

BUUBO 1005003652439142

BUUBO 12V/24V Car Battery Tester User Manual

Model: 1005003652439142

1. INTRODUCTION

Thank you for choosing the BUUBO 12V/24V Car Battery Tester. This digital battery analyzer is designed to accurately detect the status of various lead-acid starter batteries, including regular flooded, EFB, AGM tablet, AGM winding, GEL, and WET batteries. It provides essential diagnostic information such as State of Health (SOH), State of Charge (SOC), Cold Cranking Amps (CCA) value, and Internal Resistance (IR).

This manual provides detailed instructions for the safe and effective use of your battery tester. Please read it thoroughly before operation and keep it for future reference.

2. SAFETY INFORMATION

- Always wear appropriate eye protection and protective clothing when working with batteries.
- Ensure good ventilation in the work area to prevent the accumulation of explosive gases.
- Avoid sparks, flames, and smoking near batteries.
- Do not touch battery acid. If contact occurs, flush immediately with water and seek medical attention.
- Connect the red clamp to the positive (+) terminal and the black clamp to the negative (-) terminal. Reverse connection can damage the tester and the battery.
- Do not operate the tester if it appears damaged.
- Keep the device away from children.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x BUUBO Car Battery Tester
- 1 x User Manual (this document)

4. PRODUCT OVERVIEW

The BUUBO Car Battery Tester features a clear LCD display and intuitive buttons for easy operation. It is designed for quick and accurate battery diagnostics.



Figure 4.1: Front view of the BUUBO Car Battery Tester, showing the LCD screen and control buttons.



Figure 4.2: Close-up of the tester's display, indicating State of Health (SOH), Internal Resistance (IR), and Voltage (VOLT) readings.

Key Features:

- **LCD Digital Display:** Provides clear readings of battery status.
- **Multi-Protection:** Includes input overvoltage protection, reverse connection protection, and poor contact detection prompts for enhanced safety.
- **Wide Application:** Compatible with 12V/24V car lead-acid starter batteries (flooded, EFB, AGM, GEL, WET).
- **Comprehensive Testing:** Measures SOH, SOC, CCA Value, and IR.
- **Non-Damaging Test:** Utilizes low-frequency signal injection, eliminating the need for large load discharge tests that could harm the battery.

5. SETUP

The BUUBO Car Battery Tester is designed for direct connection to the vehicle's battery without removal.

Connecting the Tester:

1. Ensure the vehicle's ignition is off and all accessories are turned off.
2. Connect the red positive (+) clamp of the tester to the positive (+) terminal of the battery.
3. Connect the black negative (-) clamp of the tester to the negative (-) terminal of the battery.
4. The tester will power on automatically once connected correctly.

It can detect and display battery capacity SOC and health status SOH, which are displayed as a percentage.

