

SEALEY

12V INTELLIGENT SPEED CHARGE BATTERY CHARGER/MAINTAINER 15A

MODEL NO: **SPI15S.V2**

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



Warning explosive material



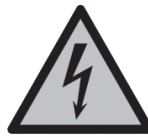
Wear eye protection



Warning corrosive substance



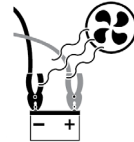
Wear protective Gloves



Warning electricity



Protect from rain



Use in well ventilated areas



Keep away from sources of ignition battery could explode

1. 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. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products.
- Electrical safety information.** It is important that the following information is read and understood:
- ✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- ✓ Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.
- ✓ 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.
- ✗ **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.**

1.2. PERSONAL PRECAUTIONS

- ✓ Ensure there is another person within hearing range of your voice and close enough to come to your aid, should a problem arise when working near a lead-acid battery.
- ✓ Wear safety eye protection and protective clothing. Avoid touching eyes while working near 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 which is high enough to weld a ring or the like to metal, which would cause severe burns.
- ✓ Ensure hands, clothing (especially belts) are clear of fan blades and other moving or hot parts of engine, remove ties and contain long hair.
- ✗ **DO NOT** smoke or allow a spark or flame in the vicinity of battery or engine.

1.3. GENERAL SAFETY INSTRUCTIONS

- ✓ Familiarise yourself with the application and limitations of the charger as well as the potential hazards. Also refer to the vehicle manufacturer's hand book. IF IN ANY DOUBT CONSULT A QUALIFIED ELECTRICIAN.
- ✓ Ensure the charger is in good order and condition before use. If in any doubt do not use the unit, contact your Sealey stockist.
- ✓ Use the charger in the upright position only and ensure it is placed on a stable surface which will adequately support its weight.
- ✓ Ensure the charger is disconnected from the mains supply before attaching/detaching the power clamps to/from the battery.
- ✓ Keep tools and other items away from the engine and ensure you can see the battery and working parts of engine clearly.
- ✓ Ensure the output of the charger is the same voltage as the battery.
- ✓ Ensure that during charging, the charger is placed in a location where there is sufficient ventilation to prevent the build up of explosive gases from a lead acid battery, and DO NOT cover or obstruct the charger ventilation louvres.
- ✓ If battery has caps to access the battery fluid, remove the caps and check the fluid level before connecting the power clamps. If necessary top-up the battery with distilled water by referring to the battery manufacturer's instructions (Apply the personal safety precautions described in part 1.2).
- ✓ If the charger receives a sharp knock or blow the unit must be checked by a qualified service agent before using.
- ✓ If the battery terminals are corroded or dirty clean them before attaching the power clamps.
- ✓ Keep children and unauthorised persons away from the working area.
- ✗ **DO NOT** dis-assemble the charger for any reason. The charger must only be checked by qualified service personnel.
- ✗ **DO NOT** try to charge a non-rechargeable battery.
- ✗ **DO NOT** try to start engine when charger is connected to battery.
- ✗ **DO NOT** try to charge battery if battery fluid is frozen.
- ☐ **WARNING!** To prevent the risk of sparking, short circuit and possible explosion do not drop metal tools in the battery area, or allow them to touch the battery terminals.
- ✗ **DO NOT** allow power clamps to touch each other or to make contact with any metallic part of the vehicle.

