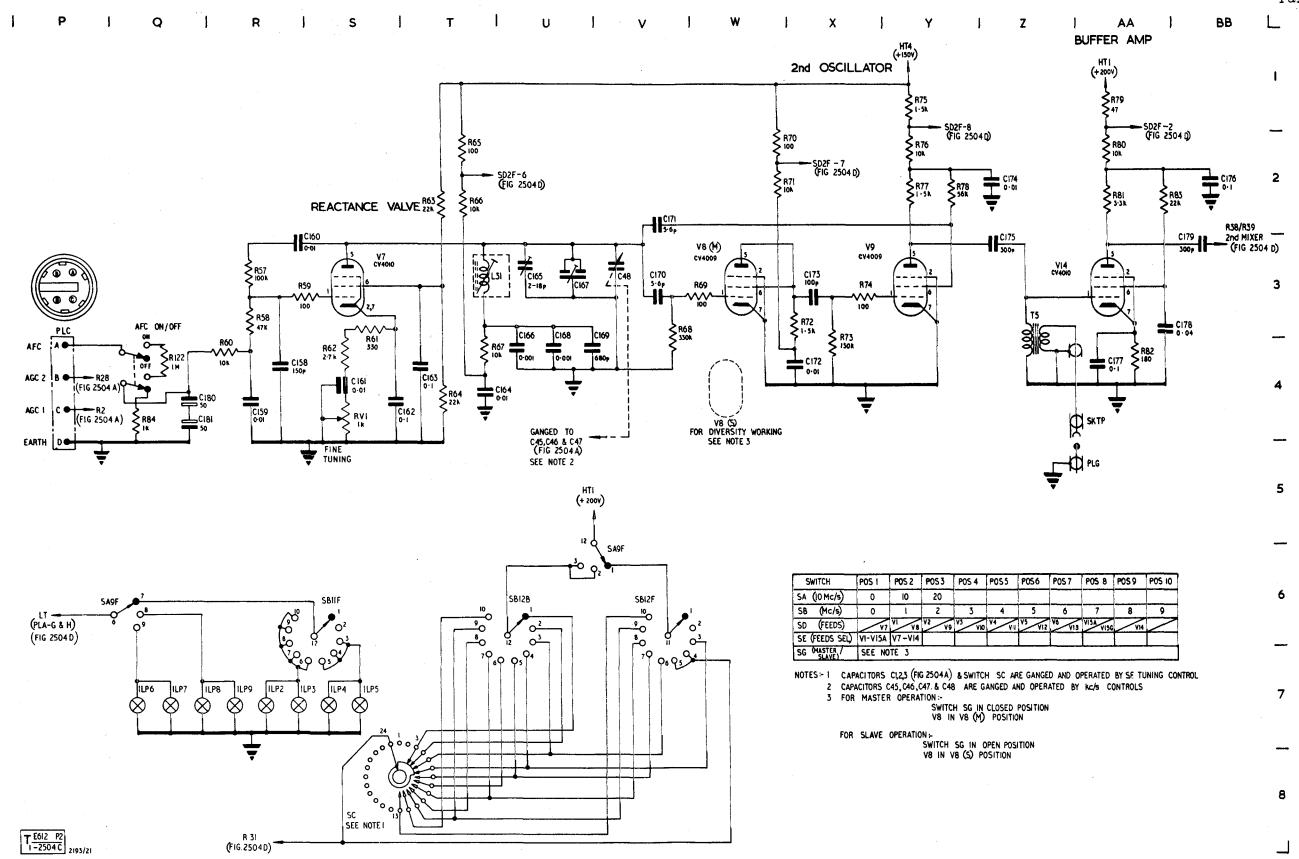


Fig 2504b - S.F. and i.f.1 unit, circuit diagram, first oscillator and buffer/multipler



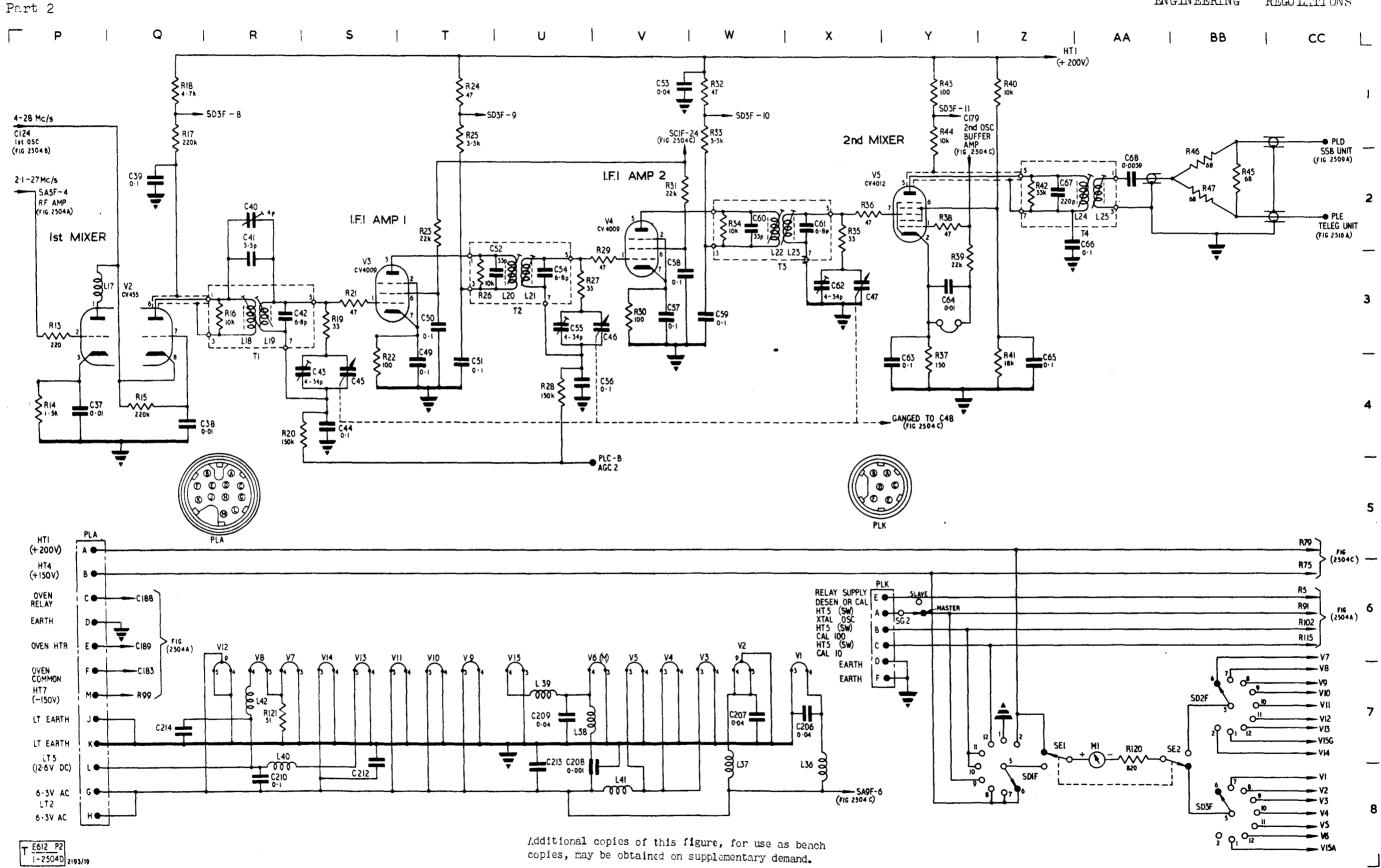


Fig 2504d - S.F. and i.f.1 unit, circuit diagram, first mixer, i.f.1 amplifier, second mixer and valve heaters

