

PHILIPS

Model F5G94A

General Description: Ten-valve (including rectifier and tuning indicator), three-waveband, A.M./F.M. stereo radiogram with dual A.F. channels. This model is derived from the G63A series (1957-58 volume) and service information for that model will be generally applicable.

Power Supply: A.C. mains, 200-250 volts, 50 c/s.

Wavebands: L.W. 150-255 kc/s.; M.W. 527-1604 kc/s.; V.H.F. 87.5-100 Mc/s.

Valves: (V₁) EF80; (V₂) EF80; (V₃) ECH81; (V₄) EF85; (V₅) EABC80; (V₆) EL84 (right-hand channel); (V₇) EZ81; (V₈) EM81; EABC80 (left-hand channel); (V₁₀) EL84 (left-hand channel).

Intermediate Frequencies: A.M. 470 kc/s.; F.M. 10.7 Mc/s.

Notes: Record changer Type AG1014; pick-up head LP AG3063, standard AG3066. In large rooms improved stereo effect may be obtained with separate extension loudspeakers, provided correct phasing is observed. Balance control can be adjusted while playing mono record with set switched to stereo, adjusting control for equal outputs from the two channels.

Component Values:

Capacitors.

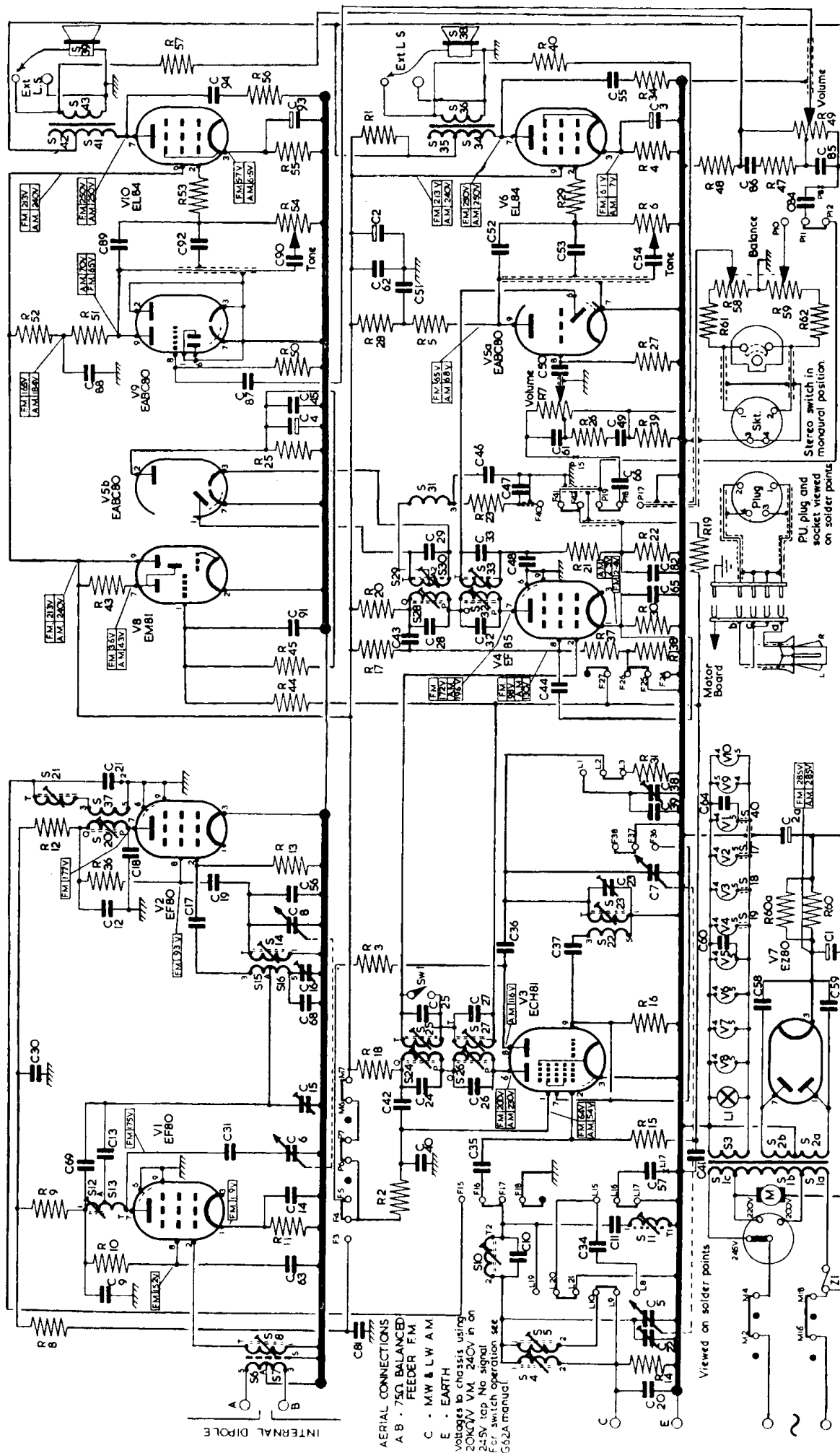
C1-2A	50 + 50 + 50 (350 v.)	C40	3900 pF.
C3	100 (12 v.)	C41	0.01
C4	5 (75 v.)	C42	1500 pF.
C9	1000 pF.	C43	1500 pF.
C10	270 pF. (10%)	C44	3900 pF.
C11	12 pF. (10%)	C45	4700 pF.
C12	1000 pF.	C46	2200 pF.
C13	100 pF. (10%)	C47	2200 pF. (10%)
C14	1000 pF.	C48	100 pF. (10%)
C15	18 pF.	C49	0.01 (10%)
C16	10 pF.	C50	0.018 (10%)
C17	33 pF. (10%)	C51	0.1 (10%)
C18	18 pF. (10%)	C52	0.015 (10%)
C19	47 pF. (10%)	C53	470 pF. (10%)
C20	3000 pF. (5%)	C54	0.015 (10%)
C21	15 pF.	C55	1000 pF. (1300 v., 10%)
C22	3-30 pF.	C56	3.3 pF.
C23	3-30 pF.	C57	100 pF.
C24	33 pF.	C58	500 pF.
C25	33 pF.	C59	500 pF.
C26	110 pF.	C60	4700 pF.
C27	195 pF.	C61	33 pF. (10%)
C28	22 pF.	C62	6800 pF.
C29	47 pF.	C63	1000 pF.
C30	1000 pF.	C64	1000 pF.
C31	220 pF. (10%)	C65	0.01
C32	195 pF.	C66	0.01 (10%)
C33	195 pF.	C68	8.2 pF.
C34	3.9 pF.	C69	8.2 pF.
C35	100 pF. (10%)	C81	1000 pF.
C36	470 pF. (10%)	C82	100 pF.
C37	56 pF. (10%)	C84	0.01 (10%)
C38	100 pF.	C85	33 pF. (10%)
C39	270 pF. (10%)	C86	0.01 (10%)

