

IMPORTANT! THIS PRODUCT MUST BE CHARGED UNTIL FULL IMMEDIATELY AFTER PURCHASE AND EVERY TWO MONTHS THEREAFTER

12V Rechargeable Jump Starter

IMPORTANT! PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE ALL SAFETY INSTRUCTIONS AND WARNINGS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE DAMAGE TO PROPERTY AND/OR PERSONAL INJURY.

PLEASE KEEP THESE INSTRUCTIONS SAFE AND AVAILABLE FOR FUTURE REFERENCE.

CERTIFICATE OF GUARANTEE

This product is guaranteed for a period of 1 Year, with effect from the date of purchase and applies only to the original purchaser. This guarantee only applies to defects arising from, defective materials and or faulty workmanship that become evident during the guarantee period only and does not include consumable items. The manufacturer will repair or replace the product at their discretion subject to the following. That the product has been used in accordance with the guidelines as detailed in the product manual and that it has not been subjected to misuse, abuse or used for a purpose for which it was not intended. That it has not been taken apart or tampered with in any way whatsoever or has been serviced by unauthorised persons or has been used for hire purposes. Transit damage is excluded from this guarantee, for such damage the transport company is responsible. Claims made under this guarantee must be made in the first instance, directly to the retailer within the guarantee period. Only under exceptional circumstances should the product be returned to the manufacturer. In this case it shall be the consumer's responsibility to return the product at their cost ensuring that the product is adequately packed to prevent transit damage and must be accompanied with a brief description of the fault and a copy of the receipt or other proof of purchase. The manufacturer shall not be liable for any special, exemplary, direct, indirect, incidental, or consequential loss or damage under this guarantee. This guarantee is in addition to and does not affect any rights, which the consumer may have by virtue of the Sale of Goods Act 1973 as amended 1975 and 1999.

INTRODUCTION

Thank you for purchasing this product which has passed through our extensive quality assurance process. Every care has been taken to ensure that it reaches you in perfect condition. However, in the unlikely event that you should experience a problem, or if we can offer any assistance or advice please do not hesitate to contact our customer care department. For details of your nearest customer care department please refer to the telephone numbers at the back of this manual.

Safety First

Before attempting to operate this product the following basic safety precautions should always be taken to reduce the risk of fire, electric shock and personal injury. It is important to read the instruction manual to understand the application, limitations and potential hazards associated with this product.

HELPLINE & SPARE PARTS

In the unlikely event of a defect occurring please contact our Helpline.
Office hours: Monday - Friday 9:00am – 5:00pm. Telephone Number 01332 576 850

INTENDED USE

This product is a compact, durable and portable jump starter and can be used as a portable power source with 12V DC and 5V USB output sockets. This product is NOT for use as a vehicle battery charger and is intended for jump-starting batteries ONLY.

Any other application beyond the conditions established for use will be considered misuse. SGS Engineering accepts no responsibility for improper use of this product.

IMPORTANT SAFETY INSTRUCTIONS

The purpose of safety rules is to attract your attention to possible dangers. The safety symbols and the explanations with them, require your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instruction or warnings they give are not substitutes for proper accident prevention measures.

SAFETY ALERT SYMBOL



Indicates danger, warning, caution or notice. May be used in conjunction with other symbols or pictures.

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE indicates information considered important, but not hazard-related (e.g., messages relating to property damage).

Failure to obey a safety warning can result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

Do not attempt to operate this tool until you have read thoroughly and completely understood the safety rules, etc. contained in this manual. Failure to comply can result in accidents involving fire, electric shock or serious personal injury. Save this Owners Operating Manual and review it frequently for continual safe operation and for instructing others who may use this tool.

Due to continued product refinement policy, product features and specifications can and will change without notice. Check current features and specifications with your retailer.



WARNING: Read and understand all instructions. Failure to follow all instructions listed below could result in electrocution, fire, and/or explosion, which can cause death or serious injury.

GENERAL HEALTH AND SAFETY PRECAUTIONS

Observe all standard safety precautions and good practices when working with electrical equipment and batteries.

Keep your work environment clear and well-lit, with bystanders at a safe distance.

Use the product only as instructed in this manual. **DO NOT** disassemble or modify it in any way.

This product is not designed to be operated by persons who have insufficient experience and/or insufficient knowledge or by persons with impaired physical, sensory or mental capabilities, unless they are being supervised by a person who is responsible for their safety or they are receiving instructions about how these devices are to be used. Children shall not play with the device. Cleaning and user maintenance shall not be made by children without supervision.

DO NOT use this product if you are tired or under the influence of alcohol, drugs or other medication.

DO NOT use this device in wet environments or expose it to water or other liquids.

DO NOT use or store this product in temperatures exceeding 50°C.

DO NOT obstruct or insert foreign objects into the air vents.

Before every use, inspect the product for broken, cracked, loose or corroded parts and leakage



WARNING: DO NOT use this product if it is leaking or damaged in any way. DO NOT attempt to disassemble a damaged product, contact SGS Engineering for repair and replacement options.

IMPORTANT SAFETY INSTRUCTIONS

ALWAYS wear gloves and eye protection when using this product.

Damaged external cords must be replaced by SGS Engineering, an authorised service agent or similarly qualified personnel in order to avoid a hazard.

NEVER carry the product by the plug or external cords.