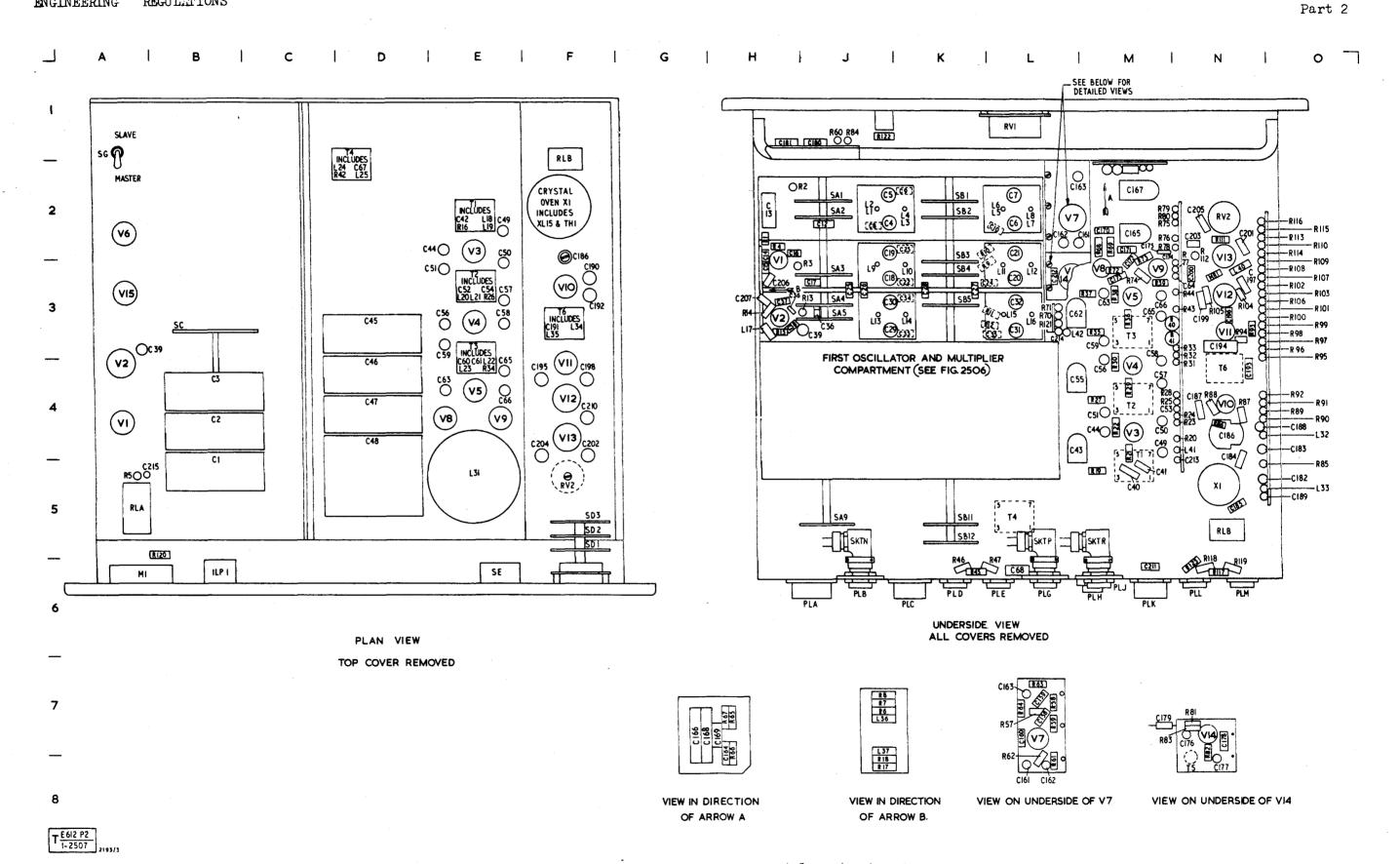
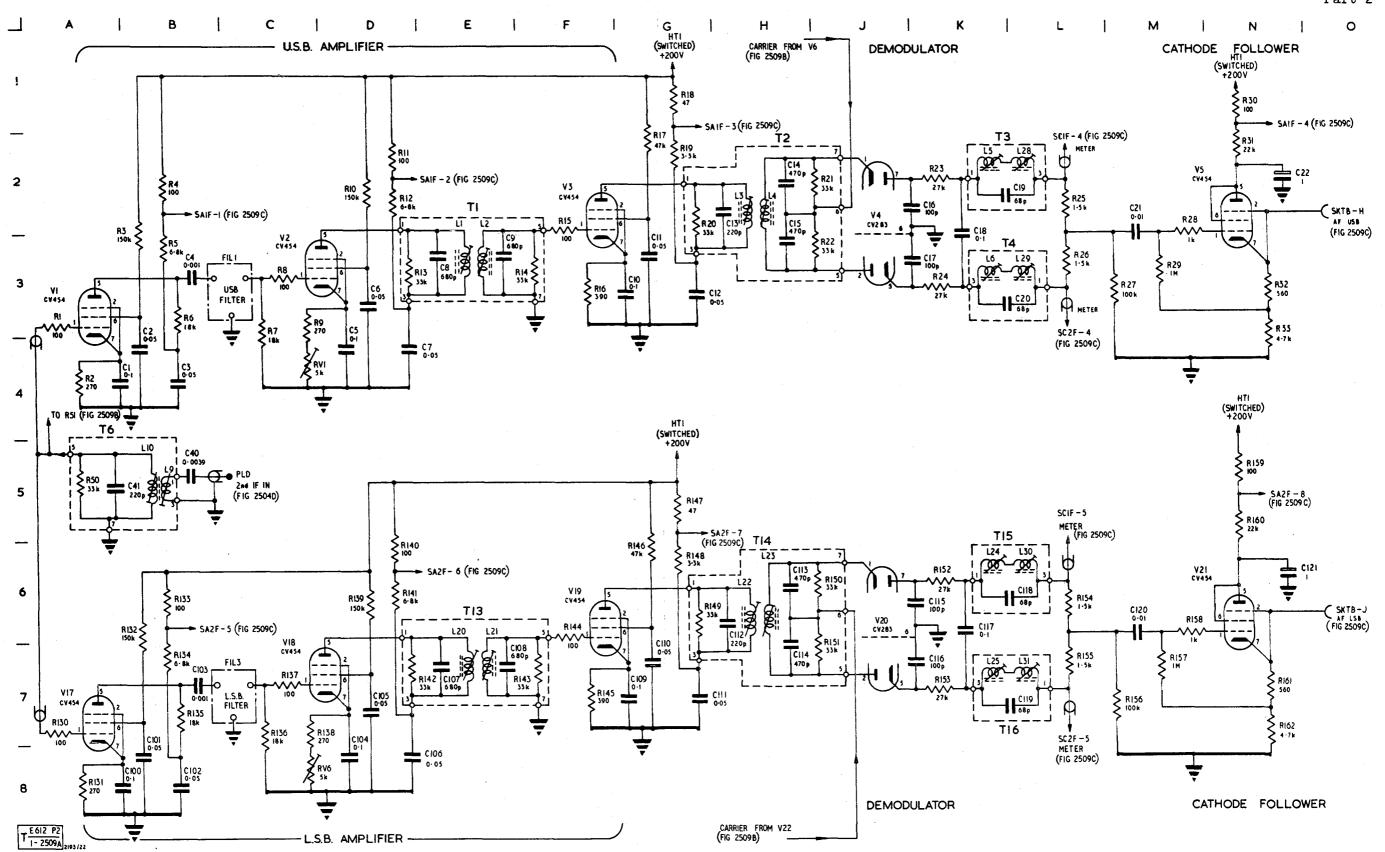


