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Acclope BT60 Pro

Acclope BT60 Pro Car Battery Tester User Manual

Model: BT60 Pro

1. INTRODUCTION

The Acclope BT60 Pro is a professional automotive battery tester designed to accurately assess the health and performance of various 6V, 12V, and 24V batteries. This device supports multiple battery types, including lead-acid, AGM, GEL, EFB, and lithium batteries, making it suitable for a wide range of vehicles and applications. It provides comprehensive diagnostics for battery State of Health (SOH), State of Charge (SOC), voltage, resistance, and Cold Cranking Amps (CCA), as well as testing the charging and cranking systems.

This manual provides detailed instructions for setting up, operating, and maintaining your BT60 Pro battery tester to ensure accurate and reliable results.

2. WHAT'S IN THE BOX

Upon opening the package, please verify that all the following items are included:

- 1 x Acclope BT60 Pro Battery Tester
- 1 x User Manual

3. PRODUCT FEATURES

The Acclope BT60 Pro offers a range of features designed for efficient and accurate battery diagnostics:

- **Wide Battery Compatibility:** Supports 6V, 12V, and 24V batteries, including lead-acid, AGM, GEL, EFB, and lithium types.
- **Comprehensive Diagnostics:** Tests State of Health (SOH), State of Charge (SOC), voltage, resistance, and CCA.
- **High Accuracy:** Advanced chip technology ensures 99.8% accuracy for reliable results.
- **Cloud Printing and Sharing:** Generate and share test reports via QR code scanning, accessible on

smartphones.

- **Specialized 6V Testing Mode:** Dedicated mode for precise diagnostics of 6V motorcycle batteries and small devices.
- **Intuitive User Interface:** Features a 3.2-inch HD screen and a clear menu system for ease of use.
- **Durable Design:** Shock-resistant ABS casing, anti-slip grip, and long cables for use in various environments.
- **Enhanced Safety:** Equipped with wide-mouth clamps and an LED light, with built-in reverse polarity protection.
- **Global Support:** Supports 12 languages and battery ranges from 100CCA to 3000CCA.
- **Memory Function:** Stores recent test results for tracking.
- **Extreme Weather Testing:** Performs reliably in both cold and hot conditions.



Image: The Acclope BT60 Pro device displaying its main menu and key features such as cloud print, 100-3000 CCA range, 99.8% accuracy, resistance test, battery test, waveform, and battery system test.

4. SETUP AND INITIAL CONNECTION

4.1 Connecting the Tester

1. Ensure the vehicle's ignition is off and all accessories are disconnected.
2. Connect the red clamp of the BT60 Pro to the positive (+) terminal of the battery.
3. Connect the black clamp of the BT60 Pro to the negative (-) terminal of the battery.
4. The tester will power on automatically as it draws power directly from the battery.

Important: The BT60 Pro features reverse polarity protection. Incorrect connections will prevent operation, safeguarding both the battery and the tester.

