

PHILIPS "STUDIO FIVE" Model F4G4IA

General Description: Six-valve, three-waveband, A.M./F.M. radio-gram, incorporating a Garrard 1000 changer unit with GP91-1 cartridge and tape recorder socket. *Caution:* The chassis is connected to one side of the mains and may therefore be "live".

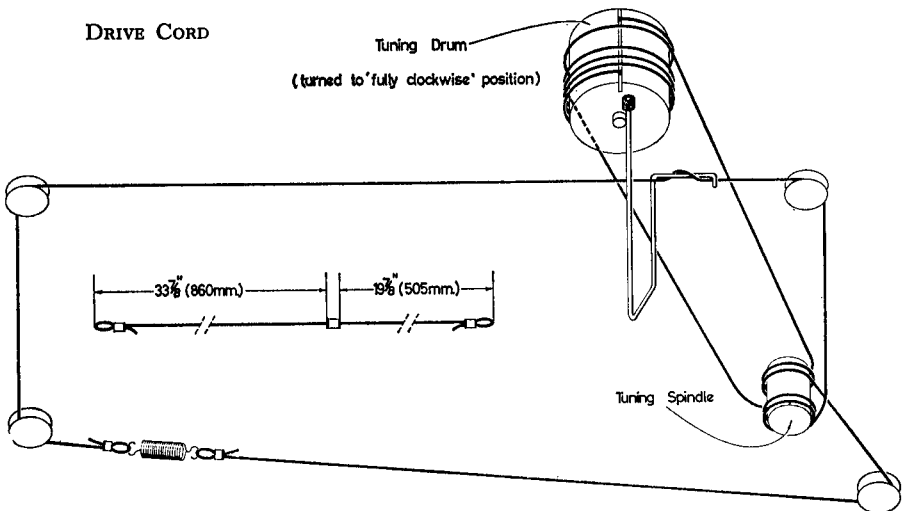
Valves: (V1) UCC85; (V2) UCH81; (V3) UF89; (V4) (V4) UABC80; (V5) UL84; (V6) UY85.

