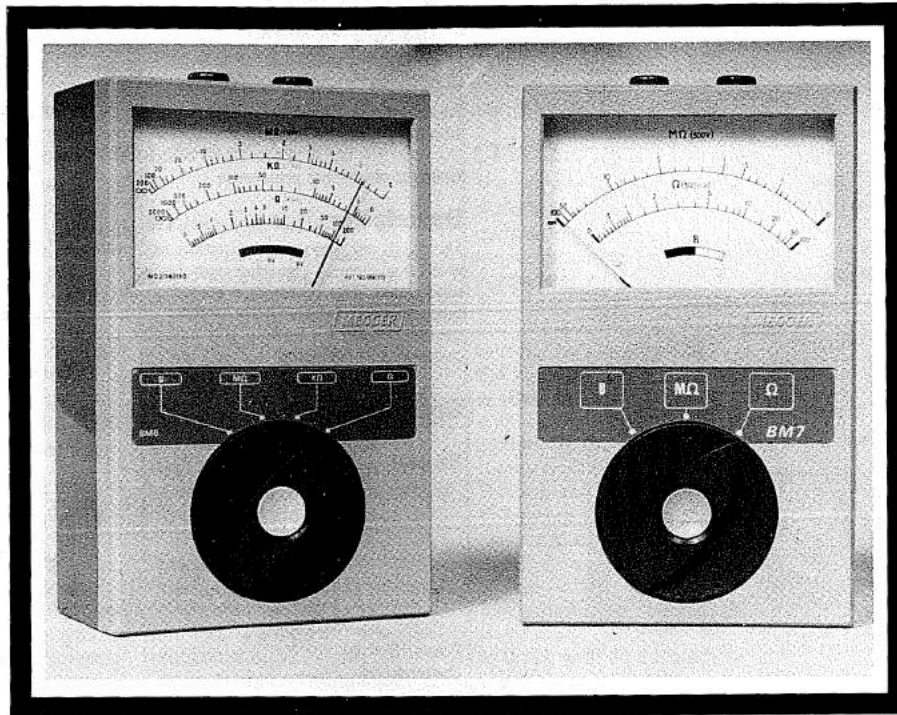




Battery Operated Insulation Testers

BM6 BM7



- ★ Electronically generated test voltage
- ★ Fuse protection
- ★ One hand operation
- ★ Automatic discharge of capacitive circuits

Applications

These MEGGER testers are suitable for single voltage insulation resistance and continuity testing on domestic wiring systems and equipment, transformers, motors and generators. The BM6, BM7-500 and BMV7 mk2 are suitable for testing that 240V installations comply with British IEE Wiring Regulations. The BM7-250 model is suitable for 120V installations. The BMV7 also measures a.c. voltage up to 500V.

Description

BM6

This instrument operates over three ranges, 0—200M Ω for insulation testing at 500V d.c., 0—5000k Ω for resistance and continuity testing at 8,5V d.c., and low voltage continuity testing at 5,5V d.c. over the range 0—200 Ω . The 500V test voltage is derived from a transistor oscillator, powered by six, 1,5V HP7 dry cells. The Evershed cross-coils movement requires no setting-up or adjusting, and is individually calibrated.

BM7-250 BM7-500

The BM7-250 is intended for low voltage tests, operating at a test voltage of 250V. The BM7-500 tests at 500V. The test voltages are generated only when the test button is pressed and there is a built-in battery check position. The instrument is housed in a lightweight, rugged case, and has a taut band suspension, moving coil movement.

Specification

	BM6	BM7-250	BM7-500
Megohm range	0—200M Ω at 500V	0—50M Ω at 250V	0—100M Ω at 500V
Kilohm range	0—5000k Ω at 8,5V	—	—
Continuity range	0—200 Ω at 5,5V	0—100 Ω at 300mV	0—100 Ω at 300mV
Voltage measurement	—	—	—
Batteries	6 \times HP7	6 \times HP7	6 \times HP7
Fuses	100mA	800mA	800mA
Dimensions	153 \times 59 \times 95mm (6 \times 2 $\frac{3}{16}$ \times 3 $\frac{3}{4}$ in)		
Weight	0,68kg (1 $\frac{1}{2}$ lb)	0,57kg (1 $\frac{1}{4}$ lb)	0,57kg (1 $\frac{1}{4}$ lb)