Fig 2507 - S.F. and i.f.1 unit, component layout, chassis



SC28-9 (FIG 2509c) SAIF-5 (FIG 2509c) USB DEMOD 04) (FIG 2509a) USB RECONDITIONED/LOCAL CARRIER AMPLIFIER 2 RECONDITIONED CARRIER AMPLIFIER V7-VII AFC LIMITER C69 (FIG 2509c) AGC RECTIFIER C83 (FIG 2509c) HTI+ (200V) SWITCHED SAZF-I (FIG 2509c) SBIF-8 - SBIF -1 (FIG 2509c) AIF-6 (FIG 2509c) SAIF-9 (FIG 2509c) (FIG 2509c) LOCAL CARRIER AMP (VI2) SBIF-10 (FIG 2509c) HT3-(200V) SWITCHED SKTB-F (FIG 2509c) —(SKTB-G (FIG 2509c) SC28-10 (FIG 2509c) 7 SA2F-9 (FIG 2509c) LSB DEMOD (V20) (FIG 2509a) LSB RECONDITIONED/LOCAL 8 LOCAL CARRIER INPUT (FIG 2504a) T E612 P2 Additional copies of this figure, for use as bench copies, may be obtained on supplementary demand.

Fig 2509b - S.S.B. unit, circuit diagram, reconditioned and local carrier amplifiers

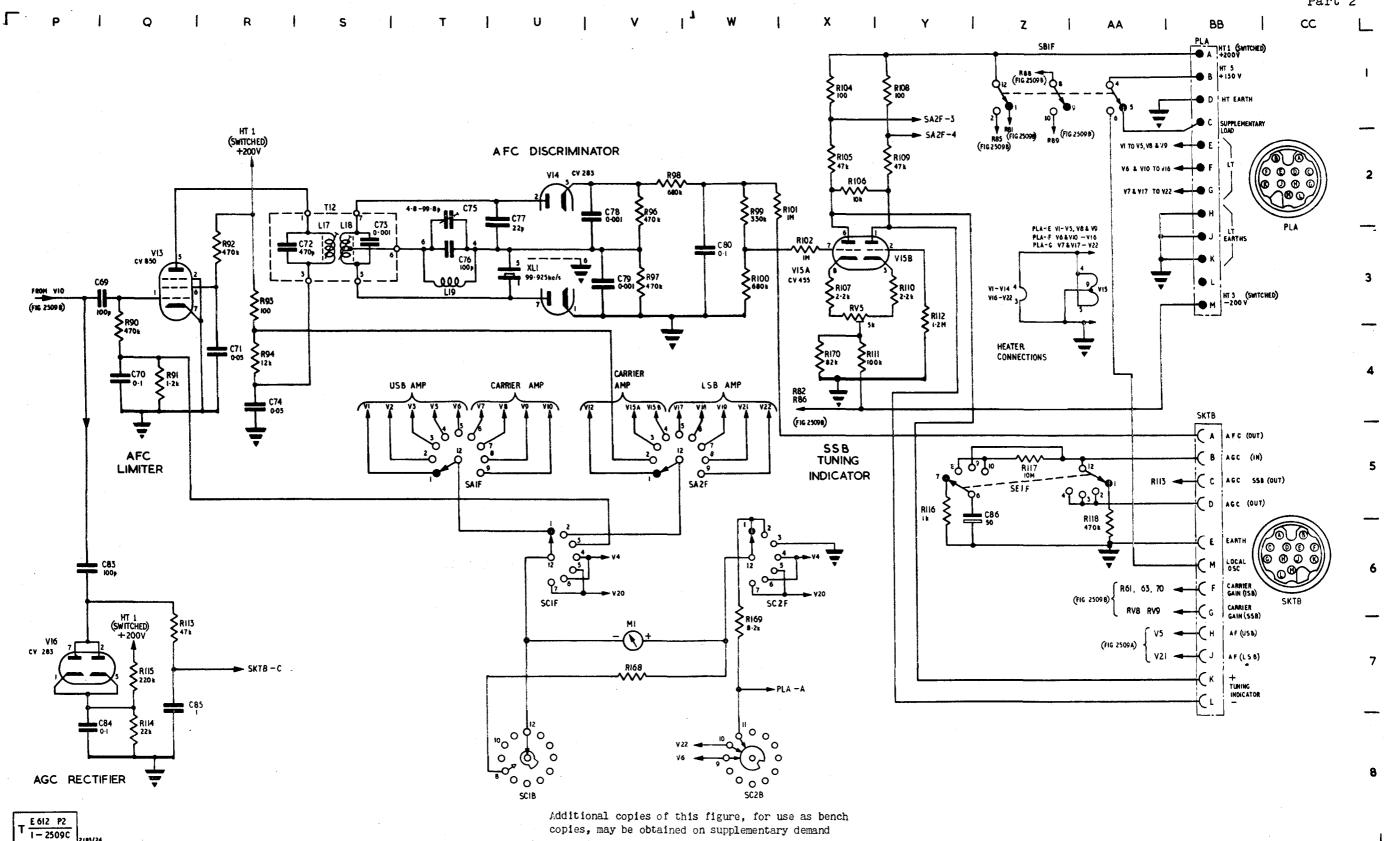


Fig 2509c - S.S.B. unit, circuit diagram, a.f.c. limiter and discriminator, a.g.c. rectifier, tuning indicator stage and valve heaters

