

## OBDMONSTER BM550U

# OBDMONSTER BM550U 6V/12V/24V Lead-Acid Battery Tester with Built-in Printer Instruction Manual

Model: BM550U

## 1. PRODUCT OVERVIEW

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The OBDMONSTER BM550U is a professional automotive battery tester designed for comprehensive battery health diagnosis. It features an upgraded built-in thermal printer for immediate report generation, advanced measurement capabilities, and wide compatibility with various lead-acid battery types.

### Key Features:

- **Upgraded Built-in Thermal Printer:** Generates paper-based battery diagnosis reports instantly.
- **Advanced Diagnosis:** Measures internal resistance, voltage, State of Health (SOH), State of Charge (SOC), and Cold Cranking Amps (CCA).
- **Wide Compatibility:** Supports 6V, 12V, and 24V automotive batteries (100-2000CCA), including lead-acid, AGM flat, AGM, and gel batteries. *Not compatible with lithium batteries.*
- **User-friendly Interface:** Features a 1.8-inch color screen for clear data display and intuitive operation.
- **Industrial-grade Durability:** Equipped with high-quality safety copper clamps, reverse polarity protection, anti-spark function, and an ABS shell for robust performance in complex environments.
- **Real-time Waveform Monitoring:** Allows observation of live voltage output curves for detailed battery and alternator performance analysis.

## 2. SETUP GUIDE

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### Unboxing and Components

Upon opening the package, you will find the following items:

- 1 x OBDMONSTER BM550U Battery Tester
- 2 x Thermal Paper Rolls (57mm width x 30mm core diameter)
- 1 x User Manual
- 1 x Quick Guide



Image: The BM550U Battery Tester package contents, including the tester unit, thermal paper, and documentation.

## Connecting the Battery Tester

To begin testing, connect the BM550U to the vehicle's battery:

1. Connect the **red (+) clamp** to the positive terminal of the battery.
2. Connect the **black (-) clamp** to the negative terminal of the battery.

# Anti - Protection Design, more Security

Prompt will appear when the positive and negative power terminals are connected incorrectly, and automatically protect the switching power supply from damage.

R :	6.6mΩ
CCA :	385A
STD :	370A
VOL :	12.5V
SOH :	99%
SOC :	95%
Results :	Good

BM550 Ultra

SOH: 99 %

Good

R: 6.6mΩ CCA: 385  
STD: 370 U: 12.5V

BATTERY TESTER

OBDMONSTER®

Poor Contact Prompt

Polarity Reverse Protection

Image: Proper connection of the battery tester clamps to a car battery, highlighting reverse polarity protection. The tester features reverse polarity protection and anti-spark functions to ensure safe operation. If the clamps are connected incorrectly, a prompt will appear on the screen, and the system will automatically protect against damage.



Image: Detail of the copper-plated alligator clips, designed for superior electrical conductivity and secure attachment.

### 3. OPERATING INSTRUCTIONS

#### Performing a Battery Test

Once connected, the BM550U will power on. Use the navigation buttons to select the desired test mode.

Video: This video demonstrates the basic steps to perform a battery test using the OBDMONSTER BM550U, including connecting the clamps, navigating the menu, and printing results.

1. From the main menu, select '**BAT Test**'.
2. Choose the correct battery voltage: **6V**, **12V**, or **24V**.
3. Enter the **CCA (Cold Cranking Amps)** or **AH (Ampere-Hour)** value for your battery. The tester can auto-proportionally convert between these values.
4. Press '**OK**' to initiate the test. The results, including R (Resistance), CCA, STD (Standard Capacity), VOL (Voltage), SOH (State of Health), and SOC (State of Charge), will be displayed.
5. To print the results, press '**OK**' again when prompted.

