



INSTRUCTIONS FOR:

ROADSTART® EMERGENCY POWER PACK 12V PEAK AMPS 1700 DEKRA APPROVED

MODEL NO: **PBI1812S**

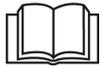
Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.



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.

1. SAFETY

Safety Markings/Symbols



Read Instructions Before Use.



Do Not Expose To Rain.



Risk Of Explosion.



Caution: Risk of Electric Shock.



Use In A Well Ventilated Area.



Keep Away From Sparks & Flame - Battery Could Emit Explosive Gases.

IMPORTANT: To reduce the risk of a battery explosion, follow these instructions and those published by the battery manufacturer and the manufacturer 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

- ✓ Use in a well ventilated area.
- ✓ Ensure there is another person within hearing range, or close enough to come to your aid should a problem arise, when working near a lead-acid battery.
- ✓ Have fresh water and soap nearby in case battery acid contacts skin, clothing or eyes.
- ✓ Wear safety eye protection and protective clothing. Avoid touching eyes while working with a battery.
- ✓ 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.

1.2 IMPORTANT SAFETY INSTRUCTIONS

- ✓ Familiarise yourself with the applications, limitations and potential hazards of the RoadStart.
- ✓ Keep the unit in good working order and condition. Replace damaged parts immediately.
- ✓ Use only recommended parts. To use unapproved parts may be dangerous and will invalidate your warranty.
- ✓ The RoadStart must only be opened and checked by qualified service personnel. **DO NOT** disassemble the unit for any reason.
- ✓ Keep children and unauthorised persons away from the work area.
- ✓ Keep work area clean and tidy and free from unrelated materials. Ensure that there is adequate lighting.
- ✓ If the RoadStart receives a sharp knock or blow, it must be checked by a qualified service agent before being used.
- ✓ When not in use re-charge every 30 days.
- x **DO NOT** smoke or allow a spark, or flame in the vicinity of the battery or engine.
- x **DO NOT** drop any metal item onto the battery as it may spark or short circuit the battery, which could cause an explosion.
- x **DO NOT** use RoadStart to recharge dry cell batteries that are commonly used with home appliances. These batteries may explode and cause personal injury and damage to property.
- x **DO NOT** charge or boost a frozen battery.
- x **DO NOT** use attachments other than those recommended. To do so may risk damage to the unit and other equipment and possible personal injury.
- x **DO NOT** pull or carry the unit by its cables and do not pull the negative and positive clamps from the battery terminals.
- x **DO NOT** operate in vicinity of flammable liquids or gases.
- x **DO NOT** recharge the unit with plugs, cables or attachments that are damaged. Replace such items immediately.
- x **DO NOT** use this product to perform a task for which it is not designed.
- x **DO NOT** store the unit in damp or wet locations or where the temperature may exceed 50°C.
- x **DO NOT** submerge the unit in water.
- x **DO NOT** use whilst under the influence of drugs, alcohol or intoxicating medication.
- x **DO NOT** leave the unit in a totally discharged state for an extended period of time as this may result in permanent damage.
- x **DO NOT** cross-connect the power leads from the RoadStart to the battery. Ensure that positive is to positive and negative is to negative.
- ✓ Ensure that the unit is fully charged before storage.

1.3 ELECTRICAL SAFETY (with respect to mains chargers)

- WARNING!** It is the user's responsibility to check the following:

You must check the AC adaptor to ensure that it is safe before using. **You must** inspect the power supply lead, plugs and all electrical connections for wear and damage.

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 recommend that an RCD (Residual Current Device) is used with all electrical products.

It is particularly important to use an RCD with portable products that plug into an electrical supply not protected by an RCCB. If in doubt consult a qualified electrician. You can obtain a Residual Current Device through your Sealey dealer.

You must read and understand instructions concerning electrical safety.

- 1.3.1 The **Electricity At Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified person, using a Portable Appliance Tester (PAT), at least once a year.
- 1.3.2 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.
- 1.3.3 **DO** ensure that the insulation on all cables and the product itself is safe before connecting to the mains power supply.
- 1.3.4 **DO** ensure that cables are always protected against short circuit and overload.
- 1.3.5 **DO** regularly inspect power supply, leads, plugs for wear and damage and power connections to ensure that none is loose.
- 1.3.6 **DO** check product voltage is the same as power supply to be used and check that all fused plugs are fitted with the correct capacities.

2. INTRODUCTION

22Ah Professional grade, high output AGM battery especially formulated to jump start vehicles. Fully sealed battery enables the unit to be stored in any position. Features a lightweight, high impact casing, which is durable and corrosion proof for easy portability. Battery status LEDs indicate to the user when the battery is at full power, 75% charge, 50% charge or less and when the unit needs to be recharged. A fusible link integrated in the output cable gives increased protection to the unit, while making for an easier fuse change without disassembly. On/off switch for safety and control. Features 12V accessory outlet including overload and short circuit protection.

