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> WINAMOO 6V-24V Automotive Circuit Tester User Manual - Dual Color Polarity Indicator

## WINAMOO 6V-24V Automotive Circuit Tester

# WINAMOO 6V-24V Automotive Circuit Tester User Manual

Model: 6V-24V Automotive Circuit Tester

## 1. INTRODUCTION

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This manual provides detailed instructions for the safe and effective use of your WINAMOO 6V-24V Automotive Circuit Tester. This tool is designed for diagnosing electrical circuits in various vehicles, including cars, trucks, SUVs, RVs, and boats. It features a dual-color polarity indicator and a built-in tungsten bulb for enhanced visibility in diverse working conditions.



Image 1.1: The WINAMOO 6V-24V Automotive Circuit Tester with its sharp probe, transparent handle, coiled wire, and alligator clip.

## 2. PRODUCT FEATURES

- **Dual Color Light & Tungsten Bulb:** The tester incorporates a dual-color LED indicator (red for positive, green for negative) and a tungsten bulb. The tungsten bulb illuminates the work area, providing clear light indication for intricate electrical tasks.

# RELIABLE POLARITY INDICATION

Bidirectional Voltage Test



Image 2.1: Close-up view of the tester's handle showing the red light for positive polarity and green light for negative polarity.

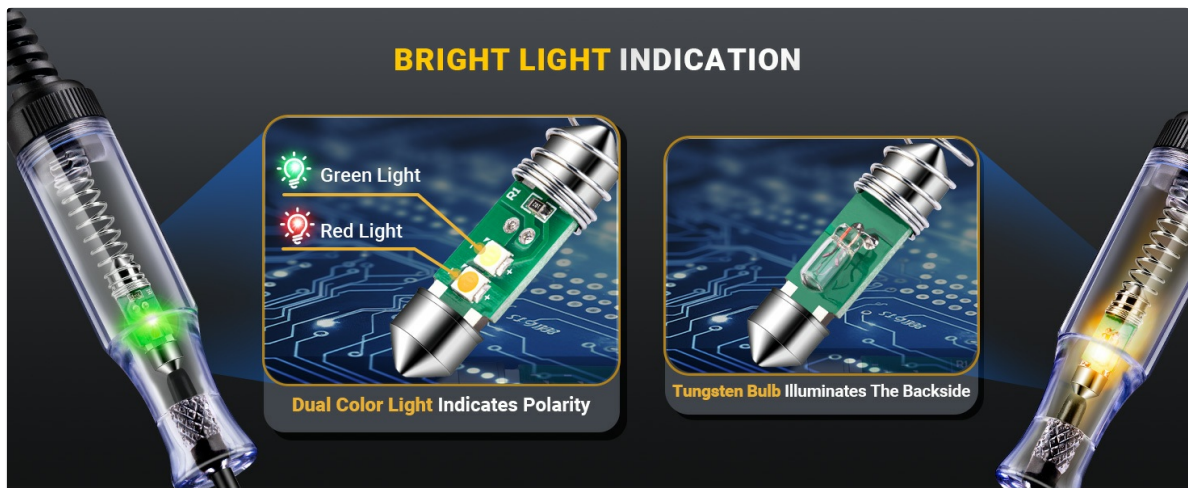


Image 2.2: Illustration of the internal dual-color LED and the tungsten bulb for illumination.

- **Premium Spring Wire & Ergonomic Design:** Features a 96-inch extendable spring wire for flexibility and a wide testing range. The wire's anti-bending design at the tail prevents poor contact. A large crocodile clip facilitates easy one-hand operation.
- **Sharp Probe & Anti-Lost Protective Sleeve:** Equipped with a long, sharp stainless steel probe for piercing insulation and reaching confined spaces. An integrated protective sleeve secures the probe during storage, preventing damage and loss.
- **Safe & Durable Use:** Constructed with a high-quality, transparent ABS body for durability and shatter resistance. The ergonomic handle ensures a comfortable and secure grip. A premium insulated rubber tip provides protection against electric shock, heat, and oil.
- **Wide Application:** This circuit tester is suitable for 6-24V DC voltage testing. It can be used to check various vehicle electrical circuits, diagnose issues, and test alternator functionality in cars, trucks, SUVs, boats, and other 6-24V DC wiring systems.