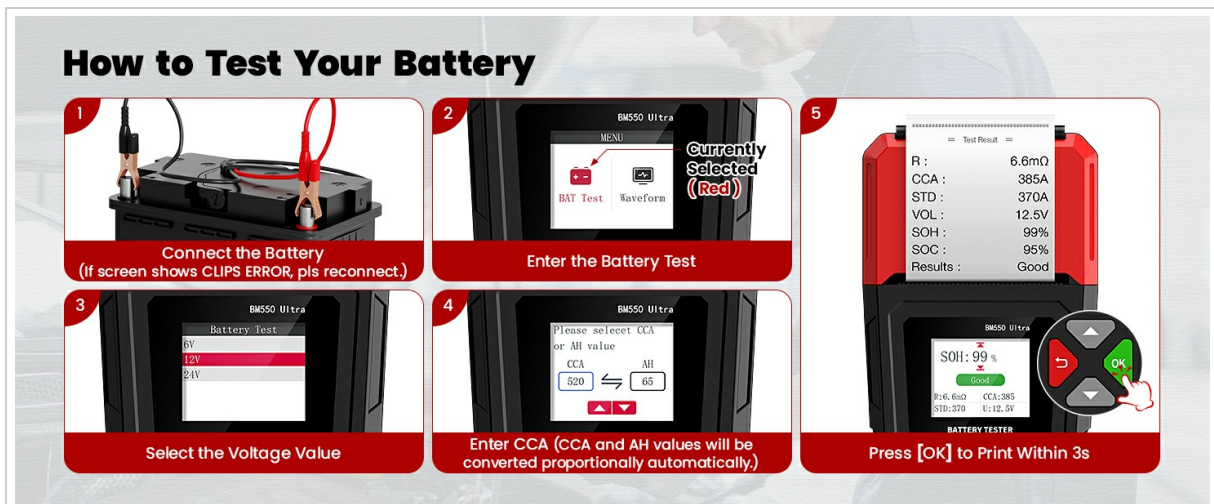


Image: Visual guide illustrating the process of connecting the battery, selecting test parameters, and printing the test report.

#### Waveform Monitoring

The BM550U offers a real-time waveform monitoring function to observe the battery's voltage output curve.

Video: This video demonstrates the waveform monitoring feature of the BM550U, showing live voltage data for battery and alternator analysis.

1. From the main menu, select '**Waveform**'.
2. The screen will display a live graph of the battery's voltage over time. This is useful for diagnosing

intermittent issues or observing the battery's behavior during cranking or charging.

## If you have any questions about the battery tester, please send message to us.

- 1 Go to your orders
- 2 Find the relevant order
- 3 Click get help with order (or Problem with order)
- 4 Select the reason for contacting the seller
- 5 Click Contact seller
- 6 Submit your message using the provided form

**100%**

NO QUESTION  
ASKED RETURN

**24**

MONTHS  
SERVICE

Image: The Waveform Monitoring function displays live voltage waveform data, allowing for in-depth analysis of battery starting capabilities and overall performance.

## 4. MAINTENANCE

### Thermal Paper Replacement

The BM550U uses standard thermal paper rolls for its printing function. To replace an empty roll:

1. Gently open the red printer cover at the top of the device.
2. Remove the empty paper core.
3. Insert a new thermal paper roll (57mm width x 30mm core diameter), ensuring the paper feeds from the bottom and the leading edge is straight.
4. Close the printer cover, making sure the paper is properly aligned.



Image: Dimensions of the thermal printing paper for easy replacement.

## 5. TROUBLESHOOTING

### Common Issues and Solutions

- **'CLIPS ERROR' Message:** If this message appears, ensure that the red and black battery clamps are securely attached to the correct positive (+) and negative (-) terminals of the battery, respectively. Reconnect if necessary.
- **Voltage Discrepancy:** If you observe a significant difference in voltage readings between the BM550U and another multimeter, the device can be calibrated.



Image: Instructions for calibrating the BM550U's voltage reading to ensure accuracy with other measurement tools. To calibrate the voltage: Press and hold the Back and Down buttons simultaneously to enter calibration mode. Adjust the displayed voltage value to match your multimeter's reading.

## 6. PRODUCT SPECIFICATIONS

Specification	Value
Brand	OBDMONSTER
Power Source	Battery Powered
Style	Tools
Color	BM550U
Item Weight	15.2 ounces
Min. Operating Voltage	6 Volts
Measurement Type	Ohmmeter, Voltmeter, Ammeter
Manufacturer	OBDMONSTER
Package Dimensions	9.25 x 4.72 x 2.13 inches
Item model number	BM550U

## 7. WARRANTY AND SUPPORT

### Warranty Information

The OBDMONSTER BM550U is backed by **24 months of service**. This ensures support and assistance for any manufacturing defects or operational issues encountered during this period.

### Customer Support

For any questions, concerns, or technical assistance, please follow these steps to contact customer support:

1. Go to your orders.
2. Find the relevant order for your BM550U Battery Tester.

3. Click 'Get help with order' or 'Problem with order'.
4. Select the reason for contacting the seller.
5. Click 'Contact seller'.
6. Submit your message using the provided form.

**6/12/24V**  
**BATTERY CAR TESTER**  
 > **100-2000 CCA** > **2 - 220 AH**

SOH: 99 % Good R: 6.6mΩ CCA: 595 STD: 610 U: 12.5V	SOH: 60 % Normal R: 6.6mΩ CCA: 365 STD: 610 U: 12.5V	SOH: 18 % Poor R: 6.6mΩ CCA: 110 STD: 610 U: 12.5V
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✓ >60% Good
! 30%~60% Normal
✗ <30% Poor

Image: Visual guide for contacting customer support through the order page.

The product also offers a **100% No Question Asked Return** policy, ensuring customer satisfaction.