



# DIAGNOSTIC SOCKET MEMORY SAFE EOBD 12V MODEL NO: VS2076

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 instruction manual



Wear eye protection



Wear protective clothing

## 1. SAFETY

### 1.1. GENERAL SAFETY.

- ✓ Observe standard workshop safety procedures when using the unit.
- ✓ Ensure that the vehicle ignition switch is turned OFF before connecting the unit.
- ✓ 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 the vehicle 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.
- ✓ 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 vehicle 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 the unit where there are flammable gases or liquids.
- WARNING! DO NOT** use the unit on any vehicles other than those with 12Volt systems.
- ✗ **DO NOT** use the unit if you suspect that the battery pack or the casing is damaged.
- ✗ **DO NOT** smoke or allow a spark or flame in the vicinity of the vehicle battery or engine.
- ✗ **DO NOT** get the unit wet or use in damp or wet locations or areas where there is condensation.
- ✗ **DO NOT** use the unit for any purpose other than that for which it is designed.
- ✓ When not in use store the unit in a safe, dry, childproof location.
- ✓ Ensure that the unit is fully charged before storage and recharge every 30 days.

### 1.2. CHARGER PLUG ELECTRICAL SAFETY.

#### **USE ONLY THE SUPPLIED CHARGER PLUG FOR CONNECTING THE CHARGER TO THE POWER SUPPLIER.**

- WARNING!** It is the user's responsibility to read, understand and comply with the following electrical instructions: You must ensure the risk of electric shock is minimised by the installation of appropriate safety devices. An RCCB (Residual Current Circuit Breaker) should be incorporated in the main distribution board. We also recommend that a RCD (Residual Current Device) is used with all electrical products, particularly portable device which is plugged into an electrical supply not protected by an RCCB. **You must** also read and understand the following instructions concerning electrical safety: **The Electricity at Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.  
**The Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of the appliance and the safety of the appliance operator. **If in any doubt about electrical safety, contact a qualified electrician.**
- ✓ **You must ensure that you:** Inspect the charger plug, cable and connector for wear and damage to ensure items are safe before connecting to the mains power supply.
- ✓ Check that the voltage marked on the charger plug is the same as the unit.
- ✓ Uncoil the cable between the charger plug and the unit.
- ✗ **DO NOT** pull the charger plug from the mains socket by the lead.
- WARNING! DO NOT** use any other type of charger with this product other than the supplied mains charger. Failure to observe this warning could result in injury and/or fire and will invalidate the warranty.
- ✗ **DO NOT** attempt to dismantle the charger plug.
- ✗ **DO NOT** use the charger plug to charge or power any other electrical item.
- WARNING!** The unit is powered by a sealed lead-acid battery which can be dangerous if not handled with care.
- ✓ Charge battery pack prior to first use. The battery will have been shipped in a low charge state.
- ✗ **DO NOT** charge battery pack when room temperature is below 50°F (10°C) or above 104°F (40°C).
- ✗ **DO NOT** attempt to recharge the battery pack by means of an engine generator or a DC power source.
- ✗ **DO NOT** short-circuit the battery pack by linking both terminals with a metal object.
- ✗ **DO NOT** store the unit in locations where the temperature may exceed 104°F (40°C).

- ❑ **WARNING!** Dispose of spent battery pack correctly and in accordance with local regulations as it contains acid.
- ✖ **DO NOT** attempt to dismantle the battery pack. For safety and environmental reasons **DO NOT** discard in domestic waste or by burning. **ONLY** discard or recycle according to local waste authority regulations.
- ❑ **WARNING!** The warnings, cautions and instructions in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

