

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.

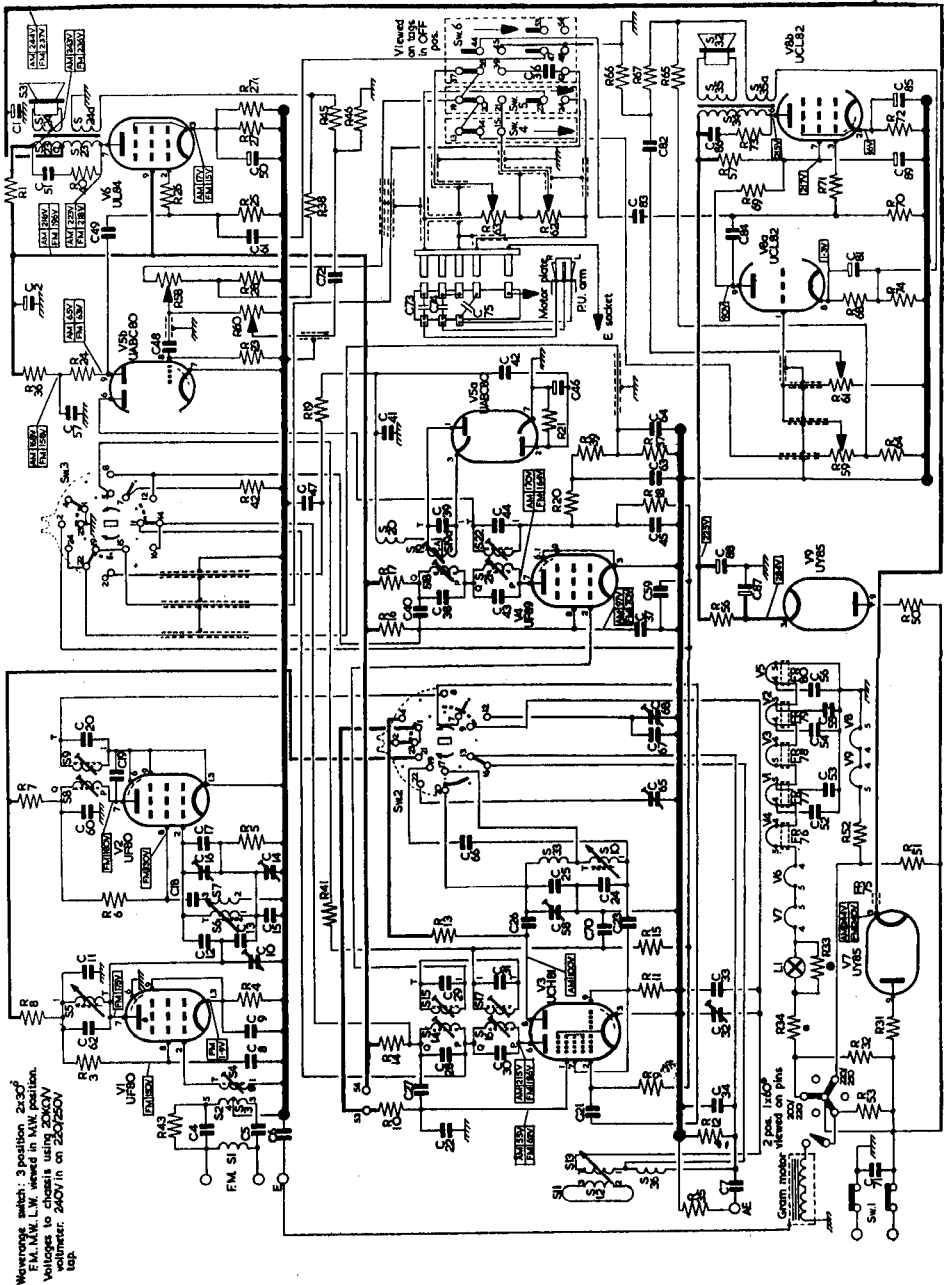
Pilot Lamp: 19 volts, 0.1 amp. (Philips Type 8097D).

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:

<i>Capacitors.</i>	C42	390 pF. (10%)	C87	50	R37	0.22M (20%)
C1	50		C88	50	R38	3.3k (20%)
C2	100		C89	50	R39	27k
C4	1000 pF.				R40	27k (1 W.)
C5	1000 pF.		<i>Resistors.</i>		R41	10M
C6	4700 pF.		R1	1k (3 W., W.W.)	R42	47k
C7	1800 pF.		R3	10k	R43	10M (½ W., 20%)
C8	1000 pF.		R4	180	R45	1.5k
C9	220 pF.		R5	1M	R46	270
C10	2-5 pF.		R6	22k	R47	1.5k
C11	1000 pF.		R7	2.2k	R48	1.2k
C12	8.2 pF.		R8	2.2k	R50	100 (5%, 3 W., W.W.)
C13	8.2 pF.		R9	1M	R51	235 (5%, 2.5 W., W.W.)
C14	2-10 pF.		R10	39k (1 W.)	R52	1235 (5%, 1.5 W., W.W.)
C15	8.2 pF.		R11	47k	R53	700 (3 W., W.W.)
C16	2-5 pF.		R12	33k	R56	1.5k (3 W., W.W.)
C17	18 pF. (5%)		R13	33k (1 W.)	R57	1k
C18	47 pF. (10%)		R14	2.2k	R58	2M (log.)
C19	18 pF. (10%)		R15	1M	R59	2M (log.)
C20	15 pF.		R16	33k (1 W.)	R60	2M (log.)
C21	100 pF. (10%)		R17	4.7k (1 W.)	R61	2M (log.)
C22	3900 pF.		R18	1.2M	R62	2M (lin.)
C23	56 pF. (10%)		R19	47k	R63	2M (lin.)
C24	290 pF. (1%)		R20	27k	R64	68
C25	120 pF. (1%)		R21	10k	R65	3.3k
C26	470 pF. (10%)		R22	10M	R66	270
C27	4700 pF.		R24	0.22M	R67	1.5k
C28	33 pF.		R25	0.47M	R68	2.2k
C29	33 pF.		R26	1k	R69	0.22M
C30	110 pF.		R27	560 (1 W.)	R70	0.47M
C31	195 pF.		R27a	560 (1 W.)	R71	1k
C32	18 pF.		R28	68	R72	390 (1 W.)
C33	33 pF. (10%)		R28	68	R73	27k (1 W.)
C34	3000 pF. (5%)		R31	100 (5%, 3 W., W.W.)	R74	22
C36	4700 pF.					
C37	6800 pF.		R32	150 (5%, 3 W., W.W.)		
C38	22 pF.					
C39	47 pF.		R33	Varite		
C40	4700 pF.		R34	Varite		
C41	390 pF. (10%)		R35	10M (½ W., 20%)		
			R36	0.1M (20%)		

(½ W., 10% unless otherwise indicated.)



CIRCUIT DIAGRAM—PHILIPS MODEL F5G96A