

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 AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE, OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY.

1. 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 THIS PIECE OF EQUIPMENT.

Follow these instructions and those published by the battery manufacturer 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.

- ✓ Observe standard workshop safety procedures when using the Memory Master.
- ✓ Ensure there is another person within hearing range, or close enough to come to your aid when working near, or with, lead-acid batteries.
- ✓ Wear safety eye protection and protective clothing. Avoid touching eyes while working with or near a 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 high enough to weld a ring or the like to metal, which may cause severe burns.
- ✓ Ensure hands, clothing (especially belts) are clear of fan blades and other moving or hot parts of engine, remove tie and contain long hair.
- ✓ Keep the work area clean and uncluttered and ensure there is adequate lighting. Keep tools and other items away from the engine and ensure you can see the battery and working parts of engine clearly.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorised persons away from the working area.
- ❑ **WARNING! DO NOT** use tester where there are flammable gases or liquids (especially petrol and diesel).
- ❑ **WARNING! DO NOT** use tester on any vehicles other than those with 12 Volt DC systems.
- ✗ **DO NOT** smoke or allow a spark or flame in the vicinity of battery or engine.
- ✗ **DO NOT** dis-assemble tester. The tester must be checked by qualified service personnel only.
- ✗ **DO NOT** get tester wet or use in damp or wet locations or areas where there is condensation.
- ✗ **DO NOT** use the tester for any purpose other than that for which it is designed.
- ✗ **DO NOT** pull the cables or clamps from the battery terminals.
- ✗ **DO NOT** operate the tester if damaged.
- ✓ When not in use store tester in a safe, dry, childproof location.

2. INTRODUCTION

Ingenious product combines two useful functions. Memory Master attaches to a 12Volt slave battery and provides power via the vehicle's accessory/cigarette lighter socket to the on-board electronics whilst the vehicle's own battery is disconnected. The Memory Master also provides a quick check of the battery's condition with a digital voltage display. This device saves valuable time spent re-programming lost codes. Supplied with 1.33mtr cable and crocodile clips.

