

PHILIPS

Model F5G01A, F5G02A

General Description: Model F5G01A is a seven-valve (including rectifier), three-waveband A.M./F.M. stereo radiogram with Philips record changer Type AG1014. Model F5G02A has a similar chassis with the addition of a tuning indicator. High-impedance tape-recorder socket. Also known as Models 501A, 502A.

Power Supply: A.C. mains, 200–250 volts, 50 c/s., about 95 watts.

Wavebands: M.W. 187–560 m.; L.W. 1087–2000 m.; V.H.F. 87.5–100 Mc/s.

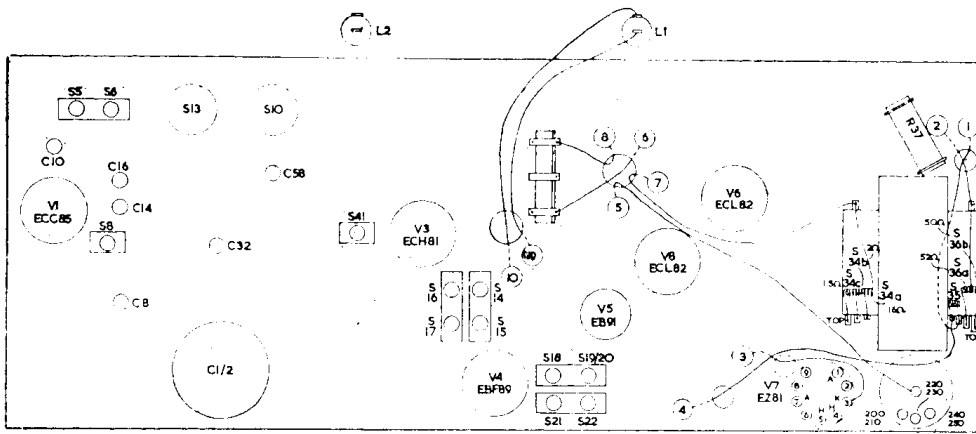
Valves: (V1) ECC85; (V2) EM84 (F5G02A only); (V3) ECH81; (V4) EBF89; (V5) EB91; (V6) ECL82; (V7) EZ81; (V8) ECL82.

Alignment Frequencies: I.F. 470 kc/s., 10.7 Mc/s. M.W. 1620 kc/s. L.W. 190 kc/s. V.H.F. 87.5, 94, 100 Mc/s.

Notes: Dial lamps Type 8028D-00.

Dismantling: *Model F5G01A:* Remove both back-plates and lead cover strip on bottom of cabinet. Disconnect both pairs of loudspeaker leads (plug and socket). Remove right-hand loudspeaker, right-hand extension loudspeaker socket panel, aerial socket panel and tape socket panel (keyhole slots). Disconnect pick-up input plug and motor mains lead plug. Unscrew balance control from front of cabinet. Remove four chassis-fixing screws and withdraw chassis.

Model F5G02A: Remove left-hand back-plate. Disconnect both pairs



of loudspeaker leads. Remove aerial socket panel, both loudspeaker socket panels and tape socket panel. Disconnect pick-up input plug and motor mains lead plug. Release tuning indicator and remove balance control. Remove four chassis-fixing screws and withdraw chassis.

Record Changer: Remove four nylon fixing bushes. Disconnect pick-up input plug and motor mains lead, then lift unit out of cabinet.