- ✖ **DO NOT** cross connect power leads from charger to battery. Ensure positive (+/RED) is to positive and negative (-/BLACK) is to negative.
 - ✖ **DO NOT** pull the cables or clamps from the battery terminals.
 - ✖ **DO NOT** use the charger outdoors, or in damp, or wet locations and do not operate within the vicinity of flammable liquids or gases.
 - ✖ **DO NOT** use charger inside vehicle or inside engine compartment.
 - ✓ Ensure there is effective ventilation to prevent a build-up of explosive gases, and do not cover or obstruct charger ventilation louvres.
 - ✖ **DO NOT** use the charger for a task for which it is not designed.
 - ❑ **WARNING! DO NOT** simultaneously charge batteries of different capacities or discharge levels.
 - ❑ **WARNING!** If a fuse blows, ensure it is replaced with an identical fuse type and rating. Use only Sealey genuine parts.
 - ✓ When not in use, store the charger carefully in a safe, dry, childproof location.
- NOTE** This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

2. INTRODUCTION

Fully automatic microprocessor controlled battery charger and maintainer, featuring patented Speed Charge technology. Charges the battery up to three times faster than conventional battery chargers without damaging the battery. Heavy-duty sturdy case with no-nonsense controls and LED status indicators. Battery presets include conventional lead acid, calcium, AGM/GEL, leisure and stop/start batteries. Fully automatic float mode ensures the battery is kept fully charged, maintained and ready to use. This unit also features a 10A power supply mode for maintaining battery power during prolonged periods of power draw, for example when a vehicle is on display in a showroom etc.

3. SPECIFICATION

Model No	SPI15S.V2
Cable & Clamp Length	1870mm
Fuse Rating	13A
Ingress Protection Rating	IP20
Input	2.5A
Nett Weight	1.5kg
Output	12V
Output Charge	15A
Plug Type	3-Pin
Power Supply Cable Length	2m
Supply	230V

4. PREPARATION

- ❑ **WARNING!** Battery acid is a highly corrosive sulphuric acid avoid contact.
 - ❑ **WARNING!** It is not intended to supply power to a low voltage electrical system other than in a starter-motor application. **DO NOT** use this charger for charging dry-cell batteries that are commonly used with home appliances or lithium ion batteries used in mobile phones, laptops, power tools etc. these batteries may burst and cause injury to persons and damage to property. Remove all cord wraps and uncoil the cables prior to using the battery charger.
- 4.1. If it is necessary to remove the battery from the vehicle to charge it, always remove the grounded terminal first. Make sure all of the accessories in the vehicle are off to prevent arcing.
 - 4.2. Clean the battery terminals before charging the battery. During cleaning, keep airborne corrosion from coming into contact with your eyes, nose and mouth. Use baking soda and water to neutralize the battery acid and help eliminate airborne corrosion. **DO NOT** touch your eyes, nose or mouth.
 - 4.3. Add distilled water to each cell until the battery acid reaches the level specified by the battery manufacturer. **DO NOT** overfill. For a battery without removable cell caps, such as valve regulated lead-acid batteries (VRLA), carefully follow the manufacturer's recharging instructions.
 - 4.4. Read, understand and follow all instructions for the charger, battery, vehicle and any equipment used near the battery and charger. Study all of the battery manufacturer's specific precautions while charging and recommended rates of charge.
 - 4.5. Determine the voltage of the battery by referring to the vehicle owner's manual.
 - 4.6. Make sure that the charger cable clips make tight connections.
 - 4.7. **CHARGER LOCATION**
 - ❑ **WARNING!** Risk of explosion and contact with battery acid.
 - 4.7.1. Locate the charger as far away from the battery as the DC cables permit.
 - 4.7.2. Never place the charger directly above the battery being charged; gases from the battery will corrode and damage the charger.
 - ✖ **DO NOT** set the battery on top of the charger.
 - 4.7.3. Never allow battery acid to drip onto the charger when reading the electrolyte specific gravity or filling the battery.
 - 4.8. Follow these instructions when the battery is installed in a vehicle.
 - ❑ **WARNING!** A spark near the battery may cause a battery explosion.
 - 4.9. **BATTERY CHARGING**
 - 4.9.1. Position the mains and DC cables to reduce the risk of damage by the bonnet, door and moving or hot engine parts.

NOTE: If it is necessary to close the bonnet during the charging process, ensure that the bonnet does not touch the metal part of the battery clips or cut the insulation of the cables.

