



# PREMIER 12/24V 5000A ROADSTART® JUMP STARTER

MODEL NO: **PRS5000**

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



Do not expose to rain



Use in a well ventilated area



Keep away from sparks and flame - battery could emit explosive gases



Corrosive substance

## 1. SAFETY

**NOTE:** This device has been designed for trained professionals and according to the codes of practice valid at that time. It is safe to operate, but please make sure to read and understand this user manual beforehand. It can be dangerous if it is used by non-professionals or in an incorrect way. The manufacturer cannot be held responsible for any incorrect use of this device. Please follow these steps for maximum safety.

### 1.1. ELECTRICAL SAFETY

- ❑ **WARNING!** It is the user's responsibility to check the following:
  - Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- ✗ **DO NOT** use worn or damaged cables, plugs or connectors.
- ✓ Ensure that any faulty item is repaired or is replaced immediately by a qualified electrician.
- ✓ If the cable or plug is damaged during use, switch off the electricity supply and remove from use.  
**Ensure that repairs are carried out by a qualified electrician.**
- ✓ Sealey recommend that an RCD (Residual Current Device) is used with all electrical products.
- ✓ **Important:** Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse.
- ✗ **DO NOT** pull or carry the appliance by the power cable.
- ✗ **DO NOT** pull the plug from the socket by the cable. Always wear safety equipment. This includes goggles, gloves, ear protection and appropriate attire.
- ✓ The battery charger must only be plugged into an earthed socket outlet.

### 1.2. GENERAL SAFETY

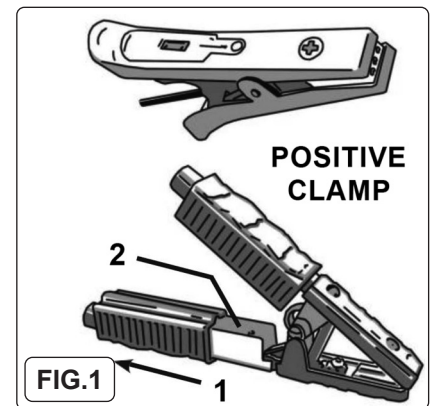
**Modern vehicles contain extensive electronic systems. You are required to check with the vehicle manufacturer, for any specific instructions regarding the use of this type of equipment on each vehicle.**

**No liability will be accepted for damage/injury, where this product is not used in accordance with all instructions.**

**PLEASE SAVE THIS OWNER'S MANUAL AND READ BEFORE EACH USE.**

- ✓ This manual will explain how to use the unit safely and effectively. Please read and follow these instructions and precautions carefully.
- ✓ Always keep this manual close to this device.
- ✓ If someone else uses the Roadstart, make sure they are well informed on how to use it safely, and have read and understood the operating instructions. The longevity of the Roadstart depends on it.
- ✓ Charge the Roadstart's internal batteries immediately after purchase, after each use and as often as possible. It is highly recommended to leave the Roadstart permanently connected to the automatic charger.
- ✓ Read the entire manual before using this product. Failure to do so could result in serious injury or death.
- ✓ Children from age 8 years and above, persons with reduced physical, sensory, or mental capabilities those with lack of experience and knowledge can use the appliance, if they have been given supervision or instruction concerning use of the appliance in a safe way to understand the hazards involved.
- ✓ Keep out of reach of children.
- ✓ Children shall **NOT** play with the appliance.
- ✓ Always use this device in a well-ventilated area. **DO NOT** use in or near explosive or flammable areas.
- ✗ **DO NOT** put fingers or hands into the product.
- ✗ **DO NOT** expose the Roadstart to rain or snow.
- ✓ Only use accessories, spares or attachments approved by the manufacturer
- ✗ **DO NOT** modify the device.
- ✓ Repairs and servicing should be performed by an authorised service centre only.
- ✓ Only use the supplied charger.
- ✓ Damaged chargers, cables or plugs must be immediately fixed or replaced.
- ✗ **DO NOT** leave the device discharged. Always make sure it is fully charged, otherwise it could void the warranty.
- ✗ **DO NOT** short circuit the device. **DO NOT** have the clamps touch each other, or any metal part at the same time.
- ✗ **DO NOT** submerge in water, burn or throw away in domestic waste.
- ✓ Safety equipment, such as fire extinguisher or water to rinse eyes, should always be nearby.

