

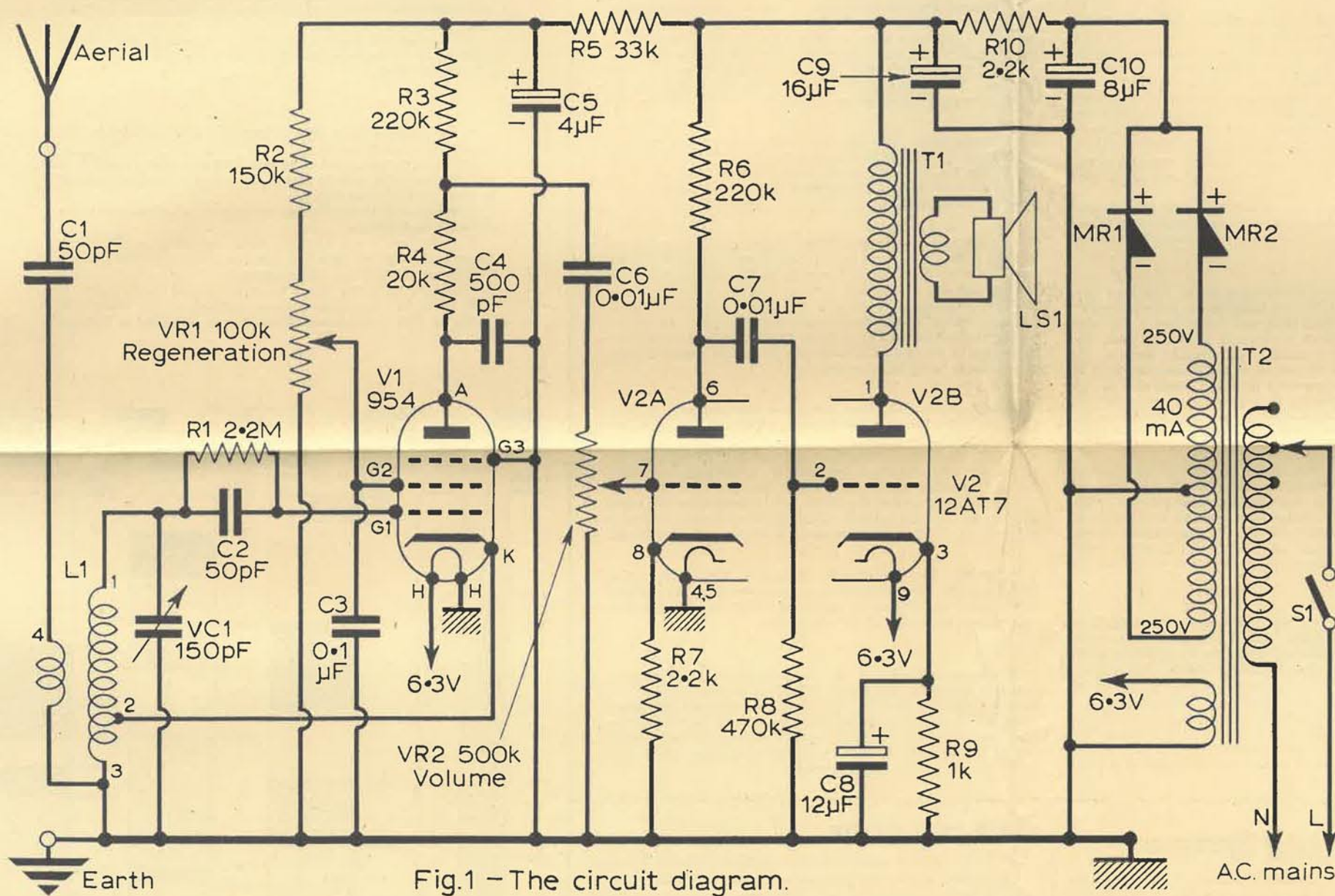


Fig. 1 - The circuit diagram.

