

QPKING BT760

QPKING BT760 Battery System Tester Instruction Manual

Model: BT760

1. INTRODUCTION

The QPKING BT760 Battery System Tester is a professional diagnostic tool designed for comprehensive testing of 12V and 24V lead-acid batteries. It supports a wide range of battery types and standards, providing accurate analysis of battery health, cranking performance, and charging system efficiency. This manual provides detailed instructions for the proper use and maintenance of your BT760 tester.

Key Features:

- **Wide Compatibility:** Supports 12V and 24V lead-acid batteries (30-2000 CCA), including regular flooded, AGM flat plate, AGM spiral, gel, and deep cycle batteries.
- **Multiple Test Functions:** Performs Battery Test, Cranking Test, Charging Test, and Load Test.
- **Built-in Thermal Printer:** Allows for instant printing of diagnostic results.
- **HD Color Screen:** 3.2-inch high-definition color screen for clear display of results.
- **Multi-Language Support:** Available in 14 languages including English, Portuguese, Turkish, German, French, Russian, Chinese, Traditional Chinese, Spanish, Korean, Japanese, Polish, Italian, and Thai.
- **Safety Features:** Includes polarity reverse protection to prevent damage to the device and battery.

2. WHAT'S IN THE BOX

Upon unpacking, please ensure all items listed below are present and in good condition:

- 1 x QPKING BT760 Car Battery Analyzer Unit
- 1 x Set of Battery Clamps (Red and Black)
- 3 x Rolls of Thermal Printer Paper
- 1 x User Manual
- 1 x Storage Bag



Image 2.1: The QPKING BT760 Battery System Tester with its standard accessories, including the main unit, battery clamps, and thermal paper.

3. PRODUCT OVERVIEW

Familiarize yourself with the components and layout of the BT760 tester.



Image 3.1: Labeled diagram of the BT760 Battery System Tester.

BT760 Component Description

Label	Component
A	Print Port
B	HD Color Screen
C	Electric Clamps Connection
D	Return Key
E	Print Key
F	OK Key
G	Up / Down / Left / Right Navigation Keys

4. SETUP

4.1 Loading Printer Paper

1. Open the printer cover located at the top of the device.
2. Insert a roll of thermal paper into the compartment, ensuring the paper feeds out correctly.
3. Close the printer cover securely.

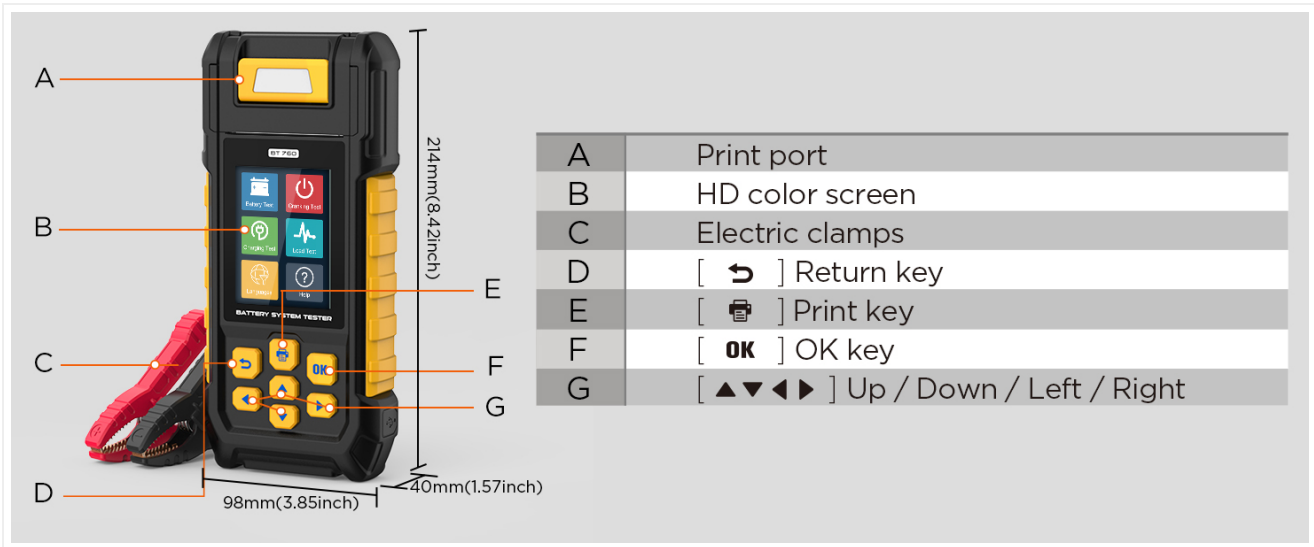


Image 4.1: Visual guide for loading the thermal printer paper into the BT760 device.

4.2 Connecting to the Battery

1. Connect the red clamp to the positive (+) terminal of the vehicle battery.
2. Connect the black clamp to the negative (-) terminal of the vehicle battery.
3. Ensure a secure connection. The tester will power on automatically.



Image 4.2: The BT760 tester connected to a vehicle battery using the red and black clamps.

5. OPERATING INSTRUCTIONS

The BT760 offers various testing modes. Navigate through the menu using the Up/Down/Left/Right keys and confirm selections with the OK key.



Video 5.1: An official product video demonstrating the setup and various testing functions of the QPKING BT760 Battery System Tester.

