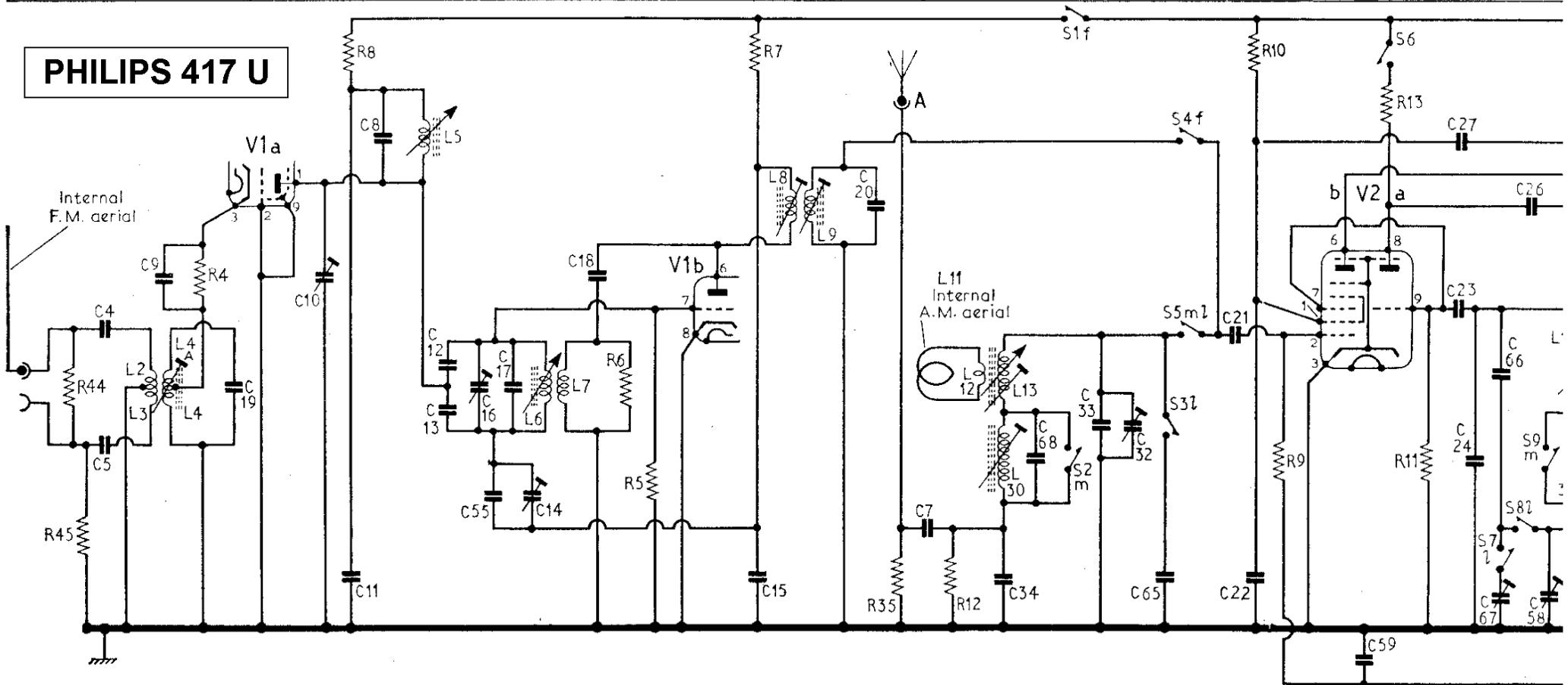