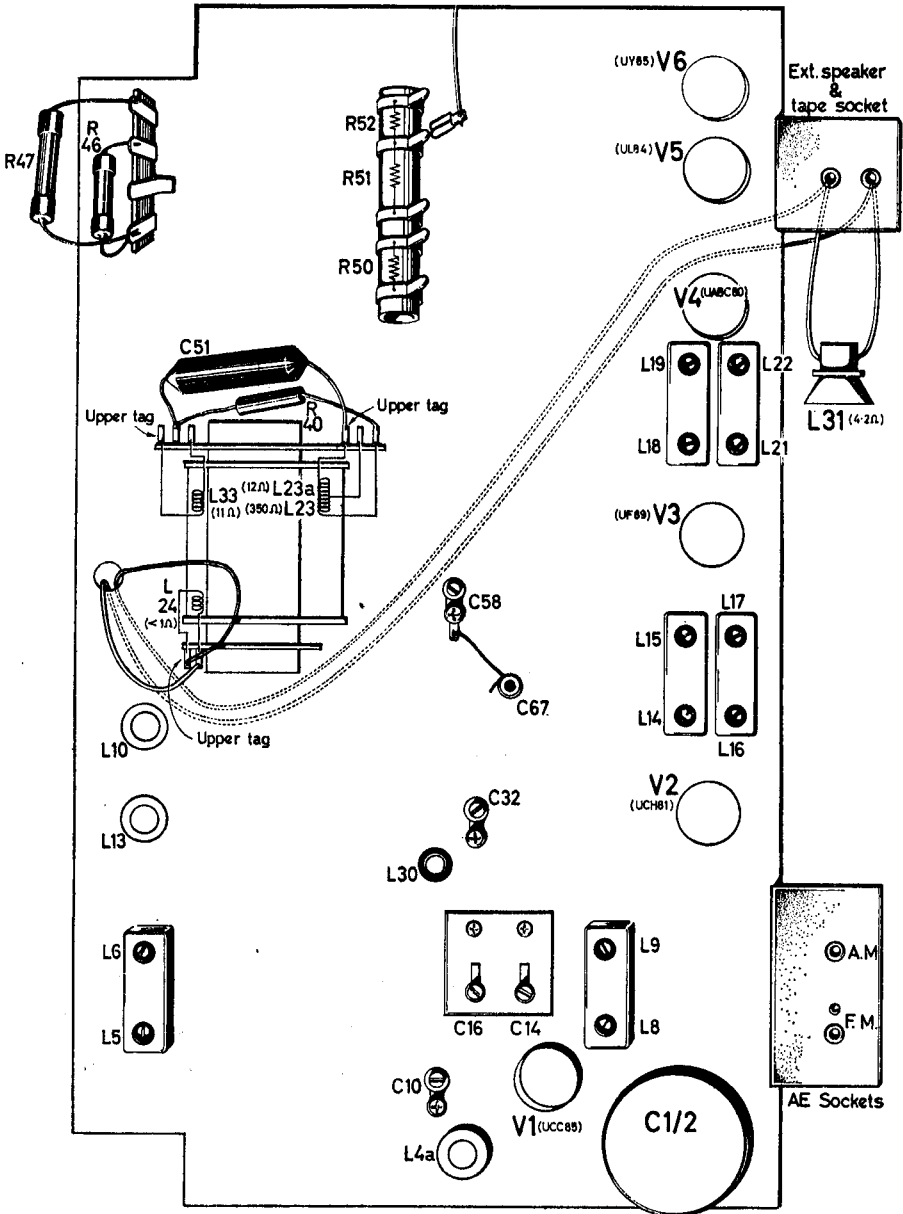
Alignment: A.M. I.F. 470 kc/s. (L22, 21, 17, 16); M.W. 1620 kc/s. (C58, C32); L.W. 190 kc/s. (C67, L30); L10, L12/13 are factory pretuned; F.M. I.F. 10.7 Mc/s. (L18, 19, 14, 15, 8, 9); 100 Mc/s. (C16, C10); 87.5 Mc/s. (L6, 5, C14 min.); 94 Mc/s. (L4a).

Dismantling: *Chassis:* Remove the control knobs secured by grub screws, unplug the internal F.M. dipole and remove the receiver compartment back panel. Free the mains lead from its retaining cleat, release the mains earth lead (green) and withdraw the two chassis securing screws. Both sides of the chassis can now be made accessible by drawing it towards the rear of the compartment.

Record Changer: Unplug the changer motor leads from the receiver chassis, see Fig. 5. Turn the two changer transit screws fully clockwise, then rotate the spring locks at their ends vertically through 90°, so that they lie parallel with the screws.

Raise the changer and move it backwards so that a safety bracket, mounted on its underside at the front, may be disengaged from the motor board. Unplug the 5-pin pick-up plug from its socket plate, after which the changer can be withdrawn from the cabinet.