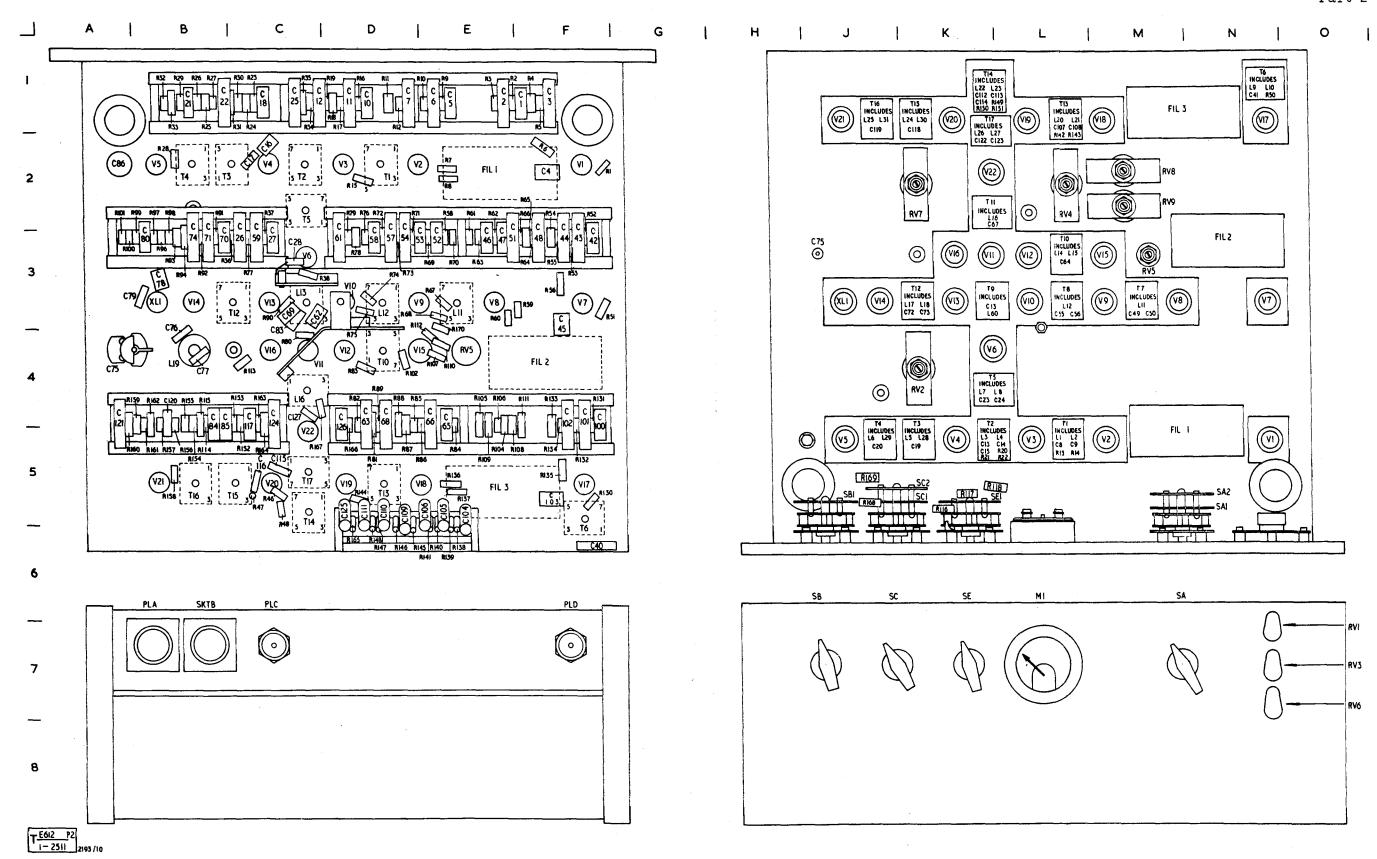


Fig 2511 - S.S.B. unit, component layout, chassis and panel

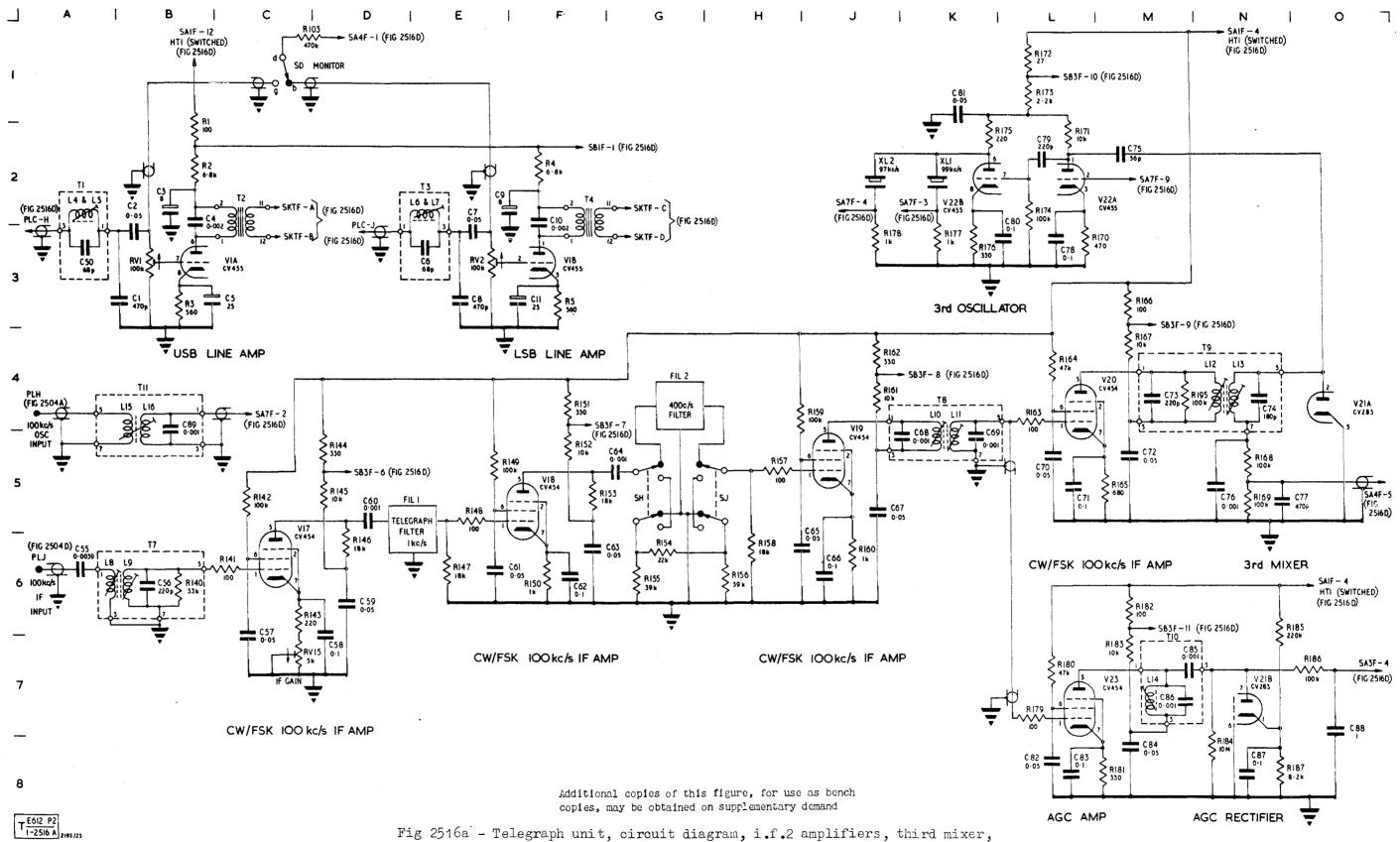


Fig 2516a - Telegraph unit, circuit diagram, i.f.2 amplifiers, third mixer, third oscillator, a.g.c. rectifier and sideband line amplifiers