WARNING! DO NOT leave this product unattended while in use under any circumstances.



WARNING! NEVER use this product to jump-start lithium-ion batteries.

SAFETY INSTRUCTIONS FOR JUMP STARTERS AND PORTABLE POWER PACKS



WARNING! This product must be fully charged immediately after purchase. Charge the product at least once every two months to maintain the health of the on-board battery.

Only use this product in well-ventilated areas.

NEVER use this product near flammable substances or substances that produce flammable vapours.

DO NOT use this product near devices that may cause sparks.

This product may become warm during extended periods of use. Always position the jump starter on a non-flammable surface during use.

NEVER cover the product or battery during use.

Always make sure that the jump starter leads are isolated before connecting a battery.

NEVER jump-start a frozen battery.

NEVER allow the clamps to touch one another or contact the same piece of metal as this may result in current arcing.

NEVER touch both the positive and negative terminals of the connection leads.

If the terminals are connected incorrectly, switch off the product immediately and reconnect the terminals correctly.

DO NOT use or store this product in warm environments, in direct sunlight or near sources of heat or ignition.

Ensure that the product is in its upright position while the on-board battery is being charged.

DO NOT use the jump starter while it is charging or connected to a mains power supply.

If the battery does not charge up, disconnect it from the power source and contact SGS Engineering.

NEVER burn or mutilate batteries or products containing batteries as they may explode or release toxic substances.

DO NOT attempt to remove the battery from this product.



WARNING! Battery acid is highly corrosive.

If the product battery begins to leak, stop all operation immediately and contact SGS Engineering for support. If battery acid comes into contact with your eyes or skin, flush with plenty of water and seek immediate medical attention.



WARNING! The jump-start function of this product is suitable for use on 12V DC circuits only.

SAFETY INSTRUCTIONS FOR WORKING WITH LEAD-ACID AND OTHER VEHICLE BATTERIES



WARNING! Risk of explosive gases.

Working in close proximity to lead-acid batteries is dangerous as they produce potentially explosive gases during normal operation. Always read the manual in full before use and keep your work area well-ventilated.

IMPORTANT SAFETY INSTRUCTIONS

Use this manual in conjunction with the battery manufacturer manual and that of any other equipment to be used in the vicinity. Review all safety markings and rating plates present on the battery, charger and any other nearby equipment before using this product to jump-start a vehicle battery.

DO NOT work with vehicle batteries on your own. Always ensure someone is nearby to come to your aid if necessary.

Wear complete eye protection and gloves and suitable clothing that covers your skin. Avoid touching your eyes while working with lead-acid batteries.

Keep plenty of fresh water and soap nearby in case battery acid comes into contact with your skin, eyes or clothing.

If battery acid comes into contact with your skin or clothing, wash the affected area immediately with soap and water.

If battery acid gets in your eyes, flush the eyes immediately with lots of cool and clean running water for at least 15 minutes and seek medical attention immediately.

NEVER smoke or allow sparks or flames in the area of the battery or engine.

Take extra care to prevent metal objects or tools from falling onto the battery as this may cause a spark, short-circuit the battery or cause an explosion.

Always remove personal metallic objects before use. Lead-acid batteries can produce a short-circuit current high enough to weld metal and cause severe burns.



WARNING! DO NOT top up the electrolyte beyond the manufacturer's recommended level. Overfilling the battery may cause acid content to leak.



WARNING! DO NOT use this product to jump-start high ampere-hour (Ah) batteries.

SAFETY INSTRUCTIONS FOR THE 12V JUMP STARTER RECHARGEABLE BATTERY

IMPORTANT! This product contains a sealed lead-acid battery. The instructions below apply in addition to those listed in 'SAFETY INSTRUCTIONS FOR WORKING WITH LEAD-ACID AND OTHER VEHICLE BATTERIES'



WARNING! Risk of electric shock. DO NOT open.

DO NOT allow the on-board battery to entirely discharge as this may lead to warping of the battery or build-up of internal condensation when it is recharged.

Only charge the jump starter rechargeable battery using the charger supplied.

Only charge this product under the conditions outlined in this manual. Charging the battery under any other conditions may cause it to overheat, leak, emit hydrogen gas, burst or ignite. Never attempt to charge this product using a battery charger.

NEVER attempt to charge this product using a battery charger.

Where possible, charge this product using the 230V AC transformer charger as this charging circuit is automatic and cannot be overcharged.

Monitor the jump starter whilst it is being charged to reduce the risk of incidents while it is unobserved. If the product is charged using the 12V DC power adaptor it must be supervised at all times to prevent overcharging as this charging circuit is not automatic.

NEVER exceed the specified charging times when using the 12V DC power adaptor to charge this product.

DO NOT charge the device in the vicinity of objects that may cause sparks or sources of heat or ignition.

Ensure all the switches are in the off position before connecting a charger to the product.

DO NOT attempt to dismantle, damage, modify or burn the on-board battery.

IMPORTANT SAFETY INSTRUCTIONS

DO NOT use this product if there is evidence of battery leakage. If battery acid comes into contact with your skin or clothing, wash the affected area immediately with soap and water.

If battery acid gets in your eyes, flush the eyes immediately with lots of cool and clean running water for at least 15 minutes and seek medical attention immediately.