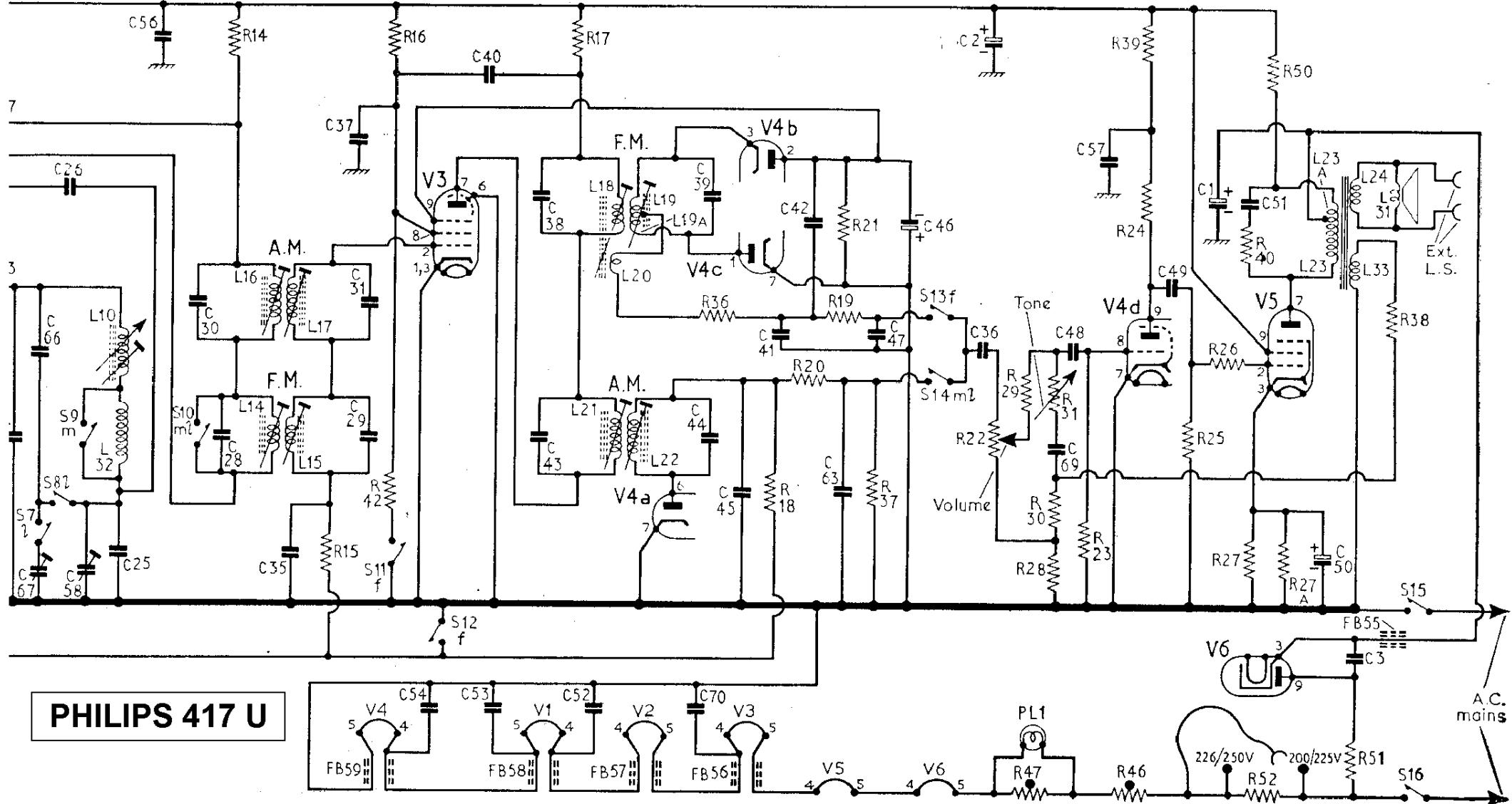


