AUTOOL BT760

AUTOOL BT760 12V/24V Battery System Tester with Thermal Printer User Manual

Comprehensive instructions for setup, operation, maintenance, and troubleshooting.

1. PRODUCT OVERVIEW

The AUTOOL BT760 is an advanced 12V/24V automotive battery system tester designed for comprehensive diagnostics of vehicle batteries, cranking systems, and charging systems. It features a built-in thermal printer for instant test reports and supports a wide range of battery types and testing standards.

Figure 1: AUTOOL BT760 Battery System Tester

Key Features:

- **Multi-functionality:** Capable of testing 12V and 24V starting and charging systems. Quickly assesses cold cranking current, internal resistance, battery life, and overall battery condition.

- **Extensive Battery Compatibility:** Supports various automotive lead-acid battery types including Regular-Flooded, AGM Flat Plate, AGM Spiral, GEL, and EFB batteries. Compatible with global battery standards such as CCA, JIS, DIN, IEC, EN, SAE, and GB.

- **Integrated Thermal Printer:** Features a built-in thermal printer for immediate printouts of test results, facilitating record-keeping and customer communication.

- **Maximum Load Test:** Measures the battery's capacity to handle maximum electrical loads, ensuring reliable performance under demanding conditions.

- **Safety and Convenience:** Constructed with an insulated ABS shell to prevent current leaks and enhance durability. Designed for ease of use and portability, supporting 12 different languages for a broad user base.

2. SETUP

Before operating the AUTOOL BT760, ensure proper setup to guarantee accurate and safe testing.

2.1 Connecting the Device to the Battery

1. Ensure the vehicle's ignition is off and all accessories are turned off.

2. Connect the red positive (+) clamp of the tester to the positive (+) terminal of the battery.

3. Connect the black negative (-) clamp of the tester to the negative (-) terminal of the battery.

4. The tester will automatically power on once connected.

Figure 2: Correct connection of battery clamps, demonstrating polarity reverse protection.

2.2 Inserting Thermal Paper

1. Open the printer cover located at the top of the device.

2. Insert a roll of standard thermal printer paper, ensuring the paper feeds smoothly from the bottom.

3. Close the printer cover securely.

Figure 3: Thermal paper installation and example printout.

2.3 Initial Power-On and Language Selection

1. Upon successful connection, the device will display the AUTOOL logo.

2. Press any key to proceed to the main menu.

3. Navigate to the 'Languages' option using the arrow keys and press 'OK' to select your preferred language. The device supports 12 languages including English, French, Spanish, German, Italian, Russian, Portuguese, Turkish, Thai, Japanese, Traditional Chinese, and Simplified Chinese.

Figure 4: Language selection screen on the AUTOOL BT760.

3. OPERATING INSTRUCTIONS

The AUTOOL BT760 offers various testing modes for comprehensive battery system analysis.

Figure 5: Main menu icons for various test functions.

3.1 Battery Test

1. From the main menu, select 'Battery Test' and press 'OK'.

2. Select the battery type (e.g., Regular Flooded, GEL, AGM Flat Plate, AGM Spiral, EFB) that matches the battery being tested.

3. Choose the appropriate testing standard (e.g., CCA, JIS, DIN, IEC, EN, SAE, GB).

4. Enter the rated CCA (Cold Cranking Amps) value of the battery as indicated on the battery label.

5. Press 'OK' to start the test. The device will display the battery voltage, current, resistance, energy, life percentage, and a result (e.g., 'Good', 'Charge', 'Replace').

Figure 6: Overview of the four main test functions.

3.2 Cranking Test

1. Select 'Cranking Test' from the main menu and press 'OK'.

2. Follow the on-screen prompts to start the vehicle's engine.

3. The tester will analyze the cranking voltage and time, providing a result on the starter system's performance.

3.3 Charging Test

1. Select 'Charging Test' from the main menu and press 'OK'.

2. Follow the on-screen instructions, which typically involve running the engine at specific RPMs.

3. The device will evaluate the alternator's output voltage and ripple, indicating the health of the charging system.

3.4 Load Test

1. Select 'Load Test' from the main menu and press 'OK'.

2. This test measures the battery's ability to maintain voltage under a simulated load.

3. The tester will provide results on the battery's performance under load conditions.

3.5 Printing Test Results

After any test, you will have the option to print the results. Simply select 'Print' on the screen and press 'OK'. The built-in thermal printer will generate a detailed report.

Video 1: Demonstration of the AUTOOL BT760's testing capabilities and printing function.

4. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your AUTOOL BT760.

