

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: BEFORE USING THIS PRODUCT, PLEASE READ THE INSTRUCTIONS CAREFULLY. MAKE CAREFUL NOTE OF SAFETY INSTRUCTIONS, WARNINGS AND CAUTIONS. THIS PRODUCT SHOULD ONLY BE USED FOR ITS INTENDED PURPOSE. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. RETAIN THESE INSTRUCTIONS FOR FUTURE USE.**

## 1. SAFETY INSTRUCTIONS



- WARNING! RISK OF EXPLOSIVE GASES.** Working in the vicinity of a lead acid battery is dangerous because they can generate explosive gases. It is important to remember that batteries generate explosive gases during normal operation.



- WARNING!** This equipment contains a sealed, non-spillable lead acid battery. This must be disposed of in accordance with local regulations.

### **IMPORTANT WARRANTY INFORMATION: KEEP YOUR ROADSTART HEALTHY**

Read and understand the general safety and operating instructions before use. The following information is intended to help you keep the product in top working order.

**NOTE – The battery in this unit is a consumable item and its ability to accept charge will reduce over time. We will warranty it against mechanical and electrical defect for a period of one year - this does not cover fair wear and tear.**

If the battery is not properly charged before first use, or regularly conditioned, its capacity will diminish. Under these circumstances we will not replace the battery even if it is less than one year old.

**You can help prolong the life cycle of the battery by following a few simple guidelines.**

- Plug in your new Roadstart to the mains transformer and make an INITIAL charge lasting 38 hours.
- Ensure the unit is fully charged before storage.
- **DO NOT** leave the Roadstart for longer than 2 months without putting it on charge.
- **DO NOT** attempt to start a vehicle when the Roadstart battery voltage is reduced to less than 7Volts.
- **DO NOT** drop or roughly handle the Roadstart – this will break or disjoin the battery terminals rendering the battery useless and the warranty void.
- **DO NOT** use any other charger, other than the one supplied, to recharge the battery.

**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

- ✓ 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 two months.
- ✗ **DO NOT** touch positive and negative clamps together as this could cause an explosion.
- ✗ **DO NOT** smoke or allow a spark, or flame in the vicinity of the battery or engine.
- ✗ **DO NOT** drop any metal item onto the battery as it may spark or short circuit the battery, which could cause an explosion.
- ✗ **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.
- ✗ **DO NOT** charge or boost a frozen battery.
- ✗ **DO NOT** use attachments other than those recommended. To do so may cause damage to the unit and other equipment and possible personal injury.
- ✗ **DO NOT** pull or carry the unit by its cables and do not pull the negative and positive clamps from the battery terminals.
- ✗ **DO NOT** operate in vicinity of flammable liquids or gases.
- ✗ **DO NOT** recharge the unit with plugs, cables or attachments that are damaged. Replace such items immediately.
- ✗ **DO NOT** use this Roadstart to perform a task for which it is not designed.
- ✗ **DO NOT** store the unit in damp or wet locations or where the temperature may exceed 50°C.
- ✗ **DO NOT** submerge the unit in water.
- ✗ **DO NOT** use whilst under the influence of drugs, alcohol or intoxicating medication.
- ✗ **DO NOT** leave the unit in a totally discharged state for an extended period of time as this may result in permanent damage to the battery.
- ✗ **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.

**1.4 COMPRESSOR SAFETY (RS122 ONLY)**

- ✓ Keep children and non essential persons away from the inflation area.
- ☐ **WARNING!** This compressor is capable of producing a high pressure (100psi). **DO NOT** inflate any item beyond its maximum capacity.
- X **DO NOT** direct inflation hose connector head at yourself, others or animals.
- X **DO NOT** leave the compressor operating unattended. Always monitor the inflation pressure gauge.
- X **DO NOT** carry by the hose, or yank the hose from an inflation valve.
- X **DO NOT** pull the power cable from the cigarette lighter socket by the power lead.
- X **DO NOT** get the compressor wet or use in the rain.
- X **DO NOT** use the compressor for a task it was not designed to perform.
- X **DO NOT** operate the compressor when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- X **DO NOT** operate the compressor if any parts are missing or the generator is damaged as this may cause failure and/or possible personal injury.

