

PHILIPS

Model F5G96A

General Description: Nine-valve (including rectifier), three-waveband, A.M./F.M. dual-channel stereo auto-radiogram with AG1014 record unit. Developed from G75U series (1958-59 volume).

Power Supply: A.C. mains, 200-250 volts, 50 c/s., about 130 watts. Note that chassis may be "live".

Wavebands: M.W. 187-569 m.; L.W. 1128-2000 m.; V.H.F. 87.5-100 Mc/s.

Valves: (V1) UF80; (V2) UF80; (V3) UCH81; (V4) UF89; (V5) UABC80; (V6) UL84 (right-hand channel); (V7) UY85; (V8) UCL82 (left-hand channel); (V9) UY85 (rectifier for left-hand channel).

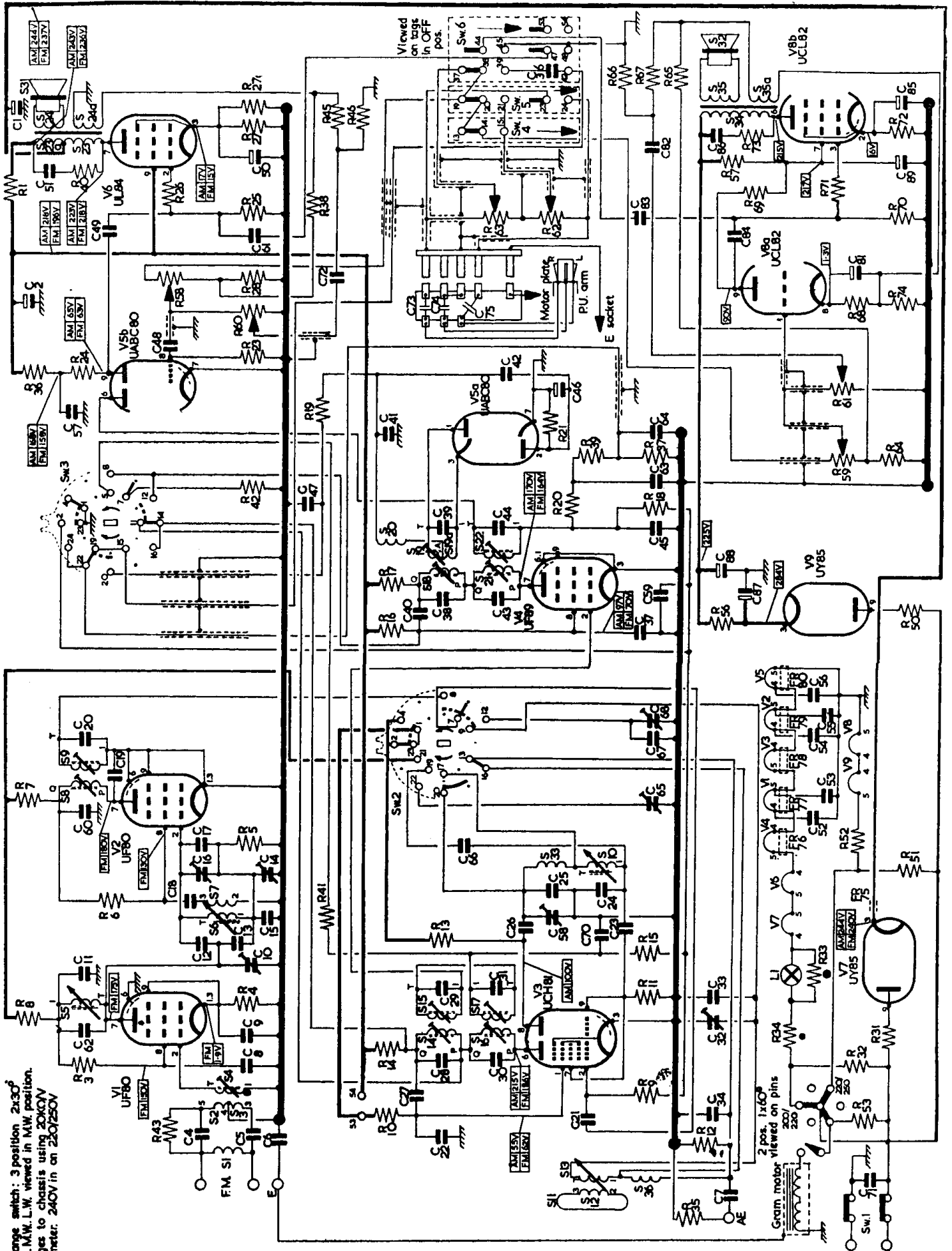
Alignment Frequencies: I.F. (A.M.) 470 kc/s.; I.F. (F.M.) 10.7 Mc/s.; M.W. 1620 kc/s.; L.W. 180 kc/s.; F.M. 87.5 Mc/s. and 100 Mc/s. Procedure as Model G75U.