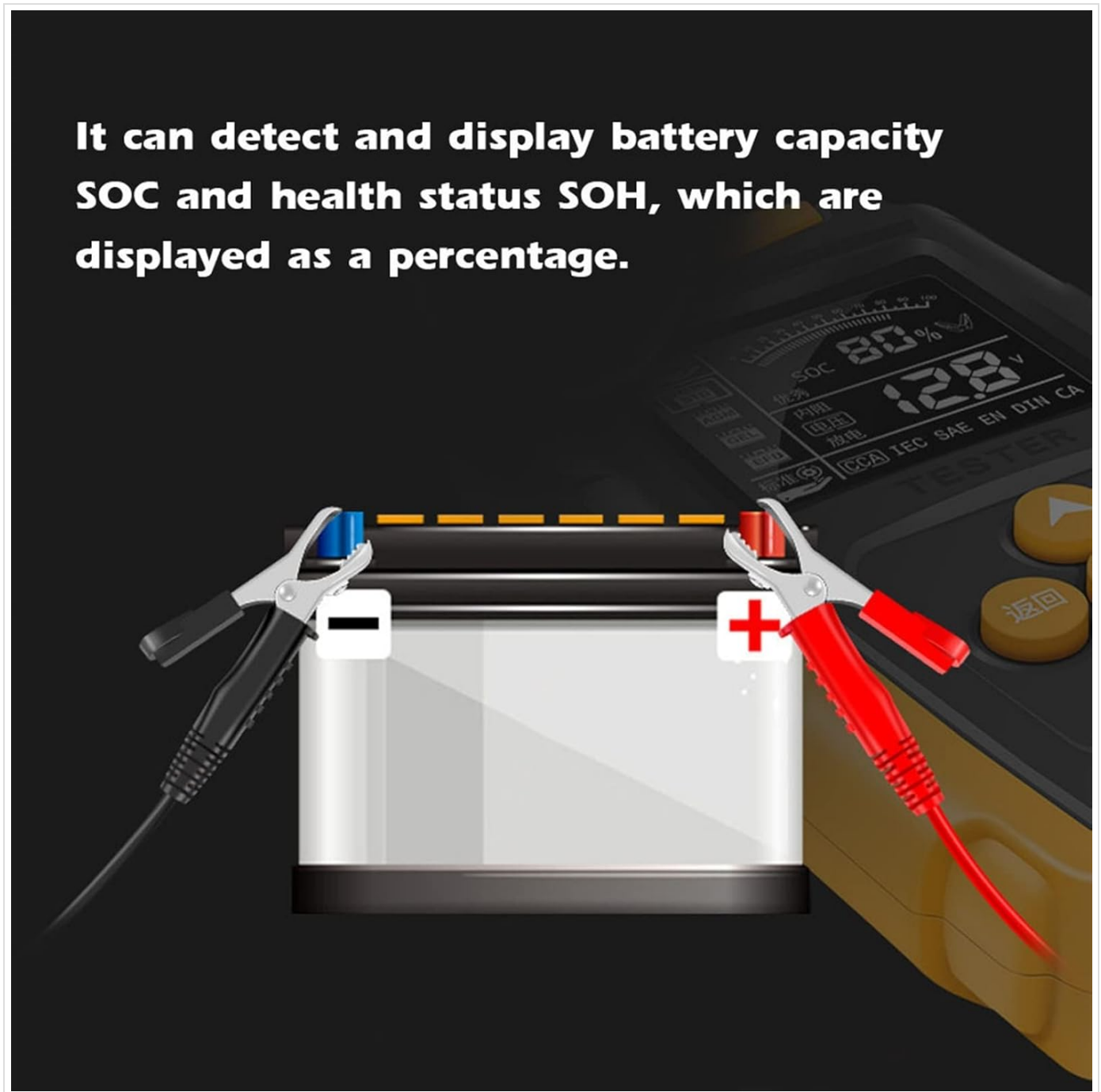


Figure 5.1: Proper connection of the tester's clamps to a car battery's positive (red) and negative (black) terminals.

6. OPERATING INSTRUCTIONS

Once connected, the tester will display the battery voltage status and discharge capacity. Use the navigation buttons to cycle through different test results and settings.



Figure 6.1: A hand operating the BUUBO Car Battery Tester, demonstrating the use of up/down buttons to switch display information.

Performing a Battery Test:

1. After connecting the tester, the main screen will display initial battery information.
2. Use the **UP** and **DOWN** arrow buttons to navigate through the menu options and select the desired test type (e.g., Battery Test, Cranking Test, Charging Test).
3. Press the **ENTER** button to confirm your selection.
4. Follow the on-screen prompts. For a standard battery test, the device will automatically analyze and display results such as SOH (State of Health), SOC (State of Charge), CCA value, and IR (Internal Resistance).
5. The SOH and SOC values are displayed as percentages, indicating the battery's overall health and current charge level.



Wide application, it is suitable for car lead-acid starter batteries, including regular flooded, EFB, AGM tablet battery, AGM winding battery, GEL battery, WET, etc.

Figure 6.2: The tester connected to a battery, illustrating its compatibility with various battery types including regular flooded, EFB, AGM, GEL, and WET.

Understanding Test Results:

- **SOH (State of Health):** Indicates the overall condition of the battery relative to a new battery, displayed as a percentage.
- **SOC (State of Charge):** Shows the current charge level of the battery, displayed as a percentage.
- **CCA Value:** Cold Cranking Amps, a measure of the battery's ability to start an engine in cold temperatures.
- **IR (Internal Resistance):** A lower IR generally indicates a healthier battery.

7. MAINTENANCE

- Keep the tester clean and dry. Wipe with a soft, damp cloth if necessary. Do not use abrasive cleaners or solvents.
- Store the tester in a cool, dry place away from direct sunlight and extreme temperatures.
- Inspect the clamps and cables regularly for any signs of damage or wear. Replace if necessary.

- Ensure the clamps are clean and free of corrosion for optimal contact during testing.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tester does not power on.	Incorrect connection; battery completely dead.	Ensure clamps are correctly connected (red to +, black to -). Check battery voltage with a voltmeter; if below 8V, the tester may not power on.
Inaccurate readings.	Poor connection; dirty battery terminals; incorrect battery type selected.	Clean battery terminals. Ensure clamps are securely attached. Verify the correct battery type is selected in the tester's settings.
"Poor Contact" error message.	Loose or corroded clamp connection.	Re-secure the clamps firmly to the battery terminals. Clean any corrosion from the terminals and clamps.

9. SPECIFICATIONS

Parameter	Value
Applicable Battery Voltage	12V/24V
Voltage Measure Range	8-30V
Test Range	3AH-200AH
Test Results Displayed	SOH, SOC, CCA Value, IR, etc.
Test Standards	CCA, SAE, DIN, IEC, EN, CA
Working Temperature	-40°C to 60°C (-40°F to 140°F)
Item Size	150 x 90 x 35 mm (5.9 x 3.5 x 1.4 in)
Item Weight	325 g (11.5 oz)
Material	ABS
Model Number	1005003652439142

10. WARRANTY AND SUPPORT

BUUBO products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official BUUBO website.

Please retain your proof of purchase for any warranty claims.

