MAJOR TECH MT100 Continuity and Bell Tester Instruction Manual

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Contents

Introduction

The MT100 allows users to quickly identify and label two wires even when the wire ends are located in different rooms. This tester is shipped fully tested and with proper use will provide years of reliable service.

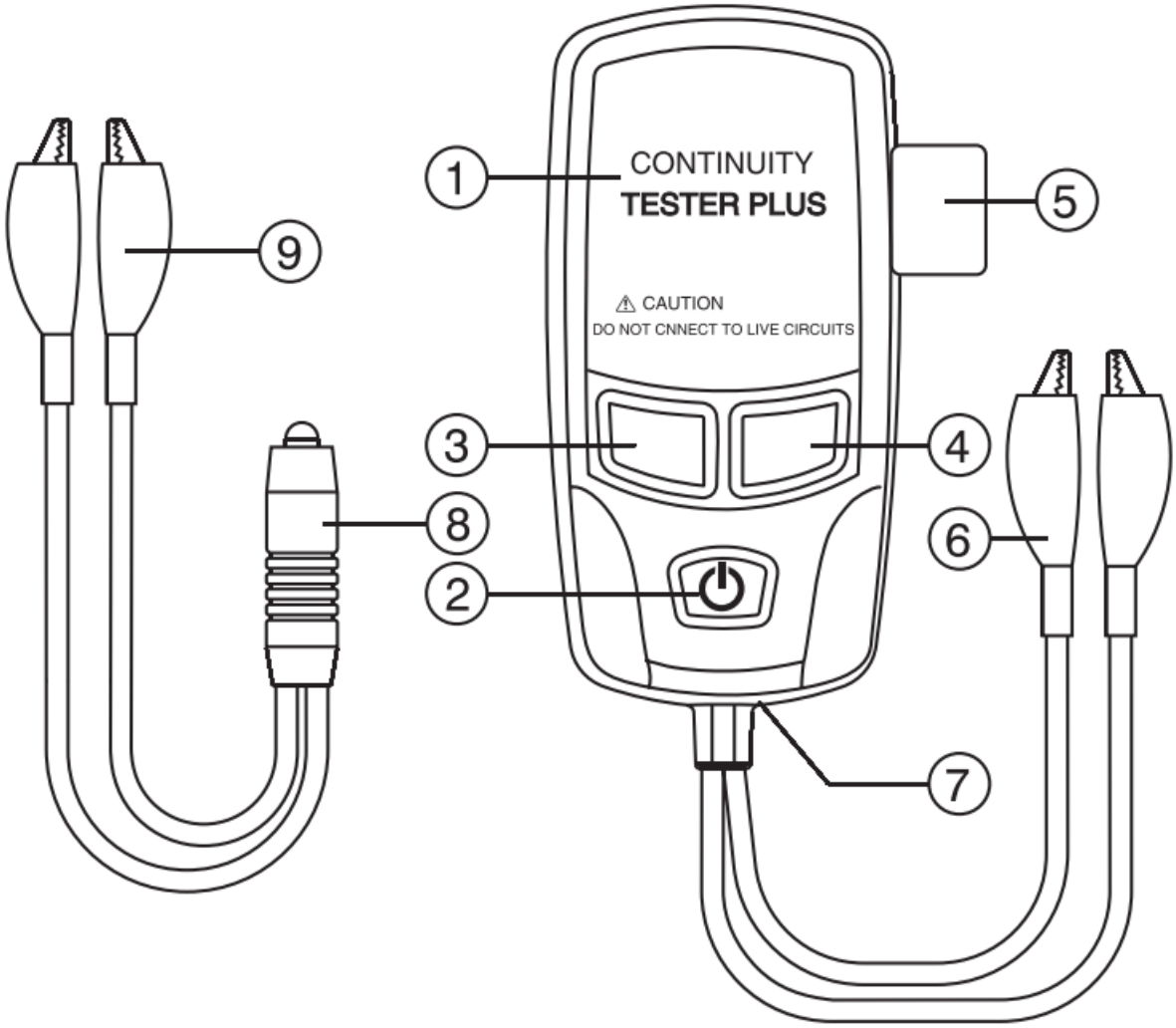
Safety

Warnings
Caution: Do not connect to a live circuit

Precautions

1. Improper use of the tester can cause damage, shock, injury or death. Read and understand this manual before use.
2. Ensure that the battery cover is properly closed and secured before use.
3. Inspect the condition of the test leads and the tester itself for any damage before use.
4. Remove the battery from the tester if it is to be stored for a long period.

Descriptions



1. Local Continuity Tester (Main Pulsing unit)
2. Power ON/OFF
3. Local Continuity Indicator (Flashing Red LED)
4. Power “ON” Indicator (Steady Green LED)
5. Remote Probe Holder (Side Mounted Plastic Piece)
6. Red and Black Tester Leads with Croc Clips
7. 9V Battery Compartment (Removable Cover on Rear)
8. Remote Probe Continuity Indicator (Red/Green Bi-Colour LED)

9. Red and Black Remote Probe Leads with Croc Clips
10. Local Continuity Beeper

Specifications

Continuity Confirmation: Equal to or less than 1k ohms
Wire Verification Distance: 3000m (10,000Ft) 26 gauge min
Fuse: 250V 0.5A fast flow
Operating Temp: -12°C to 45°C (-10°F to 113°F)
Storage Temp: -20°C to 80°C (-4°F to 176°F)
Operating Humidity: 10% to 90% RH (non-condensing)
Battery: 9V
Battery Life: Approx. 12 months with normal use
Dimensions: 96 x 47 x 33mm
Weight: 135g