C87	0.018 (10%)
C88	0.1 (10%)
C89	0.015 (10%)
C90	0.015 (10%)
C91	4700 pF.
C92	470 pF. (10%)
C93	100 (12 v.)
C94	1000 pF. (1,300 v., 10%)

Resistors.

R1	1.2k (3 W., W.W.)	R26	82k
R2	39k (1 W.)	R27	10M (20%)
R3	33k (1 W.)	R28	0.1M (20%)
R4	150 (1 W.)	R29	1k (20%)
R5	0.22M	R30	220
R6	0.5M (log.)	R31	33k (20%)
R7	2M (log.)	R34	18k (1 W.)
R8	1k	R36	22k
R9	2.2k	R37	10M (20%)
R10	10k	R38	0.1M
R11	180	R39	47
R12	2.2k	R40	1.2k
R13	0.1M	R43	0.47M (20%)
R14	33k	R44	2.7M (20%)
R15	1.2M	R45	10M (20%)
R16	47k	R47	82k
R17	56k	R48	47
R18	2.2k	R49	2M (log.)
R19	1.2M	R50	10M
R20	4.7k	R51	0.22M
R21	0.18M	R52	0.1M
R22	0.22M	R53	1k
R23	47k	R54	0.5M (log.)
R25	10k	R55	150 (1 W.)
		R56	18k (1 W.)
		R57	1.2k
		R58	0.5M (lin.)
		R59	0.5M (lin.)
		R60	180 (1 W.)
		R60A	220 (1 W.)
		R61	1M
		R62	1M

(10%, $\frac{1}{2}$ W. unless otherwise indicated.)



CIRCUIT DIAGRAM--PHILIPS MODEL F5G94A