The battery installed in this jump starter is recyclable and must be removed by a suitably qualified person before being scrapped. The product must be disconnected from external power supplies when removing the battery. Insulate the terminals and dispose of the battery separately, in accordance with local regulations.

CONNECTION TO THE POWER SUPPLY

This appliance is supplied with an approved plug and cord for your safety.

If the power supply cord is damaged, it must be replaced by SGS Engineering, an authorised service agent or similarly qualified personnel in order to avoid a hazard. The damaged or incomplete plug, when cut from the cord, shall be disabled to prevent connection to a live electrical outlet.

TECHNICAL SPECIFICATION

Charger Input Voltage	100-240V	Internal Battery Voltage	12V
Charger Input Frequency	50/60Hz	Internal Battery Capacity	22Ah
Charger Output Voltage	19V	Jump Starting Current	1600 A peak / 700A cranking
Charger Output Current	600mA	Jump Lead Length	60cm
Charger Protection Class	II	Protection Type	IP20
Output Sockets	2 x 12V DC	Operating Temperature	-20 to 40°C
USB Port	5V DC/0.5A	Dimensions	32 x 11 x 27cm
Internal Battery Type	Sealed Lead-Acid	Weight	7.5kg

Your product is designed and rated for continuous operation at ambient temperatures up to 40°C. When needed, it may be operated at temperatures ranging from -20°C to 50°C for short periods of time. If exposed to temperatures outside this range during storage, it should be brought back within this range before operation.



DOUBLE INSULATED: The charger is double insulated and does not require an earth connection to protect against electric shock from accessible conductive parts in the event of failure of the basic insulation.

The value of the fuse fitted is marked on the pin face of the plug. Should the fuse need replacing, use a small plain-slot screwdriver to remove the fuse cover. Ensure the substitute is of the correct rating, approved to BS 1363/A and ASTA or BS Kite marked. This should only be performed by suitably qualified personnel.

Use of an extension lead is not recommended with this charger.

If an extension lead is required, use an approved and compatible lead rated for this product.


















Follow all the instructions supplied with the extension lead.

RESIDUAL RISK

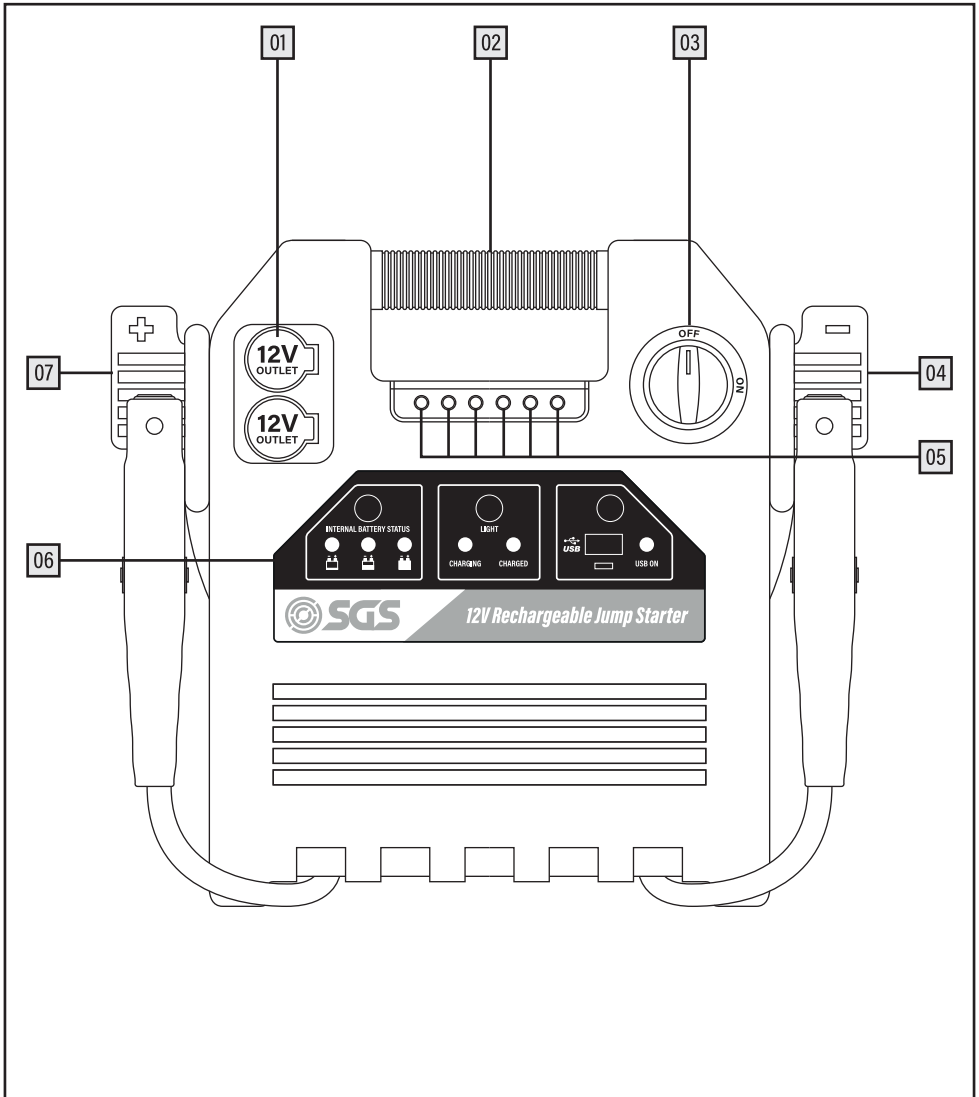
The safety instructions in this manual cannot account for all possible conditions and situations that may occur. Exercise common sense and caution when using this product and protect against any additional conceivable risks.