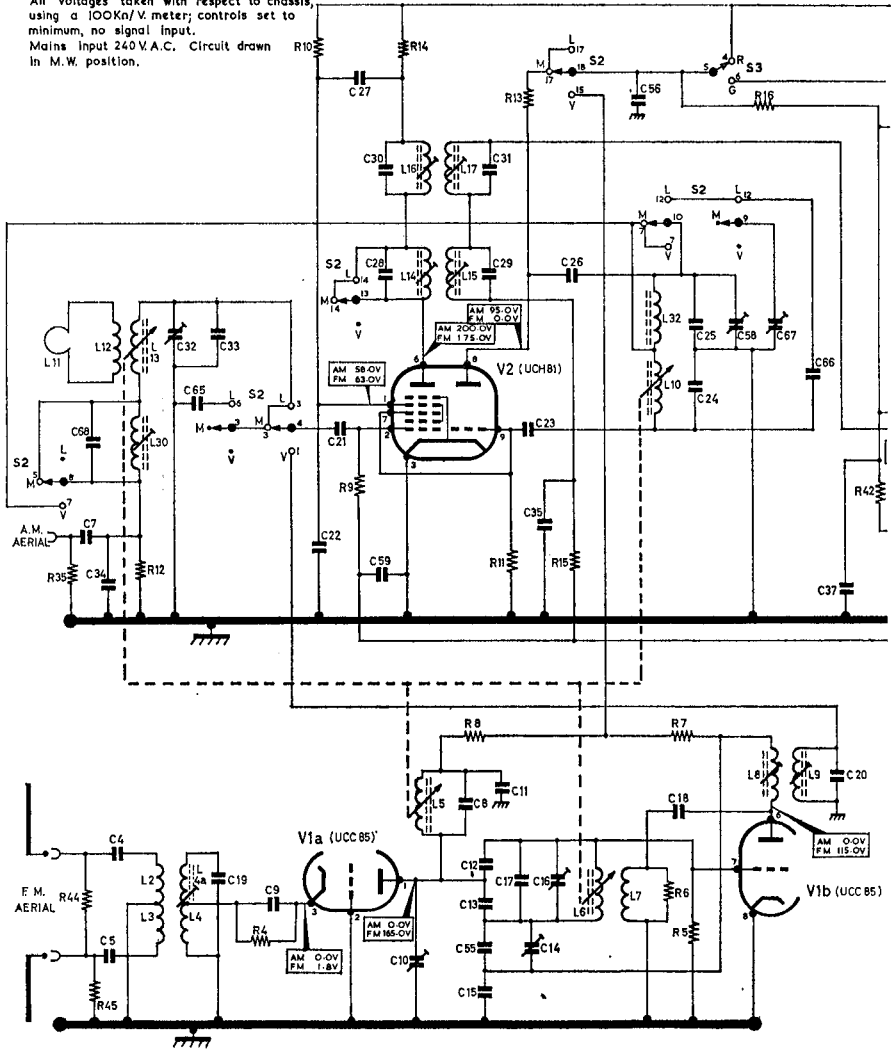




CHASSIS—TOP VIEW AND TRIM PLAN

RADIO SERVICING

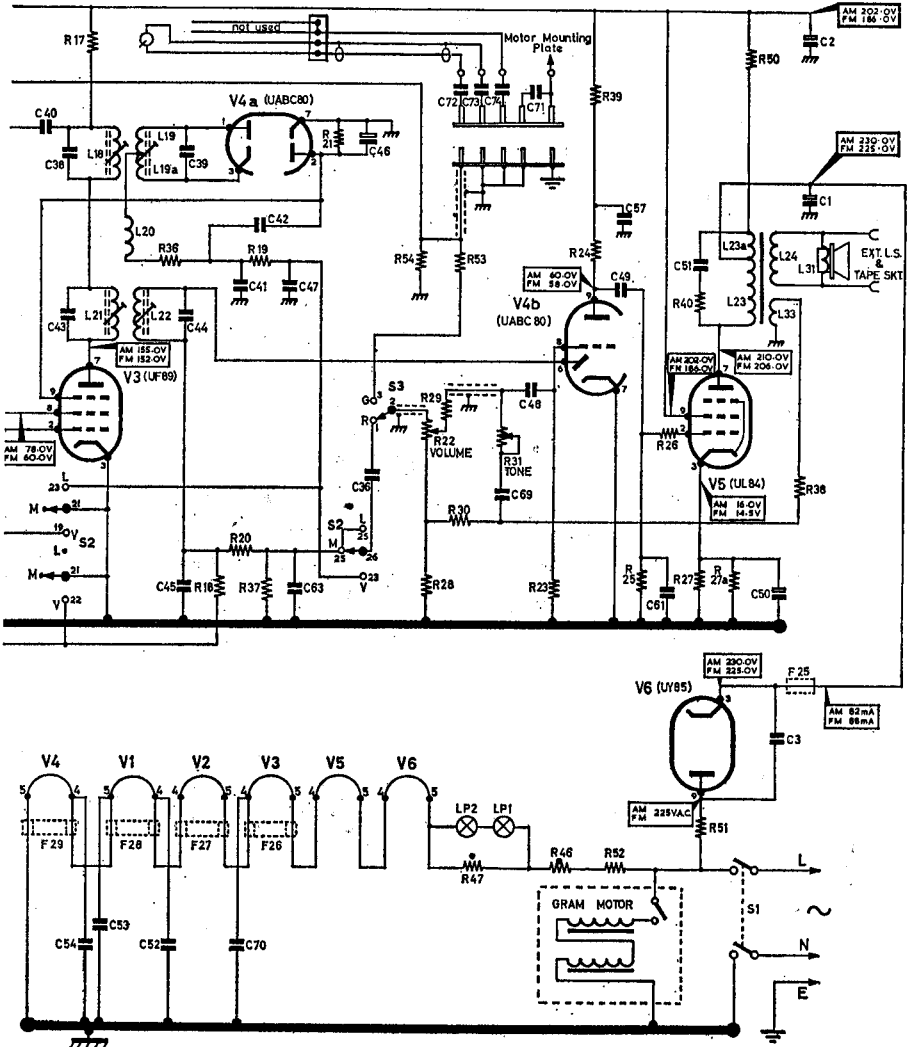
All voltages taken with respect to chassis, using a 100K Ω /V meter; controls set to minimum, no signal input.
Mains Input 240 V.A.C. Circuit drawn in M.W. position.