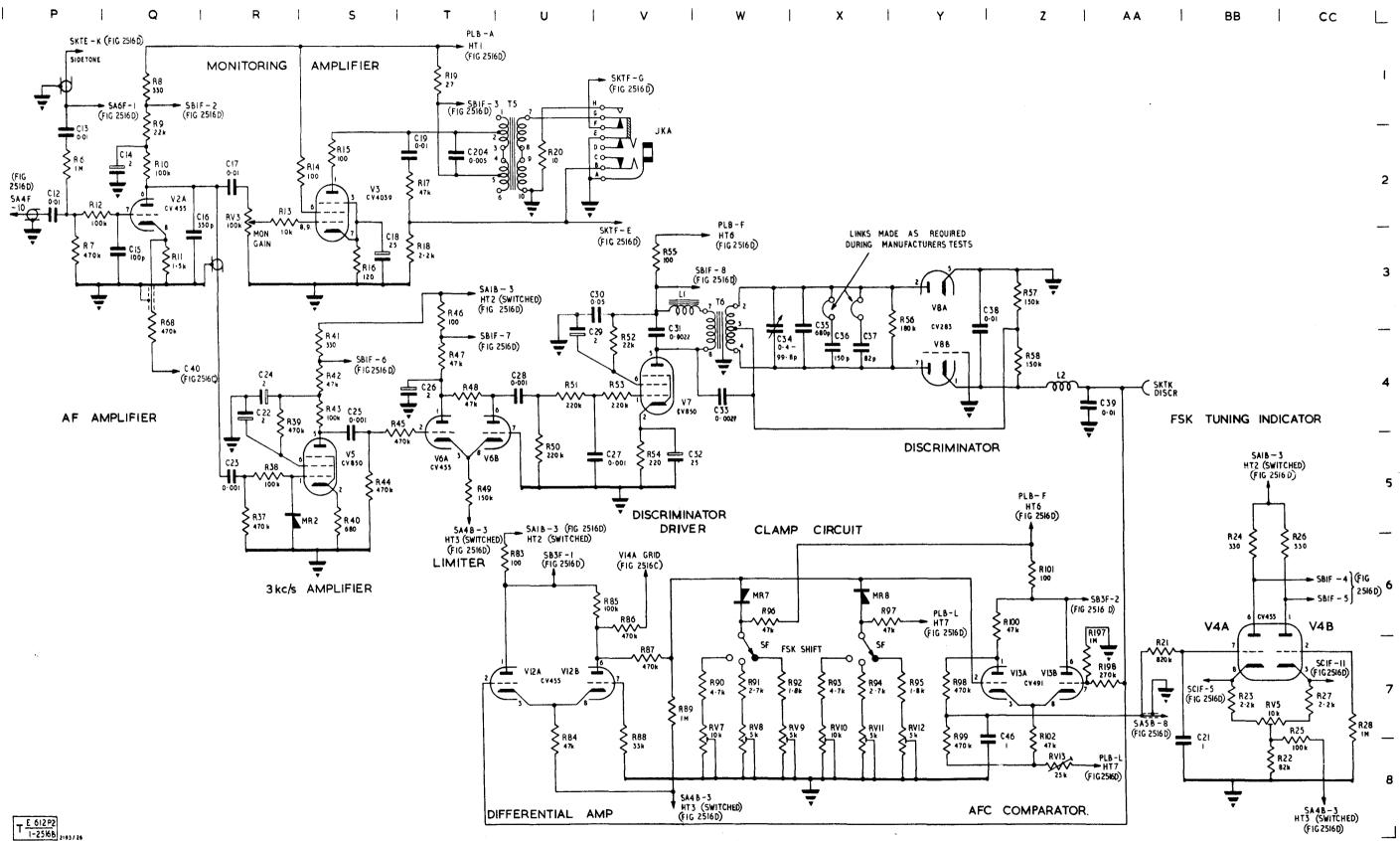
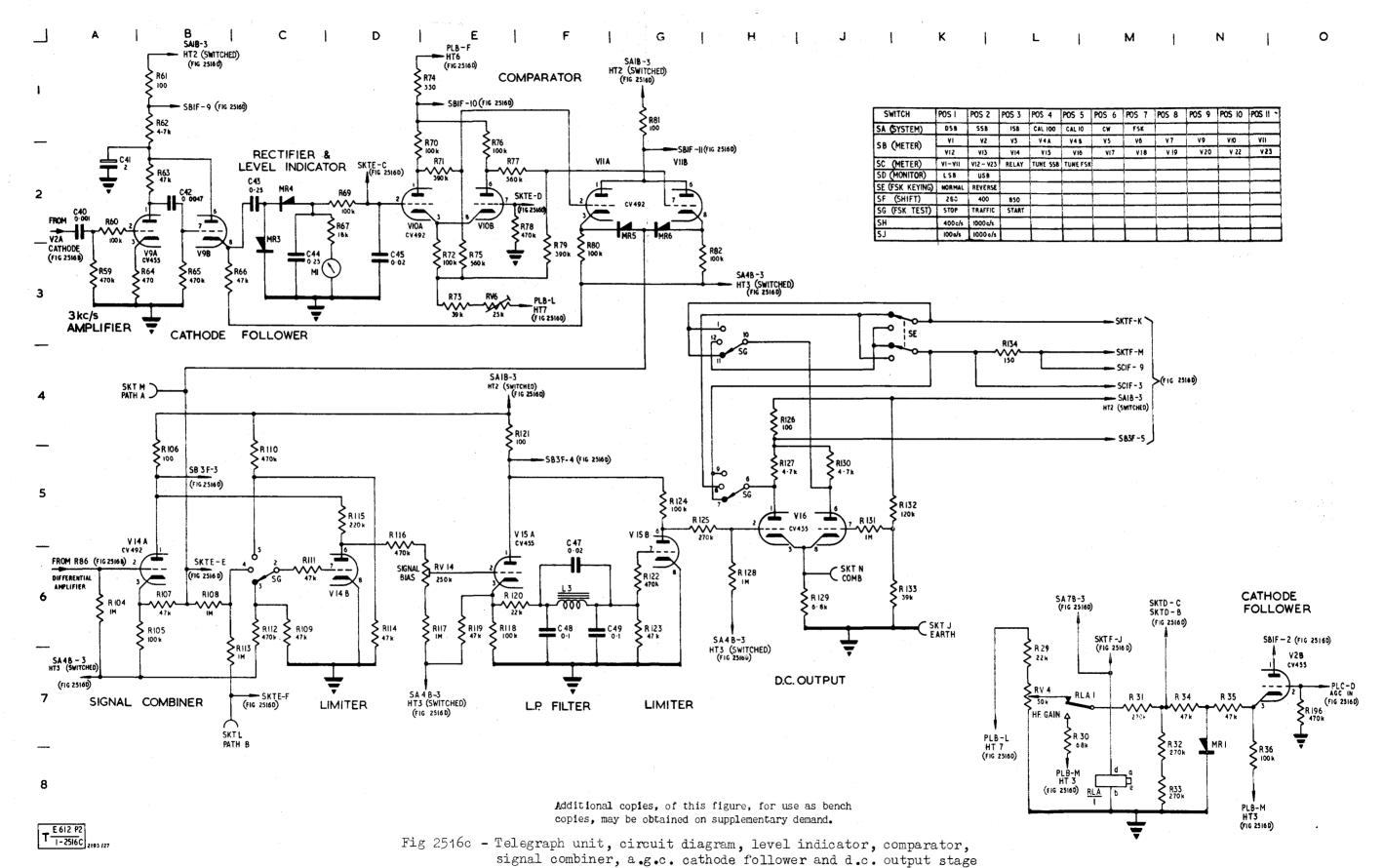


