SEALEY BT2012.V2 Digital Battery and Alternator Tester with Printer 12V Instruction Manual

Contents

SEALEY-BT2012.V-Digital-Battery-and-Alternator-Tester-with-Printer-12V

Specifications

- **Model No**: BT2012.V2
- **Rated Battery Voltage**: 12V
- **Rating Systems:** DIN, EN, IEC, SAE
- **Test Range**: 50-1400 Cold Cranking Amps, 50-800 CCA* DIN, 50-1400 CCA* EN, 50-800 CCA* IEC, 50-1400 CCA* SAE, By Battery Type JIS
  Note: CCA – Cold Cranking Amps
- **Voltage Range**: 1.5-17V
- **Charging System Capability**: 12V
- **Minimum Power Requirement**: 1.5V
- **Nett Weight**: 1.00 kg
- **Consumable Parts**
  - Printing Roll for BT2012.V2 Pack of 2 BT2012.V2-01
  - Battery: 1 x 9V (not supplied)

Product Information

Thank you for choosing our Sealey product. The Digital Battery & Alternator Tester with Printer 12V is manufactured to a high standard, ensuring years of trouble-free performance when used according to the instructions provided. Please read these instructions carefully and follow all operational requirements, warnings, and cautions to prevent damage, personal injury, and warranty invalidation.

Product Usage Instructions

Safety Precautions

- **Personal Precautions**
  - Ensure another person is nearby for assistance in case of emergencies.
  - Wear safety eye protection and protective clothing.
  - Have fresh water nearby for battery acid contact.
  - Remove metallic items to prevent welding due to high short-circuit current.
  - Avoid contact with fan blades and hot engine parts.
  - Do not smoke or create sparks near the battery or engine.
- **General Safety Instructions**

  Familiarise yourself with the application, limitations, and potential hazards of the tester. Also, refer to the vehicle manufacturer's hand book. IF IN ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

  - Ensure that the tester is in good condition before use. If in any doubt, do not use the unit and contact a qualified electrician.
  - Only use recommended attachments and parts. Using unapproved items may be dangerous and will invalidate your warranty.
  - Keep tools and other items away from the engine, and ensure that you can see the battery and working parts of the engine.
  - Determine the system voltage before using the tester.
  - If the tester receives a sharp knock or blow, the unit must be checked by a qualified service agent before using.
  - If the battery terminals are corroded or dirty, clean them before using the tester.
  - Keep children and unauthorised persons away from the work area.
  - DO NOT dismantle the tester for any reason. The tester must only be checked by qualified service personnel.
  - WARNING ! To prevent the risk of sparking, short circuit, and possible explosion, DO NOT drop metal tools in the battery area or allow them to touch the battery terminals.
  - DO NOT cross-connect tester to battery. Ensure positive (RED) clamp is to positive terminal and negative (black) clamp is to negative terminal. If battery symbols cannot be distinguished: the negative terminal is the one directly connected to the vehicle bodywork.
  - DO NOT use the tester outdoors or in damp locations, and DO NOT use in the vicinity of flammable liquids or gases.
  - Ensure there is effective ventilation to prevent a build-up of explosive gases.
  - DO NOT use the tester for a task for which it is not designed.
  - When not in use, store the tester carefully in a safe, dry, childproof location.
- **Introduction**

  Fast and accurate diagnosis of battery and alternator faults with facility to print the results. Large LCD display shows charging and starting system status and returns decision making information in seconds. Results need no interpretation and the tester will work on batteries with as little as 1.5V of residual charge.
- **Operation**

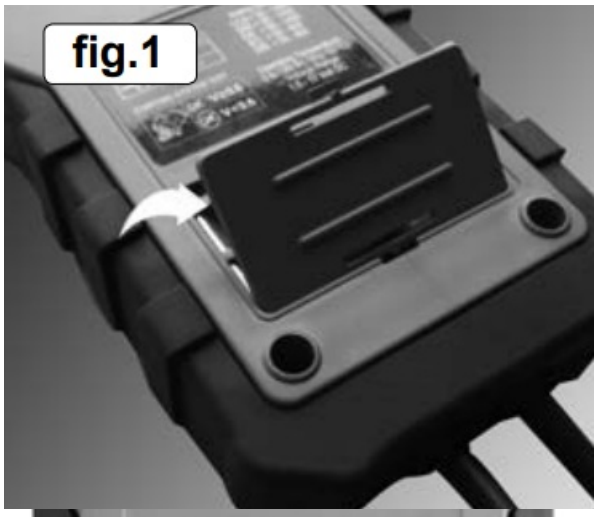
  WARNING! Ensure that you read, understand, and apply the safety and operational instructions before applying the tester clamps to the battery. Only when you are sure that you understand the procedures is it safe

