uxcell AC 100-500V Voltage Tester

uxcell Voltage Tester AC 100-500V Instruction Manual

Brand: uxcell | Model: AC 100-500V Voltage Tester

1. Introduction and Overview

The uxcell AC 100-500V Voltage Tester is a versatile tool designed for safely testing electrical circuits and distinguishing between live and neutral wires. It functions both as a circuit tester and a 3mm slotted screwdriver, providing convenience for various electrical tasks. This manual provides essential information on its features, safe operation, and maintenance.

Figure 1.1: Overview of the uxcell AC 100-500V Voltage Tester (Pack of 3).

2. Safety Information

Your safety is paramount when working with electricity. Please read and adhere to all safety warnings before using the voltage tester.

- **DO NOT touch the voltage tester probe** during operation. Always hold the insulated handle.
- Ensure the voltage tester is rated for the voltage you intend to test (AC 100-500V).
- Always assume a circuit is live until proven otherwise.
- Do not use the tester if it appears damaged or faulty.
- Keep out of reach of children.
- Use appropriate personal protective equipment (PPE) such as insulated gloves and safety glasses when working with electrical circuits.

3. Product Features and Components

The uxcell Voltage Tester is designed for ease of use and reliability. Key features include:

- **Voltage Range:** AC 100-500V.
- **Overall Size:** Approximately 141 x 15mm (5.56 x 0.6 Inch) (Length x Diameter).
- **Screwdriver Head Width:** 3mm (0.12 Inch).
- **Dual Functionality:** Works as both a circuit tester and a slotted screwdriver.
- **Neon Tube Indicator:** The neon tube light illuminates brighter with higher voltage, indicating the presence of electricity.

Figure 3.1: Dimensions of the Voltage Tester.

Figure 3.2: Internal Components (Neon Tube and Spring).

4. Setup

The uxcell Voltage Tester is ready for use out of the box. No assembly or battery installation is required as it operates by drawing a small current through the circuit being tested to illuminate the neon indicator.

Before each use, perform a quick visual inspection to ensure there are no visible damages to the tester, especially the insulated handle and the metal probe.

5. Operating Instructions

Follow these steps to safely and effectively use your voltage tester:

1. **Grip the Tester Correctly:** When using the voltage tester, insert the screwdriver tip into the circuit point you wish to test. Hold the insulated handle firmly with your thumb and middle fingers.

2. **Touch the Cap:** Place your forefinger on the metal cap at the end of the voltage tester. This completes the circuit through your body (a very small, safe current) to illuminate the neon indicator.
3. **Observe the Indicator:** If the circuit is live and within the AC 100-500V range, the neon tube inside the tester will light up. The brighter the light, the higher the voltage.
4. **Distinguishing Live Wires:** When testing a socket or wire, if the neon light illuminates, it indicates a live (hot) wire. If it does not light up, it is likely a neutral or ground wire, or the circuit is de-energized.

Figure 5.1: Correct Hand Position for Testing.

