### C. Continuity and Resistance Testing

(i) For continuity testing or measurement of resistances up to 200 ohms, set switch to Ω. For higher resistances set to kΩ.
(ii) Insert plugs of leads into sockets.
(iii) Connect one lead to each end of circuit under test.
(iv) Press button (8) and read scale corresponding to switch setting

i.e. "Ω", read scale (5)
"kΩ", read scale (4)

### D. Fuses

There are two fuses. Both are of 100 mA rating (Bulgin F270 or equivalent. Size 5 × 20 mm.) One (13) is common to all instrument ranges and the other (12) is in the Ω range. These fuses are in the battery compartment. See diagram for location, items (12) and (13). If no readings are obtained, check the fuses.



**Spare part numbers**

| Item | E & V No. |
|---|---|
| Fuses (100 mA. size 5 × 20mm) | 27411-404 |
| Leads | Y20608 |
| Ever Ready case | W5341 |
| Batteries (1.5V. Ever Ready U7 or equivalent) | 27621-102 |

# BATTERY "MEGGER" TESTER

*Catalogue No. 40022*

## Instructions for Use

**In all correspondence with the Company please quote instrument Serial Number printed on face of dial.**

**EVERSHED & VIGNOLES LIMITED**
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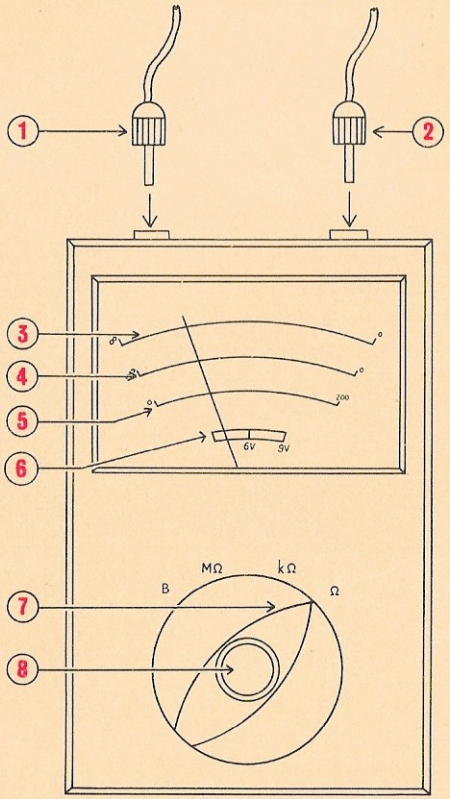
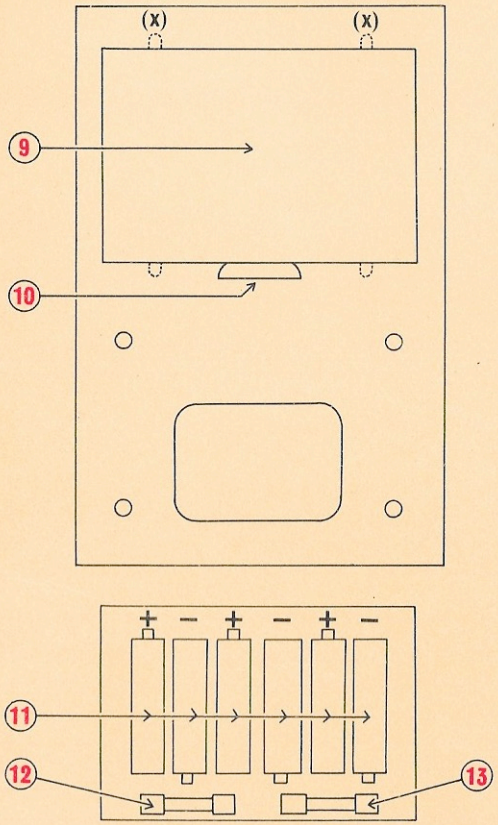
## TOP VIEW OF INSTRUMENT




1 "Earth" plug and socket (red)
2 "Line" plug and socket (black)
3 Insulation scale (megohms)
4 High Resistance scale (kilohms)
5 Low Resistance scale (ohms)
6 Battery Condition scale
7 Range Switch
8 Operating Button

## REAR VIEW OF INSTRUMENT




9 Battery Compartment Cover
10 Cover Lifting Slot
11 Batteries
12 Fuse in Ohms Range
13 Common Fuse, all ranges

### A. Preliminary Instructions and Information.

Note: The batteries are packed in a polythene bag and are contained in the pocket of the leather case which carries the testing leads.

(i) To insert batteries: remove instrument from carrying case, release cover (9) by inserting coin in slot (10) and lifting. Remove cover and fit batteries (6 type Ever Ready U7 batteries 1.5V or equivalent) in the battery compartment, observing the marked polarities. Replace cover by inserting lugs (x) under case and pressing cover into position.

(ii) Before connecting leads to instrument: check battery condition by moving the selector (7) to "B" and pressing push-button (8). Pointer should come to rest over green part of scale (6). If it is over the red sector, replace batteries: these should give a life of approximately ten months with normal use.

(iii) Capacitive circuits are automatically discharged within the instrument when the operating push-button is released.

**THE CIRCUIT TO BE TESTED MUST BE ISOLATED**

### B. Insulation Tests

(i) Set range switch to MΩ
Test to Earth: Insert plug (1) in red socket (EARTH), connect other end of associated lead to earth (frame of equipment etc.) Insert plug (2) in black socket (LINE) and connect lead to circuit under test. Press push-button and read outer scale.
Test between wires: Connect one wire to each lead. Press the push-button (8) and read the outer scale.

(ii) To check test leads.
(a) Connect leads to instrument by inserting the plugs in their sockets, ensuring that the other ends of the leads are free and not in contact. With the switch set to MΩ, press button (8). The pointer should stand over the infinity mark (∞).
If not, check insulation of leads.
(b) Insert plugs as in (a) but connect outer ends of leads together. With the switch set to insulation range as before, press the button (8). If the reading is infinity, the leads are open-circuited.