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› Clore Automotive BA6 Battery and System Tester User Manual

Clore Automotive BA6

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MODEL: BA6

Brand: Clore Automotive

Introduction

The Clore Automotive BA6 Battery and System Tester is a versatile diagnostic tool designed for testing 12-volt batteries and vehicle charging systems. It provides quick and accurate assessments, delivering both numerical and pass/fail results. This manual outlines the proper procedures for setting up, operating, maintaining, and troubleshooting your BA6 tester to ensure optimal performance and longevity.

Setup and Initial Connection

- 1. Prepare the Battery:** Ensure the vehicle's ignition is off and all accessories are disconnected. The battery terminals should be clean and free of corrosion for accurate readings.
- 2. Connect the Tester:** Attach the red positive (+) clamp to the positive battery terminal and the black negative (-) clamp to the negative battery terminal. The tester will power on automatically.
- 3. Observe Initial Display:** Upon connection, the LCD display will show the current battery voltage.



Figure 1: The BA6 Battery and System Tester with its connection clamps.

The BA6 tester is equipped with reverse polarity protection to prevent damage from incorrect connections. However, always ensure correct polarity for proper operation.



Figure 2: The BA6 tester connected to a vehicle battery for testing.

Operating Instructions

The BA6 tester is designed for ease of use with a clear LCD display and intuitive controls. It tests 12-volt batteries and charging systems within an operating range of 4.5-16V and a testing capacity of 100-1200 CCA.

Battery Type Selection

The tester supports six distinct battery types. It is crucial to select the correct type for accurate results:

- **Conventional Flooded Acid (SLI):** Standard automotive batteries.
- **AGM Flat Plate:** Absorbed Glass Mat batteries with flat plates.
- **AGM Spiral Wound:** Absorbed Glass Mat batteries with spiral-wound cells.
- **Start-Stop AGM:** AGM batteries specifically designed for start-stop vehicle applications.
- **Start-Stop Enhanced Flooded:** Enhanced flooded batteries for start-stop systems.
- **Gel Cell:** Gel electrolyte batteries.

Use the arrow buttons (< and >) to navigate through the battery type options on the display. Press the **ENTER** button to confirm your selection.

Performing a Battery Test

1. After selecting the battery type, the tester will prompt for the battery's Cold Cranking Amps (CCA) rating. This rating is typically found on the battery label.
2. Use the arrow buttons to adjust the CCA value to match your battery's rating.
3. Press **ENTER** to initiate the battery test. The tester will display the measured CCA, voltage, and a pass/fail indication.



Figure 3: The BA6 display showing battery type (SLI), CCA, voltage, and an "OK" status.

Performing a System Test (Cranking and Charging)

The BA6 can also assess the vehicle's starting and charging systems.

1. Follow the on-screen prompts after the battery test to proceed with system testing.
2. For the cranking test, you will be instructed to start the vehicle. The tester will measure the voltage drop during cranking.
3. For the charging system test, the engine should be running. The tester will evaluate the alternator's output and voltage regulation.
4. Results will be displayed as numerical values and a pass/fail status for each component.

Maintenance and Safety

- **Cleaning:** Wipe the tester with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the BA6 in a dry, cool place away from direct sunlight and extreme temperatures. Keep the clamps clean and free of debris.
- **Safety Features:** The BA6 includes reverse polarity protection to prevent damage if clamps are connected incorrectly. It also features over-voltage protection for systems exceeding 15V.
- **General Safety:** Always wear appropriate eye protection when working with batteries. Avoid contact with battery acid.

Troubleshooting

- **Tester Does Not Power On:**

- Ensure clamps are securely connected to the battery terminals.
 - Verify the battery has at least 4.5V. The tester draws power from the battery being tested.
 - Check for corrosion on battery terminals or tester clamps that might impede connection.
- **Inaccurate Readings:**
 - Confirm the correct battery type and CCA rating have been entered.
 - Ensure battery terminals are clean.
 - Test a fully charged battery for comparison. A partially charged battery will yield lower CCA results.
 - **Display Flickering:**
 - This can sometimes occur. Ensure a stable connection to the battery. If flickering persists and affects readability, contact support.

Specifications

Feature	Detail
Model	BA6
Operating Voltage Range	4.5 - 16V DC
Testing Capacity	100 - 1200 CCA
Supported Battery Types	Conventional Flooded Acid, AGM Flat Plate, AGM Spiral Wound, Start-Stop AGM, Start-Stop Enhanced Flooded, Gel Cell
Measurement Type	Ammeter (for CCA), Voltmeter
Display	LCD
Dimensions (L x W x H)	3.5 x 1.2 x 5.2 inches
Item Weight	16 ounces (1 pound)
Power Source	Hand Powered (draws power from battery being tested)

Warranty Information

The Clore Automotive BA6 Battery and System Tester comes with a**1-year limited warranty**. Please refer to the warranty card included with your product for full terms and conditions. This warranty covers defects in materials and workmanship under normal use.

Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Clore Automotive customer support. Visit the official Clore Automotive website for contact information or to access additional resources. You can also visit the [Clore Automotive Store on Amazon](#) for more product information.

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