



INSTRUCTIONS FOR BATTERY TESTER MODEL NO: BT91/1.V2

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to
Instructions



Wear eye
Protection



Wear
Protective
Clothing



Warning:
Explosive
Material



Warning:
Corrosive
material



No open
flames



Wear
Protective
Gloves



Battery:
Ventilate area

1. SAFETY



DANGER! BE AWARE, LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS VERY IMPORTANT TO READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY, EACH TIME YOU USE THE BATTERY TESTER.
Follow these instructions and those published by the battery and vehicle manufacturers, and the maker of any equipment you intend to use in the vicinity of the battery. Remember to review warning marks on all products and on engines.

1.1. PERSONAL PRECAUTIONS

Ensure that there is another person within hearing range and close enough to come to your aid, should a problem arise when working near a lead-acid battery.

- ✓ Wear safety eye protection and protective clothing. Avoid touching eyes while working near battery.
- ✓ Have fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
- ✓ Wash immediately with soap and water if battery acid contacts skin or clothing. If acid enters eye, flush eye immediately with cool, clean running water for at least 15 minutes and seek immediate medical attention.
- ✓ Remove personal metallic items such as rings, bracelets, necklaces and watches. A lead-acid battery can produce a short-circuit current which is high enough to weld such items to the vehicle, and cause severe burns.
- ✓ Ensure that hands, clothing (especially belts) are clear of fan blades and other moving or hot parts of engine. Remove ties and contain long hair.
- ✗ **DO NOT** smoke or allow a spark or flame in the vicinity of the battery or engine.

1.2. GENERAL 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. To use 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 engine clearly.
- ✓ Confirm that the battery to be tested is 6 or 12 volt, and not 24 volt, 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** dis-assemble 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) lead is to positive terminal and negative probe is to negative terminal. If battery symbols cannot be distinguished, remember that the negative terminal is the one directly connected to the vehicle bodywork.
- ✗ **DO NOT** use the tester outdoors, or in damp, or wet locations and **DO NOT** use within 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.
- ✗ **DO NOT** load test for more than 5 seconds at a time. Use for longer may result in the tester overheating and will invalidate your warranty.

2. INTRODUCTION

Tests 6V and 12V batteries. Applies load across terminals and reads voltage performance. Fitted with moving-coil meter.

3. OPERATION

- ☐ **WARNING!** Ensure that you read, understand and apply the safety and operational instructions before touching the tester probes to the battery. Only when you are sure that you understand the procedures is it safe to proceed with the testing process.
 - ☐ **WARNING!** During and after load testing the load resistor will be very hot. Do not touch or place on vulnerable surfaces.
- Note:** ON THE FIRST LOAD TEST SMOKE MAY BE EMITTED FROM THE COIL ON THE TESTER. THIS IS OIL BURNING OFF AND IS NORMAL.

3.1. PREPARATION

- **WARNING!** Ensure that the vehicle, or battery, is in a well ventilated area before starting to test.
- 3.1.1. Check battery casing for cracks or leakage and confirm that it is 6 or 12 volts.
- 3.1.2. Clean battery terminals.
- 3.1.3. If possible, check electrolyte levels and top-up with distilled water as necessary.
- 3.1.4. Unless otherwise specified tests are carried out with **all** electrical items switched off.

3.2. OPERATION

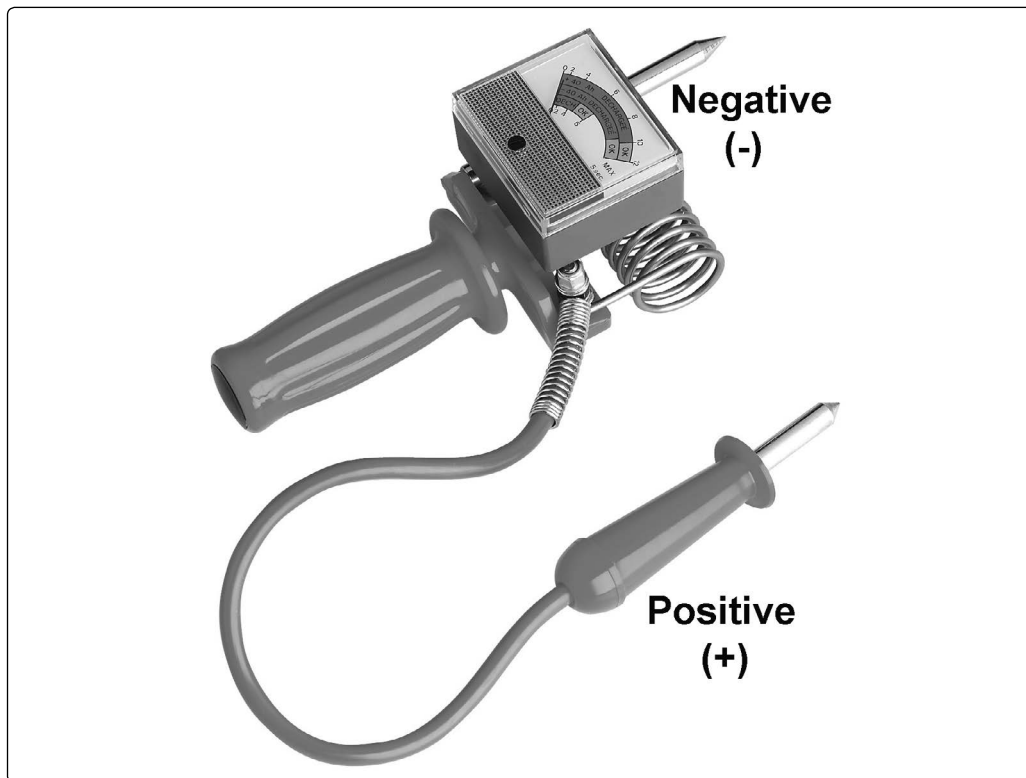
- 3.2.1. Press the probe on the end of the red lead, to the positive (+) battery terminal and the other probe to negative (-) terminal. Note that this tester is polarity sensitive. If the pointer does not move, either there is a bad connection **or** the battery is completely dead.
- 3.2.2. Note the meter reading - compare the meter reading with load test chart to determine battery condition.

DO NOT test for more than 5 seconds.

Note: For 12 volt batteries there are two meter scales - the upper for batteries with capacity greater than 40Ah and the lower for those with capacity less than 40Ah.

Load Test Results	Battery Condition	Meter Readings for 12V Batteries	Necessary Action
OK - Green	Battery in good condition and fully charged	Needle will indicate approximately 10V and remain steady in this position.	No action required
OK - Green/Red	Battery either faulty or partly discharged	Needle will indicate approximately 10V but will drop away slowly	Battery levels are to be checked if possible, then recharged and retest. If results remain on the second test, replace battery.
OK - Green/Red	Faulty cell	Needle may indicate up to 10v but drops away rapidly.	Replace battery

* The above table is for testing 12V batteries, the procedure for a 6V battery is the same but voltage readings need to be halved



Environmental 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 off any fluids (if applicable) into approved containers and dispose of the product and the 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 protective way. Contact your local solid waste authority for recycling information.

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 will be required for any claim.



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