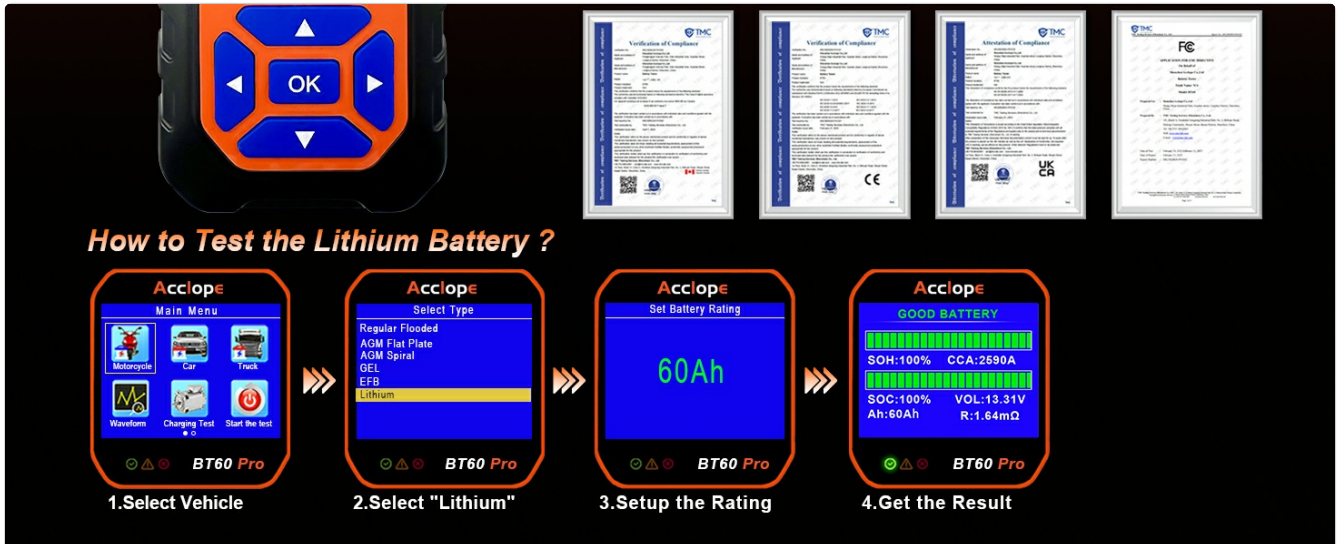


Image: Illustration demonstrating the correct connection of the red clamp to the positive terminal and the black clamp to the negative terminal, highlighting reverse polarity protection.

4.2 Language Selection

To change the display language:

1. From the Main Menu, navigate to "Tool Setup" using the arrow keys and press **OK**.
2. Select "Language" from the Tool Setup menu and press **OK**.
3. Choose your desired language from the list (e.g., English, Spanish, German) and press **OK** to confirm.



Image: The BT60 Pro display showing the language selection menu with various languages available, including English, Spanish, German, and others.

5. OPERATING INSTRUCTIONS

5.1 Battery Test

This test assesses the overall health of your battery.

1. From the Main Menu, select the appropriate vehicle model (Motorcycle, Car, or Truck) and press **OK**.
2. Select the battery type (e.g., Regular Flooded, AGM Flat Plate, AGM Spiral, GEL, EFB, Lithium) and press **OK**.
3. Choose the measurement standard (e.g., CCA, IEC, EN, DIN, JIS) and press **OK**.
4. Enter the battery's rated CCA (Cold Cranking Amps) or Ah (Ampere-hour) value as specified on the battery label and press **OK**.
5. The tester will display the test results, including SOH, SOC, voltage, resistance, and CCA value.