**NOTE:** The pressure gauge is not a calibrated instrument. We recommend use of an approved dial/pressure gauge for a definitive reading.

**2. INTRODUCTION AND SPECIFICATION**

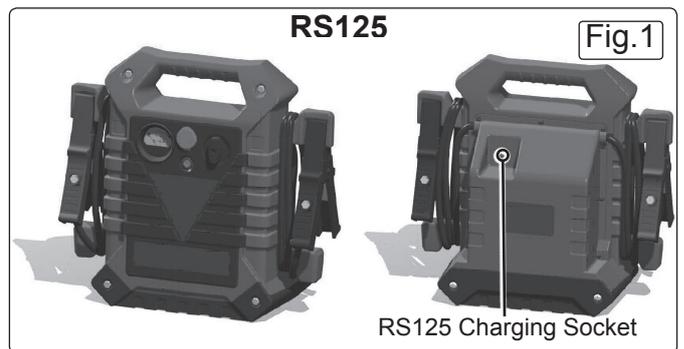
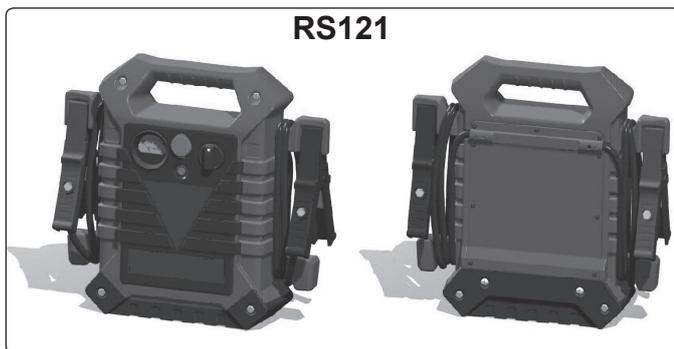
**2.1 Introduction**

Composite case with battery clip storage lugs and carry handle. Easy read, colour coded analogue gauge measures battery condition and charge indicator. Test cycle button gives true battery indication. 230Volt charger with automatic power cut-off prevents damage to battery whilst charging from the mains. Fitted with 12Volt power socket that will accept any 12Volt device with a cigarette lighter type plug. Supplied with mains charger and double plug adaptor for in-car charging.

RS122 has Integral air compressor with pressure gauge for topping/pumping up tyres.

**2.2 Specification**

Models	RS121	RS122	RS125
Cold Cranking amps.....	400A	400A	12V - 1200A / 24V - 600A
Peak Amps .....	900A	900A	12V - 3000A / 24V - 1500A
Voltage.....	12V	12V	12V or 24V Switchable
Auxiliary Output .....	12V	12V	12V
Cable and Clamp Length.....	1mtr.	1mtr.	1mtr.
Weight.....	10kg	11kg	15kg
Compressor .....	No	Yes / Max. 100psi	No



### 3. CHARGING INSTRUCTIONS

**WARNING! YOU MUST FOLLOW SAFETY INSTRUCTIONS**



#### 3.1 Initial Charging Procedure

3.1.1 When first used, the roadstart unit should be charged for a minimum of 72 hours. The Roadstart can be left plugged into the mains indefinitely as the internal PCB has an automatic float charging circuit which will not allow overcharging.

#### 3.2 Recharging Using the Mains Adaptor

**IMPORTANT: When recharging the 12V/24V version (RS125), the VOLTAGE switch must be set in the 12V position.**

3.2.1 The first and preferred method of charging the RoadStart is using the mains adaptor. The RS121 and RS122 chargers insert into the front 12Vdc socket (Fig.2), the RS125 has a charging jack that is inserted into the charge port, located on the upper rear panel (Fig.1). If using model number RS125 ensure the voltage switch is set in the 12V position.

3.2.2 Plug the charger into a 230Vac mains supply and turn on.

3.2.3 Charging progress can be monitored by pressing the Test Button (Fig.2) and checking the Battery Meter (Fig.2). Do not stop charging until the battery meter indicates the unit is fully charged.