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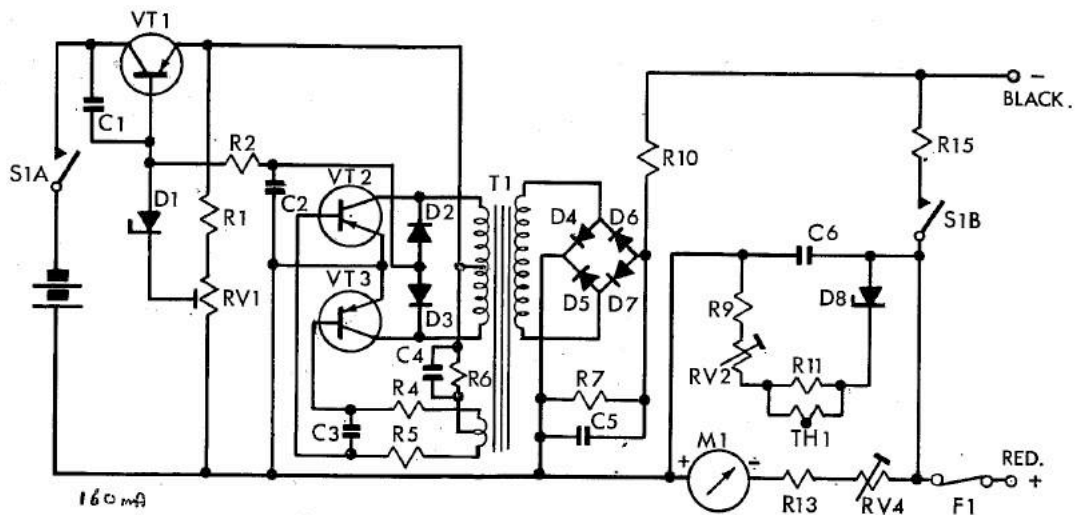


Figure 3
 BM7-250 functional circuit with range switch S2 (omitted for clarity)
 in the 'MΩ' position

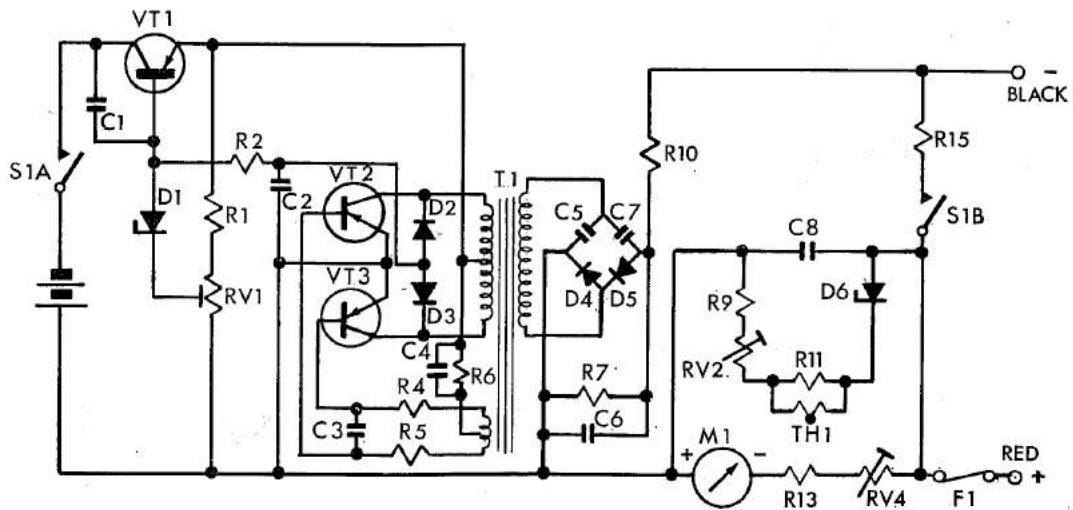


Figure 4
 BM7-500 functional circuit with range switch S2 (omitted for clarity)
 in the 'MΩ' position

