

General Description: Five-valve (plus contact-cooled selenium bridge rectifier), three-waveband (including V.H.F.), combined A.M./F.M. auto-radiogramophone. Triple loudspeaker system.

Power Supply: A.C. mains, 200–250 volts, 50 c/s. Consumption, radio 52 watts, radiogramophone 67 watts.

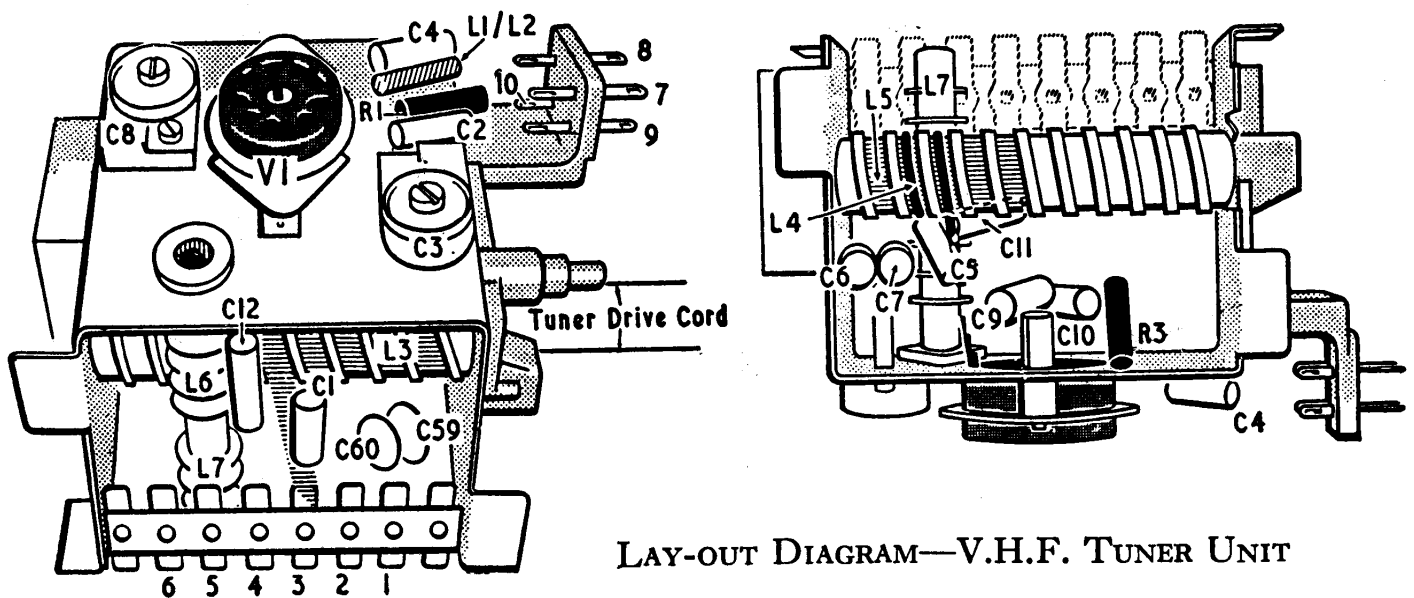
Wavebands: L.W. 1098–2027 m.; M.W. 188–547 m.; V.H.F. 87–101 Mc/s.

Valves: (V₁) ECC85; (V₂) ECH81; (V₃) EF89; (V₄) EM81; (V₅) EABC80; (V₆) EL84.