3.2.4 When not in use, the unit can be left connected to the mains charger as the internal PCB has an automatic float charging circuit which will not allow overcharging.

#### 3.3 Recharging Using the Vehicle Charger.

Note: Always use the mains charging facility in preference to vehicle charging when available.

3.3.1 Start the vehicle engine.

3.3.2 Plug one end of the power lead (Fig.3) into the 12Vdc socket (Fig.2) on the unit and the other end into the vehicle cigarette lighter outlet.

3.3.3 Depress the test button once every hour to check the power level.

#### WARNING! DO NOT OVERCHARGE

3.3.4 The Vehicle Charging method is not an automatic charging method. Frequent monitoring of the charging process is the only safe way of ensuring the unit is not overcharged.

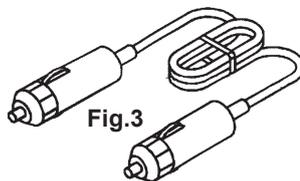
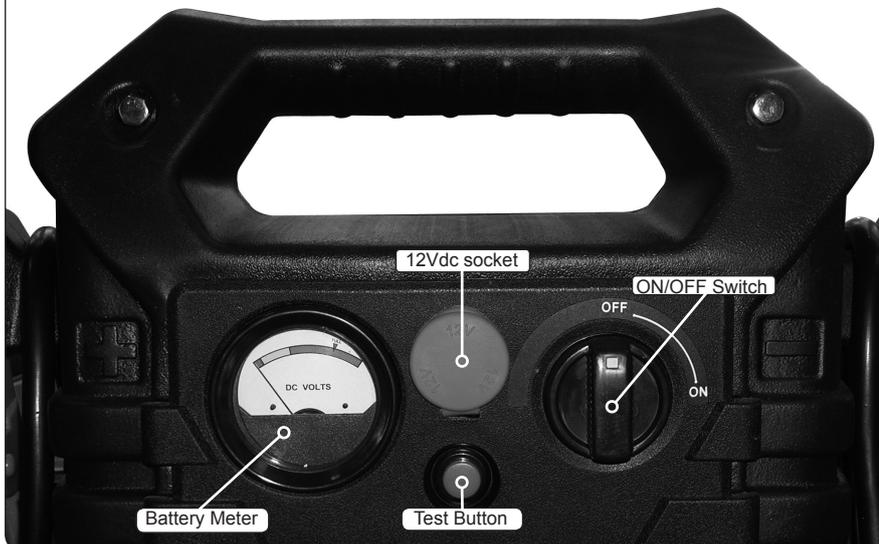


Fig.2.



### 4. OPERATION



**WARNING! YOU MUST FOLLOW SAFETY INSTRUCTIONS AND ENSURE THAT THE ROADSTART AND VEHICLE VOLTAGES ARE THE SAME.**

#### 4.1 Vehicle Battery Charging

**NOTE:** Some vehicle ignition systems must be turned to "Accessory" to activate the cigarette lighter socket. A defective battery may not accept a charge from the portable power source.

4.1.1 Plug one end of the power lead (Fig.3) into the RoadStart unit.

4.1.2 Plug the other end into the vehicle cigarette lighter socket.

4.1.3 Allow the battery to charge for thirty minutes.

4.1.4 Remove the power lead and start the vehicle.

## 4.2 Emergency Jump Starter

**IMPORTANT:** The unit will only jump start a battery if the Roadstart battery voltage is greater than 7V. If the Roadstart battery is delivering less than 7V, refer to Section 4.1 and follow the instructions to recharge the Roadstart battery.

**NOTE:** For optimum performance, the unit should not be stored below 10°C when using the unit as a jump starter.

### **IMPORTANT: USE OF RS125:**

**IMPORTANT:** Be sure to check the voltage switch of the RS125 is turned to the correct voltage before connecting the cables to the vehicle.

