PHILIPS Model F4G92A

General Description: Seven-valve (including rectifier), three-waveband A.M./F.M. auto-radiogram with Philips Type AG1014 record changer. The chassis is developed from that used in the Model G75U covered in the 1958–59 volume, and much of the information given in that section is applicable.

Power Supply: A.C. mains, 200–250 volts, 50 c/s., 80 watts.

Wavebands: M.W. 187–569 m.; L.W. 1128–2000 m.; V.H.F. 87·5–100 Mc/s.

Valves: (V1) UF80 (V.H.F. R.F. amplifier); (V2) UF80 (V.H.F. additive mixer); (V3) UCH81 (F.M. I.F. amplifier, A.M. frequency changer); (V4) UF89 (dual I.F. amplifier); (V5) UABC80 (ratio detector, A.M. detector and A.F. amplifier); (V6) UL84 (output); (V7) UY85 (rectifier).

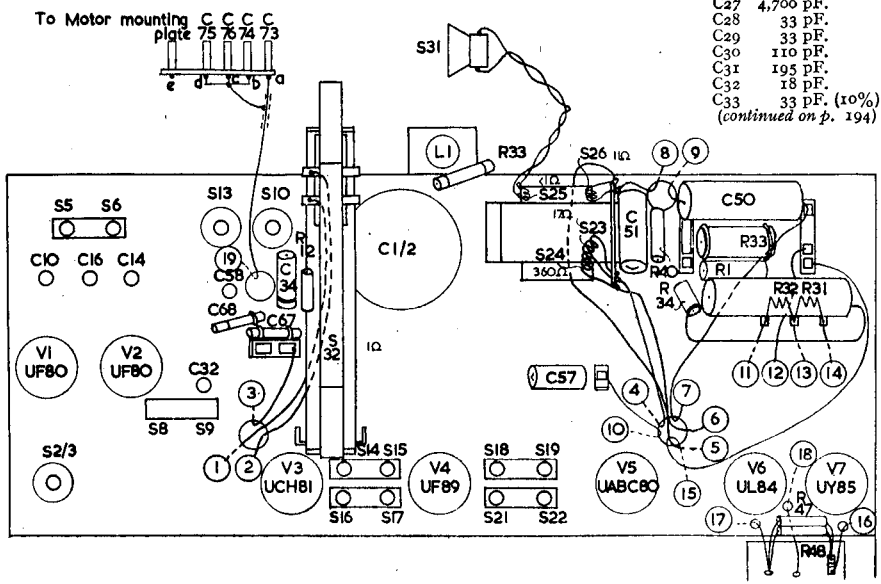
Alignment Frequencies: I.F. (A.M.) 470 kc/s.; I.F. (F.M.) 10·7 Mc/s.; M.W. trim 1620 kc/s.; L.W. trim 180 kc/s.; V.H.F. 87·5 and 100 Mc/s. For procedure, see Model G75U.

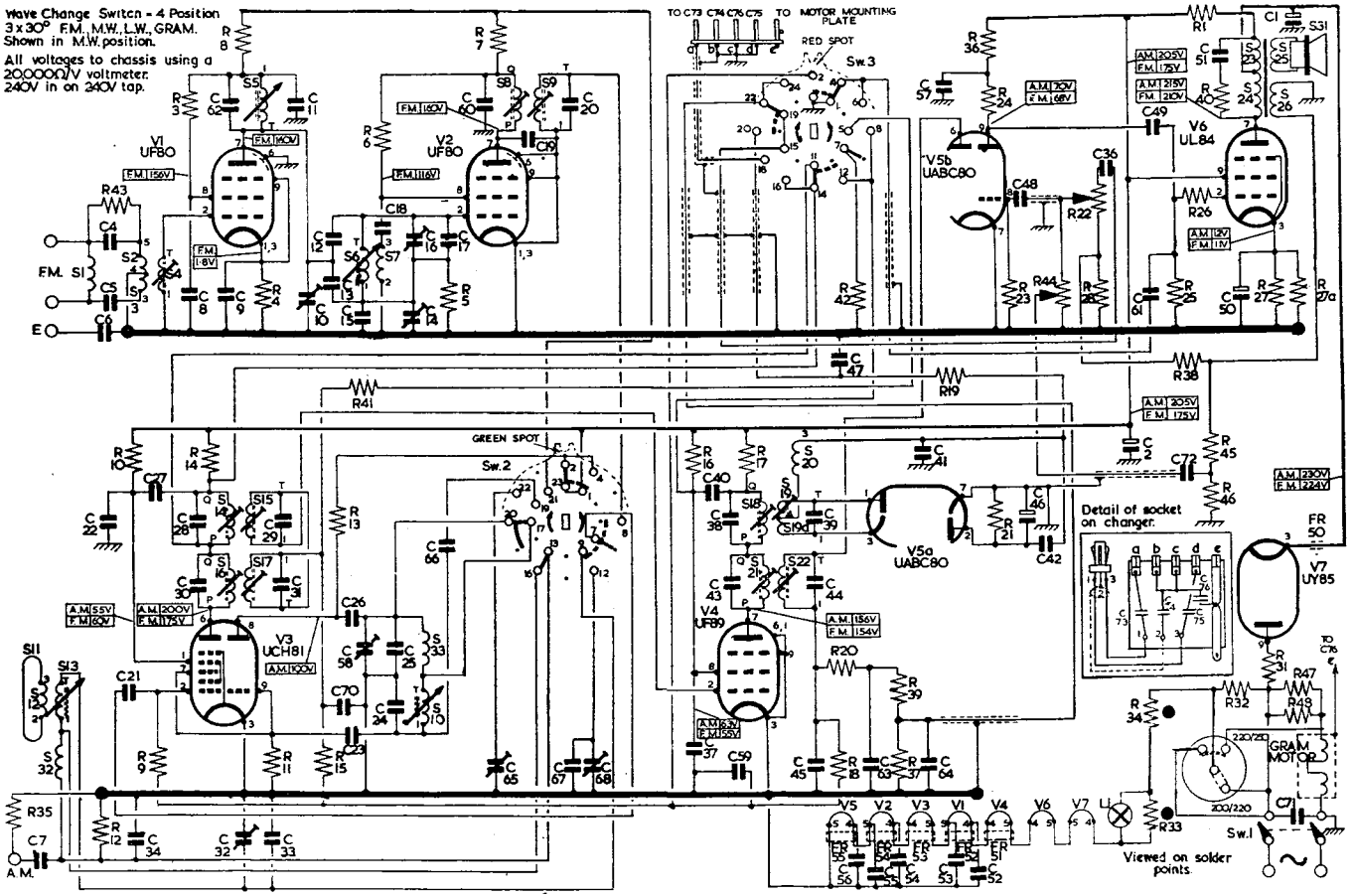
Pilot Lamp: 19-volt, 0·1 amp. (Philips Type 8097D).

