

Sealey BT105

Sealey BT105 Digital Battery & Alternator Tester 12V

User Instruction Manual

1. SAFETY INFORMATION

Read and understand all safety warnings and instructions before using this product. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Always wear appropriate eye protection when working with batteries.
- Ensure the vehicle is in a well-ventilated area.
- Keep the tester away from heat, sparks, open flames, and other ignition sources.
- Do not touch hot engine parts or moving components.
- Ensure the battery terminals are clean and free of corrosion for accurate readings.
- Do not immerse the tester in water or expose it to rain.
- This device is designed for 12V automotive batteries only. Do not use on other voltage systems.

2. PRODUCT OVERVIEW

The Sealey BT105 is a compact digital device designed for accurately testing 12V automotive batteries, cranking systems, and alternator charging systems. It provides quick and reliable results without generating heat or sparks, minimizing the risk of misdiagnosis. The tester operates without an internal battery, drawing power from the battery being tested, and can test batteries with a residual charge as low as 8V. Results are displayed on an LCD screen and can be printed via PC software.



Figure 1: Sealey BT105 Digital Battery & Alternator Tester with attached cables.

Key Features:

- Accurately tests 12V batteries, cranking, and alternator systems.
- No heat, no sparks, and no misdiagnosis.
- LCD screen for clear display of results.
- Operates without an internal battery, powered by the tested battery.

- Capable of testing batteries with a residual charge of just 8V.
- Includes PC software for printing test results.

3. SETUP

The Sealey BT105 is ready for use directly out of its storage pouch. No assembly or internal battery charging is required as the unit is powered by the battery it is testing.

Connecting the Tester:

1. Ensure the vehicle ignition is off and all accessories are turned off.
2. Connect the **red** positive (+) clamp to the positive (+) terminal of the 12V battery.
3. Connect the **black** negative (-) clamp to the negative (-) terminal of the 12V battery.
4. The tester will power on automatically once connected correctly.



Figure 2: The BT105 tester with its red and black clamps ready for connection to a 12V battery.

4. OPERATING INSTRUCTIONS

The BT105 features a simple menu-driven interface. Use the arrow buttons to navigate and the ENTER button to select options. The EXIT button typically returns to the previous menu or cancels an operation.







Figure 3: Close-up of the BT105's LCD screen and control buttons (Up, Down, Left, Right, ENTER, EXIT).

Main Menu Navigation:

Upon powering on, the tester will display the main menu. Options typically include:

- **Quick Test:** Performs a rapid assessment.
- **Battery In Vehicle:** For testing batteries installed in a vehicle.
- **Battery Out Of Vehicle:** For testing standalone batteries.
- **Review Data:** View previously saved test results.
- **Print Data:** Initiate printing of results via PC connection.
- **System Setup:** Configure language, time, and other settings.





Figure 4: The BT105 displaying its Main Menu with various testing and utility options.

Performing a Battery Test (In Vehicle):

1. From the Main Menu, select '**Battery In Vehicle**' and press ENTER.
2. The tester will prompt you to input the battery rating (e.g., CCA, Ah). Refer to the battery label for this information. Use the arrow keys to adjust the value and ENTER to confirm.
3. The tester will then perform the test and display results such as battery health percentage, charge voltage, internal resistance, and a recommendation (e.g., 'Good', 'Charge', 'Replace').





Figure 5: The BT105 screen prompting the user to input the battery's Ah (Amp-hour) value.



Figure 6: Example of battery test results displayed on the BT105, showing 'Healthy', 'Charge', 'Internal Res', 'Rated', and a 'REPLACE' recommendation.

Performing Cranking and Charging Tests:

After selecting 'Battery In Vehicle', you will typically be presented with options for further tests:

- **Cranking Test:** Follow on-screen prompts to start the vehicle engine. The tester will measure the cranking voltage and time to assess the starter system's performance.

- **Charging Test:** Follow on-screen prompts to run the engine at specified RPMs. The tester will measure the alternator's output voltage and ripple to evaluate the charging system.





