

## JASTIND JTCVT-01B

# JASTIND Premium 3-48V DC Digital LCD Display Test Light

**Brand:** JASTIND

**Model:** JTCVT-01B

## INTRODUCTION

This instruction manual provides detailed guidance for the safe and effective use of your JASTIND Premium 3-48V DC Digital LCD Display Test Light. This tool is designed for accurately testing electrical circuits in various vehicles, including cars and trucks, within a 3-48V DC range. It features a digital LCD display for precise voltage readings and polarity indication, making it an essential tool for automotive diagnostics.

## SAFETY INFORMATION

- Always wear appropriate personal protective equipment, such as safety glasses, when working with electrical systems.
- Ensure the vehicle's ignition is off before connecting or disconnecting the test light, unless specific testing procedures require otherwise.
- Avoid contact with moving engine parts or hot surfaces.
- Do not use the test light on AC circuits or voltages outside the specified 3-48V DC range.
- Keep the test light clean and dry. Do not use it in wet conditions.
- Store the tool in a safe place, out of reach of children.

## PRODUCT FEATURES

- **Wide Testing Range:** Capable of testing DC voltages from 3V to 48V, suitable for various vehicle electrical circuits.
- **Voltage Polarity Testing:** Bidirectional testing with clear polarity indication.
- **Computer Safe:** Designed to draw minimal current, reducing the risk of damage to sensitive electronic circuits.
- **Backlit LCD Digital Display:** Provides clear and visible voltage readings with high accuracy ( $\pm 0.2V$ ), suitable for both day and night use.
- **Durable Construction:** Features a premium acetate fiber body for enhanced toughness and longevity.
- **Sharp Stainless Steel Probe:** Allows for effortless piercing of wires and access to tight, hard-to-reach areas. Includes an insulation protective rubber tip.
- **Extended PU Spring Wire:** A 140-inch long, flexible, heat-insulating, and oil-resistant coiled wire for extended reach and durability.
- **Large Alligator Clip:** Designed for easy, one-hand operation and secure connection.



Figure 1: Key components of the JASTIND Digital LCD Display Test Light, including the LCD display, heavy-duty body, sharp stainless steel probe, large alligator clip, and extended spring cord.

## PACKAGE CONTENTS

- 1 x JASTIND Premium 3-48V DC Digital LCD Display Test Light (Model JTCVT-01B)



Figure 2: The JASTIND Digital LCD Display Test Light as packaged, showing the main unit and coiled cable.

## SETUP

1. **Connect the Alligator Clip:** Securely attach the large alligator clip to a known good ground point (negative terminal of the battery) or a positive power source, depending on the circuit you intend to test. The test light is bidirectional, allowing flexibility in connection.
2. **Prepare the Probe:** Ensure the sharp stainless steel probe is clean and free from debris. The probe is designed for piercing wires or contacting terminals.