8.3 The 'Ohms' function

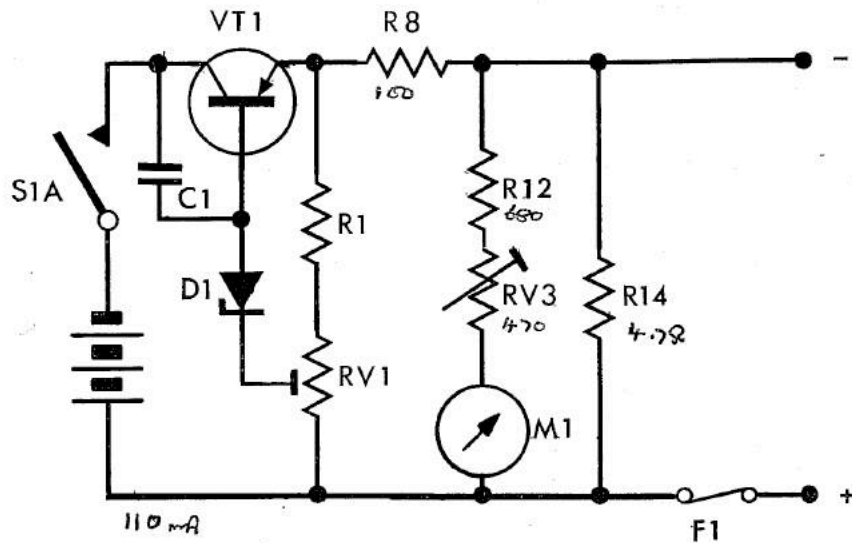


Figure 5
Functional circuit with range switch S2 (omitted for clarity) in the 'Ω' position

Reference to Fig. 5 shows how the battery and the stabiliser VT1 are employed. The output from VT1 is passed through current limiting resistor R8 to the negative instrument terminal. The meter M1 with adjustable resistor RV3 is placed across the stabiliser output as shown in the diagram. The 'Ohms' position on the meter is also protected by fuse F1.

8.4 The Battery check function 'B'

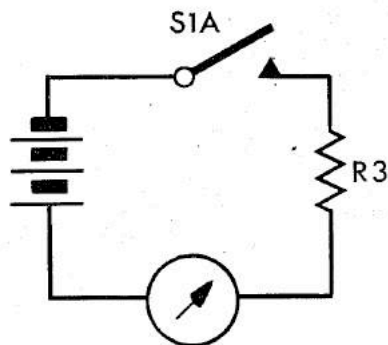
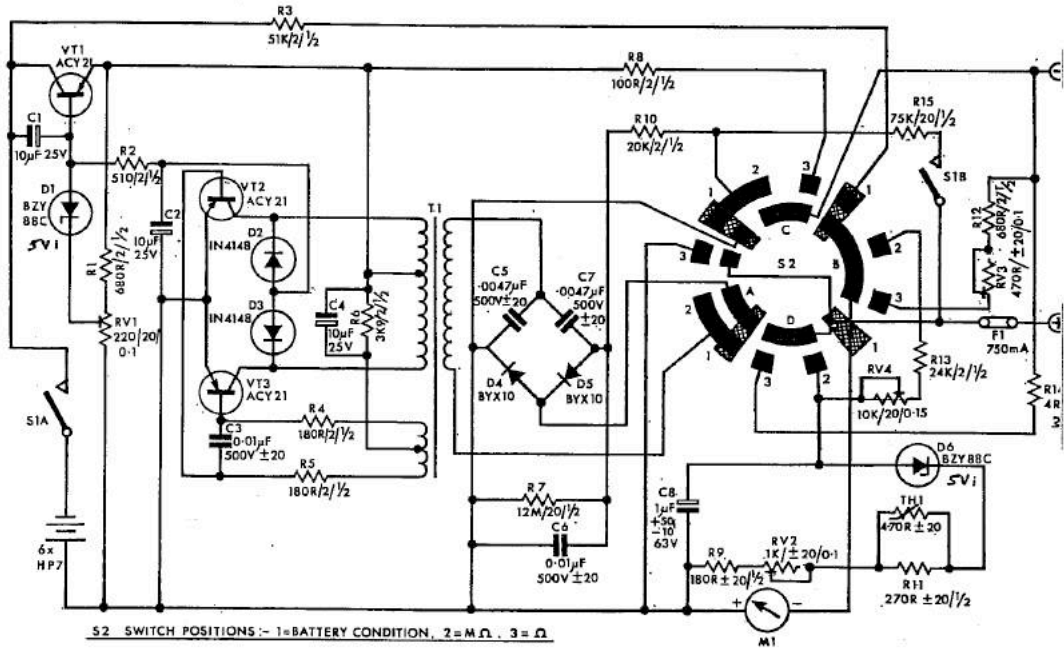