IN THE EVENT OF INADVERTENT CONNECTION TO 24VOLT SYSTEM WITH THE SELECTION IN THE 12VOLT POSITION:

- **DO NOT** TOUCH THE ROTARY SWITCH.
- **DISCONNECT** THE BATTERY AND LEAVE THE ROADSTART UNIT TO REST FOR AT LEAST ½ AN HOUR.



**DANGER OF EXPLOSION IF THESE INSTRUCTIONS ARE NOT OBSERVED.**

- 4.2.1 Turn off the vehicle ignition.
- 4.2.2 Attach the RED (positive +) clamp to the positive terminal of the battery.
- 4.2.3 Attach the BLACK (negative -) clamp to the vehicle chassis.
- 4.2.4 Ensure that all cables are clear of moving belts and rotating fans.
- 4.2.5 Maintain a safe distance from the battery whilst jump starting.
- 4.2.6 Turn on the ignition to start the vehicle.

**NOTE:** If the vehicle does not start after 6 seconds, allow the RoadStart unit to cool for 3 minutes, before attempting to jump start the vehicle again. If this is not done, the unit could sustain damage.

- 4.2.7 When the vehicle has started, disconnect the BLACK (negative -) clamp from the vehicle chassis.
- 4.2.8 Remove the RED (positive +) clamp from the battery terminal.
- 4.2.9 Return the clamps to the side storage lugs.

### 4.3 Alternative Vehicle Power Supply

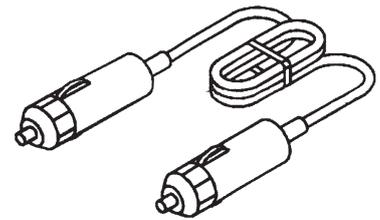
- 4.3.1 When a vehicle battery is disconnected, the memory systems in radios, electronic ignition systems and alarms are frequently lost.
- 4.3.2 When replacing a battery the RoadStart unit can be used as an alternative power supply by connecting the unit dc extension lead into the cigarette lighter socket.
- 4.3.3 This will prevent loss of memory in the systems outlined in Paragraph 4.3.1.

**WARNING!** The positive battery cable will be live and **MUST** be insulated (e.g. in a heavy duty plastic bag).

### 4.4 Multipurpose Power Supply

- 4.4.1 The RoadStart units can be used as a multipurpose power supply to power up any equipment with a built-in 12Vdc male adaptor.
- 4.4.2 Used with an inverter, the RoadStart unit can operate equipment usually powered by either 110VAC or 230VAC.

**NOTE:** The inverter power draw must not exceed 300 Watts.



### 4.5 Compressor Operation (RS122 ONLY)

- 4.5.1 Place the unit on a sound, flat surface.  
The inflation hose and nozzle accessories are located in the back panel of the RoadStart. Open the rear panel door and withdraw the inflation hose.
- 4.5.2 Push the universal quick-connector fully onto the inflation valve stem, and lock with the connector lever.  
**IMPORTANT:** Inflation will only be effective if the connector head is fully fitted and locked onto the valve.
- 4.5.3 Check the pressure gauge to determine the amount of pressure already in the tyre.
- 4.5.4 Switch the compressor on. View the pressure gauge to determine when the correct pressure has been achieved.
- 4.5.5 Switch the compressor off to stop the supply of air.
- 4.5.6 Unlock and remove the quick-connector from the inflation valve, ensuring you do not loose any air in the process. Replace any dust cap onto the valve. When you have finished using the compressor, pack the inflation hose and accessories back in the storage compartment.

#### **General Information.**

To inflate a completely flat tyre there must not be any weight on the wheel. A flat tyre on a vehicle must therefore be jacked up to take the weight off of the tyre. The time it will take to inflate a tyre will depend upon the amount of air required.