C	4,5	9	19	10	11	8	12,13,16,55,17,14	18	15	20	7	34	68	33	32	65	21,22	59	27,23,24,66,67,26	
R	44,45		4		8		6,5		7		35	12					10	9	13	11
L	2,3,4,4A			5		6,7			8,9		11		12,13,30							



Circuit diagram of the chassis incorporated in Philips B4G17U and Stella ST154U radio receivers. Permeability tuning is used on both a.m. and f.m. wavebands, the second arrows through L10 and L13 represent separate pre-set tracking adjustment screws. The internal a.m. aerial takes the form of a single rigid pick-up loop which encompasses the chassis, and the internal f.m. aerial comprises a length of lead wound on the back cover

13,24,66,67,26,58,25,56	30,28	35	37,31,29	54	40,53	38,43	52	70,39,44,45,41,42	63	47	46	36,2	69,48,57	49	1	51	50	3	C
14	15	14,15,16,42	17	36	18	20	21,19,37	22	29,47,31,30,28,23,46,39,24,25,26,40,27,52,50,27A,51	38	23,23A,24,33,31	R	L						
10,32	14,15,16,17		18,19,19A,20,21,22																



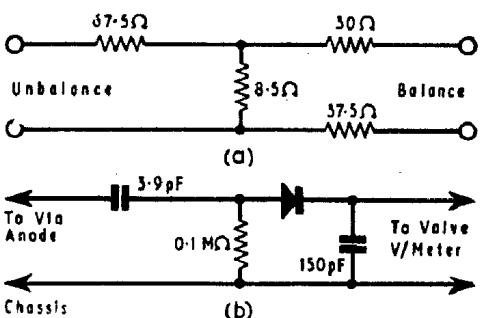
Valve Table

Valve	Anode (V)	Screen (V)	Cathode (V)
V1a UCC85	— 180	—	— 1.9
V1b UCC85	— 135	—	—
V2a UCH81	— 100	—	—
V2b UCH81	— 220	54	—
V3 UF89	— 180	90	—
V4d UABC80	— 64	—	—
V5 UL84	— 225	225	18.0
V6 UY85	— 220	205	16.5
	— 60	—	250.0
	— 210S	—	245.0

*Receiver switched to a.m.

†Receiver switched to f.m.

§A.C. reading.

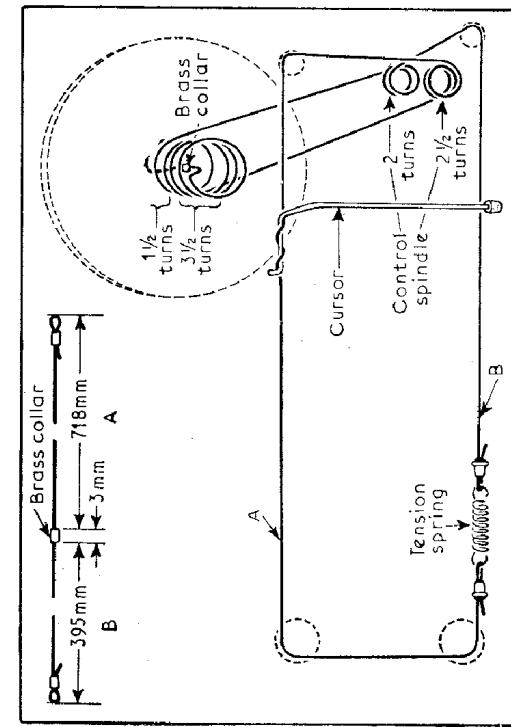


Input matching network (a) and detector circuit (b) referred to in the alignment instructions

PHILIPS 417 U

Resistors			Capacitors			Coils and Transformers*			Miscellaneous		
R4	180Ω	H4	C37	4,700pF	G4	L7	—	A1	FB55	—	E5
R5	100kΩ	H4	C38	22pF	C2	L8	1.8	A2	FB56	—	F5
R6	2.2kΩ	H4	C39	47pF	C2	L9	1.9	B2	FB57	—	G5
R7	10kΩ	H4	C40	4,700pF	F5	L10	23.0	B1	FB58	—	H5
R8	2.2kΩ	H4	C41	330pF	F5	L11	—	G4	FB59	—	F5
R9	1MΩ	G5	C42	330pF	F5	L12	—	B1	PL1	19V 0.1A	B1
R10	39kΩ	G5	C43	195pF	C2	L13	7.0	B1	S1-S4	—	G4
R11	47kΩ	G5	C44	195pF	C2	L14	—	B2	S15, S16	—	E4
R12	33kΩ	H5	C45	100pF	F5	L15	1.7	B2			
R13	33kΩ	G5	C46	2μF	F4	L16	7.5	B2			
R14	2.2kΩ	G5	C47	330pF	F4	L17	4.5	B2			
R15	1MΩ	G4	C48	0.01μF	F4	L18	1.4	C2			
R16	33kΩ	G5	C49	0.01μF	F5	L19	—	C2			
			C50	25pF	E4	L19A	—	C2			
			C51	1,000pF	C1	L20	—	C2			
			C52	1,000pF	H5	L21	4.5	C2			
			C53	1,000pF	H5	L22	—	C2			
			C54	1,000pF	F5	L23	350.0	C2			
			C55	5.6pF	H5	L23A	12.0	C2			
			C56	1,000pF	G4	L24	1.0	B1			
			C57	0.22μF	F4	L30	—	B2			
			C58	18pF	B2	L31	3.5	G4			
			C59	0.022μF	F4	L32	—	C1			
			C60	100pF	F5	L33	10.0	C1			
			C61	742pF	G4						
			C62	15pF	G4						
			C63	50pF	B2						
			C64	56pF	G4						
			C65	390pF	E4						
			C66	1,000pF	F5						
			C67	1,000pF	F5						
			C68	1,000pF	F5						
			C69	1,000pF	F5						
			C70	1,000pF	F5						