SAFETY SYMBOLS

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.

SYMBOL	DESIGNATION/EXPLANATION
	Do not expose to rain or use in damp locations.
	To reduce the risk of injury, the user must read and understand the operator's manual before using this product.
	Always wear safety goggles or safety glasses with side shields and, as necessary, a full face shield when operating this product.
	Precautions that involve your safety.
	Do not incinerate or throw onto fire.
	Class II construction (Double Insulated).
	Danger! Risk of electric shock.
	Warning! This product contains explosive materials.
	Keep away from fire/fumes and objects that may cause sparks or sources of heat or ignition.
	Integral lead-acid battery. Dispose of the battery correctly and responsibly
	For indoor use only, do not expose to rain.
	Short-circuit proof safety isolating transformer.
	130° Fuse protective device.
	Polarity indication.
	Rated voltage.
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
	Conforms to relevant safety standards.

COMPONENTS & CONTROLS



01. 12V outlet sockets

02. Carry handle

03. On/Off switch

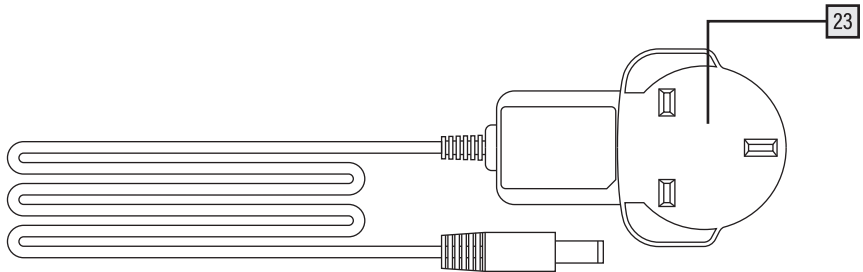
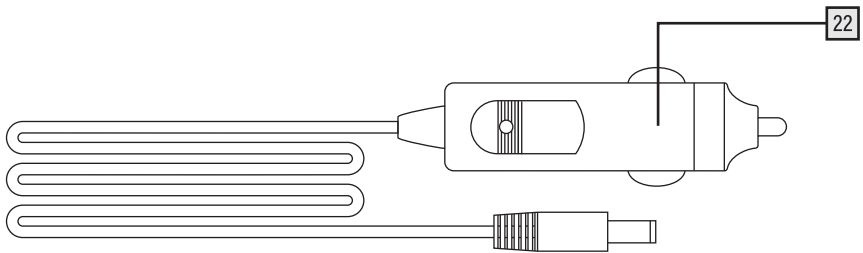
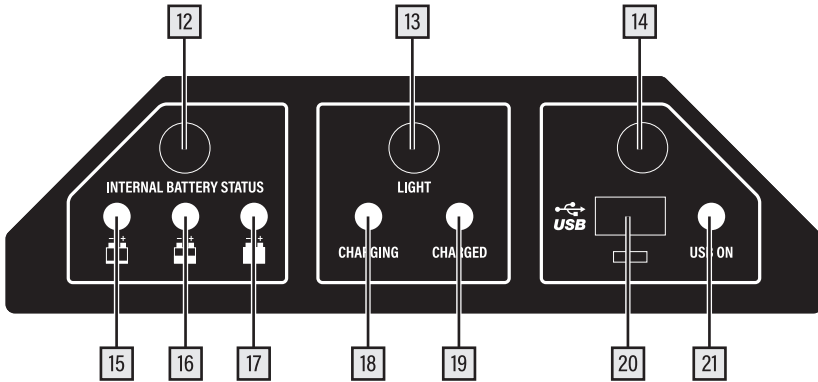
04. Black negative (-) terminal clamp storage point

05. LED worklight

06. Jump Starter control panel

07. Red positive (+) terminal clamp storage point

COMPONENTS & CONTROLS



- | | |
|---|---|
| 12. Internal battery status button | 18. Battery charging LED indicator light |
| 13. LED worklight On/Off button | 19. Battery fully charged LED indicator light |
| 14. USB port On/Off button | 20. 5V DC USB port |
| 15. Low battery LED indicator light | 21. USB On LED indicator light |
| 16. Half full battery LED indicator light | 22. 12V DC power adaptor |
| 17. Full battery LED indicator light | 23. AC transformer charger |

UNPACKING



CAUTION: This packaging contains sharp objects. Take care when unpacking.

Remove the machine, together with the accessories supplied, from the packaging. Check carefully to ensure that the machine is in good condition and account for all the accessories listed in this manual. Also make sure that all the accessories are complete.

If any parts are found to be missing, the machine and its accessories should be returned together in their

original packaging to the retailer. Do not throw the packaging away, keep it safe throughout the guarantee period, then recycle if possible, otherwise dispose of it by the proper means. Do not let children play with empty plastic bags due to the risk of suffocation. Take care when lifting the compressor from the packaging.