3. SPECIFICATION

Model:PBI1812S
Starting Current:323A
Peak Amps:1700A
Voltage:.....12V
Auxiliary Output:12V
Cable & Clamp Length:0.6mtr
Weight:7.2kg

4. OPERATION

- WARNING! RISK OF CONTACT WITH BATTERY ACID. BATTERY ACID IS A HIGHLY CORROSIVE SULPHURIC ACID.**

4.1. Preparing to use the RoadStart

- 4.1.1. Clean the battery terminals before using the RoadStart. During cleaning, keep airborne corrosion from coming into contact with your eyes, nose and mouth. Use baking soda and water to neutralise the battery acid and help eliminate airborne corrosion. **DO NOT** touch your eyes, nose or mouth.
- 4.1.2. Determine the voltage of the battery by referring to the owner's manual and make sure the output voltage of the RoadStart is correct.
- 4.1.3. Make sure the RoadStart cable clips make tight connections.

4.2. Connecting to a battery

- WARNING! A SPARK NEAR THE BATTERY MAY CAUSE AN EXPLOSION. REDUCE THE RISK OF A SPARK NEAR A BATTERY:**

- 4.2.1. Attach the output cables to the battery and chassis as indicated below. Never allow the output clips to touch each other.
- 4.2.2. Position the DC cables to reduce the risk of damage to the bonnet, door and moving or hot engine parts.
Note: If it is necessary to close the bonnet during the jump starting process, ensure the bonnet does not touch the metal part of the battery clips or cut the insulation of the cables.
- 4.2.3. Stay clear of fan blades, belts, pulleys and other parts which can cause injury.
- 4.2.4. Determine which post of the battery is grounded (connected) to the chassis. If the negative post is grounded to the chassis (as in most vehicles), see step 4.2.5. If the positive post is grounded to the chassis, see step 4.2.6.
- 4.2.5. For a negative-grounded vehicle, connect the POSITIVE (RED) clip from the roadstart to the POSITIVE (POS, P, +) ungrounded post of the battery. Connect the NEGATIVE (BLACK) clip to the vehicle chassis or engine block away from the battery. **DO NOT** connect the clip to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
- 4.2.6. For a positive-grounded vehicle, connect the NEGATIVE (BLACK) clip from the RoadStart to the NEGATIVE (NEG, N, -) ungrounded post of the battery. Connect the POSITIVE (RED) clip to the vehicle chassis or engine block away from the battery. **DO NOT** connect the clip to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
- 4.2.7. When disconnecting the RoadStart, remove the clip from the vehicle chassis, then remove the clip from the battery terminal, in that order.

4.3. Charging the internal battery of the RoadStart

IMPORTANT: CHARGE IMMEDIATELY AFTER PURCHASE, AFTER EACH USE AND EVERY 30 DAYS TO KEEP THE ROADSTART INTERNAL BATTERY FULLY CHARGED. NEVER WAIT UNTIL THE ROADSTART IS COMPLETELY DISCHARGED BEFORE RECHARGING.

- 4.3.1. **IMPORTANT:** *The switch must be in the OFF position while checking the status and charging the unit.*



1. Professional Grade, High Output AGM Battery
2. Charging Status LEDs
3. On/Off Switch
4. Internal Battery Status Switch
5. Internal Battery Status LEDs
6. 12 Volt DC Power Outlet
7. Heavy Duty, Battery Clips
8. Durable Polypropylene Case
9. Clamp Holder