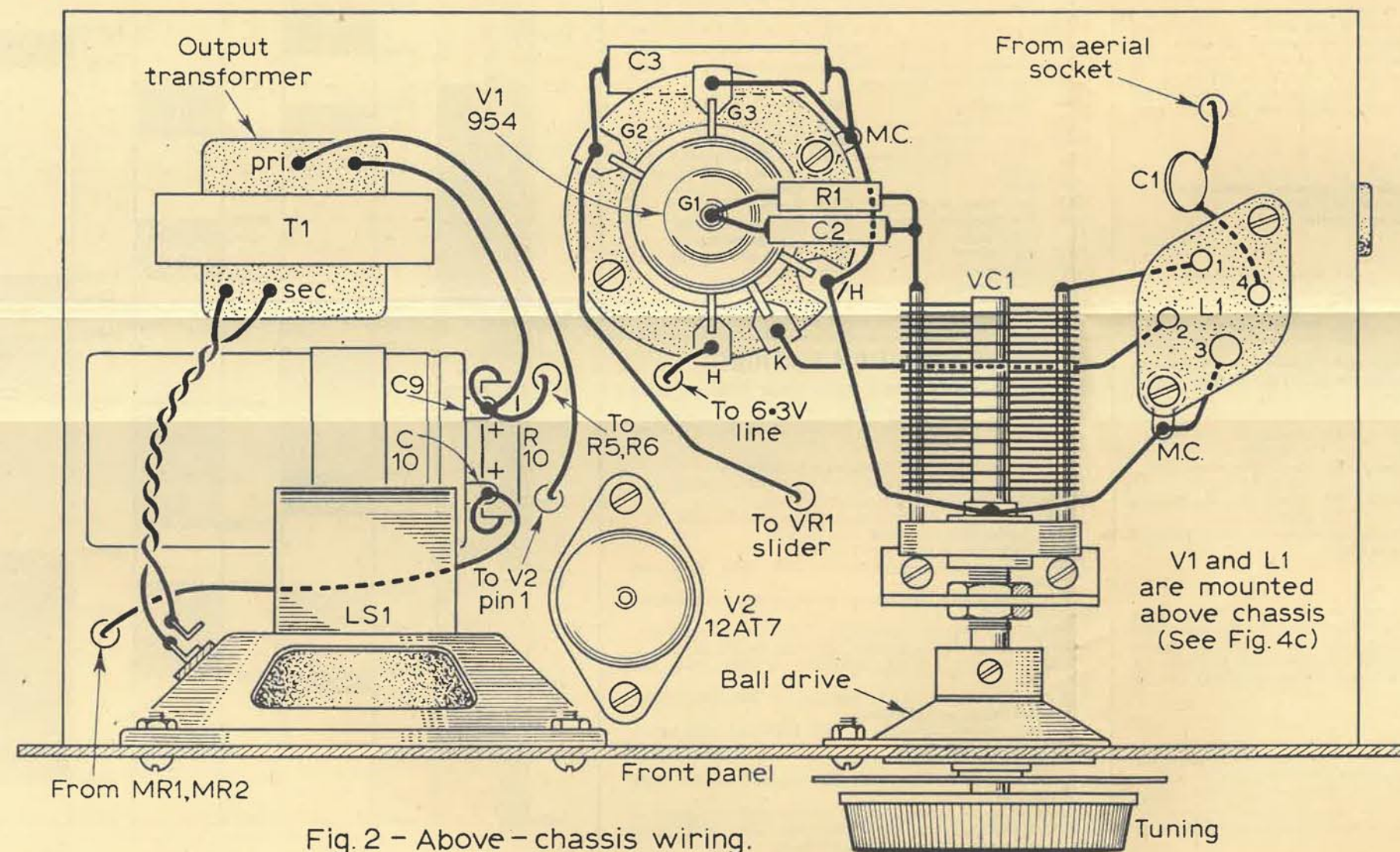


Fig. 2 - Above-chassis wiring.