- ✓ Ensure someone else is nearby in case of emergency.
- ✗ **DO NOT** smoke, use a lighter or matches near batteries.
- ✗ **DO NOT** wear vinyl clothing when using this device, because it could create electric sparks.
- ✓ Remove personal metal items when working near motors & batteries.
- ✓ Always read the vehicle's user manual before trying to jump start it.
- NOTE:** This device is only meant to start lead acid batteries, and not lithium or dry cell batteries that could be found in home appliances for example. Lead can be dangerous for pregnancy.
- ✗ **DO NOT** allow children to use the device.
- ✗ **DO NOT** leave the device unattended.
- ✓ Always keep this device in the OFF position when not in use.
- ✓ If the Roadstart receives a sharp knock or blow, it must be checked by a qualified service agent before being used.
- ✓ Always attach the clamps correctly on the device after each use.
- **WARNING!** Battery acid and gases can be dangerous, never touch/inhale them.
- ✓ Be careful when operating inside motor engine bays. Moving parts may cause injuries.
- ✗ **DO NOT** start or recharge a frozen (very cold) battery. It could be dangerous.
- ✓ Always check the voltage of the vehicle's battery before trying to jump start it.
- ✓ Please recycle this device, its batteries and packaging properly.
- ✓ Always keep the device at room temperature (15-25°C) when stored.
- ✗ **DO NOT** leave for an extended period of time in damp, cold or warm environments.
- **WARNING!** In order to avoid a hazard due to inadvertent resetting of the cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.
- ✓ During charging, the battery must be placed in a well-ventilated area
- ✓ The battery charger must only be plugged into an earthed socket-outlet
- ✓ The battery terminal not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line.
- ✓ After starting, disconnect the chassis connection and then the battery connection.
- **WARNING!** For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance.
- **WARNING!** The appliance **MUST** be disconnected from its power source during service and when replacing parts and if removal of the plug is foreseen, it shall be clearly indicated that the removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed.



## 2. INTRODUCTION

High performance 2 x 22Ah AGM batteries, specially formulated to jump-start engines up to 5L diesel and 8L petrol. Easy-to-read digital voltmeter which can also be used to check the voltage of the vehicle's alternator. 0/12/24V Rotary switch for spark-free connection.

Supplied with heavy-duty brass clamps with inbuilt short circuit protection fuse (in the + clamp). Reverse polarity alarm, both visual and audible. 12V output socket can be used as a memory saver, as well as powering accessories such as mini compressors. Supplied with an automatic 12V 3A smart charger and maintainer. Made in Switzerland. 2 Year Guarantee.

## 3. SPECIFICATION

<b>Model No:</b>	<b>PRS5000</b>	<b>Integral Air Compressor:</b>	No
<b>Auxiliary Output:</b>	12V	<b>Peak Amps:</b>	12/24V - 5000/2500A
<b>Cable &amp; Clamp Length:</b>	1.5m	<b>12V Start Power (hp)</b>	350 - 500
<b>Cold Cranking Amps:</b>	12/24V - 2000/1000A	<b>24V Start Power (hp)</b>	500-700
<b>Fuse Rating:</b>	500A	<b>Voltage:</b>	12/24V
<b>Weight:</b>	20.5kg		

Item	Description
1	Polarity Alarm
2	Voltmeter
3	Test Button
4	Charge Socket
5	OFF/Voltage Selector
6	Circuit Breaker



FIG.2

## 4. OVERVIEW

### 4.1. SAFETY FUSE

The 500A fuse is located inside the handle of the positive clamp (fig.1).

Fuses are very easy to change. First open the window with a screwdriver and then remove the two fixings holding the fuse. Be careful not to remove the two fixings behind the fuse. Then replace the fuse and tighten the two fixings to hold the fuse.

### 4.2. OFF/12/24V SWITCH

The unit is equipped with a rotary switch that can be either set to OFF / 12V / 24V. To select the proper voltage, please refer to the battery of the vehicle (by reading the user manual of the vehicle itself). Ensure the clamps are properly connected and that there is no reverse polarity. Once you have made sure of the voltage, either turn the switch to 12V or 24V. It is important to select the correct voltage to avoid damaging the vehicle or Roadstart and to avoid any explosion due to over charge. Once the vehicle has started, please remove first the negative clamp, then turn the Roadstart OFF and then remove the positive clamp.

### 4.3. REVERSE POLARITY ALARM

The reverse polarity alarm will light when it detects a reverse polarity. Set the control switch to the OFF position. Connect the clamps to the vehicle's terminals or battery and at this moment the alarm will emit a noise and light if it detects a reverse polarity connection. If the clamps are properly connected, nothing will happen. In this case, you can then select the required voltage on a 12/24V model before jump starting your vehicle.

## 5. OPERATION

**NOTE:** It is recommended that the Roadstart is left on charge between uses.

**NOTE:** The battery terminal not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line. After starting, disconnect the chassis connection and then the battery connection.