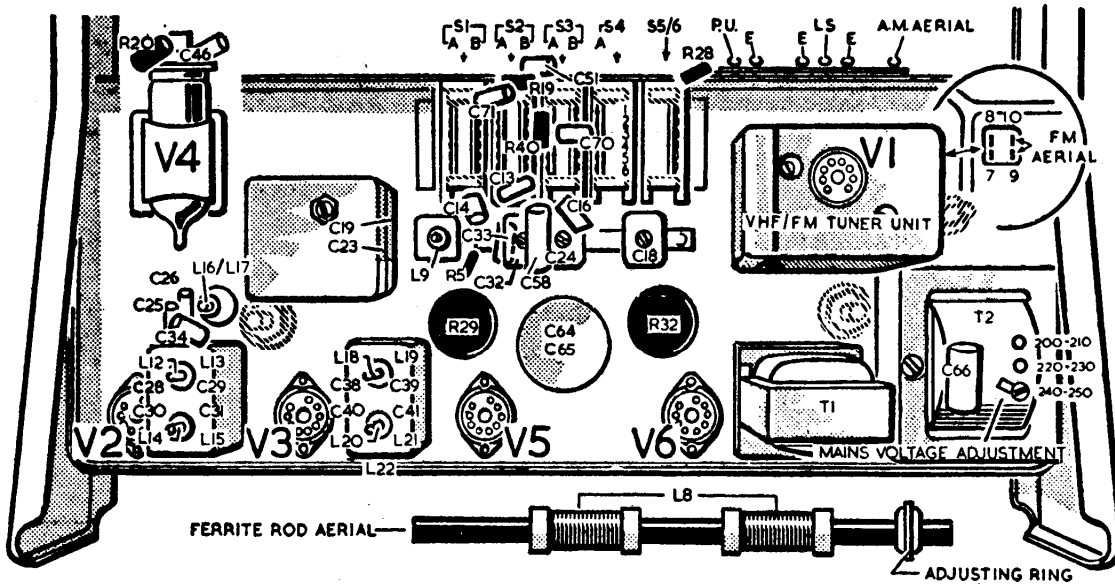
Record Unit: Garrard RC120 four-speed with GC2PA turnover crystal pick-up.

Notes: Control provided for rotating ferrite-rod aerial. Plug and socket adjustment at top of rear cabinet enables the treble response of the loudspeaker system to be reduced if desired. Neon indicator lamp can be replaced only as complete unit containing wired-in neon lamp.

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



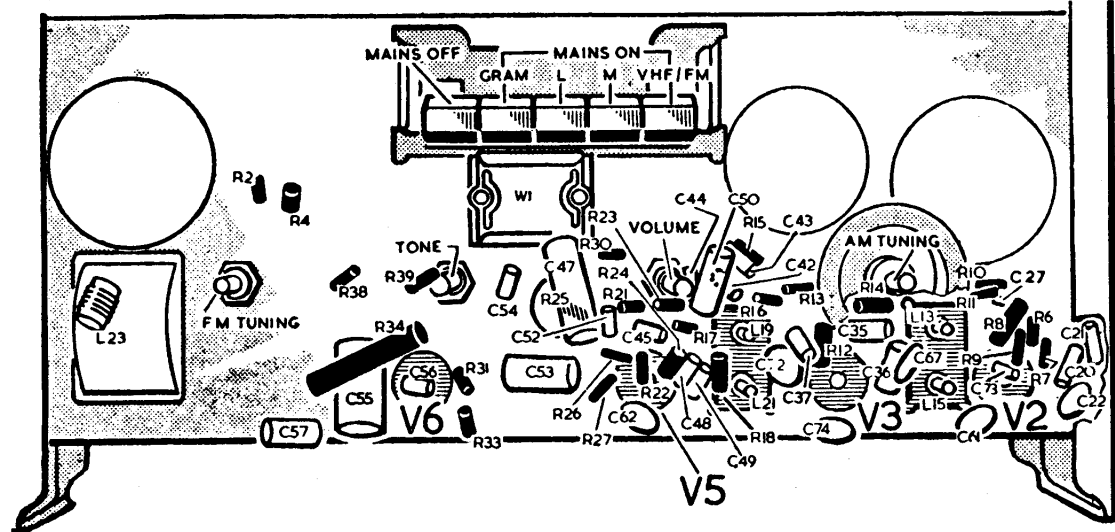
LAY-OUT DIAGRAM—V.H.F. TUNER UNIT



- C56 7 pF. ± 0.5 p
- C57 0.005 (600 v.)
- C58 0.2
- C59 1000 pF.
- C60 1000 pF.
- C61 0.0025
- C62 0.0025
- C64 50
- C65 50
- C66 0.01
- C67 0.0025
- C68 2 + 2
- C69 1
- C70 150 pF.
- C71 5 pF. (± 0.5 pF.)
- C72 0.0025
- C73 20 pF.
- C74 0.0025