Pilot Lamp: 19 volts, 0.1 amp. (Philips Type 8097D).

Chassis Removal: Disconnect leads of both speakers and record-changer motor mains leads. Remove record-changer fixing bushes, tilt unit and remove pick-up input plug. Record changer can now be removed. Slacken screws retaining balance control and aerial panel and remove both. Remove push-button assembly fixing screws, by first removing base-plate or by use of long Phillips-type screw-driver. Remove four chassis fixing screws, remove V1 and withdraw chassis.

Component Values:

Capacitors.								
C1	50		C42	390 pF. (10%)		C87	50	
C2	100		C43	195 pF.		C88	50	
C3	1000 pF.		C44	195 pF.		C89	50	
C4	1000 pF.		C45	82 pF. (10%)		Resistors.		
C5	1000 pF.		C46	10 (70 v.)		R1	1k (3 W., W.W.)	
C6	4700 pF.		C47	820 pF. (10%)		R3	10k	
C7	1800 pF.		C48	0.01 (10%)		R4	180	
C8	1000 pF.		C49	0.022 (10%)		R5	1M	
C9	220 pF.		C50	25 (25 v.)		R6	22k	
C10	2-5 pF.		C51	1000 pF. (1300 v.)		R7	2.2k	
C11	1000 pF.		C52	1000 pF.		R8	2.2k	
C12	8.2 pF.		C53	1000 pF.		R9	1M	
C13	8.2 pF.		C54	1000 pF.		R10	39k (1 W.)	
C14	2-10 pF.		C55	1000 pF.		R11	47k	
C15	8.2 pF.		C56	1000 pF.		R12	33k	
C16	2-5 pF.		C57	0.1		R13	33k (1 W.)	
C17	18 pF. (5%)		C58	18 pF.		R14	2.2k	
C18	47 pF. (10%)		C59	0.047 (10%)		R15	1M	
C19	18 pF. (10%)		C60	1000 pF.		R16	33k (1 W.)	
C20	15 pF.		C61	1500 pF.		R17	4.7k (1 W.)	
C21	100 pF. (10%)		C62	5.6 pF.		R18	1.2M	
C22	3900 pF.		C63	47 pF. (10%)		R19	47k	
C23	56 pF. (10%)		C64	47 pF. (10%)		R20	27k	
C24	290 pF. (1%)		C65	50 pF.		R21	10k	
C25	120 pF. (1%)		C66	15 pF. (10%)		R23	10M	
C26	470 pF. (10%)		C67	390 pF. (10%)		R24	0.22M	
C27	4700 pF.		C68	400 pF.		R25	0.47M	
C28	33 pF.		C70	100 pF.		R26	1k	
C29	33 pF.		C71	0.033		R27	560 (1 W.)	
C30	110 pF.		C72	470 pF. (10%)		R27a	560 (1 W.)	
C31	195 pF.		C73	4700 pF.		R28	68	
C32	18 pF.		C74	4700 pF.		R31	100 (5%, 3 W., W.W.)	
C33	33 pF. (10%)		C75	4700 pF.		R32	150 (5%, 3 W., W.W.)	
C34	3000 pF. (5%)		C76	4700 pF.		R33	Varite	
C36	4700 pF.		C81	25		R34	Varite	
C37	6800 pF.		C82	470 pF.		R35	10M (1/2 W., 20%)	
C38	22 pF.		C83	1500 pF.		R36	0.1M (20%)	
C39	47 pF.		C84	0.012		(1/2 W., 10% unless otherwise indicated.)		
C40	4700 pF.		C85	25				
C41	390 pF. (10%)		C86	1000 pF. (1300 v.)				



CIRCUIT DIAGRAM—PHILIPS MODEL F5G96A