

PRICE
6/-

Practical Wireless

MERCURY SIX

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BLUEPRINT
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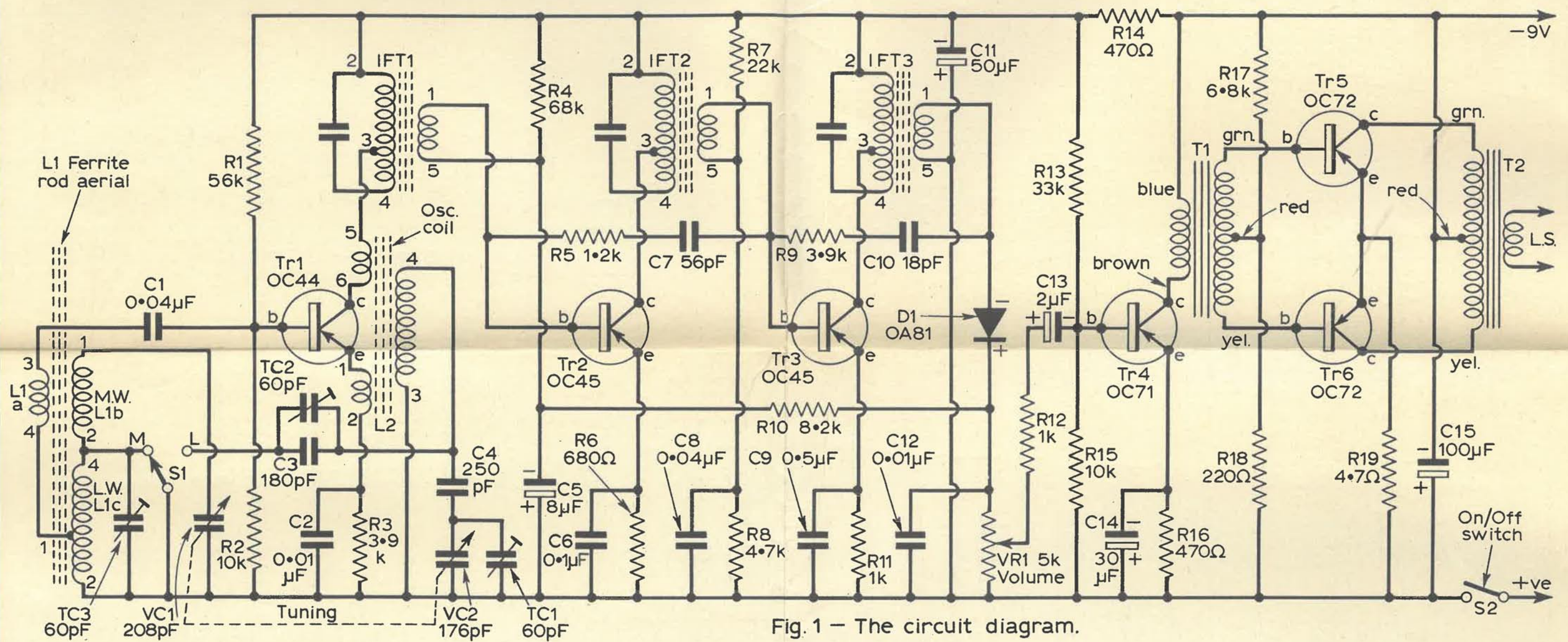


Fig. 1 - The circuit diagram.