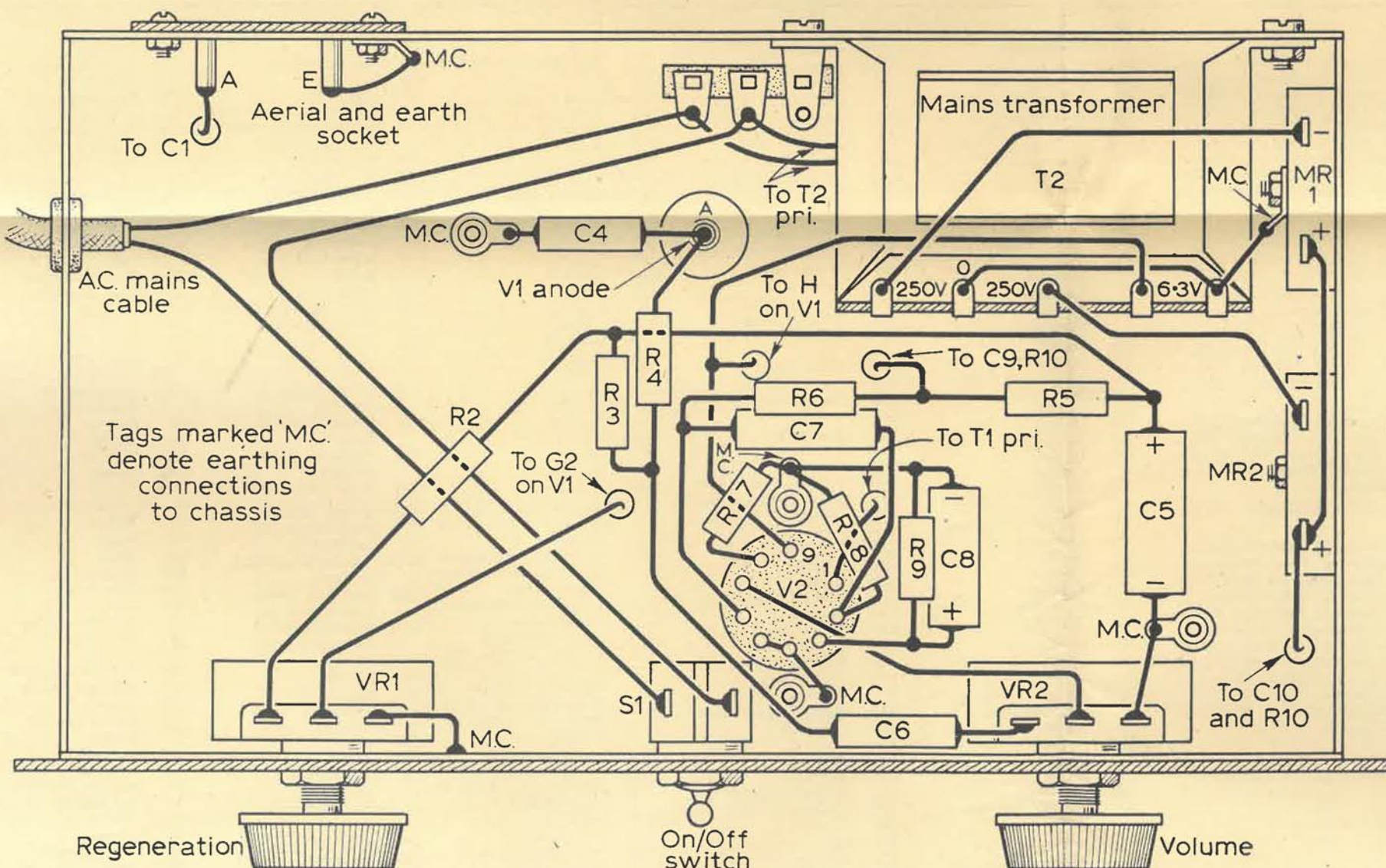
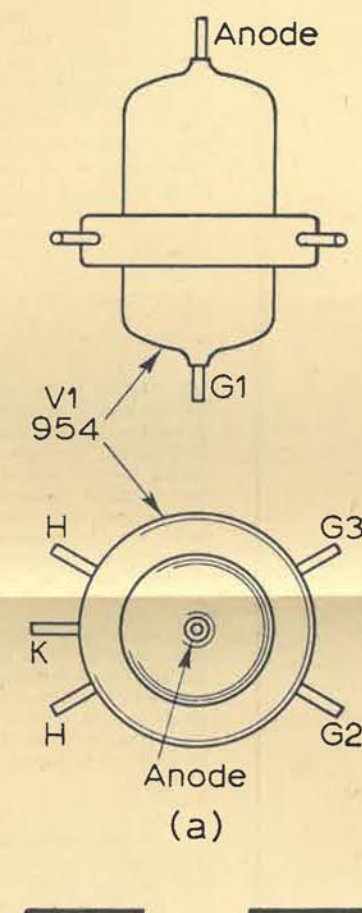


Fig. 3 - Below-chassis wiring.



COIL WINDING DATA

- 1-2.4Mc/s (250-75 metres)
100 turns 34s.w.g., tap at 2 turns. Aerial coupling, 20 turns.
- 2.5-7.5Mc/s (120-40 metres)
50 turns 32s.w.g., tap at 1½ turns. Aerial coupling, 15 turns.
- 6.75-22Mc/s (44-13.6 metres)
16 turns 30s.w.g., tap at ½ turn. Aerial coupling, five turns.
- 14.5-50Mc/s (20.6-6 metres)
5½ turns 30s.w.g., tap at ½ to ¾ turn. Aerial coupling, two turns.
- 40-100Mc/s (7.5-3 metres)
2½ turns 20s.w.g., double spaced, tap at ½ turn. Aerial coupling, one turn.
- The two larger coils are close wound. The other coils are on threaded formers, and spaced 21 turns per inch. Aerial windings are near the tuned winding as indicated in Fig. 4(d).

Fig. 4 - Coil and valve details.