5.1 Battery Test

This test evaluates the overall health of the battery.

1. From the main menu, select "Battery Test".
2. Choose the battery type (e.g., Regular Flooded, AGM Flat Plate, Gel, etc.).
3. Select the battery rating standard (e.g., CCA, IEC, EN, DIN, JIS, GB).
4. Enter the rated CCA value of your battery.

5. Press "OK" to start the test. The results will display battery voltage, State of Charge (SOC), State of Health (SOH), Current (CCA), and Resistance.



Image 5.1: The BT760 display showing various data points from a battery test, including voltage, state of charge, and battery life.

5.2 Cranking Test

This test assesses the vehicle's starting system.

1. From the main menu, select "Cranking Test".
2. Follow the on-screen prompts to start the vehicle engine.
3. The tester will display the cranking voltage and minimum voltage, indicating the starter's performance.

5.3 Charging Test

This test evaluates the vehicle's charging system (alternator).

1. From the main menu, select "Charging Test".
2. Start the engine and wait for 15 seconds as prompted.
3. Increase engine speed to approximately 2500 RPM for a few seconds.

4. The tester will display charging voltage, minimum voltage, and maximum voltage, indicating the alternator's output.

5.4 Load Test

This test checks the battery's ability to maintain voltage under load.

1. From the main menu, select "Load Test".
2. Turn on electrical loads in the vehicle (e.g., headlights, AC, radio) as prompted.
3. Start the engine and wait for 15 seconds.
4. The tester will measure the battery's voltage under load.

5.5 Language Settings

To change the display language:

1. From the main menu, select "Languages".
2. Scroll through the list of 14 available languages.
3. Press "OK" to select your desired language.



Image 5.2: The BT760 display showing the language selection menu with 14 supported languages.

5.6 Printing Test Results

After completing any test, you can print the results for record-keeping or sharing.

1. Once the test results are displayed, press the "Print" key (labeled E in Image 3.1).
2. The built-in thermal printer will generate a diagnostic receipt.

6. TECHNICAL SPECIFICATIONS

Detailed technical parameters and test ranges for the BT760 tester.

BT760 BATTERY SYSTEM TESTER

- Technical Parameters**
 - Voltage Measurement Range: 8-30V
 - Current Measurement Range: 15mA-5A
 - Operating Temperature: -20°C-50°C
- Test Standard & Test Range**
 - CCA: Cold Cranking Amps: 30-2000
 - IEC: Internal Electrical Technical Commission: 30-2500
 - EN: European Automobile Industry Association: 30-3000
 - DIN: German Auto Industry Committee: 30-2500
 - JIS: Japan Industrial Standard: 28A19R-N135
 - GB: China National Standard: 30-300AH

Image 6.1: Technical specifications and supported test standards for the BT760.

Technical Parameters

Parameter	Value
Voltage Measurement Range	8-30V
Current Measurement Range	15mA-5A

Parameter	Value
Operating Temperature	-20°C to 50°C

Test Standards & Test Range

Standard	Range
CCA (Cold Cranking Amps)	30-2000
IEC (International Electrical Technical Commission)	30-2500
EN (European Automobile Industry Association)	30-3000
DIN (German Auto Industry Committee)	30-2500
JIS (Japan Industrial Standard)	28A19R-N135
GB (China National Standard)	30-300AH

7. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your BT760 tester.

- **Cleaning:** Wipe the device with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the tester in its provided storage bag in a cool, dry place when not in use.
- **Printer Paper:** Ensure you have spare thermal paper rolls. Replace rolls as needed.
- **Clamps:** Keep the battery clamps clean and free of corrosion for optimal conductivity.

STORAGE BAG

The host and accessories can be easily stored, convenient to carry, the fabric material is soft, resistant to fall and impact resistance.



Image 7.1: The BT760 tester and its accessories neatly stored in the provided soft, resistant storage bag.

8. TROUBLESHOOTING

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

Common Troubleshooting

Problem	Possible Cause	Solution
Tester does not power on	Poor connection to battery terminals; Battery voltage too low.	Ensure clamps are securely connected to the correct battery terminals. The tester draws power from the battery being tested. If the battery is completely dead, the tester may not activate.
Inaccurate test results	Incorrect battery type/standard selected; Loose connections; Corroded terminals.	Verify the correct battery type and standard are selected in the menu. Clean battery terminals and ensure clamps are tightly secured.

Problem	Possible Cause	Solution
Printer not working	No paper; Paper loaded incorrectly; Printer jam.	Check if thermal paper is loaded correctly and sufficient. Clear any paper jams. Ensure the printer cover is closed.
Screen is blank or frozen	Software glitch; Low battery voltage.	Disconnect and reconnect the tester to the battery. If the issue persists, contact customer support.

9. WARRANTY AND SUPPORT

QPKING provides a comprehensive warranty and dedicated customer support for the BT760 Battery System Tester.

9.1 Warranty Information

The BT760 Battery System Tester comes with a **3-year warranty**. This warranty covers damage caused by non-human factors. During this period, QPKING promises to resend parts for free if needed.

9.2 Customer Support

For any inquiries, technical assistance, or warranty claims, please contact QPKING customer support. We aim to respond to all queries within 24 hours.

Contact information can typically be found on the product packaging, official QPKING website, or your purchase receipt.