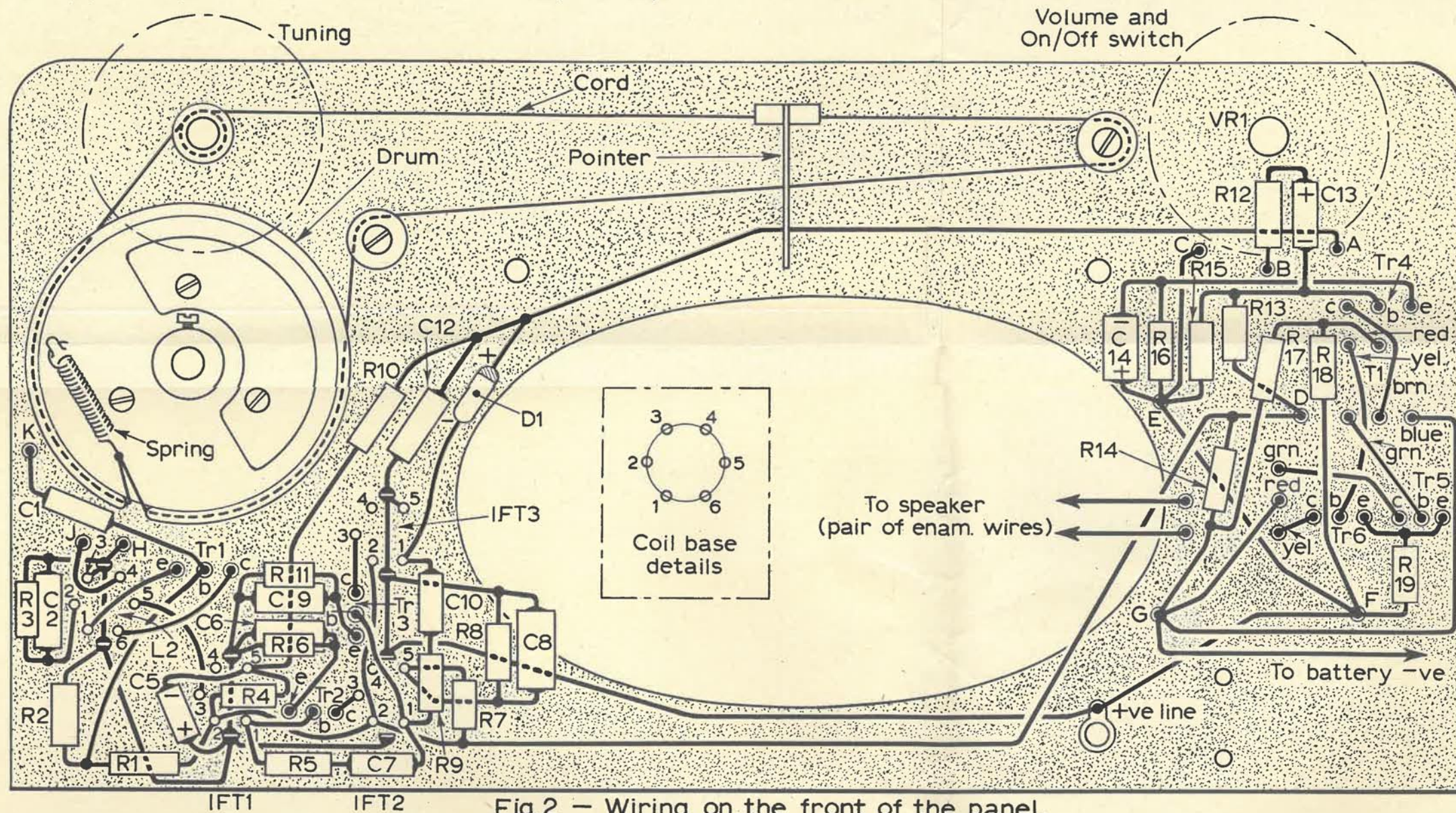


Fig. 2 - Wiring on the front of the panel.