Figure 7: The BT105 displaying the 'Test In Vehicle' menu, offering options for Battery, Cranking, and Charging tests.

Printing Results:

The BT105 can connect to a PC to print test results. Install the provided PC software on your computer. Connect the tester to your PC using a USB cable (not always included, check packaging). Select 'Print Data' from the Main Menu on the tester and follow the software instructions on your PC.



Figure 8: The BT105 connected to a laptop, demonstrating the print function for test results.



Figure 9: A user reviewing a printed report generated by the Sealey BT105 tester.

5. MAINTENANCE

- **Cleaning:** Wipe the tester's casing with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tester in its original pouch in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Regularly inspect the cables and clamps for any signs of damage, fraying, or corrosion. Replace if necessary.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tester does not power on.	Poor connection to battery terminals; Battery voltage too low (below 8V).	Ensure clamps are securely attached and terminals are clean. Charge battery if voltage is below 8V.
Inaccurate readings.	Corroded battery terminals; Incorrect battery rating input.	Clean battery terminals. Verify the correct CCA or Ah value from the battery label.
Cannot print results.	PC software not installed; USB cable not connected; Driver issues.	Install the PC software. Ensure USB cable is securely connected to both tester and PC. Check PC device manager for driver issues.

7. SPECIFICATIONS

- **Model:** BT105
- **Brand:** Sealey
- **Operating Voltage:** 12V
- **Minimum Operating Voltage:** 8V
- **Power Source:** Battery Powered (from tested battery)
- **Product Dimensions:** 5 x 23 x 17 cm
- **Item Weight:** 440 g
- **Connectivity:** USB for PC software

8. WARRANTY AND SUPPORT

This Sealey BT105 Digital Battery & Alternator Tester is covered by a **1 Year Guarantee**. For specific terms and conditions, please refer to the documentation included with your product or visit the official Sealey website.



Figure 10: Sealey 1 Year Guarantee.


For technical support, spare parts, or warranty claims, please contact your authorized Sealey dealer or visit the Sealey customer support portal.






Website: www.sealey.co.uk



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Related Documents - BT105

	<p>Sealey BT2015 Digital Start/Stop Battery & Alternator Tester with Printer Manual</p> <p>Comprehensive user manual for the Sealey BT2015, a 6/12/24V digital battery and alternator tester with integrated printer. This guide details safety precautions, product specifications, preparation steps, operation procedures for battery and system tests, settings adjustments, and environmental disposal information.</p>
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	<p>Sealey BT2101.V2 12V Digital Battery Tester User Manual</p> <p>User manual for the Sealey BT2101.V2 12V Digital Battery Tester, providing essential safety instructions, product specifications, detailed operation procedures, and troubleshooting guidance for automotive battery testing.</p>
	<p>Sealey 6-24V Auto Probe PP1.V4: User Manual and Operating Instructions</p> <p>A comprehensive guide to the Sealey 6-24V Auto Probe (Model PP1.V4). This manual covers essential safety precautions, detailed features, step-by-step operation, various testing procedures for automotive electrical systems (polarity, continuity, component activation, trailer lamps, ground contacts, short circuits), and jumper lead functionality. It also includes environmental protection and warranty information.</p>
	<p>Sealey BT91/4.V2 Electronic Battery Tester 3 Function - Instructions and Operation</p> <p>Comprehensive instructions and operational guide for the Sealey BT91/4.V2 Electronic Battery Tester. Covers safety precautions, battery testing, alternator testing, and equipment supply checks.</p>
	<p>Sealey BT2101.V2 12V Digital Battery Tester - Instructions and Safety Guide</p> <p>Comprehensive instructions and safety guidelines for the Sealey BT2101.V2 12V Digital Battery Tester. Learn how to test battery condition, understand specifications, and troubleshoot common issues.</p>
	<p>Sealey VS270 Multi Voltage Glow Plug Tester: Instructions and Operation</p> <p>A comprehensive guide to the Sealey VS270 Multi Voltage Glow Plug Tester, detailing safety precautions, product introduction, operational procedures including initialization and testing methods, and maintenance guidelines for modern diesel engines.</p>