Figure 6
Functional circuit with range switch S2 (omitted for clarity) in the 'B' position

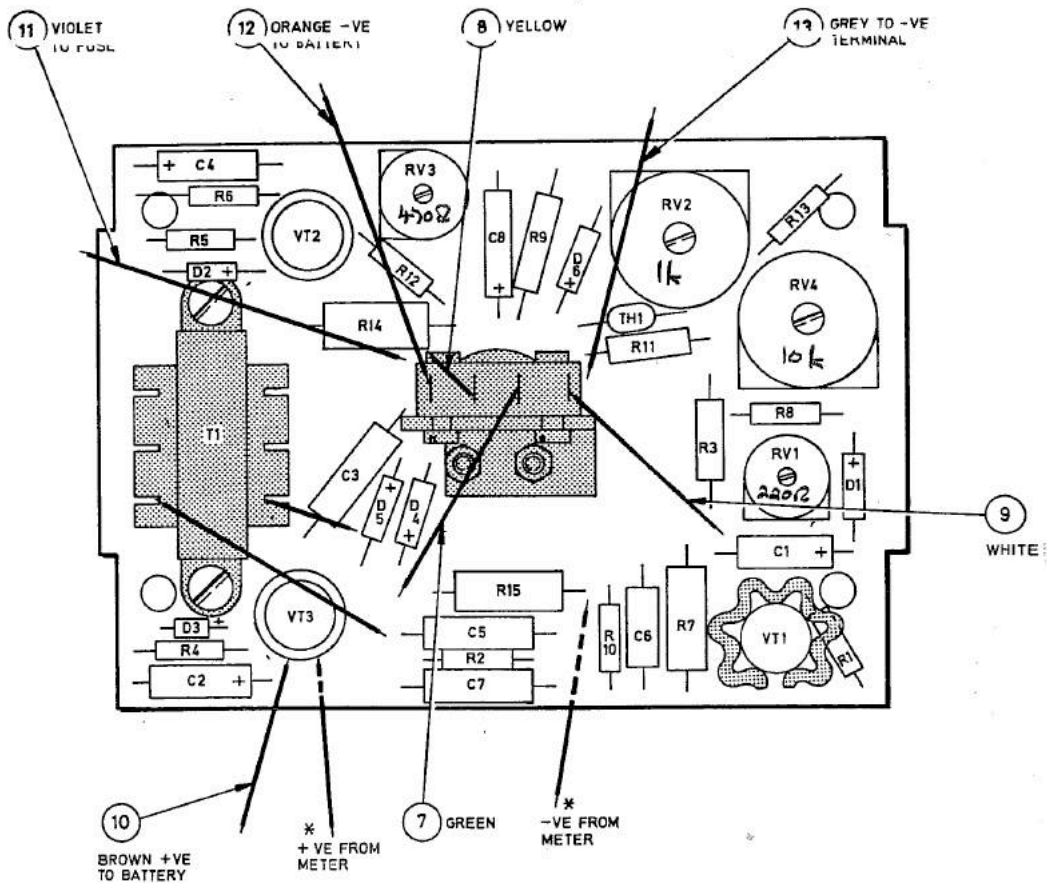
Reference to Fig. 6 shows that with 'Battery Check' selected, the meter movement M1 and resistor R3 are connected in series across the battery when push-button S1 A is operated. M1 then gives a reading of the battery condition. No other part of the meter is in circuit when switch position B is used.

BM7-500

Circuit Diagram



Component Location



CIRCUIT DIAGRAM