- 4.9.2. Stay clear of fan blades, belts, pulleys and other parts that can cause injury.
- 4.9.3. Check the polarity of the battery posts. The Positive (POS, P, +) battery post usually has a larger diameter than the negative (NEG, N, -) post.
- 4.9.4. Determine which post of the battery is earthed (connected) to the chassis. 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. The battery charger is then to be connected to the mains. See sections 4.9.5. and 4.9.6.
- 4.9.5. For a negative-earthed vehicle, connect the positive (RED) clip from the battery charger to the positive (POS, P, +) non earthed 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 carburettor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
- 4.9.6. For a positive-earthed vehicle, connect the NEGATIVE (BLACK) clip from the battery charger to the NEGATIVE (NEG, N, -) non earthed 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 carburettor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the chassis or engine block.
- 4.9.7. Connect charger mains cable to electrical outlet.
- 4.9.8. After charging, disconnect the battery charger from the mains. Then remove the chassis connection and then the battery connection
- 4.9.9. The ring connectors permanently attach to the battery, providing easy access to quickly charge your battery. This application is appropriate for motorcycles, lawn tractors, ATVs and snowmobiles.
- 4.10. **FOLLOW THESE STEPS WHEN THE BATTERY IS OUTSIDE THE VEHICLE.**
- 4.10.1. Check the polarity of the battery posts. The positive (POS, P, +) battery post usually has a larger diameter than the negative (NEG, N, -) post.
- 4.10.2. Attach at least a 24-inch (61 cm) long 6-gauge (AWG) insulated battery cable to the negative (NEG, N, -) battery post.
- 4.10.3. Connect the positive (RED) charger clip to the positive (POS, P, +) post of the battery.
- 4.10.4. Position yourself and the free end of the cable you previously attached to the negative (NEG, N, -) battery post as far away from the battery as possible – then connect the negative (BLACK) charger clip to the free end of the cable.
- 4.10.5. **DO NOT** face the battery when making the final connection.
- 4.10.6. Connect charger mains cable to an electrical outlet.
- 4.10.7. When disconnecting the charger, always do so in the reverse order of the connecting procedure and break the first connection while as far away from the battery as practical.
- 4.10.8. A marine (boat) battery must be removed and charged on shore. To charge it inboard requires equipment specially designed for marine use.

5. CONTROL PANEL

1. Digital display
2. Hook attachment (on back)
3. Language and charger/power supply button
4. Charging status LED indicator.

fig.1



- 5.1. **DIGITAL DISPLAY**
- 5.1.1. The digital display indicates the status of the battery and charger. See Display Messages, section 8, for a complete list of messages.
- 5.1.2. **NOTE:** During charging, the display will go into sleep mode and will not display any messages. To turn the display back on, press the display button.
- 5.2. **LANGUAGE BUTTON**
- 5.2.1. **LANGUAGE/CHARGER AND POWER SUPPLY button**
- LANGUAGE:** The digital display will show the battery's voltage and percentage of charge. Press the button for 5 seconds to select the language on the display.
(EN→ DE→ FR→ NL→ ES).
- 5.2.2. **CHARGER AND POWER SUPPLY:** Click the button to select mode (charger or power supply), then double click the button to enter the mode which you selected. The selected mode will be saved. If no button is pressed charging will begin automatically in 10 minutes.
- 5.3. **LED INDICATOR**
- 5.3.1. **GREEN LED solid:** (Display shows Charging) The charger is connected and is charging a battery.
- 5.3.2. **GREEN LED pulsing:** (Display shows Charged/Maintaining) The battery is fully charged and the charger is in Maintain Mode.
- 5.3.3. **GREEN LED flashing:** The charge has aborted.