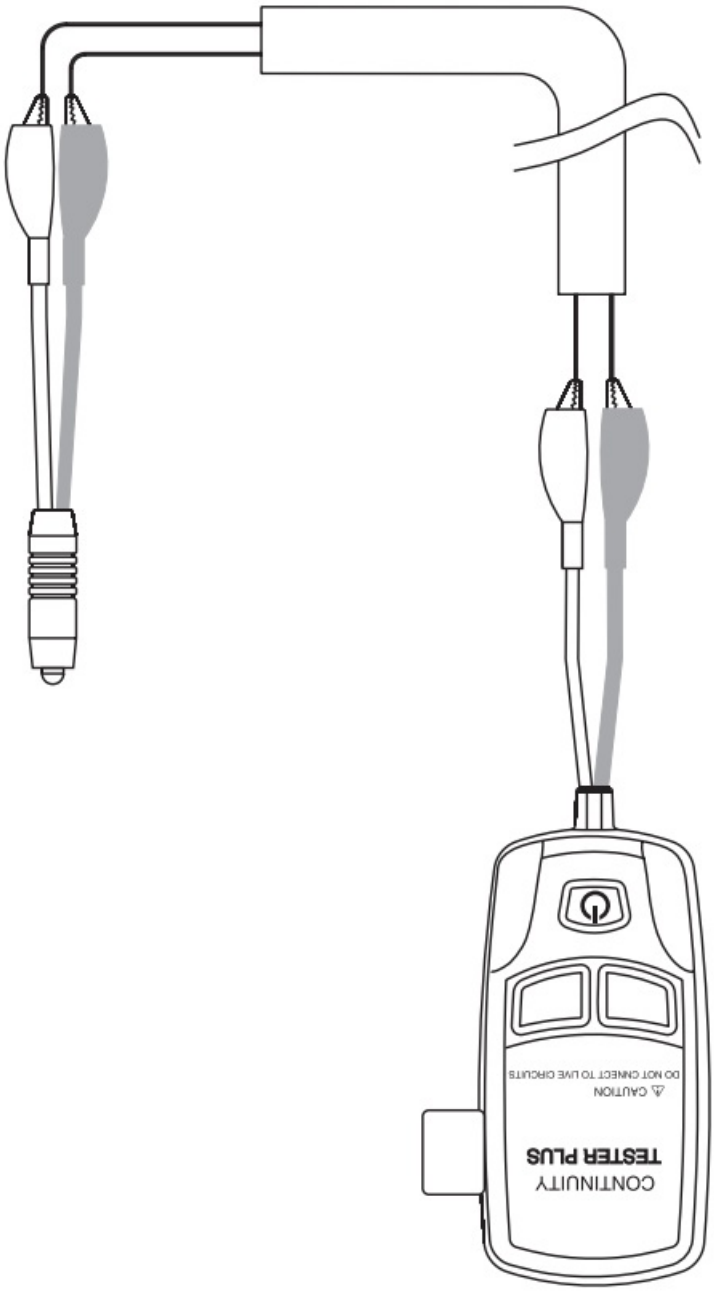
Operation

CAUTION: Do not connect to live wires. Use only on non-energised circuits.

Remote continuity

Remote continuity is a different mode of usage for the tester and requires the remote probe. This mode is primarily used for:
A. Remote verification of continuity for cable/wires or
B. Individual cable/wires for identification and labelling. Properly used, the tester with remote probe will eliminate numerous trips when testing TV cables, electrical cables and speaker/telephone wiring in multiple rooms/multiple floor installations.

1. Turn power on. The green power LED will glow. If green LED fails to light replace the battery.
2. Attach red and black croc clips of tester to one end of cable/wires under test.
3. Proceed to the other end of the cable/wires and connect them to remote probe test leads
4. If continuity exists, the LED on the probe will flash either green or red depending on the probe leads orientation. Note, at this point, tester hanging on cable/wires at origination end, will beep and flash red whole remote probe (with user) at destination end is verifying continuity.
5. When tester (read lead) is connected through wire under test to remote probe (red lead) and tester (black lead), then probe LED flashes green indicating correct connection orientation. If probe LED flashes red, this indicates probe leads are not correctly connected. Reverse probe leads to produce green light.
6. Once correct orientation has been achieved (flashing green LED), then wires under test can be labelled consistent with the colours on tester and probe leads.



Advanced Remote Continuity and Wire Identification

The remote continuity mode can be used to check continuity and to identify two, three or more cables/wires simultaneously by applying simple logic and a testing strategy. To facilitate cable/wire identification, the leads of the tester and probe use matching colour.