CAUTION: This machine is heavy. Get assistance if necessary. This unit weighs 9kg.

CHARGING INSTRUCTIONS



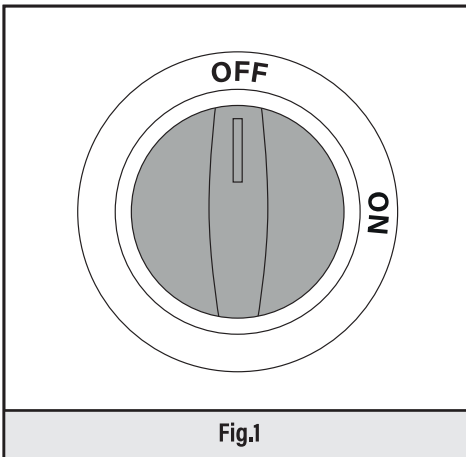
WARNING: Before use, read and understand all the safety instructions listed in this manual before attempting to charge or operate this unit.



WARNING: This product **MUST** be charged for at least 48 hours immediately after purchase and at least once every two months thereafter. A low charge level could shorten the life of the battery.

CHARGING THE JUMP STARTER

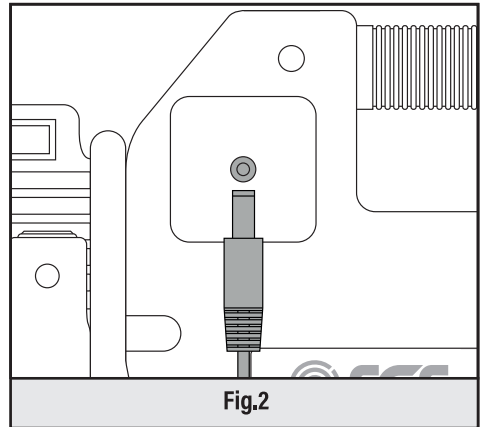
Before charging ensure the On/Off switch is set to the OFF position, Fig.1.



There are two options for recharging the jump starter. The first is via a 230V AC mains power socket, and the other via your vehicle's 12V DC socket.

Option 1: Connect the AC transformer charger to the 12V DC charging input socket (located on the rear of the machine), Fig.2, and a mains power socket.

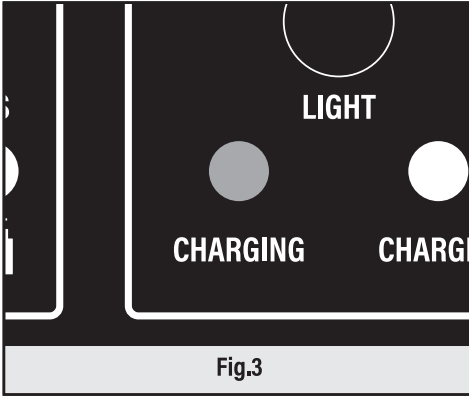
Option 2: Connect the 12V DC power adaptor to the 12V DC charging input socket (located on the rear of the machine), Fig.2, and a vehicle's 12V DC socket.



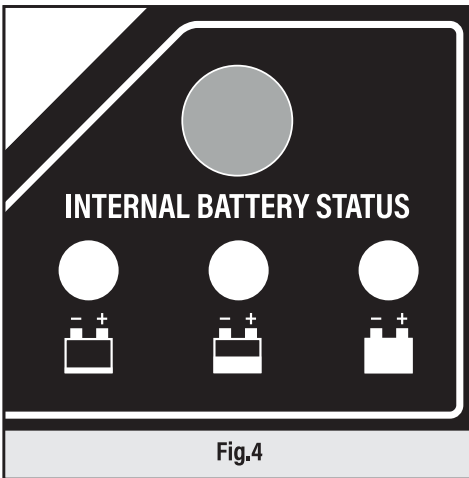
WARNING: DO NOT insert the 12V DC power adaptor into the 12V output socket when charging this product.

CHARGING INSTRUCTIONS

The battery charging LED indicator light illuminates when the product is connected to an active power supply, Fig.3.



You can check the jump starters current charge level by pressing the internal battery status button, Fig.4.



The three battery LED indicators will indicate the battery level's charge as shown below:



Low battery LED indicator light

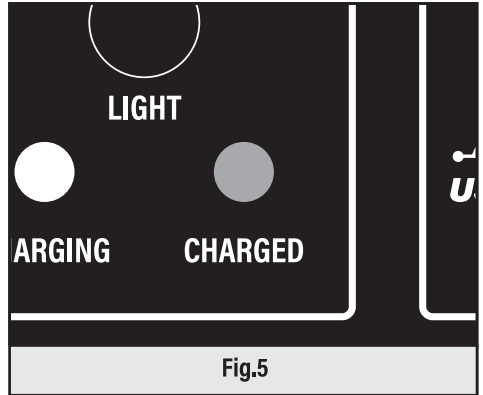


Half full battery LED indicator light



Full battery LED indicator light

When the battery charged LED indicator light illuminates the product is fully charged, Fig.5.



When the battery is fully charged disconnect the charging adaptor from the jump starter.



IMPORTANT: If the product battery has fully discharged, it may take upwards of 48 hours to reach a full charge.

We recommend you primarily charge this power station using the AC transformer charger as much as possible when not in use. This charging circuit is automatic and will not overcharge.