Capacitors.

C1	50 (El. 275 v.)	C8	1,000 pF.	C14	2–10 pF.	C20	15 pF.
C2	100 (El. 275 v.)	C9	220 pF.	C15	8·2 pF. (10%)	C21	100 pF. (10%)
C4	1,000 pF.	C10	2–5 pF.	C16	2–5 pF.	C22	3,900 pF.
C5	1,000 pF.	C11	1,000 pF.	C17	18 pF. (10%)	C23	56 pF. (10%)
C6	4,700 pF.	C12	8·2 pF. (10%)	C18	47 pF. (10%)	C24	290 pF. (1%)
C7	1,800 pF.	C13	8·2 pF. (10%)	C19	18 pF. (10%)	C25	120 pF. (1%)
						C26	470 pF. (10%)
						C27	4,700 pF.
						C28	33 pF.
						C29	33 pF.
						C30	110 pF.
						C31	195 pF.
						C32	18 pF.
						C33	33 pF. (10%)

(*continued on p.* 194)





CIRCUIT DIAGRAM—PHILIPS MODEL F4G92A

Capacitors.

C34	3,000 pF. (5%)
C36	4,700 pF.
C37	6,800 pF.
C38	22 pF.
C39	47 pF.
C40	4,700 pF.
C41	390 pF. (10%)
C42	390 pF. (10%)
C43	195 pF.
C44	195 pF.
C45	82 pF. (10%)
C46	10 (El. 70 v.)
C47	820 pF. (10%)
C48	10,000 pF. (10%)
C49	18,000 pF. (10%)
C50	25 (El. 25 v.)
C51	1,000 pF. (1,300 v.)
C52	1,000 pF.
C53	1,000 pF.
C54	1,000 pF.
C55	1,000 pF.
C56	1,000 pF.
C57	0·1
C58	18 pF.
C59	47,000 pF.
C60	1,000 pF.
C61	1,500 pF. (10%)
C62	5·6 pF.
C63	47 pF. (10%)
C64	47 pF. (10%)
C65	50 pF.
C66	15 pF. (10%)
C67	390 pF. (10%)
C68	400 pF.
C70	100 pF.
C71	33,000 pF.
C72	470 pF. (10%)
C73	4,700 pF.
C74	4,700 pF.
C75	4,700 pF.
C76	4,700 pF.

Resistors.

R1	1000 (W.W. 3 W., 10%)
R3	10k (10%)
R4	180 (10%)
R5	1·0M (10%)
R6	22k (10%)
R7	2200 (10%)
R8	2200 (10%)
R9	1·0M (10%)
R10	39k (10%, 1 W.)
R11	47k (10%)
R12	33k (10%)
R13	33k (10%, 1 W.)
R14	2200 (10%)
R15	1·0M (10%)
R16	33k (10%, 1 W.)
R17	4·7k (10% 1 W.
R18	1·2M (10%)
R19	47k (10%)
R20	27k (10%)
R21	10k (10%)
R22, R44	2M + 2M (log)
R23	10·0M (10%)
R24	0·22M (10%)
R25	0·47M (10%)
R26	1000 (10%)
R27	560 (10%, 1 W.)
R27a	560 (10%, 1 W.)
R28	68 (10%)
R31	100 (5%, 3 W.)
R32	150 (5%, 3 W.)
R33	Varite
R34	Varite
R35	10M (½ W.)
R36	0·1M
R37	0·22M
R38	3300
R39	27k (10%)
R40	27k (10%, 1 W.)
R41	10·0M (10%)
R42	47k (10%)
R43	10M (10%, ½ W.)
R45	1500 (10%)
R46	270 (10%)
R47	1500 } in parallel
R48	1200 } (10%, 1 W.)