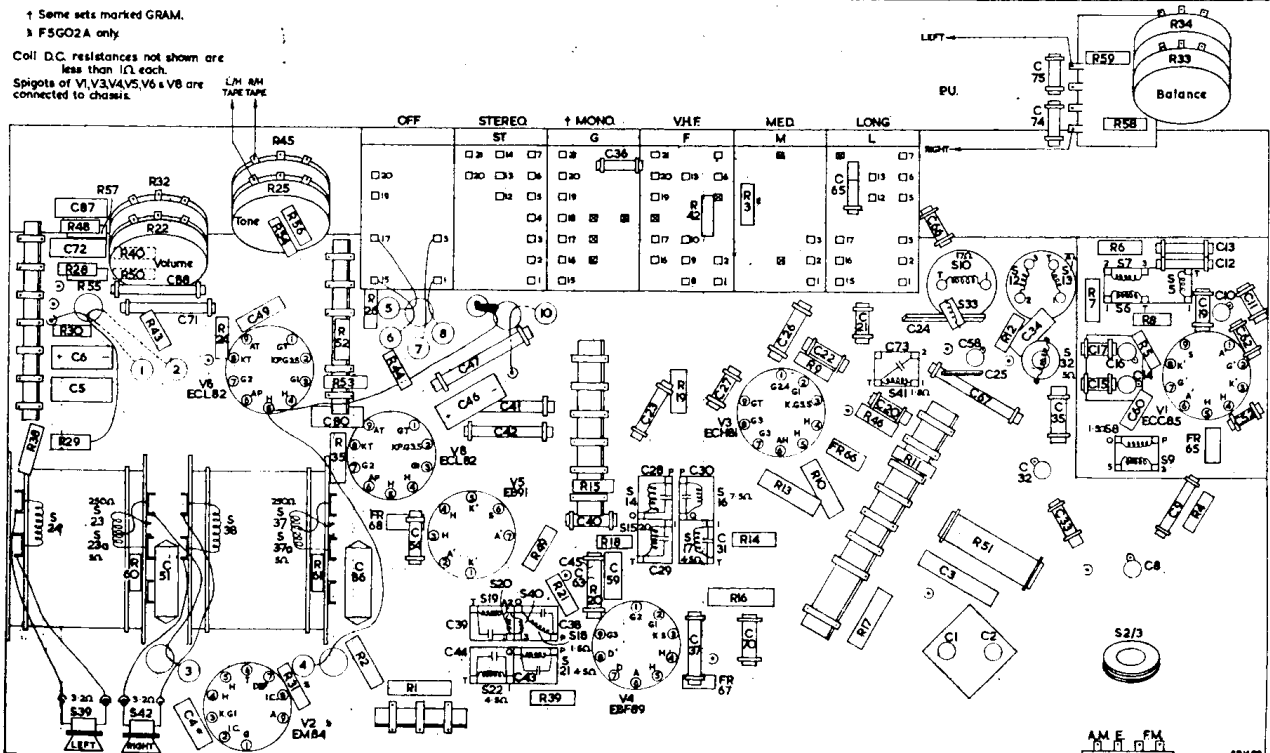
Capacitors.			
C1, 2	50 + 100 (275 v.)	C21	100 pF.
C3	82,000 pF.	C22	2,200 pF.
C4	4,700 pF. (F5G02A)	C23	56 pF.
C5	0.47	C24	290 pF. (1%)
C6	100 (6 v.)	C25	120 pF. (1%)
C8	1-18 pF.	C26	470 pF.
C9	220 pF.	C27	4,700 pF.
C10	1-5 pF.	C28	15 pF.
C11	1,000 pF.	C29	15 pF.
C12	8.2 pF.	C30	110 pF.
C13	8.2 pF.	C31	195 pF.
C14	1-10 pF.	C32	1-18 pF.
C15	5.6 pF.	C33	33 or 27 pF.
C16	1-10 pF.	C34	3,000 pF. (5%)
C17	15 pF.	C35	56 pF.
C19	33 pF.	C36	4,700 pF.
C20	22,000 pF.	C37	4,700 pF.
		C38	22 pF.
		C39	47 pF.
		C40	4,700 pF.
		C41	390 pF.
		C42	390 pF.
		C43	195 pF.
		C44	195 pF.
		C45	100 pF.
		C46	2 (50 v.)
		C47	820 pF.
		C49	4,700 pF.
		C51	1,000 pF. (1300 v.)
		C52	1,000 pF.
		C54	1,000 pF.
		C58	1-18 pF.
		C59	47,000 pF.
		C60	130 pF. (1%)
		C62	4.7 pF.
		C63	100 pF.
		C65	50 pF.
		C66	15 pF.
		C67	742 pF. (1%)
		C70	100 pF.
		C71	470 pF.
		C72	2,200 pF.
		C73	15 pF.
		C74	100 pF.
		C75	100 pF.
		C80	4,700 pF.
		C86	1,000 pF. (1300 v.)
		C87	2,200 pF.
		C88	470 pF.