WARNING: If the 12V DC power adaptor is used to charge the product, it **MUST** be supervised at all times. **NEVER** charge the product overnight when using the 12V DC adaptor.

NOTICE: Always connect the 12V DC power adaptor to your vehicles 12V socket before fully igniting your vehicle's engine. Igniting your vehicle's engine will initiate the charge.

OPERATING INSTRUCTIONS



WARNING: Before use, read and understand all the safety instructions listed in this manual before attempting to operate this unit.

JUMP-STARTING A VEHICLE

IMPORTANT: These instructions are intended as a guide only. Always refer to the vehicle and battery manufacturer manuals for specific instructions relating to the vehicle to be jump-started as the procedure varies between vehicles. Any manufacturer instructions relating to other equipment to be used in the immediate area should also be consulted.

IMPORTANT: This product can only help to jump-start engines in good mechanical condition. When cranking the engine of vehicles with higher battery capacities, you may need to pre-charge the vehicles battery for approximately 15 minutes before attempting a jump-start.

IMPORTANT: When jump-starting a diesel engine, preheat the glow plugs before cranking the engine to prevent them from being damaged.



WARNING: NEVER use the jump-start leads to charge a battery. NEVER jump-start a lithium-ion battery.



CAUTION: NEVER attempt to jump-start an engine while other devices are connected to the product.

If the vehicle battery is not maintenance-free or a sealed battery:

- Release or remove the battery caps (if fitted) from the battery.
- Check the acid level in the battery and top up with distilled or deionised water if necessary. **UNDER NO CIRCUMSTANCES SHOULD TAP WATER BE USED**

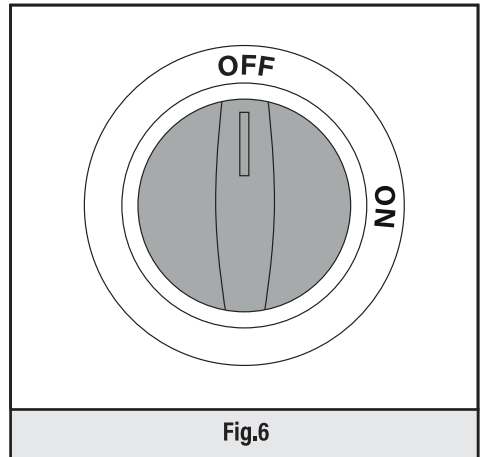


WARNING: Battery acid is aggressive, wear protective gloves and safety glasses. Rinse off any acid splashes thoroughly with plenty of water and seek medical advice if necessary.

- Check the electrolyte density (specific gravity) using a hydrometer (not supplied) to ensure that the acid to water ratio is sufficient.
- Clean the battery terminals with a dry cloth to optimise conduction with the terminal clamps.
- Measure the battery voltage for indications of deep discharge using a multimeter (not supplied) or a similar tool.

IMPORTANT: Deep discharge constitutes discharging the battery to 20% or less of its full charge capacity and can cause significant damage to batteries not intended for use in this way. **DO NOT** attempt to jump-start a vehicle with a deep discharged battery.

Before jump-starting a vehicle ensure the On/Off switch is set to the OFF position, Fig.6.



Connect the red positive (+) terminal clamp of the jump starter to the positive battery terminal.

Connect the black negative (-) terminal clamp of the jump starter to your vehicle's body work.

IMPORTANT: Never connect the black clamp to your battery's negative terminal.

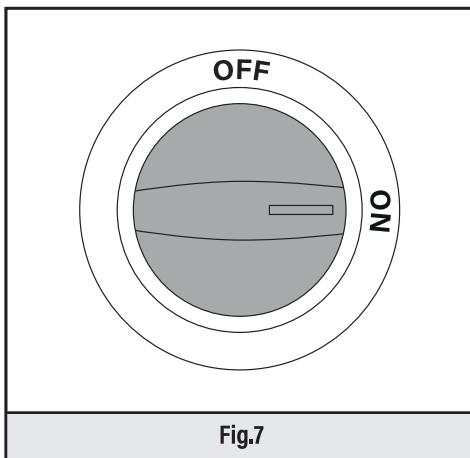
OPERATING INSTRUCTIONS

Make sure the jump starter and leads will not become entangled with any hot or moving parts when the vehicle is started.



IMPORTANT: Make sure that the terminal clamps are correctly connected to the vehicle. Incorrect connection may cause expensive damage to the vehicle, jump starter or cause personal injury. If in doubt consult your vehicles handbook.

If the battery connection is secure set the On/Off switch to the On position, Fig.7.



Wait for approximately one minute to allow the charge in the batteries to equalise.

Turn on the ignition of your vehicle's engine for no more than 3 to 4 seconds. If the vehicle does not start, please wait for 3 minutes before starting again.

Once the engine does start, leave the engine running.

Set the On/Off switch to OFF.

The terminal clamps must be disconnected in the correct order.



WARNING: Failure to disconnect the clamps correctly may cause the jump starter to explode.

Firstly disconnect the black negative (-) terminal clamp from the battery and return the clamp to its storage point.

Disconnect the red positive (+) terminal clamp from the battery and return the clamp to its storage point.



WARNING: DO NOT pull the cable to disconnect the clamps as this could damage the battery or clamps.



