

DIGITAL BATTERY TESTER WITH PRINTER 6-12V MODEL

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 INFO 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. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

SAFETY INSTRUCTIONS



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.

- 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.

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. 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.
- 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 disassemble 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, 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 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. X
- When not in use, store the tester carefully in a safe, dry, childproof location.

INTRODUCTION & SPECIFICATION

Fast, accurate diagnosis and recording of battery faults. Tests battery condition and charge level. LCD Screen shows easy-to-follow test prompts and results. Built-in printer will produce hard-copy results for your or customer's records. Suitable for GEL, AGM, VRLA, SLI batteries. Supplied in carry case with four AA batteries, two printer rolls and instruction manual.

Rated Battery Voltage . . 6-12V Rated Systems . . . DIN, EN, IEC, JIS, SAE Test Range 25-1300CCA DIN 40 - 2100CCA EN 30-1500CCA IEC By battery type JIS 40-2000CCA SAE Min. Power Requirement 1V Note: CCA = Cold Cranking Amps

Spare Printing Rolls: BT2003.01 (2 X bag of four)

BACK PAPER FEED FORWÁRD ENTER

OPERATION & USE

WARNING! Ensure that you read, understand and apply the safety and operational instructions before connecting 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.

3.1

- 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. If damage is found DO NOT test, replace battery.
- 312 Clean battery terminals.
- 3.1.3 If possible, check electrolyte levels and top-up with distilled water as necessary.
- 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 3.1.4 misdiagnosis.
- Confirm that the 4 x AA Batteries (supplied) are correctly fitted in the compartment in the rear of the tester.
 - Note that nothing will be seen on the display until the tester is connected to a vehicle battery.
- Connect the red clamp to the positive (+) battery terminal and the black clamp to the negative (-) terminal. When the internal battery becomes discharged 3.1.6 the display will read INTERNAL BATTERY LOW.
- If there is a poor connection the display will read CHECK CLAMPS, otherwise the display will read BATTERY TEST. 3.1.7
- 3.1.8 Paper Load: Open the clear cover. Insert the paper to the paper feeder and press the paper feed key to run the paper into the printer, when the paper emerges from the printer press the paper feed key again to stop.

3.2 DISPLAY GENERAL

By pressing the < (forward) and > (backward) buttons the display will cycle through the options. Press ENTER button when the option you require is displayed.

Use the < (forward) and > (backward) BATTERY VOLTS ◀▶← **BATTERY TESTER** buttons to select language or press ENTER to commence battery test xx.xx V Fig.1 Use the < (forward) and > (backward) LANGUAGE **◄▶**← buttons to return to battery test or press **SELECT** ENTER to set language. Use the < (forward) and > (backward) LANGUAGE ◀▶← buttons to select language. **ENGLISH** English, French, German, Spanish, Italian, Portuguese or Japanese. Press ENTER to confirm choice and return to battery test.

Battery Type Glossary:

Standard SLI: Start - Lights - Ignition Absorbent Glass Mat AGM: VRLA: Valve-Regulated Lead-Acid

Sealed Lead-Acid SI A: Gel: Gel Battery

3.3 **BATTERY TEST**

3.3.1 With battery test screen displayed press ENTER.

3.3.2 Use the < (forward) and > (backward) buttons to select the battery type: VRLA/GEL/AGM/SLA or STANDARD SLI. Press ENTER to confirm choice.

3.3.3 Use the < (forward) and > (backward) buttons to select the battery rating: SAE, EN, IEC, DIN or JIS. Press ENTER to confirm.

334 Use the < (forward) and > (backward) buttons to input the battery capacity. CCA:

> DIN: 25 - 1300 EN: 40 - 2100 30 - 1500 IFC: JIS: By battery type SAF 40 - 2000Press ENTER to begin test.

Battery being tested for a few seconds. 335

3.3.6 Press < (forward) or > (backward) buttons to select battery fully charged: Yes or No. Press ENTER to confirm choice.

3.3.7 When the test is complete, the LCD shows the actual volts and CCA or Ah Press < (forward) or > (backward) buttons to select: SOH (State of Health) or SOC (State of Charge).

One of the following results will be displayed.

GOOD & PASS: Battery is capable of 3.3.8 holding a charge.

BATTERY TYPE ◀▶ -VRLA/GEL/AGM/SLA

SELECT RATING ◀▶-

SET CAPACITY ◀▶ -

TESTING

IS BATTERY ◀▶ -

CHARGED? YES

×××× SAE

SAE

339

3.3.11

3.3.10 **RECHARGE & RETEST:** Battery is discharged, the battery condition cannot be determined until it is fully charged. Recharge and retest.

> BAD & REPLACE: The battery will not hold its charge. Replace.

GOOD & RECHARGE: The battery is

good but needs to be recharged.

BAD CELL & REPLACE: The battery 3.3.12 has at least one cell short circuit. Replace.

3.3.13 LOAD ERROR: The tested battery is larger than 2000CCA or 200Ah. Or the clamps are not connected properly. Please fully charge the battery and retest after excluding both previous reasons. If reading is the same, the battery should be replaced immediately.

The operator is asked if any accessories are left on as a possible cause. If accessories are left on, the operator is instructed to charge and retest the battery. If accessories are not left on, the operator is instructed to replace the battery since the charging system is working and a good battery should have accepted a charge.

Press < (forward) or > (backward) buttons to select result printing: Yes or No. Press ENTER to confirm choice.

3.3.15 Press ENTER to return to the start screen or remove the clamps from the battery after completion of testing.

GOOD & PASS xx,xxV xxxx SAE

DECLARATION OF CONFORMITY

Declaration of Conformity We, the sole UK importer, declare that the product listed below is in conformity with the following standards and directives.

Digital Battery Tester Model: BT2013.V2

89/336/EEC EMC Directive 93/68/EEC CE Marking Directive 2002/95/EC RoHS Directive 2002/96/EC WEEE Directive



The construction file for this product is held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

Signed by Tim Thompson

1st April 2006

For Jack Sealey Ltd. Sole UK importer of Sealey Professional Tools.

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 equipment.

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



Sole UK Distributor Sealey Group, Bury St. Edmunds, Suffolk.



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GOOD & RECHARGE

RECHARGE & RETEST

xx,xxV xxxx SAE

××.××V ×××× SAE

BAD & REPLACE

xx,xxV xxxx SAE

××.××V ×××× SAE

BAD CELL & REPLACE

LOAD ERROR

PRINT RESULT? ◀▶ -

NO