Image 2.3: Examples of vehicles where the circuit tester can be used, including motorcycles, RVs, cars, and trucks.

### 3. SETUP AND PREPARATION

1. **Inspect the Tester:** Before each use, visually inspect the circuit tester for any signs of damage, such as frayed wires, cracked housing, or a bent probe. Do not use if damaged.
2. **Connect the Ground Clip:** Attach the large alligator clip securely to a clean, unpainted metal part of the vehicle's chassis or directly to the negative terminal of the vehicle's battery. Ensure a good electrical connection.

3. **Remove Probe Protective Sleeve:** Carefully slide off the anti-lost protective sleeve from the sharp stainless steel probe.

## 4. OPERATING INSTRUCTIONS

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The WINAMOO 6V-24V Automotive Circuit Tester is designed for quick and accurate voltage and polarity testing in DC electrical systems.

### 4.1. Testing for Voltage and Polarity

1. Ensure the alligator clip is properly grounded (connected to a known good ground or battery negative terminal).
2. Carefully touch the sharp probe to the circuit or component you wish to test.
3. Observe the indicator light in the tester's handle:
  - If the red light illuminates, the circuit has a positive voltage (positive polarity).
  - If the green light illuminates, the circuit has a negative voltage (negative polarity).
  - If neither light illuminates, there is no voltage present, or the voltage is outside the 6-24V range, or there is a poor connection.
4. The built-in tungsten bulb will also illuminate if voltage is detected, providing additional visual confirmation and ambient light in dark areas.



Image 4.1: The circuit tester being used on a vehicle's electrical system, showing a green light indicating negative polarity.



Image 4.2: The circuit tester being used on a vehicle's electrical system, showing a red light indicating positive polarity.

## 4.2. Testing Fuses

1. With the alligator clip grounded, touch the probe to the metal test points on top of the fuse.
2. If both test points illuminate (red or green, depending on the circuit's polarity), the fuse is likely good.
3. If only one side illuminates, or neither side illuminates, the fuse is blown and needs replacement.

## 5. MAINTENANCE

- **Cleaning:** After each use, wipe the probe and the body of the tester with a clean, dry cloth to remove

any dirt, grease, or moisture. Do not use abrasive cleaners or solvents.

- **Storage:** Always replace the protective sleeve over the probe before storing. Store the tester in a dry, clean place, away from direct sunlight and extreme temperatures. Keep out of reach of children.
- **Wire Care:** Avoid excessive pulling or stretching of the coiled spring wire to prevent damage.

## 6. TROUBLESHOOTING

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- **Tester does not light up:**

- Check if the alligator clip has a good ground connection. Ensure it's attached to a clean, unpainted metal surface or the battery's negative terminal.
- Verify that the circuit being tested has voltage within the 6-24V DC range.
- Ensure the probe is making good contact with the test point.

- **Incorrect polarity indication:**

- Re-check the ground connection of the alligator clip. A poor ground can lead to inaccurate readings.

- **Tungsten bulb not illuminating:**

- If the dual-color LEDs work but the tungsten bulb does not, the bulb may be faulty. Contact customer support if within warranty.

## 7. SPECIFICATIONS

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Feature	Specification
Brand	WINAMOO
Operating Voltage Range	6V - 24V DC
Polarity Indication	Dual Color Light (Red for Positive, Green for Negative)
Additional Illumination	Built-in Tungsten Bulb
Probe Material	Stainless Steel
Cable Length (Extended)	Up to 96 inches (Spring Wire)
Body Material	High-quality ABS
Item Weight	0.12 Kilograms (approximately 4.16 ounces)
Package Dimensions	10.83 x 4.09 x 1.38 inches

## 8. WARRANTY AND SUPPORT

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WINAMOO products are manufactured to high-quality standards. For specific warranty information and customer support, please refer to the product packaging or contact WINAMOO customer service directly through their official channels. Keep your purchase receipt for warranty claims.