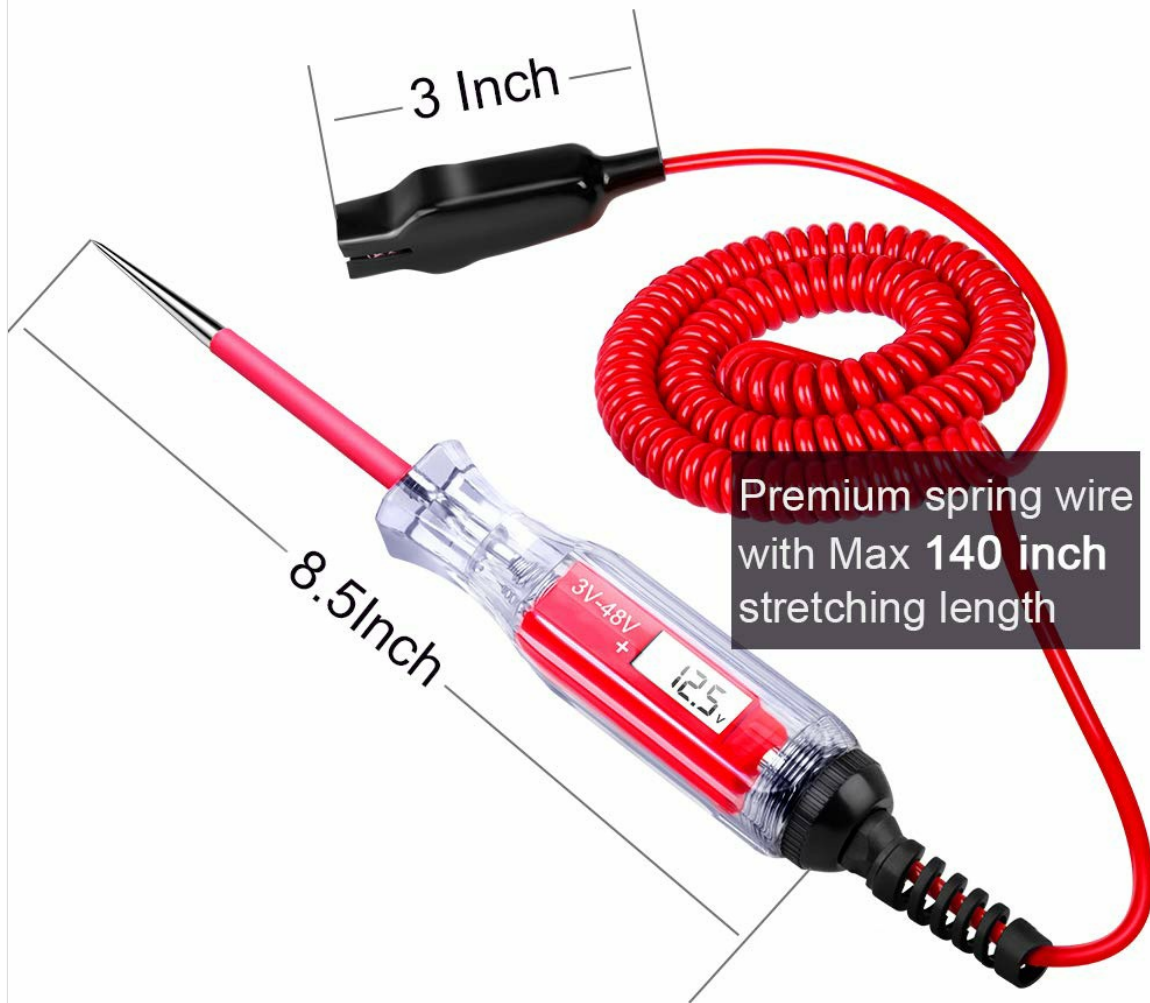


Figure 3: The test light showing its compact size and the extended reach of the coiled cable.

## OPERATING INSTRUCTIONS

### General Voltage Testing

1. Connect the alligator clip to a known good ground (e.g., vehicle chassis or battery negative terminal).
2. Carefully touch the sharp probe to the circuit point you wish to test.
3. The LCD display will show the voltage reading. If the circuit has voltage, the display will illuminate and show the measured DC voltage.

### Polarity Testing

The test light is bidirectional. If the alligator clip is connected to ground, the display will show positive voltage when the probe touches a positive circuit. If the alligator clip is connected to a positive power source, the display will show negative voltage when the probe touches a ground or negative circuit.

### Fuse and Signal Line Voltage Testing

1. Connect the alligator clip to a suitable ground.
2. Carefully touch the probe to each side of a fuse or to a signal line.
3. A voltage reading on both sides of a fuse indicates the fuse is likely good. No reading on one side suggests an open fuse.
4. For signal lines, the display will show the voltage present, helping to diagnose signal integrity.



Figure 4: Demonstrating the test light in use, checking voltage at a car battery terminal.

### Using the Backlight

The LCD display features a backlight, which automatically illuminates when a voltage is detected. This ensures clear readability of voltage values even in dimly lit environments.