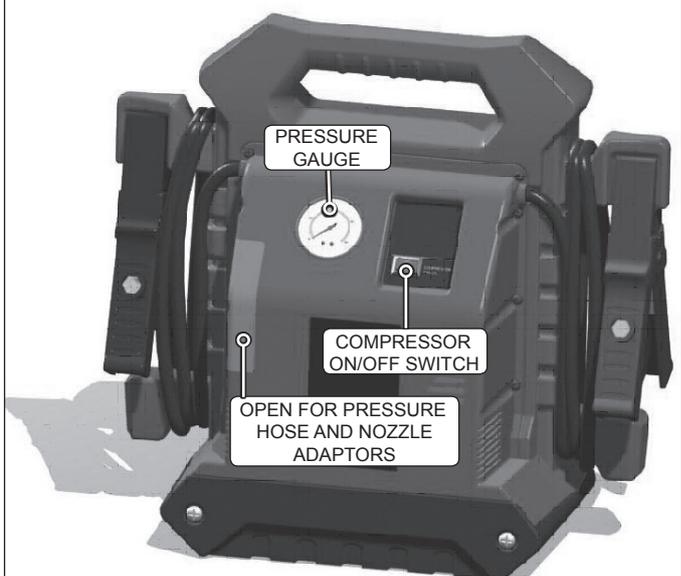
**NOTE:** The compressor may also be used to inflate items such as inflatable dinghies, sports balls, air beds etc. Use the appropriate inflation nozzle for the item.

**CAUTION:** Some items may not indicate pressure required or the maximum pressure. Be careful not to over-inflate.

**X DO NOT leave the compressor running unattended.**

**NOTE:** The pressure gauge is not a calibrated instrument. We recommend use of an approved dial/pressure gauge for a definitive reading.

**RS122 REAR VIEW**



## 5. BATTERY REMOVAL AND DISPOSAL

### 5.1 Removal

**NOTE:** The RoadStart battery is a sealed, lead-acid type. By law, it must be removed and recycled, or disposed of properly, according to national and/or local regulations.

- 5.1.1 Remove the screws from the rear panel and lift off from the unit enclosure.
- 5.1.2 Disconnect the wires from the two battery terminals, taking care to avoid accidental arcing of the terminals.
- 5.1.3 Lift the battery out of the casing.

### 5.2 Disposal

- 5.2.1 Take the battery to a recycling centre that handles sealed, lead-acid batteries.
- 5.2.2 If there is no recycling centre in the area, contact the local environmental agency for disposal instructions.

## 6. TROUBLESHOOTING

THE PROBLEM	THE SOLUTION
You connect to the charger for 20 hours and there is no change in charge level.	Check charger to see if it is charging. Charger should be warm. Check all wire connections.
Charge level reads low, but when the AC adaptor is plugged into the Roadstart, the needle flicks right.	The internal battery of the Roadstart needs to be replaced.
Roadstart is fully charged but has no power.	Check where the wire meets the jaw on the Roadstart clamp. Make sure they are well crimped.

## 7. QUESTIONS & ANSWERS

QUESTION	ANSWER
How many jump starts can a fully charged RoadStart do before needing to be recharged?	Between 1 and 20 depending upon operating factors such as temperature, general condition of the vehicle, engine type and size.
Can the RoadStart be recycled?	Yes, in accordance with national and local authority regulations.
What is the ideal in-use storage temperature of the RoadStart?	Room temperature. The RoadStart will also operate at temperatures below zero, its power however will be lessened. Intense heat will activate self-discharge.
I have a regular 10 amp battery charger, can I use it to recharge the RoadStart?	No. Only the supplied adaptor and charger can be used.
Is the RoadStart fool proof?	No. All jump starting instructions must be followed carefully.
Can I replace the internal batteries?	Yes, but note that the batteries are not covered by warranty as they are consumable items.



**Environmental Protection**

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted and taken to a recycle centre for disposal 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.

### Battery Removal

**NOTE:** The RoadStart battery is a sealed, lead-acid type. By law, it must be removed and recycled, or disposed of properly, according to national and/or local regulations.

1. Place the RoadStart unit front side down.
2. Remove the screws from the rear panel and lift off from the unit enclosure.
3. Disconnect the wires from the two battery terminals, taking care to avoid accidental arcing of the terminals.
4. Lift the batteries out of the casing.



### Disposal

Take the battery to a recycling centre that handles sealed, lead-acid batteries.  
If there is no recycling centre in the area, contact the local environmental agency for disposal instructions.

**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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