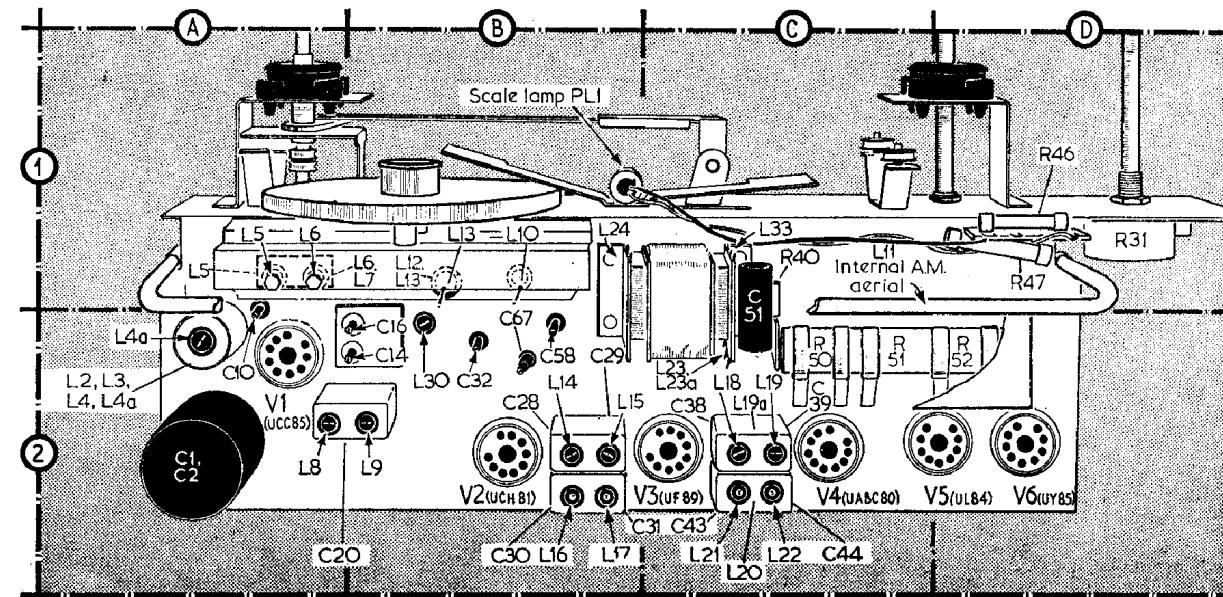
*Approximate d.c. resistance in ohms.



