

## Autel BT508

# Autel MaxiBAS BT508 Car Battery Tester Instruction Manual

Model: BT508

## 1. INTRODUCTION

The Autel MaxiBAS BT508 is a battery and electrical system analysis tool designed for testing 6V and 12V automotive batteries. It utilizes Adaptive Conductance technology to provide accurate battery health assessments, including cranking ability and generator charging conditions. This manual provides instructions for the proper setup, operation, and maintenance of your BT508 device.



Figure 1: Autel MaxiBAS BT508 device with VCI module and battery clamps.

## 2. SAFETY INFORMATION

Always observe the following safety precautions when using the Autel MaxiBAS BT508:

- Wear appropriate eye protection and protective clothing.
- Ensure the vehicle is in a well-ventilated area.
- Avoid sparks and open flames near the battery.
- Do not touch hot engine components.
- Connect the clamps correctly: red to positive (+), black to negative (-). Incorrect connection can damage the device or vehicle.
- Keep the device dry and clean.

## 3. PRODUCT OVERVIEW

### 3.1 Key Features

- Tests 6V and 12V batteries (100-2000 CCA).

- Compatible with Flooded, AGM, AGM Spiral, EFB, and GEL battery types.
- Supports CCA, CA, SAE, EN, IEC, DIN, JIS, and MCA standards.
- Adaptive Conductance Technology for accurate testing of low or discharged batteries.
- Performs In-Vehicle and Out-of-Vehicle tests.
- Includes Cranking Ability Analyzer and Generator Test functions.
- Wireless Bluetooth (BT) connectivity to a mobile device (smartphone/tablet) for operation.
- Integrated VCI V200P for enhanced diagnostic capabilities (compared to BT506).

### 3.2 Components

The Autel MaxiBAS BT508 package typically includes:

- MaxiBAS BT508 Main Unit
- BT VCI 200 Module
- Battery Clamps
- User Manual (this document)

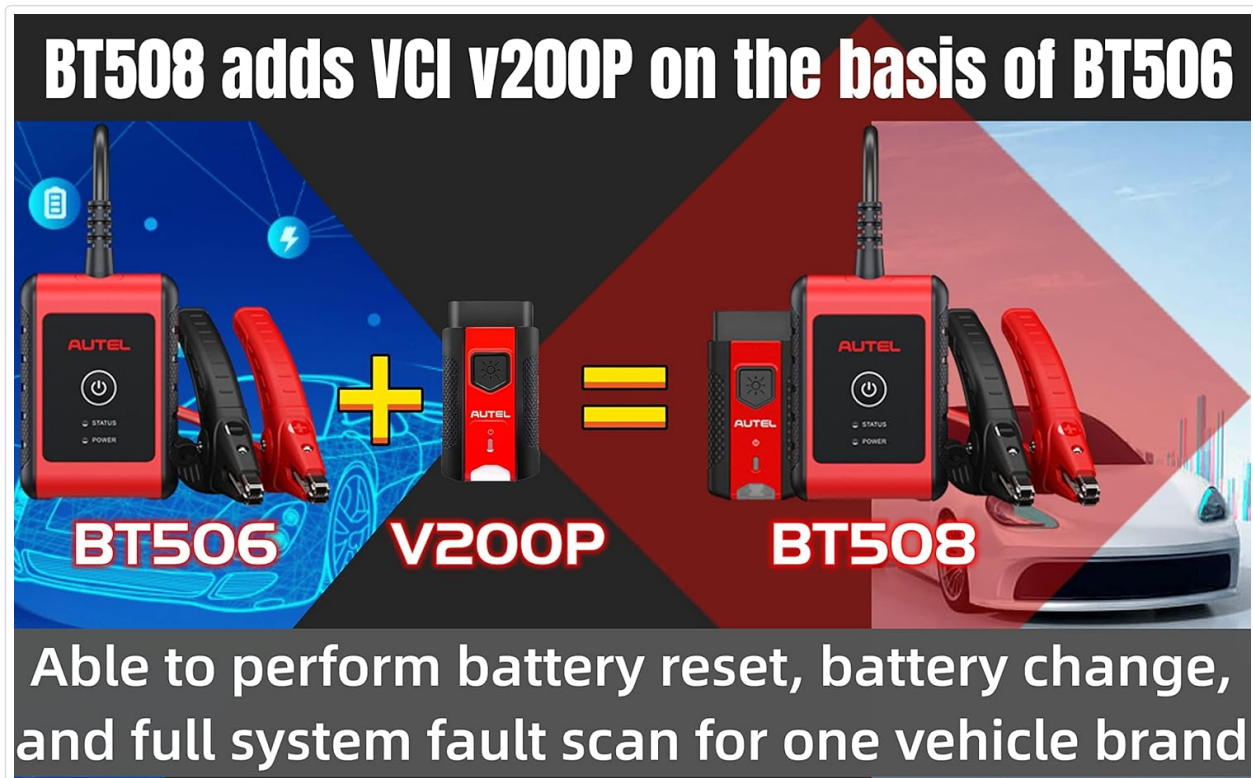


Figure 2: The BT508 integrates the VCI V200P module for additional functionality.

## 4. SETUP

### 4.1 Mobile Application Installation

1. Search for "Battery Test" in the Google Play Store (for Android devices) or the Apple App Store (for iOS devices).
2. Download and install the application on your smartphone or tablet.



Figure 3: Initial setup steps for the BT508 mobile application.

## 4.2 Device Pairing

1. Ensure Bluetooth is enabled on your mobile device.
2. Power on the BT508 device.
3. Open the "Battery Test" application.
4. Scan the QR code located on the back of the BT508 device to initiate Bluetooth pairing.
5. Follow any on-screen prompts to complete the pairing process.