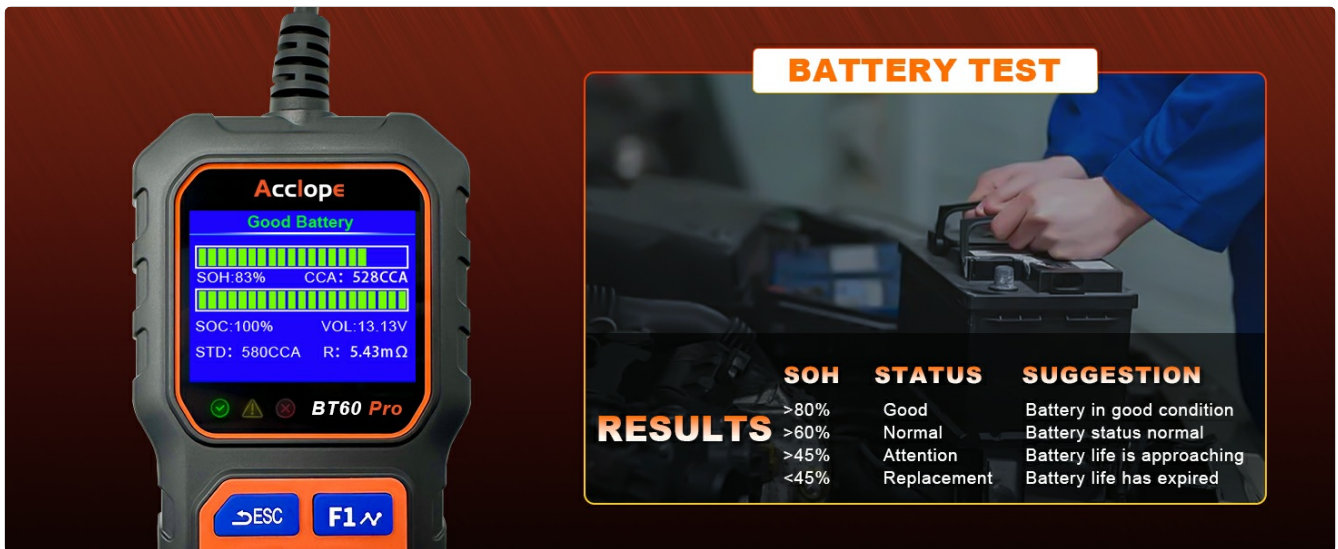


Image: A step-by-step visual guide on how to perform a battery test, from selecting the vehicle type to viewing the final battery health results.

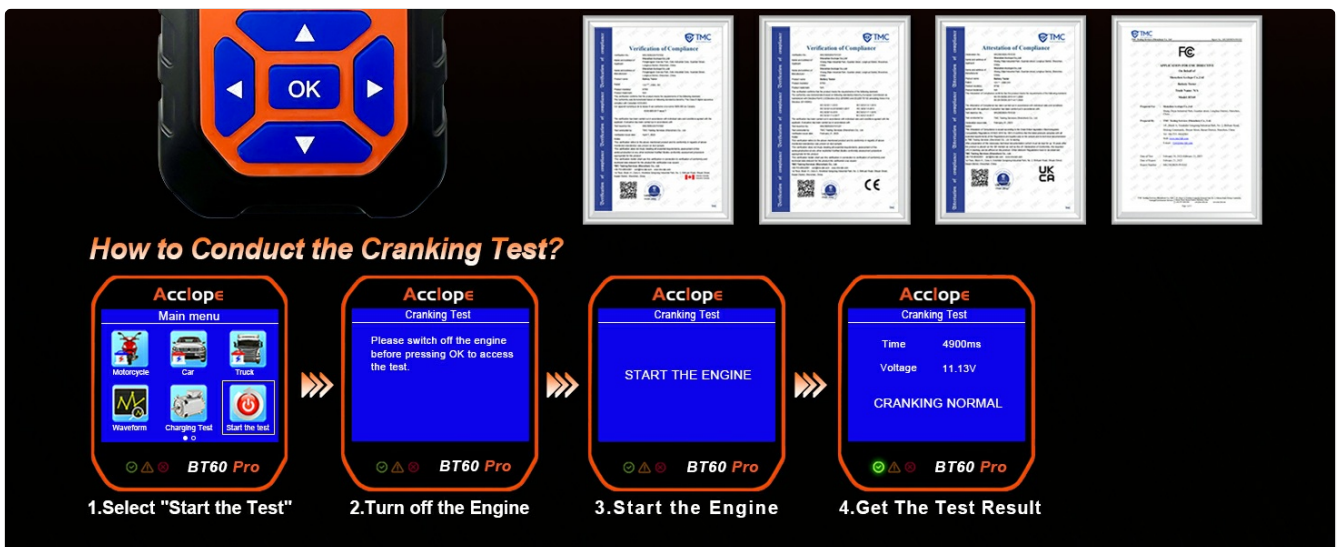


Image: The BT60 Pro display showing the menu for selecting battery types, including Regular Flooded, AGM Flat Plate, AGM Spiral, EFB, GEL, and Lithium.

5.2 Charging System Test

This test evaluates the vehicle's charging system, including the alternator.

1. From the Main Menu, select "Charging Test" and press **OK**.
2. Follow the on-screen prompts for the Realtime Ripple Test.
3. Start the vehicle's engine and increase the RPM to approximately 2500 RPM, holding it for about 10 seconds, then press **OK**.
4. The tester will display the charging system results, including loaded voltage, unloaded voltage, and ripple voltage, indicating if charging is normal.