Fig 2516b - Telegraph unit, circuit diagram, 3kc/s amplifier, f.s.k. discriminator and tuning indicator stage, a.f.c. comparator and a.f. and monitoring amplifiers

Additional copies of this figure, for use as bench

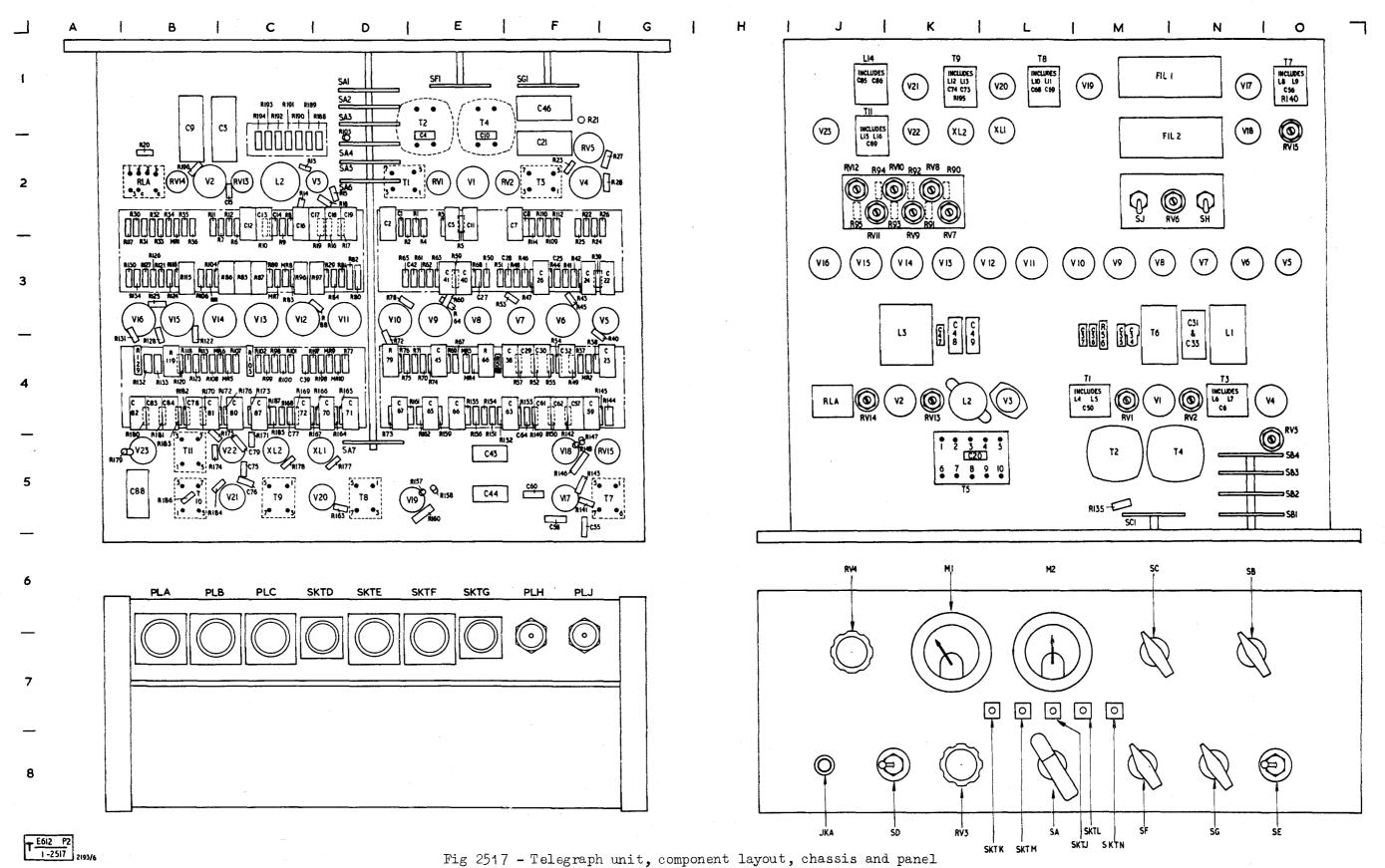
copies, may be obtained on supplementary demand.



Part 2 U AA CC (FIG 2516A) R103 (FIG 2516 A) (SWITCHED) VI7 - V23 (FIG 2516A) 0 7V (LTI) ره ه ر 000 RIGI 0 0 C 88 (FIG 2516 A) SAIF SA4F (FIG 2516A) SA5F EARTH (LTI) ₹ R193 EARTH 000 EARTH (LT4) SA3B SA4B SA5B SAZB SAL π်ဝ Ωု 000 RELAY SUPPLY 3 (SWITCHED) ૾ ૐ૾૽ 0 0 0 0 RLAd (FIG 2516C) 0 0 R98 R99 (FIG 2516 B) 1000 000 0 000 0 0 HTI + 200V HTI /SW) B - 200V HTS + 150V HT6 + 150V HT6 + 150V HT6 , V22 SKTF (FIG 2516 B) M EARTH R194 USB AUDIO A LOC CARR CC CAL 100 HT5 (SWITCHED) LSB AUDIO HT2 (SWITCHED) C E RELAY SUPPLY **A**MRIO HTS (SWITCHED) R17, R18 (FIG 25169) (FIG 2516 C) (FIG 2516 B) MONITOR HEADSET R 74 (FIG 2516 C) R96 FIG 2516 B) G MONITOR OUTPUT LOUDSPEAKER (FIG 2516 B) RV13 (FIG 2516 8) RV6 } (FIG 2516 C) 5 SKT E SUPPLY (EXTERNAL)

(K DC OUTPUT A AFC OUT B AFC IN SEE NOTE COMP OUT (FIG 25IAC) RAG DC OUTPUT (FIG 2516C) V 10 - PIN 7 R107 - (FIG 2516C) R113 - (FIG 2516C) COMP IN - R30 R36 TELE OUT (FIG 2516 C) TELE IN AFC IN A (6 AGC OUT EARTH SSB AGC IN AGC IN AGC K SIDETONE IN CARR GAIN CARR GAIN (SSB) USB AF 7 LSB AF SB2F SSB + TUNING IND -HT5 SKTD -CA AFC (SWITCHED) ME R31 R32 - R134 (FIG 2516 C) D EARTH → R23 (FIG 2516 B) SCIF SCIF TE612 P2 X NOTE: LINK REMOVED FOR DIVERSITY RECEPTION

Fig 2516d - Telegraph unit, circuit diagram, plugs, sockets, switching and valve heaters