- **Cleaning:** Wipe the device with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Thermal Paper Replacement:** When the paper roll is depleted, replace it with a new standard thermal paper roll as described in Section 2.2.
- **Battery Clamps:** Inspect the battery clamps regularly for corrosion or damage. Clean them with a wire brush if necessary to ensure good electrical contact.
- **Storage:** Store the device in its provided storage bag in a cool, dry place away from direct sunlight and extreme temperatures.
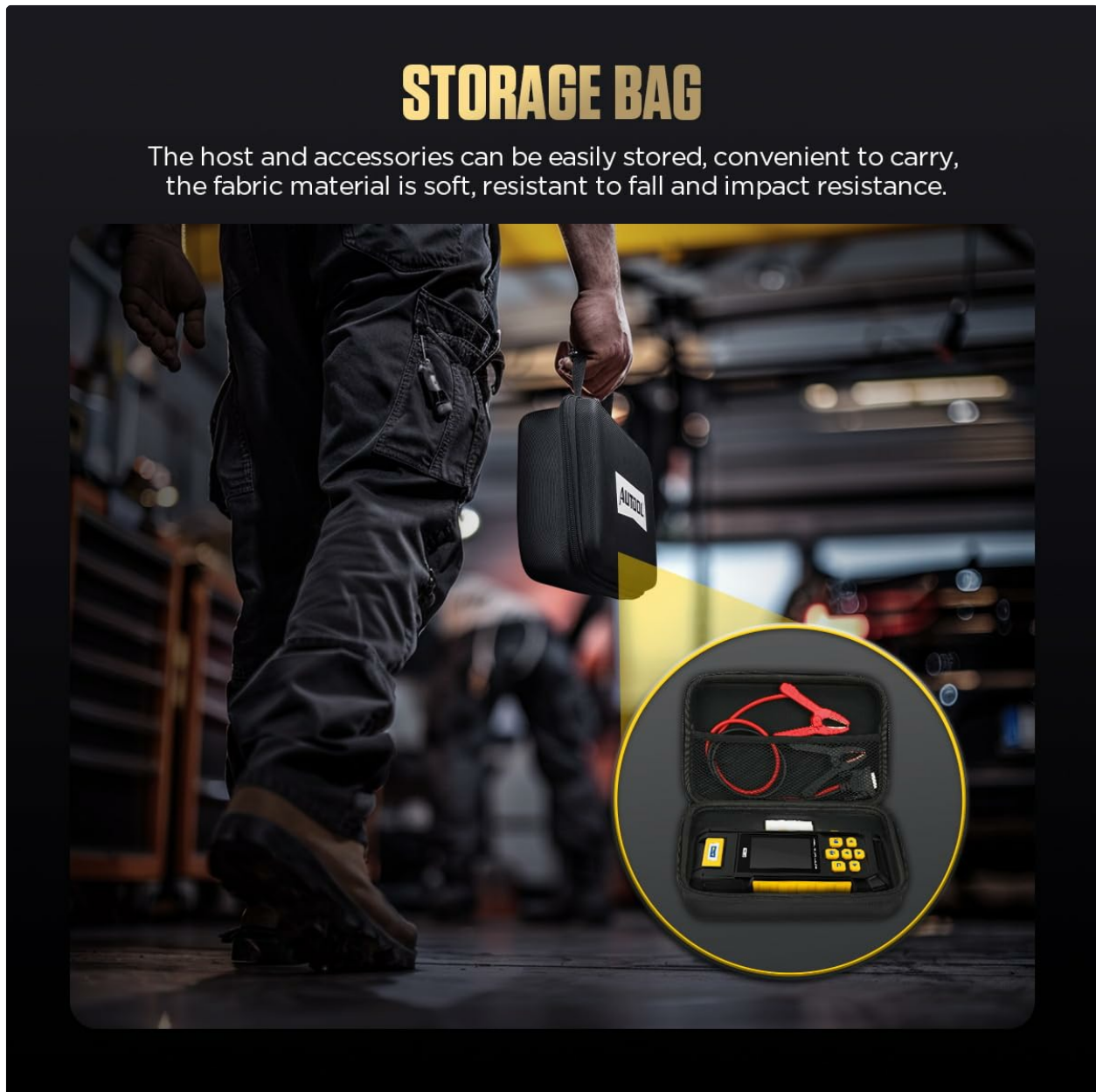

Figure 7: The AUTOOL BT760 and accessories stored in the protective bag.

5. TROUBLESHOOTING

If you encounter issues with your AUTOOL BT760, refer to the following common problems and solutions.

- **Device does not power on:** Ensure the battery clamps are securely connected to the correct terminals of a 12V or 24V battery. Check for any loose connections or damaged cables.
- **Inaccurate test results:** Verify that the battery type and rated CCA value entered into the device match

the battery being tested. Ensure clean and secure connections to the battery terminals.