Image: A visual guide detailing the steps to perform a charging system test, including real-time ripple test and RPM increase, leading to the final charging status.

5.3 Cranking System Test

This test analyzes the vehicle's cranking (starter) system performance.

1. From the Main Menu, select "Start the test" (Cranking Test) and press **OK**.
2. Ensure the engine is off and follow the on-screen instructions.
3. Start the engine as prompted by the tester.
4. The tester will display the cranking test results, including cranking time and voltage, indicating the health status of the cranking system.



Image: A step-by-step visual guide on how to perform a cranking test, from initiating the test to starting the engine and viewing the cranking system's health status.

5.4 Waveform Analysis

The BT60 Pro can display real-time voltage waveforms and cranking waveforms for detailed analysis.

- From the Main Menu, select "Waveform" and press **OK**.
- Choose between "Real time Waveform" or "Cranking Waveform" to view graphical representations of voltage over time.

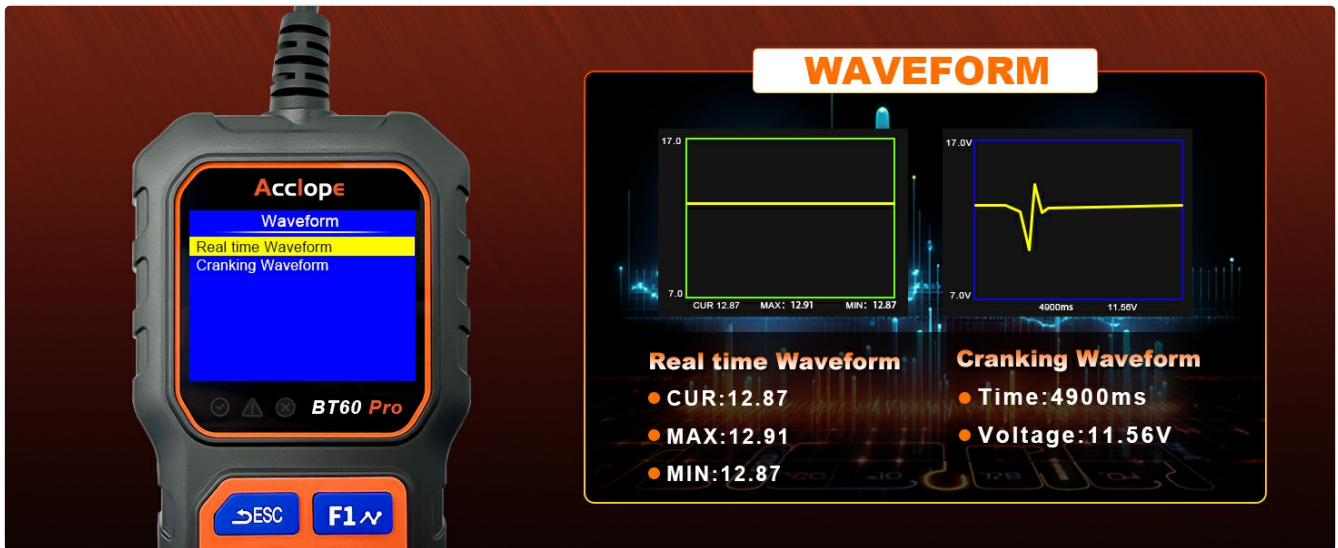


Image: The BT60 Pro screen showing options for waveform analysis, with examples of real-time and cranking voltage waveforms displayed graphically.

5.5 Cloud Printing and Result Sharing

The BT60 Pro allows for easy sharing and printing of test results via a QR code.

1. After completing a test, navigate to the "Cloud Print" option in the menu.
2. A QR code will be displayed on the tester's screen.
3. Scan the QR code with your smartphone's camera.
4. Your smartphone browser will open a webpage displaying the detailed test report. You can then save, print, or share this report as needed.

Example Cloud Print URL: <https://obd2tool.acclope.com/tj?t=/1234/0042/0060/06966/056/000/03/01/09/01/01/b0>



Image: The BT60 Pro displaying a QR code for cloud printing, with a smartphone scanning the code to view the test report online.