6. OPERATION

- 6.1. **NOTE:** Remove all cable ties and uncoil the cables prior to using the battery charger.
- 6.2. **BATTERY INFORMATION**
- 6.2.1. **NOTE:** This charger is equipped with an auto-start feature. Current will not be supplied to the battery clamps until a battery is properly connected. The clamps will not spark if touched together. Refer to 4.9. for charging a battery inside a vehicle and 4.10. for charging a battery outside a vehicle.
- 6.3. **BATTERY CLAMP QUICK CONNECT**
- 6.3.1. Follow the steps in sections 4.9. and 4.10. to connect the clamps to the battery.
- 6.3.2. After a good electrical connection is made to the battery, plug the power cord into an mains outlet. Make sure to place the charger on a dry, non-flammable surface.
- 6.3.3. When the charger starts, the Green LED will be solid and the display will show Analyzing Battery while the charger determines that the battery is properly connected and the condition of the battery.
- 6.3.4. When charging is complete, the Green LED will pulse disconnect from the mains, remove the negative clamp, and finally the positive clamp.
- 6.4. **POWER SUPPLY**
- Ensure that all of the charger components are in place and in good working condition.
- Connect the battery, following the precautions listed in sections 6 and 7.
- Connect the AC power following the precautions listed in section 8.
- When the power supply starts, the GREEN LED will be solid, and the display will show: **POWER SUPPLY ON.**
- 6.5. **BATTERY CONNECTION INDICATOR**
- 6.5.1. If the charger does not detect a properly connected battery, charging will not start and the digital display will show one of two messages. If the display shows connect clamps, make sure the charger is connected to the battery and the connection points are clean and making a good connection. If the display shows WARNING CLAMPS REVERSED, unplug the charger from the mains, reverse the connections at the battery, and then plug the charger back in.
- 6.6. **AUTOMATIC CHARGING MODE**
- 6.6.1. When an Automatic Charge is performed, the charger switches to the Maintain Mode automatically after the battery is charged. For a battery with a starting voltage under 1 volt, use a manual charger to pre-charge the battery for five minutes, to get additional voltage into the battery.
- 6.7. **ABORTED CHARGE**
- 6.7.1. If charging cannot be completed normally, charging will abort. When charging aborts, the charger's output is shut off, the green LED will flash, and the display will show CHARGE ABORTED-BAD BATTERY. Do not continue attempting to charge this battery. Check the battery and replace if necessary.
- 6.8. **COMPLETION OF CHARGE**
- 6.8.1. Charge completion is indicated by the pulsing green LED and the digital display showing FULLY CHARGED AUTO MAINTAINING. This indicates the charger has switched to the Maintain Mode of operation.
- 6.9. **MAINTAIN MODE (FLOAT MODE MONITORING)**
- 6.9.1. When the green LED is pulsing, the charger has started Maintain Mode. In this mode, the charger keeps the battery fully charged by delivering a small current when necessary.
- NOTE:** If the charger has to provide its maximum maintain current for a continuous 12 hour period, it will go into Abort Mode (see Aborted Charge section). This is usually caused by a drain on the battery, or the battery could be bad. Make sure there are no loads on the battery. If there are, remove them. If there are none, have the battery checked or replaced.
- 6.10. **MAINTAINING A BATTERY**
- 6.11. The SPI15S.V2 with Power Supply maintains 12 volt batteries, keeping them at full charge.
- 6.12. It is not recommended for industrial applications.
- NOTE:** The maintain mode technology allows you to safely charge and maintain a healthy battery for extended periods of time. However, problems with the battery, electrical problems in the vehicle, improper connections or other unanticipated conditions could cause excessive current draws. As such, occasionally monitoring your battery and the charging process is recommended.
- 6.13. **FAN**
- 6.14. Your charger is equipped with a fan. It is normal for the fan to run while the charger is charging.
- 6.15. Keep the area near the charger free of obstructions, to allow the fan to operate efficiently.

