

## SP Tools SP61062

# SP TOOLS SP61062 Automotive Battery Tester User Manual

Model: SP61062

## 1. INTRODUCTION

The SP TOOLS SP61062 Automotive Battery Tester is a professional diagnostic tool designed for comprehensive testing of various automotive batteries. This manual provides detailed instructions for the safe and effective operation, maintenance, and troubleshooting of your device.

This tester is suitable for testing all automotive, motorcycle, boat, truck, and truck starter batteries ranging from 9V to 15V. It supports multiple battery types including normal lead-acid, AGM flat plate, AGM spiral, and gel batteries. It is specifically designed for 12V battery systems.

## 2. SAFETY INFORMATION

Always observe the following safety precautions when operating the SP61062 Battery Tester:

- Ensure proper ventilation when working with batteries, as they can produce explosive gases.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Avoid contact with battery acid. If contact occurs, flush immediately with water and seek medical attention.
- Do not connect the tester to a battery with damaged terminals or casing.
- Ensure the tester's clamps are securely connected to the correct battery terminals (red to positive, black to negative) before initiating any test.
- Keep the device dry and away from extreme temperatures.

## 3. PRODUCT FEATURES

The SP61062 Battery Tester offers a range of advanced features for accurate battery diagnostics:

- **Wide Voltage Range:** Operates from 9V to 15V, suitable for various 12V battery types.
- **Comprehensive Battery Types:** Compatible with normal lead-acid, AGM flat plate, AGM spiral, and gel batteries.
- **Internal Resistance Measurement:** Detects defective cells by measuring internal resistance.

- **Multiple Test Standards:** Provides test results based on CA, CCA, BCI, MCA, JIS, SAE, GB, DIN, and IEC standards.
- **Low Voltage Testing:** Accurately tests low voltage batteries without requiring full charge.
- **Detailed Battery Health Display:** Shows cold start-up capacity (CCA) and battery health percentage.
- **Vehicle System Testing:** Includes tests for vehicle starting system (start time, voltage, condition) and vehicle charging system (load voltage, discharge voltage, ripple status).
- **Measuring Range:** Cold Start-up AMP (CCA) 100-2000.
- **User-Friendly Interface:** Features a large, easy-to-read LCD screen.

## 4. PRODUCT OVERVIEW



*Image 1: The SP TOOLS SP61062 Automotive Battery Tester. The device features an orange and black casing with a central LCD screen and four navigation buttons (ENTER, EXIT, Up, Down). Attached are red and black battery clamps for connection to a vehicle battery.*

The SP61062 Battery Tester consists of the main unit with an LCD display and control buttons, and integrated test leads with positive (red) and negative (black) battery clamps. The display provides clear readings of test results and

navigation options.

## 5. SETUP

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1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush.
2. **Connect the Tester:**
  - Connect the **red** positive (+) clamp to the positive (+) terminal of the battery.
  - Connect the **black** negative (-) clamp to the negative (-) terminal of the battery.

Ensure a secure connection. The tester will power on automatically once connected.

3. **Initial Display:** The LCD screen will display the main menu or initial battery voltage.

## 6. OPERATING INSTRUCTIONS

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Follow these steps to perform various tests using the SP61062 Battery Tester:

### 6.1. Battery Test

1. From the main menu, select "Battery Test" using the navigation buttons and press "ENTER".
2. Select the battery type (e.g., Regular Flooded, AGM Flat Plate, AGM Spiral, Gel) and press "ENTER".
3. Select the battery standard (e.g., CCA, JIS, DIN, IEC) and press "ENTER".
4. Enter the rated CCA value of the battery (usually found on the battery label) and press "ENTER".
5. The tester will perform the analysis and display the results, including battery voltage, measured CCA, battery health percentage, and internal resistance.
6. Interpret the results: "Good Battery", "Good & Recharge", "Charge & Retest", "Replace Battery", or "Bad Cell".

### 6.2. Cranking System Test

This test evaluates the vehicle's starting system.

1. From the main menu, select "Cranking Test" and press "ENTER".
2. Follow the on-screen prompts to start the vehicle engine.
3. The tester will analyze the cranking voltage and time.
4. Results will indicate the cranking voltage, cranking time, and the overall condition of the starting system (e.g., "Normal", "Low Voltage", "High Voltage").

### 6.3. Charging System Test

This test assesses the vehicle's alternator and charging circuit.

1. From the main menu, select "Charging Test" and press "ENTER".
2. Follow the on-screen prompts to rev the engine to specified RPMs (e.g., 2000-2500 RPM) for a few seconds.
3. The tester will measure the charging voltage, ripple voltage, and load voltage.
4. Results will indicate the charging voltage, ripple, and the overall status of the charging system (e.g., "Normal", "Low Output", "High Output", "Diode Ripple").

## 7. MAINTENANCE

To ensure the longevity and accuracy of your SP61062 Battery Tester, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth after each use. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tester in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Regularly inspect the test leads and clamps for any signs of damage, fraying, or corrosion. Replace if necessary.
- **Battery Terminals:** Keep battery terminals clean to ensure good electrical contact during testing.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tester does not power on.	Poor connection to battery terminals. Battery voltage too low.	Ensure clamps are securely connected. Check battery voltage; if below 9V, charge battery before testing.
Inaccurate test results.	Corroded battery terminals. Incorrect battery type/standard selected.	Clean battery terminals. Verify correct battery type and standard settings.
"Connection Error" message.	Loose or incorrect clamp connection.	Recheck positive and negative clamp connections. Ensure they are firm and on the correct terminals.

## 9. SPECIFICATIONS

- **Model:** SP61062
- **Voltage Range:** 9V - 15V DC
- **Application:** 12V automotive, motorcycle, boat, truck starter batteries
- **Supported Battery Types:** Normal Lead-Acid, AGM Flat Plate, AGM Spiral, Gel
- **Measuring Range (CCA):** 100 - 2000 CCA
- **Test Standards:** CA, CCA, BCI, MCA, JIS, SAE, GB, DIN, IEC
- **Product Dimensions:** 9.84 x 7.87 x 3.15 inches (25 x 20 x 8 cm)
- **Item Weight:** 0.25 Kilograms (8.82 ounces)
- **Power Source:** Hand-powered (via battery connection)

## 10. WARRANTY AND SUPPORT

For warranty information or technical support regarding your SP TOOLS SP61062 Automotive Battery Tester, please refer to the official SP Tools website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

**Manufacturer:** SP TOOLS

**Brand:** SP Tools

For further assistance, visit the [SP Tools Store on Amazon](#).