6. SUPPORTED BATTERY TYPES AND MEASUREMENT STANDARDS

The BT60 Pro is compatible with a wide array of battery types and testing standards:

6.1 Supported Battery Types

- Regular Flooded
- AGM Flat Plate
- AGM Spiral
- GEL
- EFB
- Lithium

6.2 Measurement Standards and Ranges

Standard	Range
CCA	100-3000 CCA
IEC	100-1400A
EN	100-2000A
CA	100-2000A
BCI	100-2000A
MCA	100-2000A
SAE	100-2000A
DIN	100-1400A
JIS	26A17-245H52
Ah	2-120Ah

How to Test Your Battery?

- 1. Select Vehicle Model:** The screen shows options for Motorcycle, Car, and Truck.
- 2. Select Battery:** The screen lists battery types: Regular Flooded, AGM Flat Plate, AGM Spiral, GEL, EFB, and Lithium.
- 3. Select Standard:** The screen lists measurement standards: CCA, IEC, EN, DIN, CA, BCI, MCA, and SAE.
- 4. Set Rating:** The screen displays a set rating of 580CCA.
- 5. Get Test Result:** The screen shows a 'Good Battery' result with SOH: 90%, CCA: 553CCA, SOC: 100%, VOL: 13.01V, STE: 580CA, and R: 5.32mΩ.

Image: A table on the BT60 Pro screen listing various battery measurement standards (CCA, IEC, EN, etc.) and their corresponding testing ranges.

7. SAFETY FEATURES

The Acclope BT60 Pro is designed with user safety in mind:

- **Reverse Polarity Protection:** Prevents damage to the tester and battery if clamps are connected incorrectly.
- **Wide-Mouth Clamps:** Designed for secure and stable connection to battery terminals.
- **LED Light:** Assists in low-light conditions for safer connections.
- **Overheating and Short Circuit Prevention:** Internal mechanisms protect against common electrical hazards during testing.

8. MAINTENANCE

To ensure the longevity and optimal performance of your BT60 Pro battery tester:

- **Cleaning:** Wipe the device with a soft, dry cloth after each use. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the tester in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Care:** Inspect the cables and clamps regularly for any signs of wear or damage. Do not use the device if cables are frayed or clamps are broken.

9. TROUBLESHOOTING

If you encounter issues with your BT60 Pro, consider the following common solutions:

- **Tester does not power on:**
 - Ensure clamps are securely connected to the correct battery terminals (red to positive, black to negative).
 - Verify the battery has sufficient charge to power the tester (minimum voltage required).
- **Inaccurate test results:**
 - Confirm that the correct battery type and CCA/Ah rating have been entered into the tester, matching the battery's specifications.
 - Ensure battery terminals and tester clamps are clean and free of corrosion for good electrical contact.
 - Make sure the battery is fully charged before conducting a test for most accurate results.
- **Difficulty with Cranking/Charging Test:**
 - Follow the on-screen prompts precisely. For the charging test, ensure RPM is maintained as instructed.
 - If working alone, it may be challenging to operate the vehicle and tester simultaneously. Consider having assistance for these tests.

10. SPECIFICATIONS

Feature	Detail
Model	BT60 Pro
Brand	Acclope
Supported Battery Voltages	6V, 12V, 24V
Supported Battery Types	Lead-Acid, AGM (Flat Plate, Spiral), GEL, EFB, Lithium
CCA Range	100-3000 CCA
Accuracy	99.8%
Display	3.2-inch HD Color Screen
Operating System	Linux
Item Weight	9.5 ounces
Product Dimensions (L x W x H)	2.55 x 0.94 x 5.7 inches
Safety Rating	CE, FCC, ROHS, UKCA
Languages Supported	12 (English, Spanish, German, Russian, Dutch, Finnish, Polish, Portuguese, Italian, French, Turkish, Korean)

11. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your Acclope BT60 Pro battery tester, please contact Acclope customer service directly. Refer to the product packaging or the official Acclope website for the most current contact details.