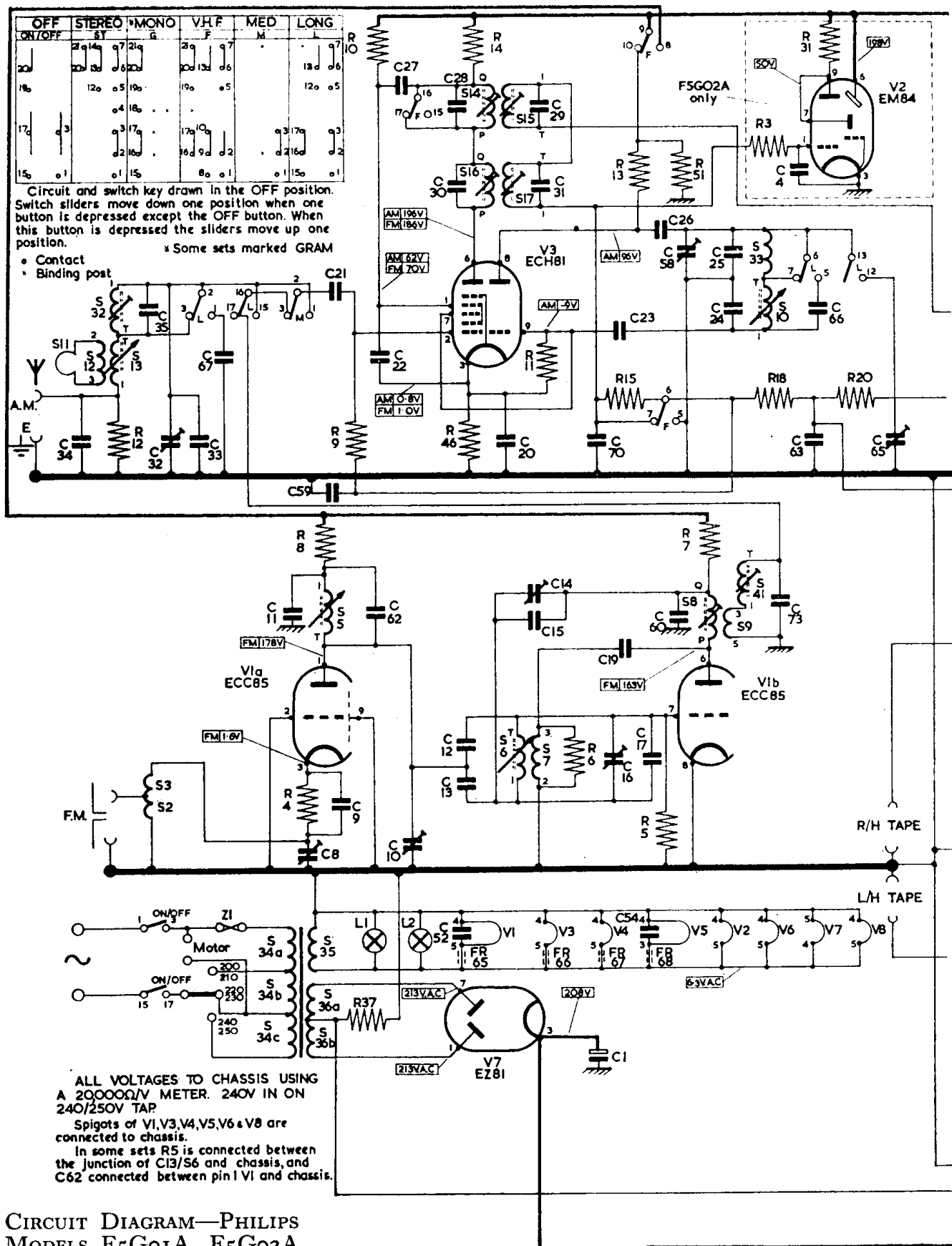
In some models an extra 18 pF. capacitor is fitted across C60.

S	24	23.23a	38	37.37a	19	22	20	40	18	21	14	15	16	17	41	33	10	12	32	13	2.3	7.6	8.9	5	
R	87	72	6.5	88	71	51	4	49	80	86	54	47	46	39	41	42	44	38	43	40	45	1	2	3	6
C	39	29	48	28	30	57	55	40	50	43	32	22	60	24	45	25	54	56	31	61	35	53	52	2	26