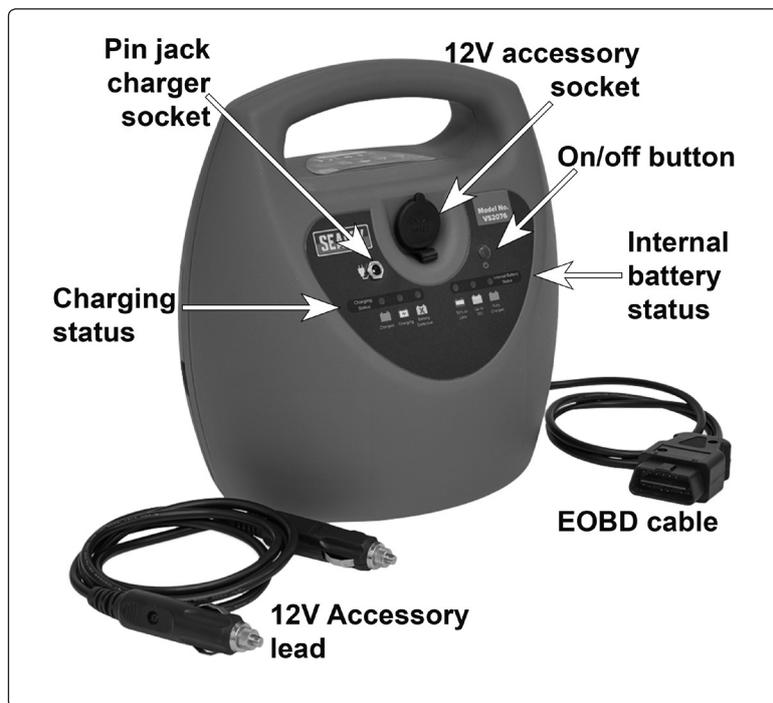
## 2. INTRODUCTION

Used to preserve the memory to on-board electronics whilst vehicle's own battery is disconnected. Saves valuable time spent re-programming lost codes. Can be connected via the vehicle's EOBD or vehicle accessory power socket. Unit features an internal 12V 7Ah sealed battery and LEDs provide battery condition and charge indicator. Supplied with mains charger.

## 3. SPECIFICATION

Model no: ..... VS2076  
 Battery type:..... Maintenance free AGM lead acid  
 Battery capacity: .....7Ah  
 Cable length:..... 1.3mtr  
 Connection:.....EOBD/Vehicle Accessory Socket  
 Weight:..... 3kgs

## 4. OPERATION



### 4.1. Charging the internal battery

- 4.1.1. Ensure that the battery is charged fully before use. The battery status panel shows:  
 Red: 50% charge or less. The memory safe should be charged before use.  
 Yellow: 50% to 75% charge. The memory safe may be used but should be recharged as soon as possible.  
 Green: fully charged.
- 4.1.2. To charge: insert the pin jack plug of the AC/DC charger into the charger socket.
- 4.1.3. Connect the charger to the electric supply and switch on.
- 4.1.4. When charging, the red light on charging status panel will light.
- 4.1.5. When fully charged, the green light will show.
- 4.1.6. A yellow light denotes a defective battery, which should be replaced.
- 4.1.7. If the red light does not extinguish after 24hrs charging, this also indicates a defective battery.

### 4.2. Using the memory safe

- 4.2.1. The AC/DC charger and the leads may be stored in the rear compartment when not in use.
- 4.2.2. Turn off all electrical loads on the vehicle (blowers, lights, radio etc.).
- 4.2.3. Connect the memory safe to the vehicle by means of the EOBD cable or the accessory lead.
- 4.2.3.1. If using the EOBD cable, connect the plug to the EOBD socket. The location of this can be found in the vehicle handbook.
- 4.2.3.2. To use the accessory lead, plug one end into the accessory socket on the unit and the other into the vehicle accessory socket.
- 4.2.3.3. Ensure that, if using the accessory lead, the ignition switch is turned to the 'ACC' setting. **DO NOT** move the key to the 'START' position, as the current draw may blow the fuse in the accessory socket circuit or the memory safe.
- 4.2.3.4. When a good connection is made using the accessory lead, the red LEDs in the plugs will light.
- 4.2.4. To activate the memory safe unit, press the on/off button for 3 seconds.
- 4.2.5. The green LED indicates that there is sufficient voltage in the internal battery to proceed and that good connections have been established. If either yellow or red are lit, recharge the memory safe battery.
- 4.2.6. With the green LED lit, it is safe to disconnect the vehicle battery.

- ❑ **Warning: Be aware that the battery leads will still be live; take care to insulate them to avoid a short circuit.**

- 4.2.7. Having replaced the vehicle battery and reconnected it, switch the memory safe off by pressing the on/off switch for a further 3 seconds. Disconnect the lead from the vehicle.  
**NOTE:** The unit will close down after 4 hours to save power. All six LEDs will light for 30 seconds as a warning; to re-energise, press the on/off button again for 3 seconds.
- 4.3. Using as a 12V DC power source**
- 4.3.1. The memory bank may be used to power a 12V DC device via the accessory socket.
- 4.3.2. Ensure that the device is switched off before connecting to the memory safe. Switch on when connected.
- 4.3.3. If the device draws more than 4A or has a short circuit, the internal circuit breaker in the memory safe will operate. If this happens, disconnect the 12V device. The circuit breaker will reset automatically once the overload has been removed.
- × **DO NOT** use as a power source whilst the unit is connected to a vehicle: this will drain the internal battery, reducing the operating time.

## 5. MAINTENANCE

### 5.1. Battery replacement/removal

- 5.1.1. Open the rear compartment and withdraw the battery. Disconnect the spade terminals to release.
- 5.1.2. To replace the battery: reconnect the spade terminals, observing the correct polarity and place the battery back into position.
- 5.1.3. Close the rear compartment.

### 5.2. Cleaning

- × **DO NOT** use solvent or abrasive cleaners on this product.

Parts support is available for this product. To obtain parts, email [sales@sealey.co.uk](mailto:sales@sealey.co.uk) or telephone 01284 757500

#### 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 protective way. Contact your local solid waste authority for recycling information.

#### BATTERY REMOVAL



For battery removal details, see section 5.1.  
 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.

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