WARNING: DO NOT allow the black & red clamps to come into contact with each other.

Refit the battery caps back into position (if removed or released).

NOTICE: We highly recommend that you recharge the jump starter as soon as possible after you have used the product to perform an emergency jump start.

USING AS A POWER STATION

This product can also be used to power a range of 12V appliances (10A maximum) when a mains power supply is not available.



WARNING: DO NOT use this feature when the internal battery is being recharged.

Devices may be connected to the two 12V DC output sockets situated on the front of the product.

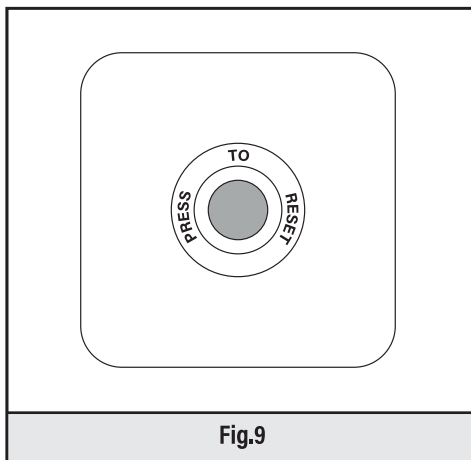
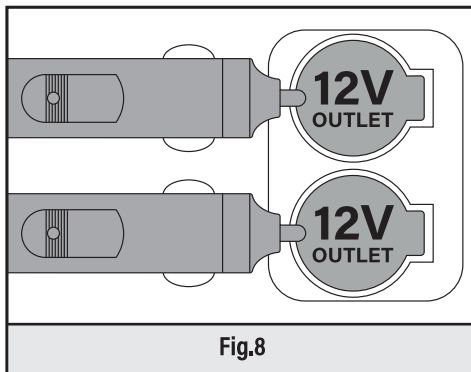
To use a 12V DC output socket first set the On/Off switch to the OFF position.

Simply remove the protective cover and plug in your 12V device fitted with a cigarette lighter plug into the socket, Fig.8.

The use of this feature will discharge the internal battery so it may need recharging before jump-starting is possible.

In the event of overload, remove the cigarette light plug from the socket and press the overload reset button located on the rear of the jump starter, Fig.9.

OPERATING INSTRUCTIONS



WARNING: Disconnect all external devices from the unit when it is placed on charge or used for jump-starting.

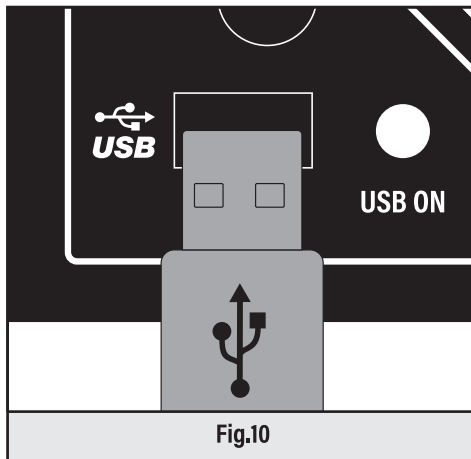
USING THE 5V USB PORT

This port can be used for the charging or operation of any 5V DC appliance fitted with a USB plug.

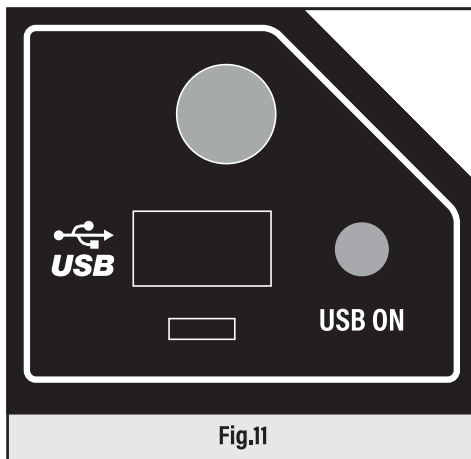


WARNING: DO NOT use this feature when the internal battery is being recharged.

Simply remove the protective cover and plug in your USB device into the USB socket, Fig.10.



To activate the USB port press the USB port On/Off button. The USB On LED indicator light will illuminate, Fig.11.



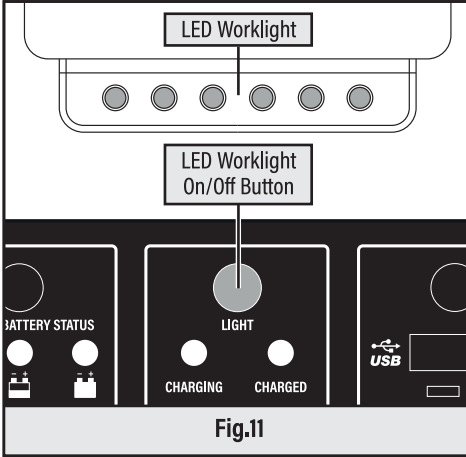
When you have finished using the 5V USB port press the port On/Off button. The USB On LED indicator light will go off and then unplug your USB device.

Replace the protective cover when not in use to protect from dirt and dust.

OPERATING INSTRUCTIONS

USING THE LED WORKLIGHT

The LED worklight can be switched On and Off by pressing the LED worklight On/Off button, Fig.12.



CAUTION: DO NOT use the LED worklight while the unit is being charged.