Local Continuit

Using just the tester (without probes) you can easily test any in-wall wiring from point to point locations in the same room. Other handy uses are to quickly test light bulbs, fuses, switches, relay contacts, diodes, low ohm power resistors, circuit breakers, etc for electrical continuity.

1. Turn power on. The green power LED will glow. If green LED fails to light replace the battery.
2. To check same room wiring runs, attach both red and black croc clips of the tester to both wires on one end of multiwire cable under test and let tester hang from wires.
3. Go to other end of same cable and momentarily connect wires in cable together. The tester will beep and the red LED will flash indicating continuity.

4. When continuity is found, label both ends of cable with the same number or name.
5. To test other devices (listed above) connect tester leads to device terminals in any lead orientation (red or black). If device makes internal electrical connection then tester will beep and its red LED will flash indicating continuity.

Exceptions: When testing a diode, the red tester lead is positive and will show continuity when connected to the anode (positive (+) side) with black tester lead to cathode (negative (-) side).

Battery Replacement

1. Loosen Phillips head screw of battery compartment and remove cover (rear)
2. Replace 9V Battery and compartment cover, then tighten screw.

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Documents / Resources

	MAJOR TECH MT100 Continuity and Bell Tester [pdf] Instruction Manual MT100 Continuity and Bell Tester, MT100, Continuity and Bell Tester, Bell Tester, Tester

References

- Major Tech - Innovation I Quality I Excellence
- Home - Major Tech Australia