- 4.3.2. TO CHECK THE INTERNAL BATTERY'S CHARGE STATUS, MAKE SURE THE WALL CHARGER IS NOT PLUGGED INTO THE ROADSTART, THEN PRESS THE BATTERY STATUS BUTTON ON THE FRONT OF THE ROADSTART. The LED lights will indicate the charge level as follows:
- A red LED indicates a 50% or less charge and you should immediately recharge the RoadStart.
 - A yellow LED indicates a 50 to 75% charge. The RoadStart may be used but should be recharged as soon as possible.
 - A green LED indicates the internal battery is fully charged.
 - The CHARGING (red) LED indicates the RoadStart is charging (connected to an AC power source.) At full charge, the CHARGED (green) LED will light.
- 4.3.3. **IMPORTANT:** Only use the charger that was included with the RoadStart to charge the internal battery of the RoadStart. Using any other charger or using the included charger for any other purpose could result in personal injury or property damage.
- 4.3.4. To charge, plug the included wall charger into the charger plug on the back of the RoadStart.
- 4.3.5. Confirm the AC outlet voltage matches the input voltage of the wall charger.
- 4.3.6. Plug the wall charger into an electrical wall outlet. Make sure to place the charger on a dry, nonflammable surface like metal or concrete.
- 4.3.7. While the RoadStart is charging, the CHARGING (red) LED will be lit. When the internal battery is fully charged, the CHARGED (green) LED will light. Complete charging may take up to 30 hours. The RoadStart is then ready to use.
- 4.3.8. The charger will automatically go into maintain mode and maintain the battery at full charge without damaging it. **IMPORTANT: DO NOT** use the RoadStart while charging the internal battery.
- 4.4. **Operating Instructions: Jump Starting a Vehicle Engine**
- WARNING! A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION. TO REDUCE THE RISK OF A SPARK NEAR THE BATTERY:**
1. Turn the vehicle's ignition OFF before making cable connections.
 2. Connect the RoadStart to the vehicle's battery as described in Section 4.
 3. Turn the RoadStart ON/OFF switch to the ON position.
 4. Crank the engine. If the engine does not start within 3-8 seconds, stop cranking and wait at least 1 minute before attempting to start the vehicle again. (This permits the RoadStart battery to cool down.)
 5. After the engine starts, turn the RoadStart ON/OFF switch to the OFF position.
 6. Disconnect the RoadStart from the vehicle, as described in Sec. 4.2.
 7. Return the battery clips to the clamp holders. Recharge the RoadStart as soon as possible after use.
- 4.4.1. When using the other features of the RoadStart, always observe the following steps:
1. Ensure the battery clips are securely clipped on the clamp holders.
 2. Charge the RoadStart as soon as possible after using the feature.
- 4.5. **Operating Instructions: Powering a DC device**
- The RoadStart is a power source for all 12V DC accessories that are equipped with a 12V accessory plug. Use it for power cuts and fishing or camping trips. Make sure the device to be powered is OFF before inserting the 12V DC accessory plug into the 12V DC accessory outlet.

1. Open the protective cover of the DC power outlet on the front of the RoadStart.
2. Plug the device into the outlet, and turn the device on (if required).
3. If the device draws more than 15A or has a short circuit, the internal circuit breaker of the RoadStart will trip and disconnect the power to the device. Disconnect the device and the breaker will automatically reset.

IMPORTANT: The DC power outlet is wired directly to the internal battery. Extended operation of a 12V device may result in excessive battery drain. Recharge immediately after unplugging the device.

5. MAINTENANCE

- 5.1.** Unplug the charger from the RoadStart before attempting any maintenance or cleaning.
- 5.1.1.** Use a dry cloth to wipe all battery corrosion and other dirt or oil from the battery clamps, cords and the RoadStart case. **DO NOT** use cleaning fluids.
- 5.1.2.** Ensure that all of the RoadStart components are in place and in good working condition.
- 5.1.3.** All other servicing should be performed by qualified service personnel.
- 5.2 Fuse Replacement For The RoadStart**
The RoadStart is equipped with an external fuse to protect the battery from overload.
- WARNING** Disconnect the charger unit from mains supply.
- 5.2.1.** To replace the fuse if it has blown, use a flat bladed screwdriver to gently push in the fuse cover release clips at each end, to release the cover.
- 5.2.2.** Undo the two 13mm nuts and replace the fuse.
- 5.2.3.** Refit the cover.
- 5.3. Storage**
- 5.3.1.** Unplug the charger from the RoadStart before attempting any maintenance or cleaning.
- 5.3.2.** Use a dry cloth to wipe all battery corrosion and other dirt or oil from the battery clamps, cables and the RoadStart case. **DO NOT** use cleaning fluids.
- 5.3.3.** Ensure that all of the RoadStart components are in place and in good working condition.
- 5.3.4.** All other servicing should be performed by qualified service personnel.

6. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
The RoadStart won't start my vehicle.	Clips are not making a good connection to the battery. The RoadStart is not charged. The vehicle's battery is defective.	Check for poor connection to battery and chassis. Make sure connection points are clean. Rock clips back and forth for a better connection. Check battery charge status by pressing the button on the front of the RoadStart. Have the battery checked.
The RoadStart won't power a 12V device.	The 12V device is not turned on. The RoadStart's battery is not charged. The 12V device draws more than 15A or has a short circuit.	Turn on the 12V device. Check the battery's charge status by pressing the button on the front of the RoadStart. See LED indicator's section of this manual. Disconnect the 12V device. The internal breaker will automatically reset after a minute or two. Try the 12V device again. If it happens again, replace the 12V device.
The battery in the RoadStart won't hold a charge.	The battery is defective (will not accept a charge).	Have the battery checked.



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.



Battery Removal

1. Place the road start unit front side down.
2. Remove all screws holding the casing together and lift off the back half off the unit.
3. Disconnect the wires from the battery terminals, taking care to avoid accidental arcing off the terminals.
4. Lift the battery out of the casing.

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.

Parts support is available for this product. To obtain a parts listing and/or diagram, please log on to www.sealey.co.uk, email sales@sealey.co.uk or telephone 01284 757500.

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.

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



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