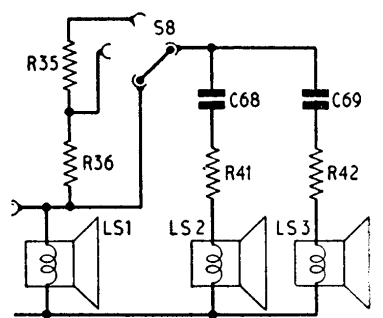
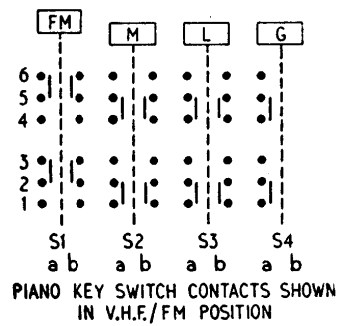
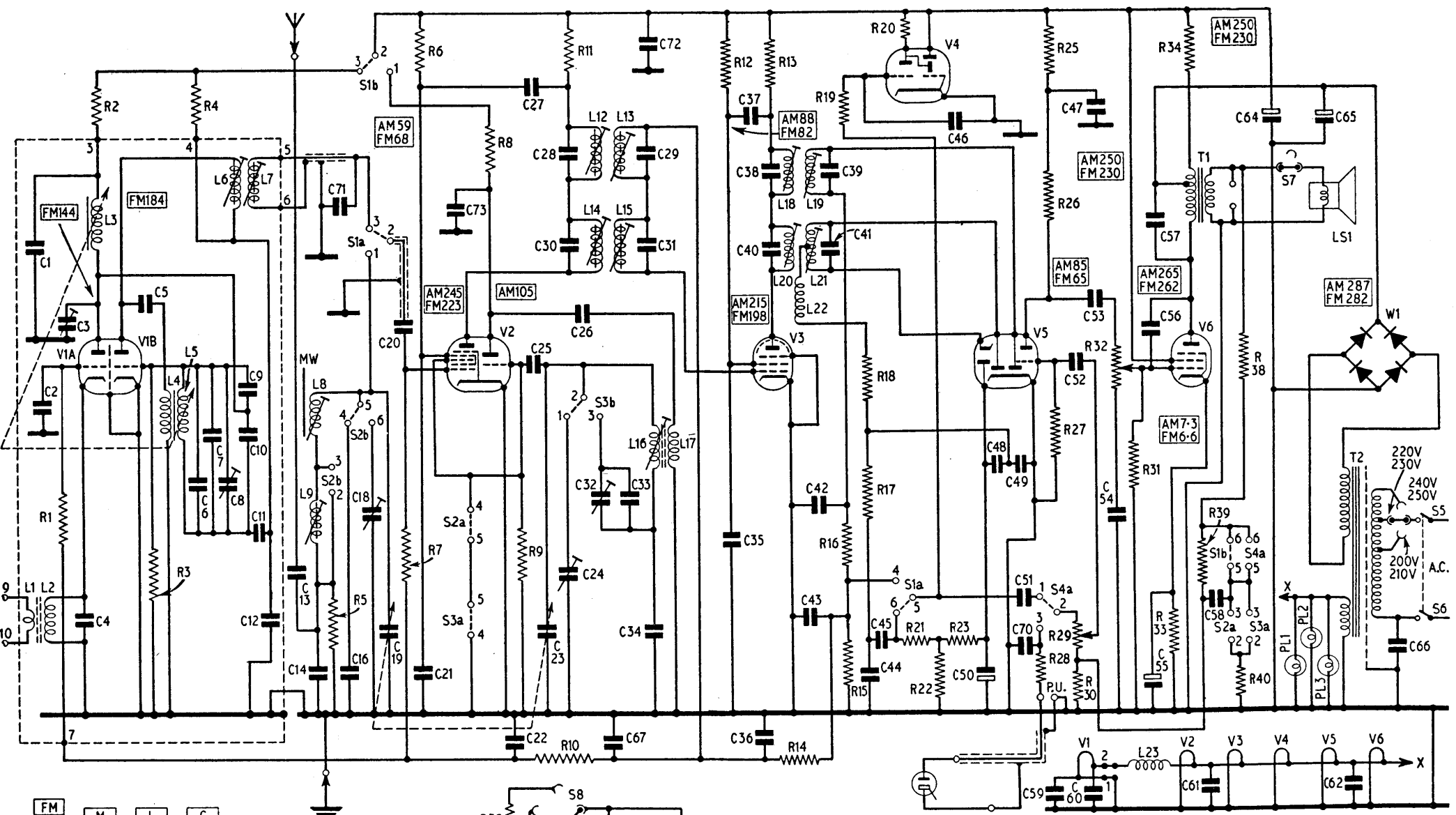
Resistors.