CIRCUIT DIAGRAM—

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| <p><i>Resistors.</i></p> <p>R4 180 R5 0.1M R6 2,200 R7 10,000 R8 2,200 R9 1.0M R10 39,000 R11 47,000 R12 33,000 R13 33,000 R14 2,200 R15 1.0M R16 33,000</p> | <p>R17 4,700 R18 1.2M R19 47,000 R20 47,000 R21 27,000 R22 2.0M R23 10.0M R24 0.22M R25 0.47M R26 1,000 R27 560 R27a 560 R28 68 R29 68,000 R30 470</p> | <p>R31 2.0M R35 4.7M R36 120 R37 0.22M R38 2,700 R39 0.1M R40 27,000 R42 47,000 R44 10,000 R45 4.7M R46 Varite R47 Varite R50 1,000 R51 140 R52 184</p> | <p>R53 0.47M R54 1.5M</p> <p><i>Capacitors.</i></p> <p>C1 } 50 μF. C2 } 100 μF. C3 4,700 C4 470 C5 470 C7 1,800 C8 6-8 C9 1,000 C10 6 C11 1,000</p> |
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PHILIPS



PHILIPS MODEL F4G41A

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|-----|-------|-----|-------|-----|--------|-----|----------|
| C12 | 8·2 | C27 | 4,700 | C42 | 330 | C57 | 0·22 μF. |
| C13 | 8·2 | C28 | 15 | C43 | 195 | C58 | 18 |
| C14 | 2-12 | C29 | 15 | C44 | 195 | C59 | 22,000 |
| C15 | 150 | C30 | 110 | C45 | 100 | C61 | 1,500 |
| C16 | 2-12 | C31 | 195 | C46 | 4 μF. | C63 | 100 |
| C17 | 10 | C32 | 18 | C47 | 330 | C65 | 742 |
| C18 | 33 | C33 | 33 | C48 | 10,000 | C66 | 15 |
| C19 | 6·8 | C34 | 3,000 | C49 | 10,000 | C67 | 15 |
| C20 | 15 | C35 | 100 | C50 | 25 μF. | C68 | 56 |
| C21 | 100 | C36 | 4,700 | C51 | 1,000 | C69 | 390 |
| C22 | 1,200 | C37 | 4,700 | C52 | 1,000 | C70 | 1,000 |
| C23 | 56 | C38 | 22 | C53 | 1,000 | C71 | 4,700 |
| C24 | 290 | C39 | 22 | C54 | 1,000 | C72 | 4,700 |
| C25 | 120 | C40 | 4,700 | C55 | 5·6 | C73 | 10,000 |
| C26 | 470 | C41 | 330 | C56 | 1,000 | C74 | 4,700 |