### 5.1. CHARGING INTERNAL BATTERIES

**WARNING!** To recharge the batteries only use the detachable supply unit provided with the unit.

5.1.1. Set voltage selector switch to 12V position.

5.1.2. Connect charger power unit lead to external 230V supply. **NOTE:** 5A fuse required. Only use supplied unit.

5.1.3. Connect charging plug lead to charger power unit.

5.1.4. Insert charging plug to Charge Socket on unit.

5.1.5. Press and hold the Test button to display the internal battery voltage.

5.1.6. Green LED on charger power unit lights continuously when batteries are full

### 5.2. Ensure you have read the safety section of this manual before using the device and follow the below:

5.2.1. Always wear safety equipment before trying to jump start your vehicle.

5.2.2. Make sure the area is well ventilated and that the terminals are clean.

5.2.3. Make sure that your unit is fully charged before attempting to jump start.

5.2.4. Make sure that the voltage selector switch is on "OFF" or that the red voltage connector plug is unplugged.

5.2.5. Make sure that the cables are not in the path of moving parts of the vehicle's engine.

5.2.6. Turn OFF the vehicle air conditioning, radio and lights before attempting the jump start.

### 5.3. STARTING

5.3.1. Connect the positive (red) clamp to the positive terminal.

5.3.2. Connect the negative (black) clamp to the frame of the vehicle (ground).

5.3.3. You have a 12/24V unit, choose the appropriate voltage with the voltage selector switch.

5.3.4. Start your engine and stay clear of the battery and the device while jump-starting. Make sure that the unit cannot fall inside the engine compartment.

5.3.5. Once the engine is started, first disconnect the black (negative) clamp, then place the voltage selector switch to OFF or unplug the charging plug from the 12/24V unit.

5.3.6. Disconnect the red (positive) clamp.

5.3.7. Store both clamps immediately in their respective placing.

5.3.8. Recharge the device as detailed in section 5.1.

**IMPORTANT:** Should the vehicle refuse to start within 10 seconds, have the device cool down for 3 minutes before the next attempt. If it still doesn't start, have your car battery or engine checked. It may be that the car battery is defective and refuses to accept the current from the jump starter. This Roadstart can also be used as a source of power. For example, you can use a 12V OBD Memory Saver cable or 12V LED lights which you can connect to the socket of the Roadstart. Please always recharge the device after use.

### 5.4. CHECKING INTERNAL BATTERY STATE AND ALTERNATOR OUTPUT

5.4.1. If unit is set to 12V / 24V position and Test button pressed, Roadstart displays internal battery charge. When the switch is in 12V mode it will read the voltage of one battery of the Roadstart. When set to 24V it will read voltage of both batteries. (12V > 12.8V, 24V > 25.6V)

5.4.2. If Roadstart internal battery is fully charged, with the clamps attached and the engine running at 2000-3000 rpm, after 10 seconds the display will show the alternator voltage output (typically 14.3V - 14.5V). Disconnect the unit clamps within 15 seconds.

## 6. MAINTENANCE

**NOTE:** That the appliance shall be disconnected from its power source during service and when replacing parts and, if that the removal of the plug is foreseen, it shall be clearly indicated that the removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed.

### 6.1. GENERAL ADVICE

6.1.1. Only qualified and experienced technicians to carry out maintenance.

6.1.2. Cleaning and user maintenance on the appliance shall not be made by children without supervision.

6.1.3. Ensure the device is fully charged. Leaving the unit discharged would damage it and void the warranty.

6.1.4. Only use the supplied battery charger to recharge the device.

6.1.5. When not in use for an extended period of time, always make sure it is fully charged at least once a month.

### 6.2. CLEANING

6.2.1. Clean the device with a soft damp cloth. **DO NOT** use harsh chemicals/detergent which may cause damage to the casing.

6.2.2. Ensure the device is dry before storage or use.

### 6.3. STORAGE

- 6.3.1. Store in a clean, dry child-proof location.
- 6.3.2. Keep the device at mild/room temperature. Extreme temperatures will damage the batteries.

### 6.4. DISPOSAL

- 6.4.1. The batteries must be removed from the appliance before it is scrapped
- 6.4.2. The appliance must be disconnected from the supply mains when removing the batteries.
- 6.4.3. The batteries are to be disposed of safely.
- 6.4.4. See footers for information of WEEE regulations and environment protection.

## 7. FREQUENTLY ASKED QUESTIONS

### 7.1. My Roadstart doesn't have power at the clamps.

A. Please check the On/Off switch, the 12/24V connector or that the Safety Fuse has not burst. Also reset the 20A circuit breaker if it has been operated (fig.1).

### 7.2. The Roadstart is not taking the charge.

A. Please check the fuse inside the charger or the tip of the charger. Please also check that the charger is working by checking its voltage output on the tip with a voltmeter.

### 7.3. Can a battery, charger or clamp be replaced?

- 7.3.1. A. Yes, spares available from Jack Sealey Ltd.

Parts support is available for this product. Please 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

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 24 months from purchase date, proof of which is required for any claim.

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