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MR CARTOOL B200

MR CARTOOL B200 Automotive Battery Load Tester User Manual

Model: B200
Brand: MR CARTOOL

1. INTRODUCTION

The MR CARTOOL B200 Automotive Battery Load Tester is designed to accurately assess the condition of 12V and 24V lead-acid starter batteries, as well as the vehicle’s cranking and charging systems. This device provides essential information to help users understand battery health and prevent unexpected failures.



Image 1.1: MR CARTOOL B200 Automotive Battery Load Tester.

2. KEY FEATURES

- **Battery Test:** Provides accurate readings for battery condition, including State of Health (SOH), State of Charge (SOC), voltage, current (CCA), and resistance.
- **Cranking Test:** Evaluates the starting system's performance.
- **Charging System Test:** Assesses the vehicle's charging system.
- **Maximum Load Test:** Determines battery performance under load conditions.
- **Wide Compatibility:** Supports 12V and 24V lead-acid starter batteries, including new lithium batteries, for trucks, motorcycles, boats, cars, and SUVs.
- **Multiple Test Standards:** Compatible with CCA, DIN, EN, IEC, SAE, JIS, GB standards.
- **Multi-Language Support:** Offers 12 language options for user convenience.
- **Safety Features:** Includes polar reversal protection, input surge protection, and loose cable detection.

- **User-Friendly Interface:** Features a large color LCD and intuitive navigation.

3. PACKAGE CONTENTS

Upon opening the package, verify that all items are present and in good condition:

- MR CARTOOL B200 Main Unit
- COM Connecting Line & Clamps (Red and Black)
- User Manual



Image 3.1: Contents of the MR CARTOOL B200 package, including the main unit, connecting cables with clamps, and user manual.

4. SETUP

Follow these steps to prepare your MR CARTOOL B200 for use:

1. **Connect the Cables:** Attach the COM connecting line to the designated port on the top of the B200 main unit. Ensure a secure connection.
2. **Connect to Battery:** Connect the red clamp to the positive (+) terminal of the vehicle battery and the black clamp to the negative (-) terminal. The device will power on automatically.
3. **Initial Screen:** The device will display the main menu. Use the arrow buttons to navigate and the ENTER button to confirm selections.



Image 4.1: Labeled components of the B200 tester, showing the LCD display, arrow buttons, exit button, enter button, and COM connecting line.

Your browser does not support the video tag.

Video 4.1: Demonstration of connecting the MR CARTOOL B200 to a vehicle battery and navigating the menu for testing.

5. OPERATING INSTRUCTIONS

The B200 offers several testing modes to diagnose your battery and vehicle's electrical system.

5.1. Battery Test

This test provides a comprehensive analysis of the battery's current state.

1. From the main menu, select 'Battery'.
2. Choose the battery species (e.g., Regular Flooded, GEL, AGM Flat Plate).
3. Enter the rated value (e.g., CCA, AH) as specified on your battery.
4. The tester will perform the analysis and display results including SOC, SOH, voltage, current, and resistance.