7. CHARGE TIME

- 7.1. **BATTERY PERCENTAGE AND CHARGE TIME**
- 7.1.1.1. This charger adjusts the charging time in order to charge the battery completely, efficiently and safely. The microprocessor automatically performs the necessary functions. This section includes guidelines that can be used to estimate charging times. Use the following table to determine the time it will take to bring a battery to full charge.
First, identify where your battery fits into the chart.

CCA = Cold Cranking Amps Ah = Amp Hour

Find your battery's rating on the following chart, and note the charge time given for each charger setting. The times given are for batteries with a 50% charge prior to recharging. Add more time for severely discharged batteries.

7.2. AUTOMATIC CHARGING MODE

When an Automatic Charge is performed, the charger switches to the Maintain Mode automatically after the battery is charged. For a battery with a starting voltage under 1 volt, use a manual charger to pre-charge the battery for five minutes, to get additional voltage into the battery.

7.3. ABORTED CHARGE

If charging cannot be completed normally, charging will abort. When charging aborts, the charger's output is shut off, the GREEN LED will flash, and the display will show CHARGE ABORTED - BAD BATTERY. Do not continue attempting to charge this battery. Check the battery and replace, if necessary.

7.4. CHARGE COMPLETION AND MAINTAIN MODE (FLOAT MODE MONITORING)

Charge completion is indicated by the pulsing **GREEN LED** and the digital display showing

7.5. FULLY CHARGED - AUTO MAINTAINING

This indicates the charger has switched to the Maintain Mode of operation. In this mode, the charger keeps the battery fully charged by delivering a small current when necessary. NOTE: If the charger has to provide its maximum maintain current for a continuous 12 hour period, it will go into Abort Mode (see Aborted Charge section). This is usually caused by a drain on the battery, or the battery could be bad. Make sure there are no loads on the battery. If there are, remove them. If there are none, have the battery checked or replaced.

7.6. MAINTAINING A BATTERY

The SPI15S.V2 with Power Supply maintains 12 volt batteries, keeping them at full charge. It is not recommended for industrial applications.

NOTE: The maintain mode technology allows you to safely charge and maintain a healthy battery for extended periods of time. However, problems with the battery, electrical problems in the vehicle, improper connections or other unanticipated conditions could cause excessive current draws. As such, occasionally monitoring your battery and the charging process is recommended.

7.7. FAN

Your charger is equipped with a fan. It is normal for the fan to run while the charger is charging. Keep the area near the charger free of obstructions, to allow the fan to operate efficiently.

APPLICATION	BATTERY SIZE	CHARGING TIME (hours)			
		6A	10A	12A	15A
POWERSPORTS ↓	6 Ah	2	1.5		
	32Ah	5	4		
AUTOMOTIVE ↓	300 CCA	4	3	2	1.5
	1000 CCA	10	7	5.5	4
MARINE ↓	50 Ah	5	3.5	2.5	2
	230 Ah	19	11.5	9.5	7.5

8. DISPLAY MESSAGES

8.1. SELECT MODE

(No LED lit) – Waiting for user to press button to select mode.

8.2. CONNECT CLAMPS

(No LED lit) – Plugged into the AC outlet without the clamps connected to a battery.

❑ WARNING! CLAMPS REVERSED

(No LED lit) – Plugged into the AC outlet and the clamps are connected backwards to a battery.

8.3. ANALYZING BATTERY (Green LED lit) – Plugged into the AC outlet, and when first correctly connected to battery.

8.4. CHARGING - XX% (Green LED lit) – Plugged into the AC outlet and correctly connected to a discharged battery.

8.5. FULLY CHARGED - AUTO MAINTAINING

(Green LED pulsing) – Plugged into the AC outlet and correctly connected to a fully charged battery.

8.6. CHARGE ABORTED - BAD BATTERY

(Green LED flashing) – Circumstances that could cause an Abort situation during charging:

8.7.1. The battery is severely sulfated or has a shorted cell and can't reach a full charge.

8.7.2. The battery is too large or there is a bank of batteries and it doesn't reach full charge within a set time period.