## 5. OPERATING INSTRUCTIONS

The BT508 supports both in-vehicle and out-of-vehicle battery testing. Ensure proper clamp connection: red to positive (+), black to negative (-).

### 5.1 In-Vehicle Test

This test assesses the battery, starter, and generator while installed in the vehicle.

1. Connect the BT508 clamps to the vehicle battery terminals.
2. Open the "Battery Test" app on your paired mobile device.
3. Select the "In-Vehicle Test" option.
4. The application will automatically populate vehicle and battery information. Confirm or manually enter details if necessary.
5. Follow the on-screen instructions to perform the battery test, starter test, and generator test.
6. Review the displayed results and maintenance tips.



Figure 4: Example of an in-vehicle diagnostic procedure.

## 5.2 Out-of-Vehicle Test

This test assesses the health of a standalone battery.

1. Connect the BT508 clamps to the standalone battery terminals.
2. Open the "Battery Test" app on your paired mobile device.
3. Select the "Out-of-Vehicle Test" option.
4. Manually enter the battery type and specifications (e.g., CCA rating).
5. Follow the on-screen instructions to perform the battery test.
6. Review the displayed results and maintenance tips.



Figure 5: The BT508 is compatible with multiple battery types.

### 5.3 Cranking Ability Analyzer

This function evaluates the starter's performance.

1. Perform an In-Vehicle Test as described above.
2. When prompted, start the vehicle engine.
3. The app will display Cranking Results, including Starting Voltage and Starting Time.

### 5.4 Generator Test

This function assesses the vehicle's charging system.

1. Perform an In-Vehicle Test as described above.
2. When prompted, run the engine at specified RPMs.
3. The app will display Generator Test results, including Charging condition, Output Voltage, and Ripple.

## 6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a dry, cool place away from direct sunlight.
- **Software Updates:** The Autel MaxiBAS BT508 receives lifetime free software updates. Regularly check the BMS Manager (or equivalent section in the app) to download the latest firmware. This ensures optimal performance and compatibility.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on.	No power from battery.	Ensure clamps are securely connected to a charged battery. Check battery voltage.
Bluetooth pairing fails.	Bluetooth disabled on mobile device; device out of range; incorrect QR code scan.	Enable Bluetooth, ensure devices are close, rescan QR code, restart both devices.
Inaccurate test results.	Poor clamp connection; incorrect battery type/CCA entered; outdated software.	Verify clamp connection, confirm battery parameters, update device software.
App not responding.	Software glitch; mobile device issues.	Close and restart the app. Restart your mobile device. Ensure app is updated.

## 8. SPECIFICATIONS





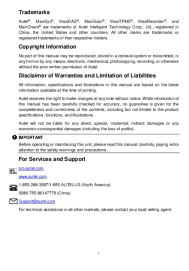
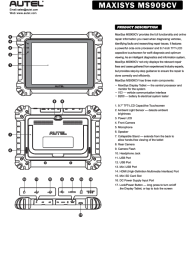
Feature	Detail
Product Dimensions	3 x 1 x 4 inches
Item Weight	11.2 ounces
Power Source	Battery Powered (via vehicle battery)
Battery Compatibility	6V and 12V (100-2000 CCA)
Battery Types	Flooded, AGM, AGM Spiral, EFB, GEL
Test Standards	CCA, CA, SAE, EN, IEC, DIN, JIS, MCA
Connectivity	Bluetooth (to mobile app)
Operating System Compatibility	Android, iOS

## 9. WARRANTY AND SUPPORT

The Autel MaxiBAS BT508 comes with a 1-year quality warranty from the date of purchase.

**Software Updates:** Enjoy lifetime free software updates for your device. Regularly check the application for available updates to ensure your device has the latest features and performance enhancements.

**Technical Support:** For any issues or questions regarding the product, please contact Autel customer support. You may reach them via email at [mbdh2022@outlook.com](mailto:mbdh2022@outlook.com).

	<p><a href="#">Autel MaxiBAS BT608 Quick Start Guide</a></p> <p>A quick start guide for the Autel MaxiBAS BT608, covering tool registration, software download, VCI pairing, and printing via Wi-Fi.</p>
	<p><a href="#">MaxiBAS BT506 Battery &amp; Electrical System Tester User Manual   Autel</a></p> <p>Comprehensive user manual for the Autel MaxiBAS BT506 Battery &amp; Electrical System Tester. Covers setup, operation, safety, in-vehicle/out-vehicle tests, maintenance, and troubleshooting for automotive diagnostics.</p>
	<p><a href="#">Autel MaxiCOM MK900-BT User Manual</a></p> <p>User manual for the Autel MaxiCOM MK900-BT, a professional automotive diagnostic tool. This guide covers device usage, safety information, diagnostics, service functions, data management, settings, and support.</p>
	<p><a href="#">AUTEL MaxiBAS BT608 Quickstart Guide: Registration, Software, and Setup</a></p> <p>This quickstart guide provides essential steps for setting up and using the AUTEL MaxiBAS BT608, including tool registration, software downloads, VCI pairing, and Wi-Fi printing.</p>
	<p><a href="#">Autel MaxiCOM MK808BT User Manual</a></p> <p>Comprehensive user manual for the Autel MaxiCOM MK808BT automotive diagnostic tool, covering setup, diagnostics, service functions, and maintenance.</p>
	<p><a href="#">Autel MaxiSys MS909CV Quick Start Guide</a></p> <p>A comprehensive guide to the Autel MaxiSys MS909CV, covering its product description, components like the MaxiFlash VCI and MaxiBAS B200, and instructions for establishing vehicle communication, inspecting the battery, and connecting the multimeter.</p>