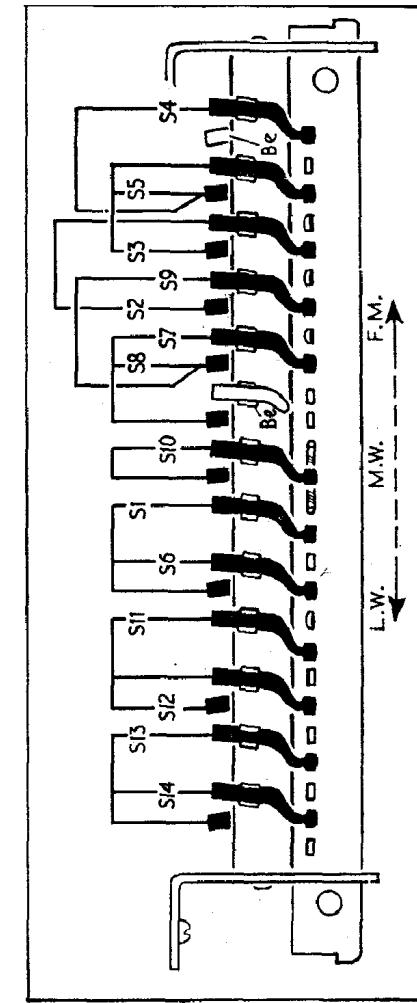
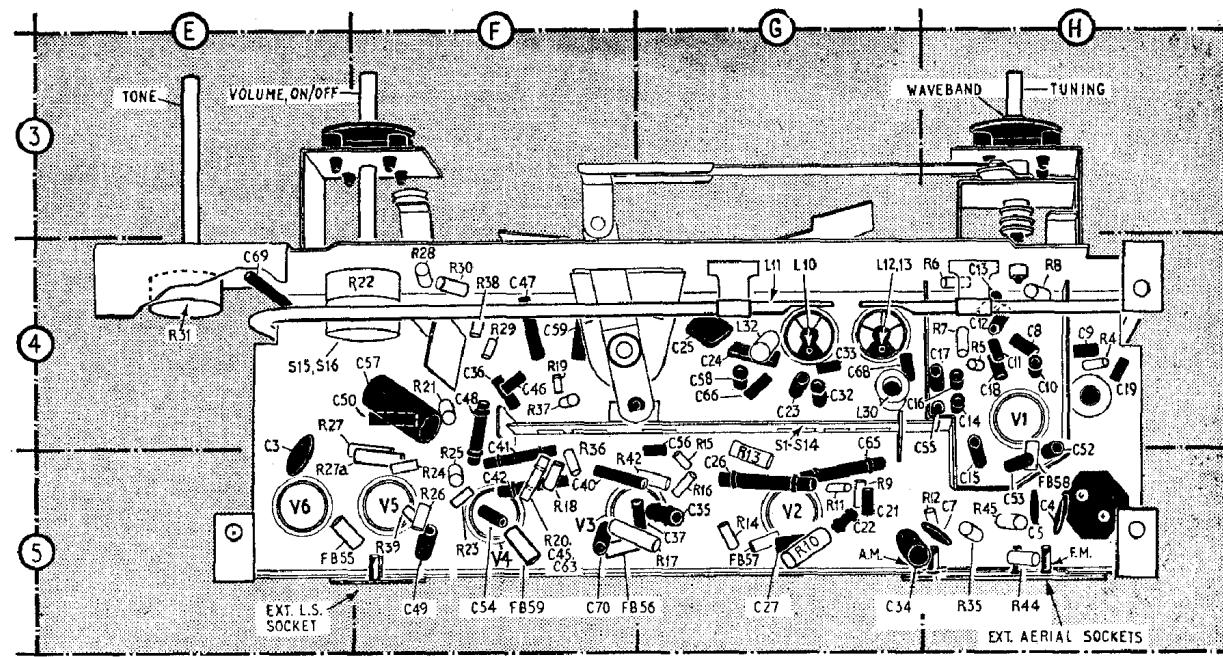
Tuning drive system drawn as seen from the front of the chassis. The length of cord required is indicated at the top of the diagram but in some cases length B may require to be slightly longer than the 395mm quoted

PHILIPS 417 U

Plan view of the chassis showing alignment adjustment positions. The ballast resistor R50, R51, R52 would normally be obscured from this angle by the heat deflecting screen



Underside view of the chassis. The screws associated with coils **L10** and **L13** shown in location reference G4, are the pre-set adjustments mounted alongside the coils themselves



The waveband switch assembly drawn as seen from the front of an inverted chassis