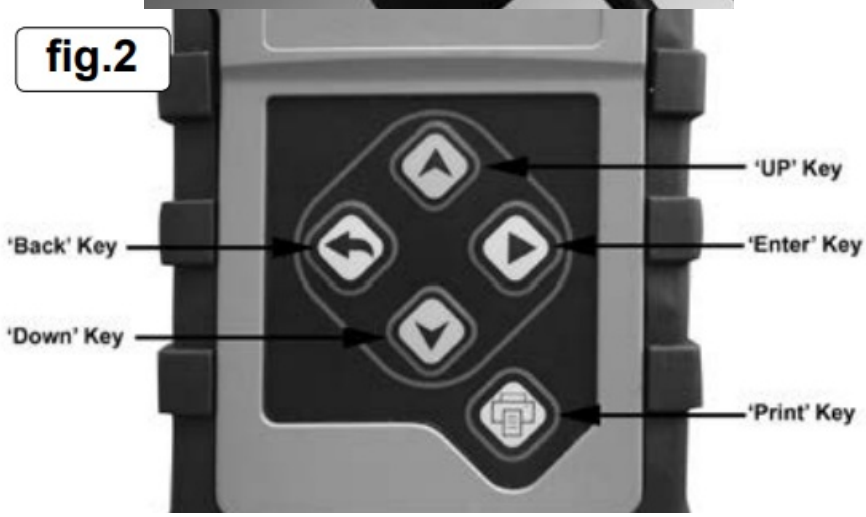
to proceed with the testing process.

1. **Preparation**

   WARNING! Ensure that the vehicle, or battery, is in a well-ventilated area before starting to test.

   1. Check the battery casing for cracks or leakage. If damage is found, DO NOT test and rreplacethe attery.
   2. Clean battery terminals.
   3. If possible, check electrolyte levels and top up with distilled water as necessary.
   4. When testing on the vehicle, unless otherwise specified, tests are carried out with all electrical items switched off. Leaving any items on (boot light, interior light, etc.) can result in expensive mis-diagnosis. If the vehicle was running prior to testing, turn on the headlights for 30 seconds to remove surface charge. Switch off the lights, let the battery recover for 60 seconds before testing.
   5. Confirm that the 4 x 1.5V battery (not supplied) is fitted correctly in the compartment in the rear of the tester (fig.1). The batteries power the printer and enable storage of test data afterthe testt and disconnection. DO NOT operate the printer without the print paper loaded and ready for printing.





2. **Connecting to Battery**

   1. Connect the positive (red) clip to the positive (+) terminal of the battery. Ensure a good connection to the terminal.
   2. Connect the negative (black) clip to the negative (-) battery terminal, again ensuring a good connection.

3. **Display**

   1. The initial screen display shows: (fig.3)

fig.3

2. Which includes the battery voltage.

4. **Battery Test**
    1. Pressing ‘ENTER’ shows (fig.4) with ‘TEST BATTERY’ flashing.

fig.4

    2. Press ‘ENTER’ to select the battery test function.
    3. The display will show the input selection view (fig.5). Enter the input standard using the ‘Down’ or ‘UP’ key (fig.2) and pressing ‘Enter’ on the appropriate standard. The input standard should be shown on the battery
    specification label after the amperage.

fig.5

    4. When the input standard is selected, the amperage screen is displayed: (fig.6)

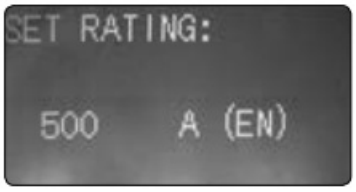


fig.6

    5. The required amperage (from the battery label) should be entered using ‘UP’ or ‘DOWN’ key, pressing the ‘enter’ key to set.
    6. The battery state will be displayed showing: Battery, Condition, Voltage Resistance, Cold Cranking Amps Pe Percentage of Cold Cranking Amps.
    7. Press the ‘BACK’ key (fig.2) to return to the main menu when the test is complete.