- **Printer not working or paper jam:** Check if the thermal paper is correctly installed and not jammed. Ensure the printer cover is closed properly. Replace the paper roll if it is empty.

- **'Replace' result on Battery Test:** This indicates that the battery's health is significantly degraded and it should be replaced. This is a diagnostic result, not a device malfunction.

6. SPECIFICATIONS

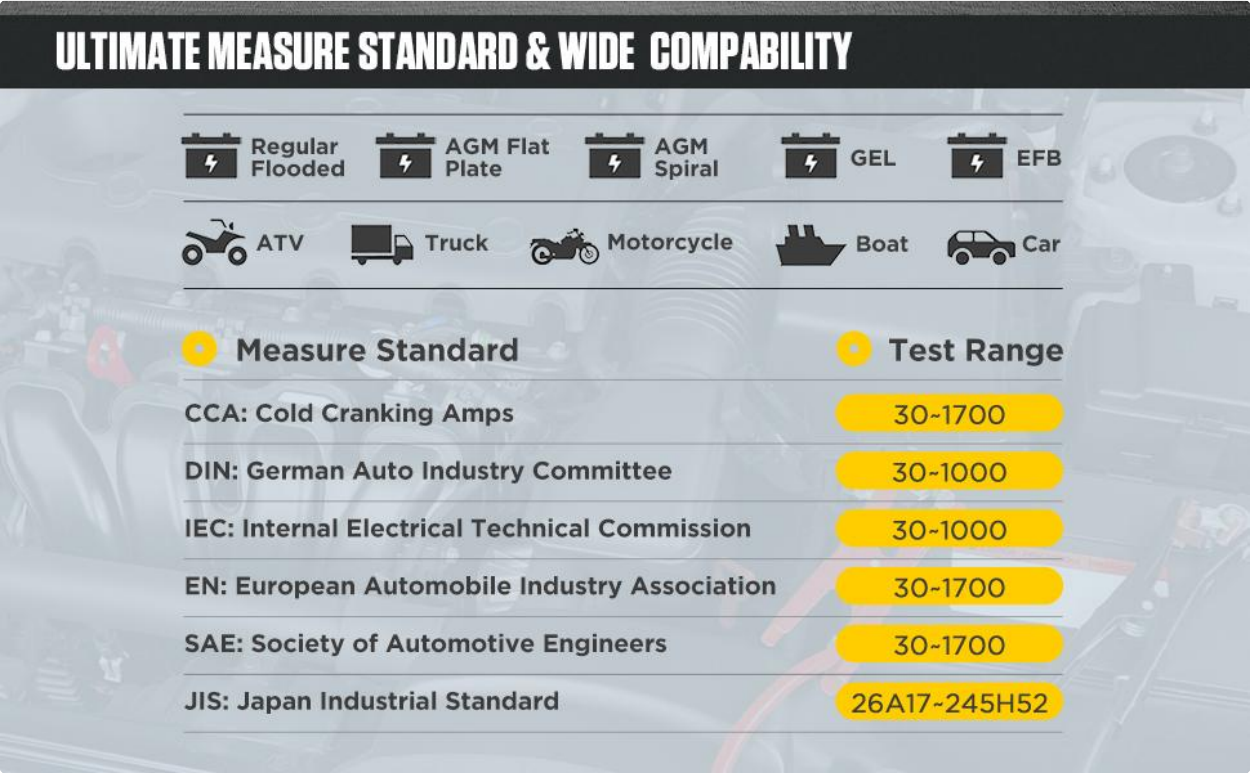| Feature	Specification
Model	BT760
Voltage Range	12V / 24V
CCA Test Range	30-1700 CCA
Supported Battery Types	Regular-Flooded, GEL, AGM Flat Plate, AGM Spiral, EFB
Supported Standards	CCA, JIS, DIN, IEC, EN, SAE, GB
Display	3.2-inch HD Color Screen
Printer	Built-in Thermal Printer
Dimensions	8.27 x 4.33 x 1.57 inches
Weight	1.54 Pounds (700 Grams)
Languages	12 languages (including English, French, Spanish)

Figure 8: Detailed compatibility and measurement standards.

7. WARRANTY AND SUPPORT

The AUTOOL BT760 comes with a Certificate of Conformity, ensuring product quality and adherence to standards. For any questions, problems, or after-sales support, please refer to the contact information provided on your After Sale Service Card or visit the official AUTOOL website.

Contact Information:

- **Website:** WWW.AUTOOLTECH.COM
- Refer to your After Sale Service Card for specific warranty details and additional contact methods.