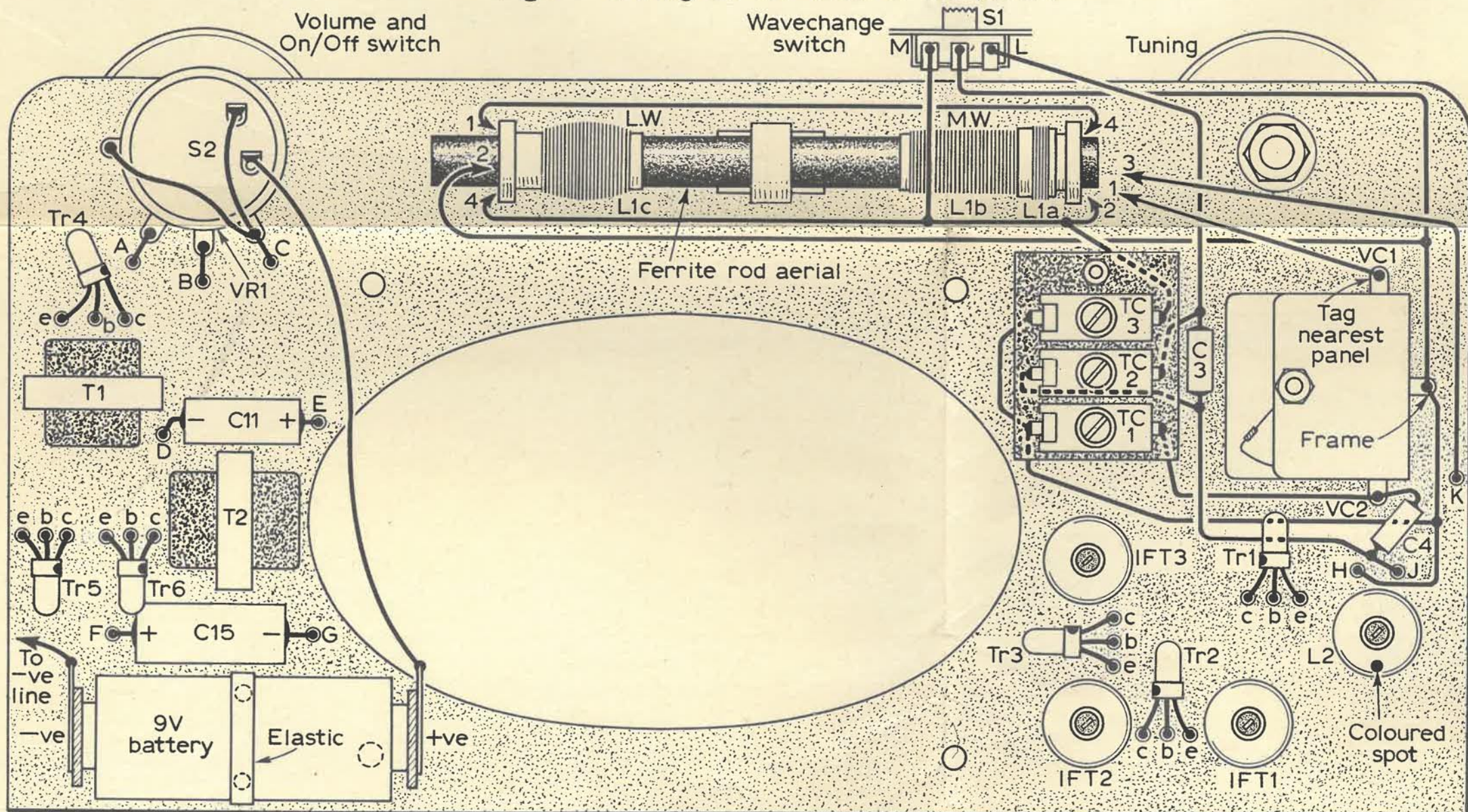


Fig. 3 - Wiring on the rear of the panel.

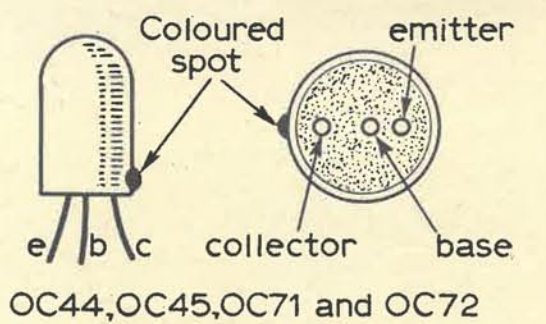


Fig. 4 - Transistor details.

COMPONENTS LIST

- Resistors:
(All $\frac{1}{4}$ W, 20% or 10% unless otherwise stated.)
R1 56k
R2 10k
R3 3.9k
R4 68k
R5 1.2k
R6 680 Ω
R7 22k
R8 4.7k
R9 3.9k
R10 8.2k
R11 1k
R12 1k
R13 33k
R14 470 Ω
R15 10k
R16 470 Ω
R17 6.8k
R18 220 Ω
R19 4.7 Ω
VR1 5k with on/off switch (S2)
- Capacitors:
C1 0.04 μ F 150VW
C2 0.01 μ F 150VW
C3 180pF
C4 250pF
C5 8 μ F 6VW elec.
C6 0.1 μ F 150VW
C7 56pF ceramic
C8 0.04 μ F 150VW
C9 0.5 μ F 150VW
C10 18pF ceramic
C11 50 μ F 12VW elec.
C12 0.01 μ F 150VW
C13 2 μ F 6VW elec.
C14 30 μ F 6VW elec.
C15 100 μ F 12VW elec.
VC1, VC2 208pF, 176pF two gang tuning condenser, with screen between sections (Jackson 00 type).
TC1, TC2, TC3 60pF miniature trimmers.
- Coils (Osmor):
L1 Ferrite rod aerial type FR1 (with cradle and strap)
L2 Oscillator coil—PW/01
- Transformers (Osmor):
IFT1 PW/2
IFT2 PW/2
IFT3 PW/3
T1—Driver transformer—PW/DT
T2—Output transformer—PW/OT
- Transistors (Mullard):
Tr1 OC44, Tr2 OC45, Tr3 OC45, Tr4 OC71, Tr5 and Tr6 matched pair of OC72's.
- Diode (Mullard):
OA81
- Battery:
9V Ever-Ready
- Chassis:
Paxolin, about 11 $\frac{1}{2}$ in. x 5 $\frac{1}{2}$ in. x $\frac{3}{16}$ in.
- Wavechange Switch:
Single-pole, change-over—slide type
- Miscellaneous:
Plastic cabinet, fret, loudspeaker, tuning wheels, drive, drum and pointer (Osmor).