5. **Starting System Test**
    1. From the screen shown in 4.1 select ‘Test Starter’.
    2. Start the vehicle.
    3. The starter test results appear automatically on the display.
    4. Press the ‘BACK’ key (fig.2) to return to the main menu when the test is complete.

6. **Charging System Test**
    1. From the screen shown in ain4.1., select ‘Test ALTERNATOR’.
    2. The display will show: (fig.7)

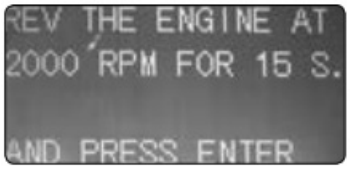


fig.7

    3. Pressing the ‘ENTER’ key (fig.2) will display the test result.

7. **Other Functions**
    1. Scrolling down from 4.1. will show: (fig.8)

fig.8

8. **View Test Result**
    1. Press ‘VIEW TEST RESULT’ to review the test.
    2. ‘ENTER’ to scroll from battery test to starting system to charging system.
9. **Set Date & Time**
    1. Press ‘SET DATA & TIME’ key.
    2. Press ‘UP’ or ‘DOWN’ key to add or subtract from the setting.
    3. Press ‘ENTER’ to scroll right; entering yy-mm-dd.
    4. When complete, press ‘ENTER’ for 2 seconds to store the set values.

    Note: There may be a small block of pixels appear on the screen when you are setting the date and time. This is normal for this device and can be corrected by scrolling down through the time or date settings until the mark disappears. This mark does not affect the functionality of the device in any way.
10. **Printer**

    DO NOT operate the printer without first loading the paper strip under the print head (fig.9)

    1. To thread the print roll: connect the tester to a vehicle battery, thread the cleanly cut beginning of the roll under the print head until resistance is felt and press the ‘PRINT’ key (fig.2) to feed through.
    2. At the end of a test procedure, pressing ‘PRINT’ will print the last set of results.
    3. Alternatively, selecting ‘VIEW TEST RESULT’ (section 4.8.) and then pressing ‘PRINT’ will print the entire test cycle.

- **Troubleshooting**
    1. In the event of a poor connection, or a battery voltage in excess of 18V, the display will revert to the main menu.
    2. The printer will not function if the vehicle battery has a charge of less than 10V.
    3. If the display shows ‘CHECK PRINT PAPER’, replace printer paper or check the feed.
    4. If the printer exceeds temperature 75°, ‘TEMP OVER’ will display. Allow the unit to cool down before continuing.

Environment Protection

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

Weee Regulations

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally rotective way. Contact your local solid waste authority for recycling information.

Battery Removal See Section 4.1.5
Under the Waste Batteries and Accumulators Regulations 2009, Jack Sealey Ltd are required to inform potential purchasers of products containing batteries (as defined within these regulations), that they are registered with Valpak's registered compliance scheme. Jack Sealey Ltd Batteries Producer Registration Number (BPRN) is BPRN00705.

- **Note**: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.
- **Important**: No Liability is accepted for incorrect use of this product.
- **Warranty**: Guarantee is 12 months from purchase date, proof of which is required for any claim.

About Us

Sealey Group, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk. IP32 7AR
01284 757500

01284 703534

sales@sealey.co.uk

www.sealey.co.uk

FAQs

Q: Can I use this tester on a vehicle with a different voltage system?
No, this tester is designed for 12V systems only. Using it on a different voltage system may cause damage.

Q: How do I interpret the test results from the printer?
The printer will provide clear indications of battery and alternator health. Refer to the manual for detailed result interpretations.

Q: Can I test the alternator separately from the battery?
Yes, this tester allows separate testing of both the battery and alternator for comprehensive diagnostics.

Documents / Resources

	SEALEY BT2012.V2 Digital Battery and Alternator Tester with Printer 12V [pdf] Instruction Manual BT2012.V2 Digital Battery and Alternator Tester with Printer 12V, BT2012.V2, Digital Battery and Alternator Tester with Printer 12V, Alternator Tester with Printer 12V, Tester with Printer 12V, Printer 12V

References

- **User Manual**