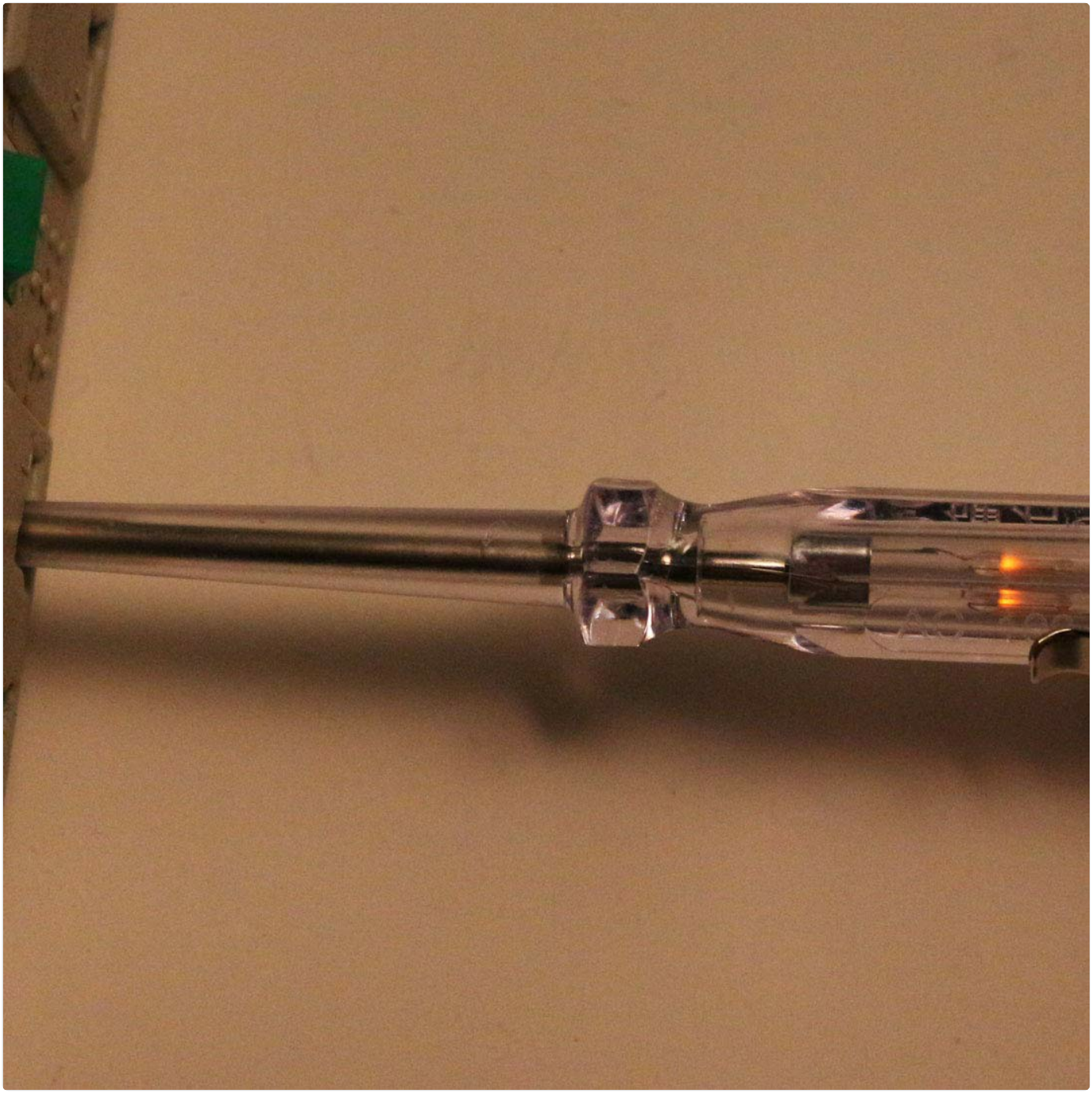

Figure 5.2: Voltage Tester in Operation.

6. Maintenance

To ensure the longevity and accuracy of your uxcell Voltage Tester, follow these simple maintenance guidelines:

- **Cleaning:** Wipe the tester with a dry, clean cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the internal components.
- **Storage:** Store the tester in a dry place, away from direct sunlight and extreme temperatures. Keep it in its original packaging or a tool case to prevent physical damage.
- **Inspection:** Periodically inspect the tester for any signs of damage, such as cracks in the handle, bent tips, or loose components. Discontinue use if any damage is found.

7. Troubleshooting

If you encounter issues with your voltage tester, consider the following common troubleshooting steps:

- **Neon Light Does Not Illuminate:**
  - Ensure you are holding the insulated handle correctly and touching the metal cap with your forefinger.
  - Verify that the circuit you are testing is indeed live and within the AC 100-500V range. Test on a known live circuit (e.g., a working wall outlet) to confirm tester functionality.
  - Check for any visible damage to the tester.
- **Light is Dim:**
  - A dim light might indicate a lower voltage within the tester's range, or a poor connection. Ensure firm contact with the circuit point and the metal cap.

If the tester still does not function correctly after troubleshooting, it may be faulty and should be replaced.

8. Specifications

Feature	Detail
Voltage Range	AC 100-500V
Overall Size (L x D)	141 x 15mm / 5.56 x 0.6 Inch
Screwdriver Head Width	3mm / 0.12 Inch
Product Dimensions	5.12 x 1.18 x 0.79 inches; 2.08 ounces
Color	Clear / Silver
Power Source	Corded Electric (self-powered by circuit)
Style	Handheld
Manufacturer	uxcell
ASIN	B07L94LTQK

9. Warranty and Support

Specific warranty information for this product is not provided in this manual. For any product support, warranty claims, or technical inquiries, please refer to the seller's information on the purchase platform or contact uxcell directly through their official channels.

You can visit the official uxcell store on Amazon for more products and information:uxcell Amazon Store.

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