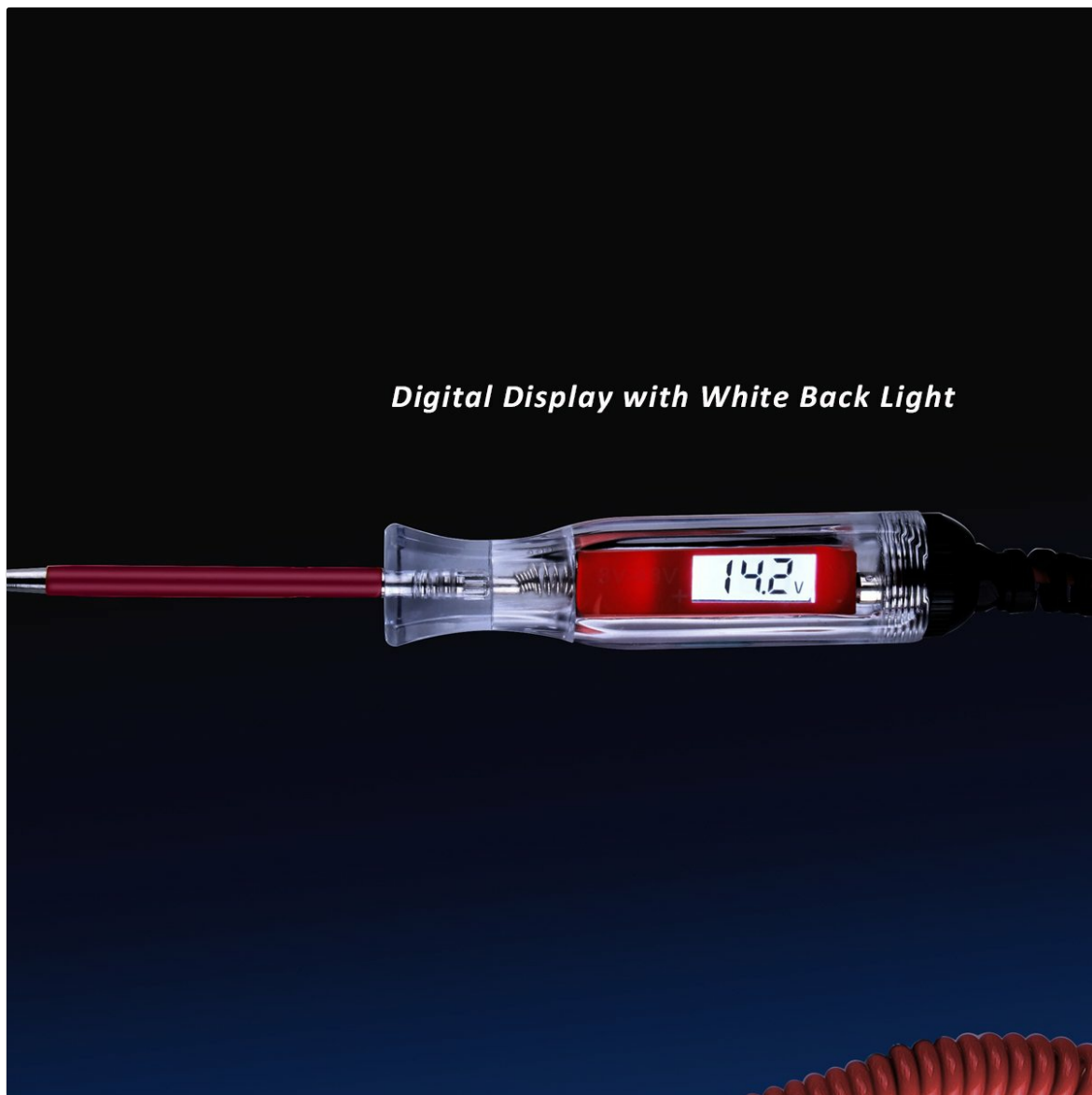


Figure 5: The backlit LCD display showing a clear voltage reading in low light conditions.

## Product Demonstration Video

For a visual guide on the features and operation of the JASTIND 3-48V Backlit Digital LCD Circuit Tester, please watch the video below.

Video 1: Official product demonstration of the JASTIND Heavy Duty 3-48V Backlit Digital LCD Circuit Tester, showcasing its display, measurement range, backlight functionality, stretchable test line, large alligator clip, and sharp stainless steel probe, along with examples of automotive battery and fuse testing.

## MAINTENANCE

- **Cleaning:** Wipe the test light body and probe with a clean, dry cloth after each use. Do not use abrasive cleaners or solvents.
- **Storage:** Store the test light in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the probe tip is protected to prevent damage.
- **Cable Care:** Avoid excessive stretching or sharp bends in the coiled cable to maintain its integrity and flexibility.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Display not lighting up or showing a reading	No voltage present in the circuit; poor connection; damaged internal components.	Verify the circuit has power. Ensure the alligator clip and probe have good contact. If issues persist, contact customer support.
Inaccurate voltage readings	Poor connection; interference; damaged internal components.	Re-establish connections. Test on a known good voltage source to verify accuracy. Avoid strong electromagnetic fields. If issues persist, contact customer support.

## SPECIFICATIONS

Specification	Value
Model Number	JTCVT-01B
Voltage Range	3-48V DC
Display Type	Digital LCD with Backlight
Probe Material	Sharp Stainless Steel
Body Material	Premium Acetate Fiber
Cable Length	Max 140 inches (Extended PU Spring Wire)
Item Weight	0.22 Kilograms (approx. 7.83 ounces)
Product Dimensions	13 x 4 x 1.5 inches

## WARRANTY AND SUPPORT

JASTIND is committed to providing high-quality products. This test light comes with a lifetime product quality guarantee and dedicated customer support. If you encounter any issues or have questions regarding your product, please contact JASTIND customer service for assistance.

For further information or support, please visit the official JASTIND store: [JASTIND Store](#)