1 Some sets marked GRAM.
2 F5G02A only

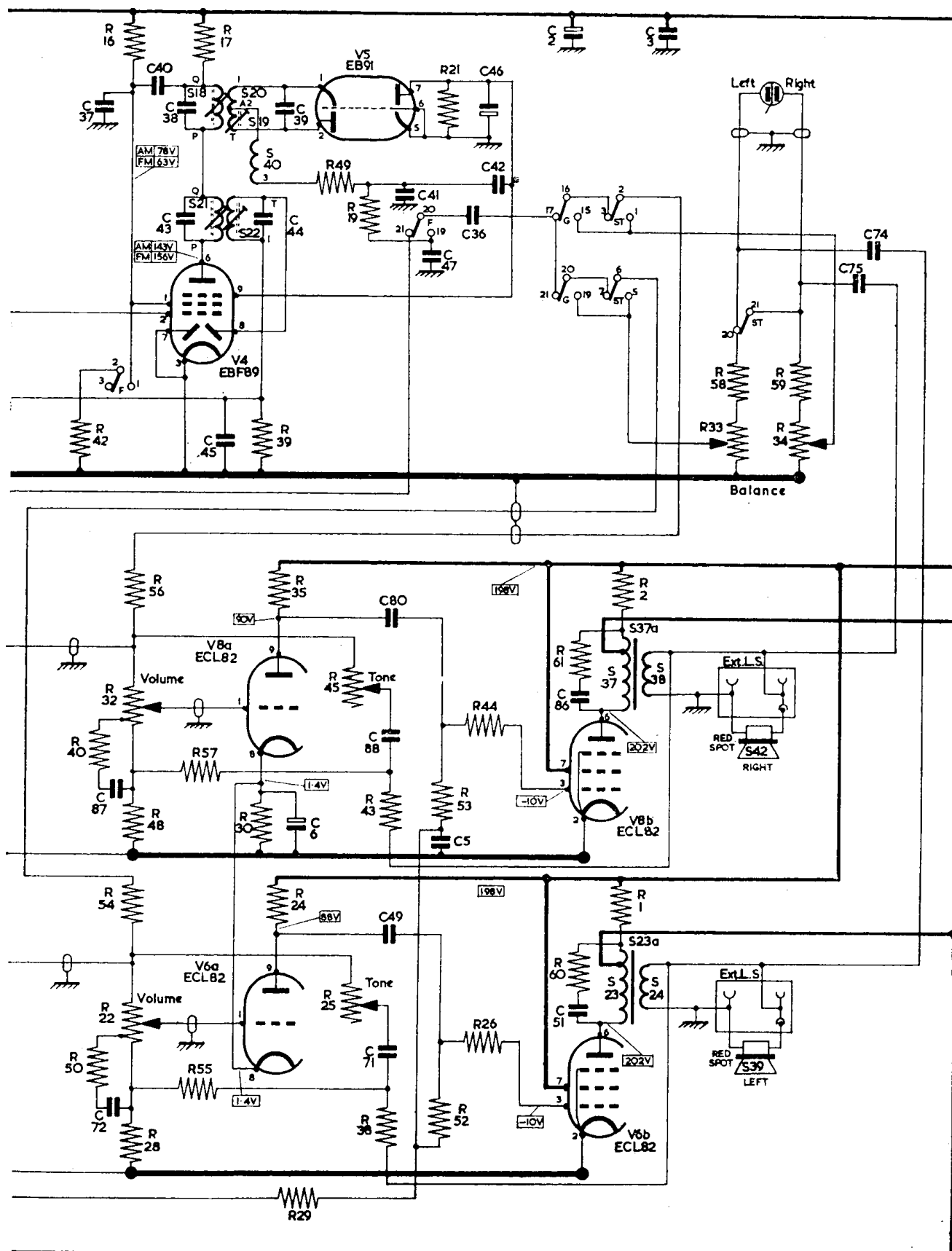
Coil D.C. resistances not shown are less than 1Ω each.
Spigots of V1, V3, V4, V5, V6 & V8 are connected to chassis.





CIRCUIT DIAGRAM—PHILIPS
MODELS F5G01A, F5G02A

Resistors.							
R1	390 (1 W.)	R8	2.2k	R16	33k	R24	0.22M
R2	390 (1 W.)	R9	1M	R17	4.7k	R25 }	2M (log.)
R3	1M (F5G02A)	R10	39k	R18	1.2M	R45 }	
R4	180	R11	47k	R19	47k	R26	1k
R5	0.1M	R12	33k	R20	0.1M	R28	68
R6	2.2k	R13	33k	R21	27k	R29	0.39M
R7	10k	R14	2.2k	R22 }	0.4M + 1.6M	R30	1.2k
		R15	1M	R32 }		R31	0.47M (F5G02A)



R33 }	1M	R40	0.1M	R50	0.1M	R56	0.1M
R34 }	0.22M	R42	47k	R51	18k (W.W., 5 W., 5%)	R57	150
R35	150 (W.W., 5 W., 5%)	R43	2.2k	R52	0.82M	R58	0.1M
R37	2.2k	R44	1k	R53	0.82M	R59	0.1M
R38	0.22M	R46	120	R54	0.1M	R60	3.9k
R39	0.22M	R48	68	R55	150	R61	3.9k
		R49	120				