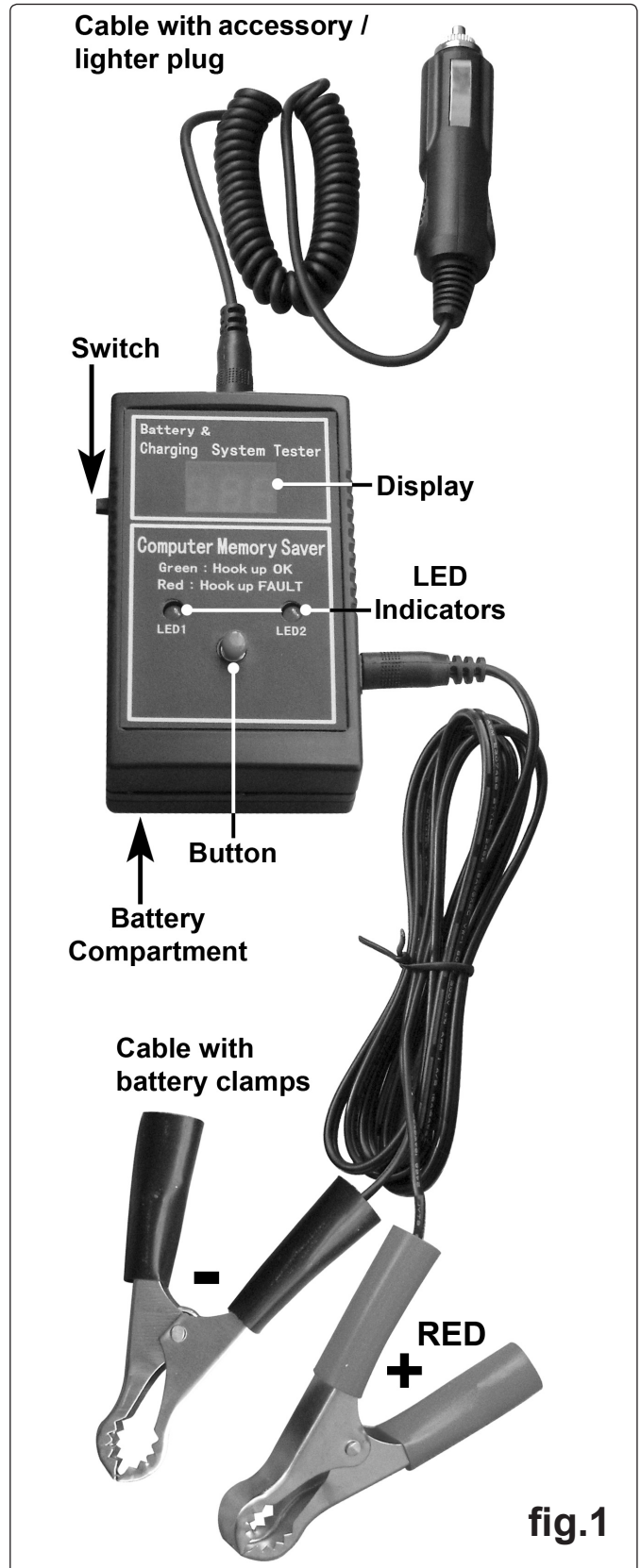


fig.1

3. OPERATION

3.1. MAINTAINING MEMORY

- 3.1.1. Ensure all vehicle electrical systems are switched off.
- 3.1.2. **Use the Memory Master with both cables attached and a 12V (slave) lead-acid battery.**
- 3.1.3. Connect the cable with the battery clamps into the socket in the side of the Memory Master and then connect the battery clamps to the slave battery ensuring that the red, positive clamp is attached to the positive (+) battery post and the black, negative clamp is attached to the negative (-) battery post. If correctly connected the LED indicators on the Memory Master will show green. If incorrectly attached to the battery the indicators will show red.
- 3.1.4. If OK, turn the ignition switch on, **but do not start engine.**
- 3.1.5. Connect the cable's plug into the socket in the top end of the Memory Master. **Depress and hold red button** on Memory Master and plug the male plug into the vehicle's accessory/lighter socket. If either of the indicators shows red the Memory Master cannot be used on the vehicle - disconnect it. If neither indicator shows red then release the button - indicators will show green, indicating a good connection.
- 3.1.6. The Memory Master will now support electronic system memories and the vehicle battery may be removed.
Warning! The terminal of the positive battery cable will remain 'LIVE' and must be prevented from coming into contact with any metalwork. Insulate immediately by placing in a heavy duty plastic bag.
- 3.1.7. When any work on the vehicle has been completed, replace/reconnect vehicle battery and then switch off ignition.
- 3.1.8. **Depress and hold the red button** on the Memory Master and remove plug from the vehicle's accessory/lighter socket. Release button and disconnect Memory Master from slave battery.

Note: The Memory Master has a compartment which will take a 9V PP3 battery. This battery can be used to power the memory maintenance function, **but only if there will be no electrical drain other than memory support.** Since courtesy lamps, under bonnet lamps, instrument lamps etc. are likely to be illuminated it is recommended that a slave battery (as above) is used. When a 9V battery is used the unit must be turned 'On' and 'Off' with the switch on the left hand side. See fig.1.

Warning: As many vehicle 'cigarette lighter' sockets are now rated as 'accessory only' sockets, they are protected by a much lower rated fuse. This tool, when used through such a socket, should only be used for either the memory safe or alternator testing functions.

In these modes, use of any of the vehicle's accessories - such as the hi-fi unit, air conditioning, fan, demister etc. could cause the fuse to blow, thereby losing the power to the vehicle's electrical systems. Ensure that these are not operated, or already turned on, before turning on the ignition switch.

3.2. BATTERY TESTING

- 3.2.1. **Use Memory Master and cable with male cigarette lighter plug.**
- 3.2.2. Connect cable co-axial plug into socket in the top end of the Memory Master.
- 3.2.3. **Depress and hold red button** on Memory Master and push the male plug into the vehicle accessory / lighter socket. Release red button.
- 3.2.4. Turn ignition switch on **but do not start engine.** Switch on headlights and after one minute read voltage as shown on the Memory Master LED display. Compare with figures below.
- | | | |
|------------------------|---|-----------------------|
| Less than 11.5V | = | Low charge |
| 11.5 to 12.0V | = | Partial charge |
| Over 12.0V | = | High charge |

3.3. ALTERNATOR TESTING

- 3.3.1. **Install Memory Master as for battery testing.**
- 3.3.2. Start engine and let it run for at least 15 minutes.
- 3.3.3. With the engine at idle speed read the voltage shown on the LED display. Compare with figures below.
- | | | |
|------------------------|---|--------------------------------|
| Less than 13.0V | = | Output voltage too low |
| 13.0 to 14.4V | = | Normal |
| Over 14.4V | = | Output voltage too high |

Note: Alternatively, for this and the battery test, the Memory Master may be connected directly to the battery terminals using the clamp cable plugged into the side of the Memory Master. In this case the ignition does not have to be turned on for the battery test unless required to enable the headlights.

Environmental Protection



Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycle centre and disposed of in a manner which is compatible with the environment. 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.

Battery Removal



Remove the PP3 battery from the main casing by sliding open the battery hatch and removing the connector from the end of the battery. **Dispose of battery according to local authority guidelines.**

WARNING: Do not dispose of by fire. This could result in an explosion.



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's 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 product.

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 call us on 01284 757525 and leave your full name and address, including postcode.



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