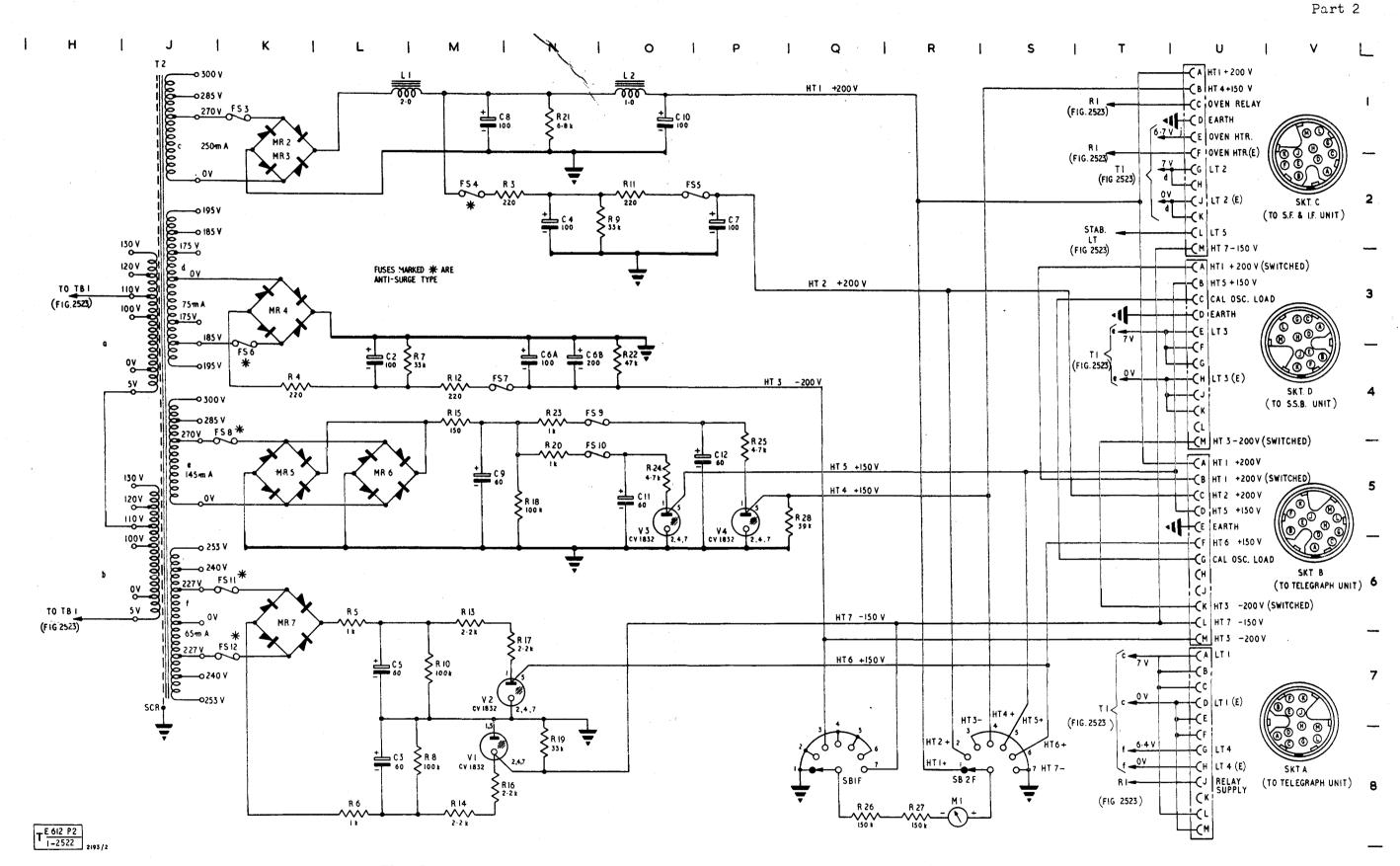
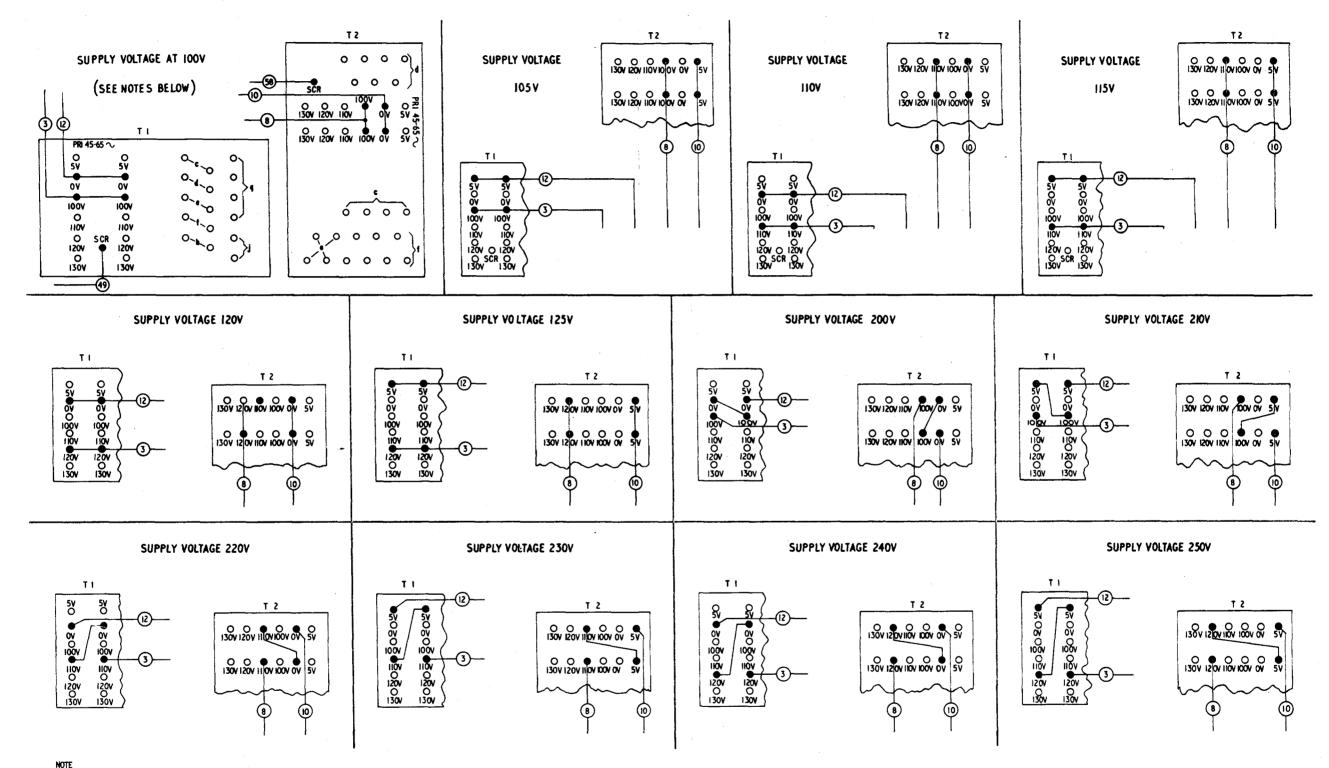