- R1 680k
- R2 10k
- R3 680k
- R4 15k
- R5 3.3k
- R6 47k (10%)
- R7 470k
- R8 27k (10%, $\frac{1}{2}$ W.)
- R9 47k
- R10 470k
- R11 2.7k
- R12 39k (10%)
- R13 3.3k
- R14 1M
- R15 330k
- R16 220k
- R17 100k
- R18 68 (10%)
- R19 1.5M
- R20 470k
- R21 1M
- R22 6.8k
- R23 22k (10%)
- R24 820 (10%)
- R25 100k
- R26 220k
- R27 10M
- R28 820k
- R29 0.5M (log.)
- R30 270 (10%)
- R31 820k
- R32 0.5M (lin.)
- R33 140 (5%, $\frac{1}{2}$ W.)
- R34 1k (1 W.)
- R35 4.7
- R36 4.7
- R38 3.9k (10%)
- R39 5.6k (10%)
- R40 100
- R41 4.7
- R42 4.7



Capacitors.

- | | | |
|-----------------------------------|---------------------|-------------------|
| C1 1500 pF. | C14 3000 pF. (5%) | C36 0.04 |
| C2 220 pF. | C16 150 pF. (5%) | C37 0.003 |
| C3 2-10 pF. | C18 40 pF. | C38 220 pF. (2%) |
| C4 20 pF. (5%) | C19 528 pF. (swing) | C39 220 pF. (2%) |
| C5 25 pF. (5%) | C20 200 pF. | C40 12 pF. (5%) |
| C6 4.7 pF. (± 0.5 pF., N750) | C21 0.0039 (10%) | C41 47 pF. (5%) |
| C7 14 pF. (10%, P100) | C22 0.0025 | C42 100 pF. |
| C8 2-10 pF. | C23 528 pF. (swing) | C43 100 pF. |
| C9 10 pF. (± 0.5 pF., P100) | C24 70 pF. | C44 680 pF. (10%) |
| C10 10 pF. (± 0.5 pF., P100) | C25 50 pF. | C45 0.01 |
| C11 10 pF. (± 0.5 pF., P100) | C26 200 pF. | C46 0.04 |
| C12 85 pF. (2.5%) | C27 0.003 | C47 0.1 |
| C13 0.001 (300 v. A.C.) | C28 220 pF. (2%) | C48 400 pF. |
| | C29 220 pF. (2%) | C49 400 pF. |
| | C30 15 pF. (5%) | C50 4 (100 v.) |
| | C31 15 pF. (5%) | C51 0.01 |
| | C32 70 pF. | C52 0.01 |
| | C33 410 pF. (2%) | C53 0.02 |
| | C34 440 pF. (2%) | C54 0.0025 |
| | C35 0.0039 (10%) | C55 50 (12 v.) |



Note. An extra heater decoupling capacitor (C74) is connected to V3 heater.

CIRCUIT DIAGRAM—H.M.V. MODEL 1629