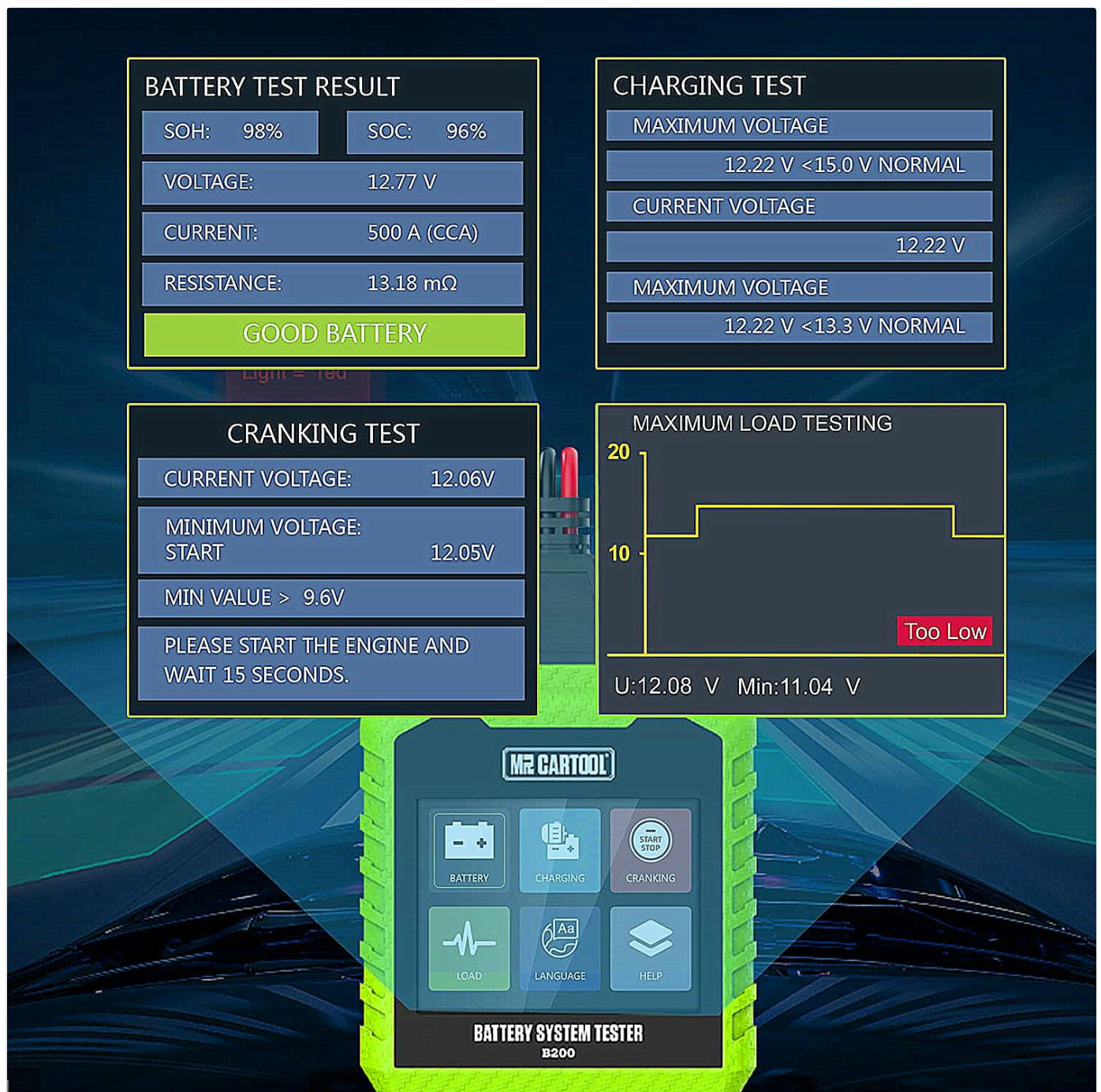


Image 5.1: Screen displaying battery test results, including SOH, SOC, voltage, current (CCA), and resistance, indicating a 'GOOD BATTERY'.

5.2. Cranking Test

This test evaluates the vehicle's starting capability.

1. From the main menu, select 'Cranking'.
2. Follow the on-screen prompts to start the engine.
3. The tester will measure the minimum cranking voltage and display the result.



Image 5.2: Screen displaying cranking test instructions and results, showing current and minimum voltage values.

5.3. Charging System Test

This test checks the alternator and charging circuit.

1. From the main menu, select 'Charging'.
2. Start the engine and wait for 15 seconds as prompted.
3. The tester will analyze the charging system and display voltage fluctuations.



Image 5.3: Screen displaying charging system test results, showing maximum, current, and minimum voltage readings.

5.4. Maximum Load Test

This test assesses the battery's ability to maintain voltage under significant electrical load.

1. From the main menu, select 'Load'.
2. Follow the on-screen instructions to turn on electrical appliances (e.g., headlights, air conditioning) to create a load.
3. The tester will monitor the battery's voltage performance under load.



Image 5.4: Screen displaying maximum load testing, showing voltage over time and indicating if the voltage drops too low.

6. SPECIFICATIONS

Specification	Value
Product Dimensions	3.35 x 0.91 x 6.42 inches
Item Weight	15.2 ounces
Model Number	B200
Brand	MR CARTOOL
Power Source	Battery Powered (from vehicle battery)
Supported Battery Types	12V/24V Lead-Acid (Flooded, GEL, AGM Flat Plate, AGM Spiral, EFB)
Test Standards	CCA, DIN, EN, IEC, SAE, JIS, GB
CCA Range	30-1700 CCA
Color	Black (with green casing)

BATTERY STANDARD SPECIFICATION

○ Measure Standard	○ Test Range
CCA: Cold Cranking Amps	30~1700
DIN: German Auto Industry Committee	30~1000
EN: European Automobile Industry Association	30~1700
IEC: Internal Electrical Technical Commission	30~1000
SAE: Society of Automotive Engineers	30~1700
JIS: Japan Industrial Standard	26A17~245H52
GB: China National Standard	4~220AH

Image 6.1: Table detailing supported battery measure standards and their corresponding test ranges.

SUPPORT MULTIPLE MODELS

It supports 12V starting lead-acid battery, new starting lithium battery and 12V / 24V automotive system



Image 6.2: Illustration showing the B200's compatibility with various vehicle types, including trucks, boats, motorcycles, cars, and SUVs.

7. TROUBLESHOOTING

If you encounter issues with your MR CARTOOL B200, consider the following common solutions:

- **Device Not Powering On:** Ensure the red and black clamps are securely connected to the correct battery terminals. The device draws power directly from the battery. If the battery is completely dead (below 6V), the tester may not power on.
- **Inaccurate Readings:** Verify that the correct battery type and rated CCA/AH values are entered into the tester. Ensure battery terminals are clean and connections are solid.
- **Error Messages:** Refer to the specific error code or message displayed on the screen and consult the detailed user manual for corresponding solutions.
- **Loose Cable Detection:** If the device indicates loose cables, re-secure the clamps to the battery terminals.

8. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your MR CARTOOL B200:

- **Cleaning:** Wipe the device with a soft, dry cloth after each use. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the tester in a dry, cool place away from direct sunlight and extreme temperatures. Keep the clamps clean and free of corrosion.
- **Cable Inspection:** Regularly inspect the connecting cables and clamps for any signs of wear, damage, or corrosion. Replace if necessary.

9. WARRANTY AND SUPPORT

MR CARTOOL provides comprehensive support for its products:

- **Warranty:** The MR CARTOOL B200 comes with a 24-month warranty from the date of purchase.
- **Customer Service:** For any questions, suggestions, or technical assistance, please contact MR CARTOOL customer service. Support is available 7 days a week, 24 hours a day.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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