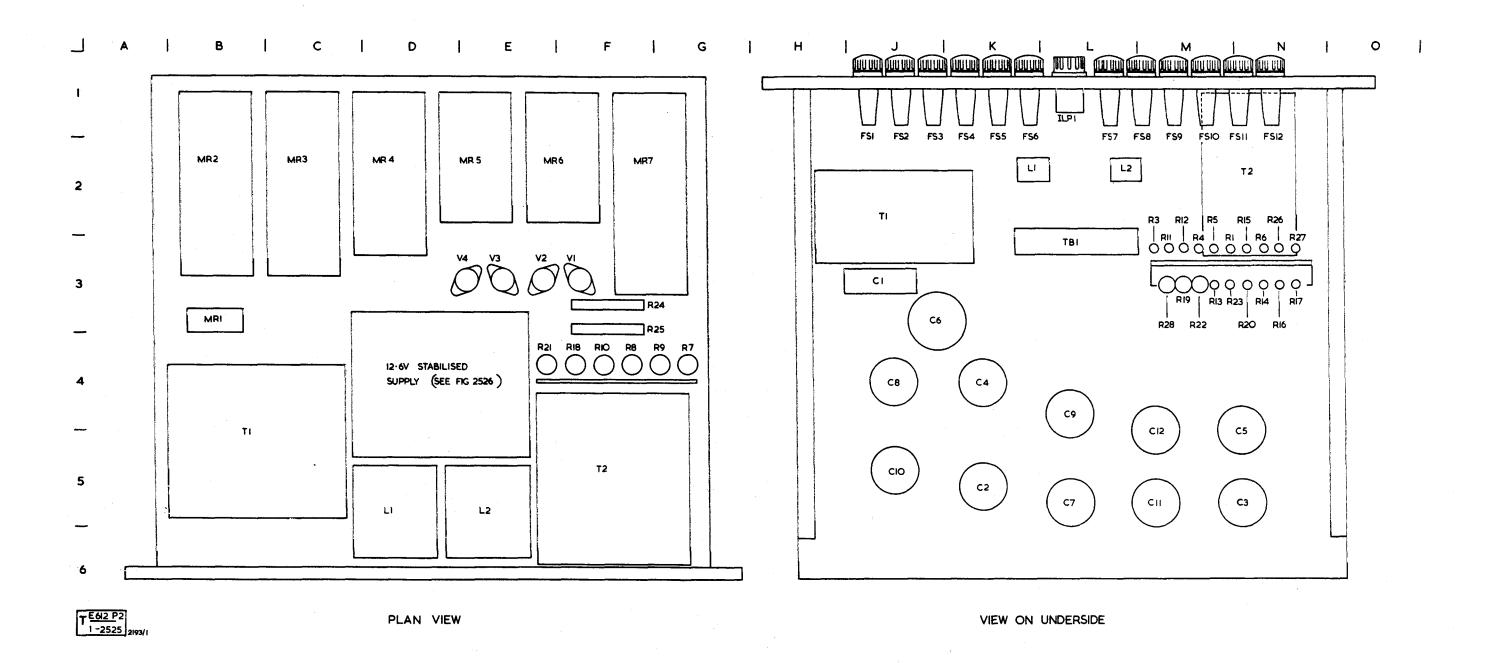
Fig 2522 - Power supply unit, circuit diagram, h.t. supplies and output sockets

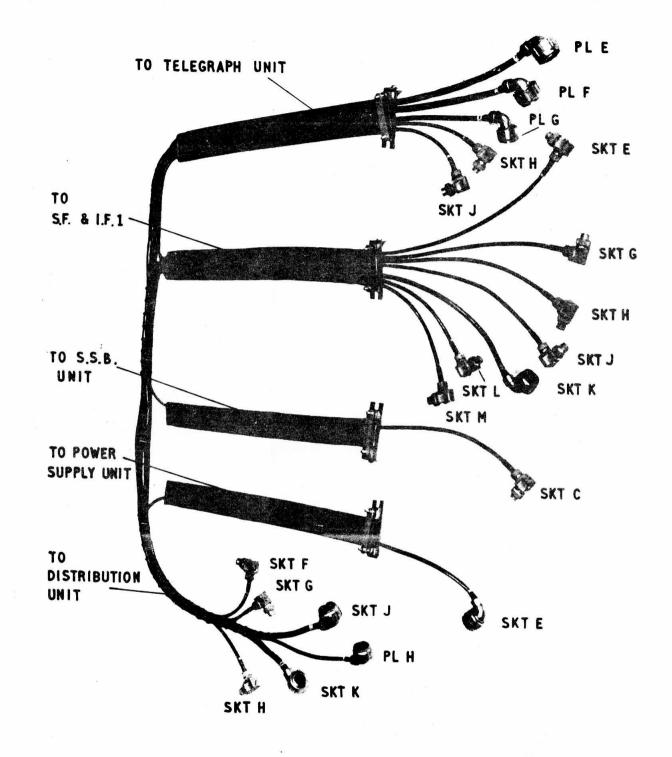


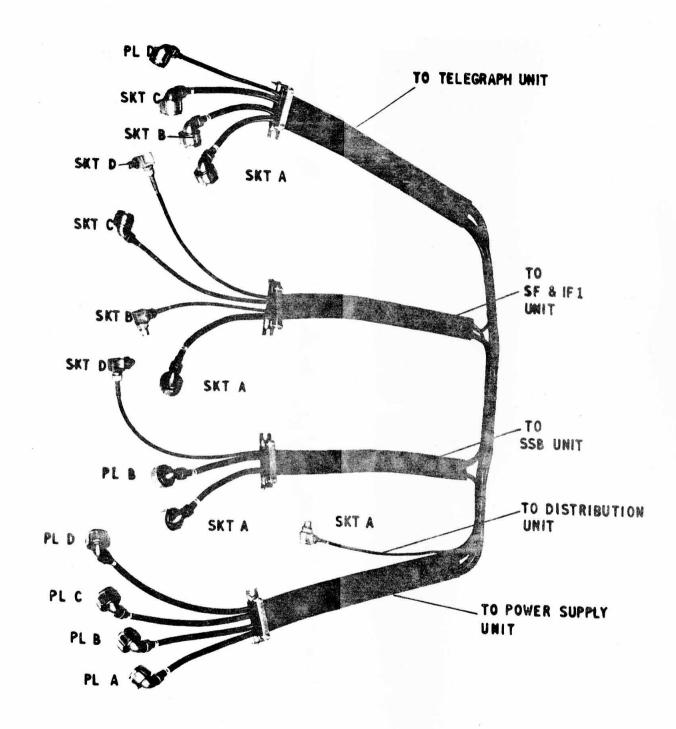
- 1. IMPORTANT: WHEN PRIMARY CONNECTIONS HAVE BEEN ALTERED, ENSURE THAT THE MAINS VOLTAGE INDICATING PLATE ON THE FRONT PANEL IS CORRECTLY SET. 2. NUMBERED IDENTIFICATION SLEEVES AS INDICATED ARE NORMALLY FITTED TO PRIMARY WINDING AND SCREEN CONNECTING WIRES.
 - 3 ALL TRANSFORMER TAGBOARD LAYOUTS AND WINDING IDENTIFICATIONS ARE AS SHOWN FOR IOQVOLT SUPPLY. ONLY PRIMARY TAGS

 ARE SHOWN IN OTHER DIAGRAMS.

T E612 P2







Left-hand harness, viewed from rear of equipment

Right-hand harness, viewed from rear of equipment