

Sealey BT2014

Sealey BT2014 Digital Battery and Alternator Tester with Printer Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your Sealey BT2014 Digital Battery and Alternator Tester with Printer. This device is designed for diagnosing battery and alternator faults, offering the convenience of printing test results directly. It is capable of testing battery condition with as little as 1.5V residual charge and analyzing the vehicle's charging system both at rest and under load. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent personal injury and damage to the tester or vehicle.

- Wear appropriate eye protection and protective clothing when working near vehicle batteries.
- Ensure the vehicle is in a well-ventilated area to disperse any battery gases.
- Keep sparks, flames, and smoking materials away from the battery.
- Avoid touching battery terminals or cables with bare hands.
- Do not operate the tester if it appears damaged.
- Ensure correct polarity when connecting the tester to the battery (red clamp to positive, black clamp to negative).
- Keep the tester dry and clean.

3. PACKAGE CONTENTS

Upon opening your Sealey BT2014 package, please verify that all components are present and undamaged:

- Sealey BT2014 Digital Battery and Alternator Tester with integrated printer.
- Heavy-duty carry-case.
- Batteries (pre-installed or included for printer operation).

- Two rolls of printing paper.
- Instruction manual (this document).



Figure 3.1: The Sealey BT2014 Digital Battery and Alternator Tester shown within its protective carry case, with all accessories visible.

4. PRODUCT OVERVIEW

The Sealey BT2014 is a robust diagnostic tool designed for automotive electrical system analysis. It features a clear digital display, intuitive controls, and an integrated thermal printer for immediate result documentation.



Figure 4.1: Front view of the Sealey BT2014 tester, displaying the screen, control buttons, and attached battery clamps.

4.1. Components

- **Digital Display:** Shows test results and menu options.
- **Control Buttons:** 'Forward', 'Back', 'Enter', 'Start/Stop' for navigation and operation.
- **Integrated Printer:** For printing test reports.
- **Battery Clamps:** Red for positive (+), Black for negative (-).
- **Printer Paper Compartment:** Located under the clear cover.

TEST REPORT
==BATTERY TEST==
VRLA/GEL
SOC: 12.90V
RATED: 40SAE
MEASURED: 559SAE
IR: 5.59mΩ

GOOD & PASS

STATE OF HEALTH
■■■■■■■■ 100%
STATE OF CHARGE
■■■■■■■■ 100%

CLIENT:

TEST DATE:

START
STOP

Forward

Back

Enter

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Figure 4.2: A detailed view of the Sealey BT2014 tester, highlighting the digital display and a printed test report emerging from the integrated printer.

5. SETUP

5.1. Loading Printer Paper

1. Gently open the clear cover of the printer compartment.
2. Insert a new roll of thermal paper, ensuring the paper feeds from the bottom of the roll.
3. Pull a small length of paper out and close the cover, ensuring the paper exits through the slot.

5.2. Connecting to the Vehicle Battery

1. Ensure the vehicle ignition is off and all accessories are disconnected.
2. Connect the **red** positive (+) clamp to the positive battery terminal.
3. Connect the **black** negative (-) clamp to the negative battery terminal.
4. Ensure connections are secure and free from corrosion. The tester will power on automatically.

6. OPERATING INSTRUCTIONS

The BT2014 offers various testing modes accessible via the main menu.

6.1. Battery Test

This function assesses the health and charge level of the vehicle's battery.

1. From the main menu, select 'Battery Test' using the 'Forward'/'Back' buttons and press 'Enter'.
2. Follow the on-screen prompts to input battery type (e.g., Flooded, AGM, Gel) and Cold Cranking Amps (CCA) rating. This information is usually found on the battery label.
3. The tester will perform the analysis. Once complete, the results will be displayed, showing voltage, CCA, state of health, and state of charge.
4. You will be prompted to 'Print Result?'. Select 'Yes' or 'No' and press 'Enter'.



Figure 6.1: The Sealey BT2014 tester actively performing a test on a vehicle battery, with the display showing a prompt to print results.

6.2. Alternator Test (Charging System Test)

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

1. From the main menu, select 'Alternator Test' and press 'Enter'.
2. The tester will guide you through a series of steps, which typically include:
 - Starting the vehicle engine.
 - Running the engine at idle.
 - Increasing engine RPM to a specified level (e.g., 2000 RPM).
 - Turning on electrical loads (e.g., headlights, fan).
3. The tester will analyze the voltage output under various conditions.
4. Results will be displayed, indicating the alternator's condition (e.g., 'Good', 'Low Output', 'High Output').
5. You will be prompted to 'Print Result?'. Select 'Yes' or 'No' and press 'Enter'.

7. MAINTENANCE

7.1. Cleaning

Wipe the tester with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no liquids enter the device.

7.2. Printer Paper Replacement

When the printer runs out of paper, follow the steps in Section 5.1 to replace the roll. Use only thermal paper compatible with the BT2014.

7.3. Storage

Store the tester in its protective carry-case in a dry, cool environment, away from direct sunlight and extreme temperatures. Disconnect the battery clamps before storage.



Figure 7.1: The Sealey BT2014 tester securely stored within its closed, protective carry case, ready for transport or long-term storage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tester does not power on.	Poor battery connection; Vehicle battery completely dead.	Check clamp connections; Ensure battery has at least 1.5V residual charge.

Problem	Possible Cause	Solution
Printer not printing.	No paper; Paper inserted incorrectly; Printer malfunction.	Replace paper roll; Re-insert paper correctly; Contact support if issue persists.
Inaccurate test results.	Incorrect battery type/CCA input; Poor clamp connection; Corroded terminals.	Verify battery information; Clean battery terminals and ensure secure connections.

9. SPECIFICATIONS

Feature	Specification
Model Number	BT2014
Brand	Sealey
Measurement Type	Multimeter
Product Dimensions (L x W x H)	17 x 82 x 17 millimeters
Item Weight	1566 Grams
Power Source	AC (for charging/powering, specific details not provided)
Minimum Battery Voltage for Test	1.5V residual charge

10. WARRANTY AND SUPPORT


The Sealey BT2014 Digital Battery and Alternator Tester is covered by a **1 Year Guarantee** from the date of purchase. This guarantee covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims. Terms and conditions apply.








Figure 10.1: Official Sealey 1 Year Guarantee emblem, indicating product warranty coverage.

For technical support, warranty inquiries, or to order replacement parts (such as printer paper rolls), please contact your authorized Sealey dealer or visit the official Sealey website for contact information.

Related Documents - BT2014

	<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 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 6-24V Auto Probe Plus PPX.V4 User Manual</p> <p>Comprehensive instructions for the Sealey 6-24V Auto Probe Plus (Model No. PPX.V4), covering safety, features, operation, testing, and troubleshooting for automotive electrical systems.</p>
	<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 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>