8.8. Circumstances that could cause an Abort situation during maintain:• The battery is severely sulfated or has a weak cell and will not hold a charge.

8.8.1. There is a large draw on the battery and the charger has to supply its maximum maintain current for a 12 hour period to keep the battery at full charge.

8.9. BATTERY DISCONNECTED

8.9.1. (No LED lit) – Clamps were unplugged during charging.

8.10. **CHARGE MODE - DOUBLE CLICK TO CONFIRM** (No LED lit) – Plugged into the AC outlet, and charger mode is selected. Double click button to enter the charger mode.

8.11. **POWER SUPPLY MODE - DOUBLE CLICK TO CONFIRM** (No LED lit) – Plugged into the AC outlet, and power supply mode is selected. Double click button to enter the power supply mode.

8.12. **EXTERNAL BATTERY VOLTAGE TOO HIGH** (No LED lit) – The external battery voltage is more than the unit with power supply mode.

8.13. **POWER SUPPLY ON** (Green LED lit) – Plugged into the AC outlet, and the unit is working in power supply mode.

8.14. OFF (No LED lit) – During the charger process or power supply process, press button once to stop the charger or power supply. The display will show OFF and then SELECT MODE.

9. MAINTENANCE

9.1. Cleaning and user maintenance should be carried out by competent persons.

9.2. After use and before performing maintenance, unplug and disconnect the battery charger.

9.3. Use a dry cloth to wipe all battery corrosion and other dirt or oil from the battery connectors, cords, and the charger case.

9.4. Ensure that all of the charger components are in place and in good working condition, for example, the plastic boots on the battery clips.

9.5. Servicing does not require opening the unit, as there are no serviceable parts.

9.6. All other servicing should be performed by qualified service personnel.

- 9.7. If the mains cable is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons, in order to avoid a hazard.
- 9.8. Store the charger unplugged, in an upright position. The cord will still conduct electricity until it is unplugged from the mains.
- 9.9. Store inside, in a cool, dry place.
- ✱ **DO NOT** store the connectors clipped together, on or around metal, or clipped to cables. If the charger is moved around the shop or transported to another location, take care to avoid/prevent damage to the cables, connectors and charger. Failure to do so could result in personal injury or property damage.

10. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Battery connectors do not spark when touched together.	The charger is equipped with an auto-start feature. It will not supply current to the battery connectors until a battery is properly connected. The connectors will not spark when touched together.	Not a problem; this is a normal condition.
The charger will not turn on when properly connected.	Mains outlet is dead. Poor electrical connection.	Check for open fuse or circuit breaker supplying mains outlet. Check mains cable and extension cord for loose fitting plug.
I cannot select a language on the display	Press the button for 5 seconds to select a language (EN-DE-FR-NL-ES-IT)	No problem; this is a normal condition.
Green LED is lit and the display shows ANALYSING BATTERY.	The charger needs to check the condition of the battery.	The green LED will be lit when the charger is checking the condition of the battery. This is normal.
Green LED is flashing and display shows CHARGE ABORTED-BAD BATTERY.	The battery is too large for the charger. The battery voltage is still below 10V after 12 hours of charging.	You need a charger with a higher amp rate. Have the battery checked.
The display shows CONNECT CLAMPS	The clamps are not making a good connection. The in-line fuse has blown.	Check for poor connection at battery and frame. Replace the in-line fuse for the ring terminals.
The display shows EXTERNAL BATTERY VOLTAGE TOO HIGH.	The external battery voltage is more than the unit with power supply mode.	Replace the external battery.



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.



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.



REGISTER YOUR PURCHASE HERE

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. Please note that other versions of this product are available. If you require documentation for alternative versions, please email or call our technical team on technical@sealey.co.uk or 01284 757505.

Important: No Liability is accepted for incorrect use of this product.

Warranty: This product comes with a 24 month Guarantee against manufacturing defects.

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