IMPORTANT NOTES

- Always recharge this product indoors
- Do not recharge in wet or damp conditions
- Always keep this product in an upright position.
- Always use in a well ventilated area
- Switch off when not in use.
- When switched on, do not allow red and black clamp metals parts to touch.

MAINTENANCE & STORAGE



WARNING: Read all the Health and Safety information in this manual before attempting to maintain this product. All maintenance should be carried out only by authorised and suitably qualified personnel.



WARNING: Ensure that the jump-start terminal clamps are isolated and that no other loads are active on the product before performing any maintenance.

Charge the unit for at least 48 hours immediately after purchase and at least once every two months thereafter. A low charge level could shorten the life of the battery.

When charging the unit using the 230V AC transformer charger, monitor it regularly to reduce the risk of incidents during charging.

When charging the unit using the 12V DC power adaptor, it must be supervised at all times and never be left unattended.

For best results, use the AC transformer charger and keep the product on charge as much as possible.

DO NOT allow the on-board battery to become completely flat before recharging.

Keep all ventilation slots and output ports clean from dust and dirt.

Clean the product regularly using a dry cloth.

Use a dry cloth to wipe all battery corrosion and other dirt or oil from the terminal clamps.



CAUTION: NEVER use aggressive chemicals to clean the product as these may damage the product housing.

MAINTENANCE & STORAGE

Store the product in a clean and dry location, out of direct sunlight and out of reach of children.

Ensure all port covers are closed and sealed when storing the product.

Ensure that there are no metallic objects nearby that may fall onto the battery and connect the terminals.

Ensure that the jump-start terminal leads are tidy and wrapped around the terminal cable storage slots when the product is stored.

Ensure that the jump-start terminal clamps are housed in their storage points when the product is stored.

Store the product in its upright position.

When stored for extended periods of time, charge the battery periodically to maintain the battery health.

IMPORTANT: Poor storage conditions may significantly reduce the performance capabilities and lifespan of this product.

TROUBLESHOOTING

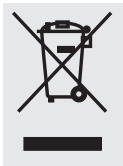
PROBLEM	CAUSE	SOLUTION
The jump-start leads are not powered.	The On/Off switch is in the OFF position.	Turn the On/Off switch switch to the ON position.
	The battery terminals or terminal clamps are dirty and cannot conduct the current.	Clean the battery terminals and clamps and retry.
	The jump leads are damaged or faulty.	Disconnect the jump leads immediately and contact SGS engineering for support.
	The jump starter has low or no charge.	Disconnect and isolate the jump leads and charge the product.
The 12V output socket is not working.	The 12V output socket is clogged or obstructed.	Use compressed air to remove any debris inside the port.
	The 12V output socket is damaged or faulty.	Contact SGS engineering for support.
The USB port is not working.	The USB port is not switched on.	Press the USB port On/Off button to activate the port; the USB On LED indicator light illuminates when the port is switched on.
	The port is clogged or obstructed.	Use compressed air to remove any debris inside the port.
	The port is damaged or faulty.	Contact SGS engineering for support.

SERVICE

Now that you have purchased your tool, should a need ever exist of repair or service, simply contact your nearest SGS Engineering Authorised Service Centre or other qualified service organisation. Be sure to provide all pertinent facts when you call or visit.

ENVIRONMENTAL PROTECTION

Information for (private householders) for the environmentally responsible disposal of Waste Electrical and Electronic Equipment (WEEE)



This symbol on products and or accompanying documents indicates that used and end of life electrical and electronic equipment should not be disposed of in household waste. For the proper disposal, treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your retailer upon the purchase of an equivalent new product. Disposing of this product correctly will help to save valuable resources and prevent any potential adverse effects on human health and the environment which could otherwise arise from inappropriate waste disposal and handling. Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste in accordance with national legislation.

FOR BUSINESS USERS IN THE EUROPEAN UNION.

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union.

This Symbol is only valid in the European Union. If you wish to dispose of this product, please contact your local authorities or dealer and ask for the correct method of disposal.

EC DECLARATION OF CONFORMITY

1. **Product model:** SJS22

2. **Name and address of the manufacturer or his authorised representative:**



SGS Engineering (UK) Ltd
Unit 1 West Side Park, Raynesway, Derby, DE21 7AZ
Telephone: +44 (0)1332 576 850

3. **This declaration of conformity is issued under the sole responsibility of the manufacturer.**

4. **Object of the declaration:**

Equipment: 12V Rechargeable Jump Starter
Brand name: SGS
Model/type: SJS22

5. **The object of the declaration described above is in conformity with the relevant statutory requirements:**

Electrical Equipment (Safety) Regulations 2016
Electromagnetic Compatibility Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

6. **References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:**

BS EN 62368-1	BS EN 55014-2
BS EN 55032	BS EN 61000-3-2
BS EN 55035	BS EN 61000-3-3
BS EN 55014-1	

7. **The person authorised to compile the technical file:**

Name: Neil Sansom
Address: SGS Engineering (UK) Ltd, Unit 1 West Side Park, Raynesway, Derby, DE21 7AZ

Signed for and on behalf of:

Authorised Representative

A handwritten signature in black ink, appearing to read 'Neil Sansom', written over a light grey background.

Neil Sansom, CEO
Date: 24/06/2025

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