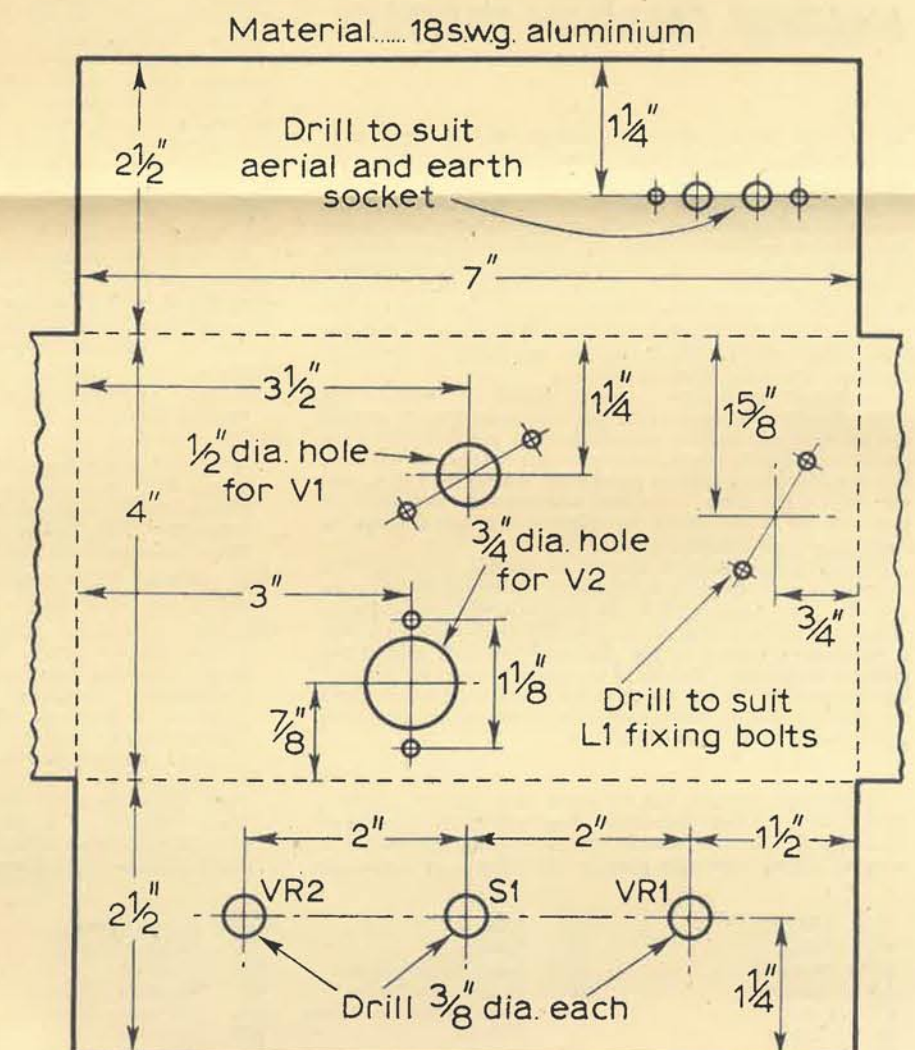


Fig. 5 - Chassis drilling details.

- ### COMPONENTS LIST
- Resistors:**
R1 2.2MΩ R6 220kΩ
R2 150kΩ R7 2.2kΩ
R3 220kΩ R8 470kΩ
R4 20kΩ R9 1kΩ
R5 33kΩ R10 2.2kΩ 3W w.w.
All 10%, ½W carbon, except where otherwise indicated.
VR1 100kΩ wire-wound potentiometer
VR2 500kΩ carbon potentiometer
- Capacitors:**
C1 50pF mica or ceramic
C2 50pF mica or ceramic
C3 0.1μF paper
C4 500pF mica or ceramic
C5 4μF electrolytic 350V
C6 0.01μF paper
C7 0.01μF paper
C8 12μF electrolytic 25V
C9 16μF } dual electrolytic 350V
C10 8μF }
VC1 150pF air dielectric variable
- Transformers:**
T1 Output transformer 60 : 1
T2 Small mains transformer. Tapped primary.
Secondaries: 250-0-250V 40mA; 6.3V 1A
- Valves:**
V1 954 V2 12AT7
- Other Circuit Components:**
LS1 2½in. diameter loudspeaker 2-3Ω
S1 Toggle switch s.p.s.t.
MR1, 2 Contact cooled rectifier 250V 40mA
- Miscellaneous:**
Ball drive 6 : 1 ratio. Knobs: one 2in. diameter, two 1in. diameter. One B9A valveholder. Ribbed 4-pin plug-in coil formers (Eddystone). Coil holder (Eddystone). Aerial-earth socket strip. Tag strip (2 insulated). Chassis 7in. x 4in. x 2½in. approx. Panel 6in. x 7½in.