Clarke®

JUMPSTARTER

MODEL NO: JS1224Li

PART NO: 6487077

OPERATING & MAINTENANCE INSTRUCTIONS

UK CA CE

Li-ion

ORIGINAL INSTRUCTIONS

GC0325 Rev 1

INTRODUCTION

Thank you for purchasing this CLARKE Jump-start.

The JS1224Li is a rechargable power pack which can be used to start a car in the event of a flat battery. The unit can also be used to power electrical appliances via a cigarette lighter type socket using the adaptor supplied. The unit also incorporates a built-in lamp and may be used as a stand alone light source**.** A visual warning will appear in the event that the clamps are incorrectly fitted for jump starting (wrong polarity).

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

Please keep these instructions in a safe place for future reference.

SPECIFICATIONS

Item	Specification
Weight	2.8 kg
Insulation Class	Class III (Device) / Class II (Charger)
Max Output Current (12V)	Starting 600A Peak 1200A
Max Output Current (24V)	Starting 300A Peak 600A
Input Voltage/Current	15 V / 1A
Battery Type	Sealed re-chargeable lithium-ion 12.8V/32,000 mAh
Auxiliary (Lighter) Socket output	12V DC /10A
USB2 Power Supply	5 V DC - 2A
Estimated engine starting capacity	Up to 5 litres (diesel) or 8 litres (petrol)
Maximum cranking time	8 seconds
Full charging time	10 hours
LED flashlight	3W/350 lumens

Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice.

GENERAL SAFETY RULES

1. **ALWAYS** ensure when jump-starting that air can circulate freely around the jumpstart.
2. **NEVER** allow the negative and positive leads on this unit to touch each other or to touch the same metal object.
3. Although the jump-start is water resistant and may be used outdoors, **DO NOT** leave it exposed to the elements. Avoid direct sunlight, direct heat, rain/moisture etc.
4. This jump-start is designed for use with 12V or 24V electrical systems.
5. **DO NOT** operate the jump-start if any of the cables are damaged. Consult your Clarke dealer for repair or replacement.
6. **DO NOT** operate the jump-start if the case is damaged. Consult your Clarke dealer or a qualified person for inspection and repair.
7. Ensure the vehicle battery posts and battery clamps are perfectly clean before use.
8. When connecting the jump-start leads to a battery, ensure the ON/OFF switch is OFF, and ALWAYS connect the RED, (positive'+') output conductor to the UNEARTHED (+) battery terminal FIRST, then connect the BLACK, (negative) conductor to a suitable earthing point on the chassis, well away from any fuel lines.
9. **ALWAYS** wear suitable protective clothing and eye protection when working with lead-acid batteries.
10. The jump-start is NOT designed to be used as a replacement for the vehicle battery.
11. **DO NOT** attempt to BOOST CHARGE the jump-start's sealed battery.
12. **NEVER** allow the cables to become wrapped around the operator or any other person.
13. **NEVER** attempt any repairs yourself. If you have a problem with the jump-start contact your local Clarke dealer.
14. **ALWAYS** keep your body and clothing dry. Never work in damp area without adequate insulation against electric shock.
15. **NEVER** jump-start the engine whilst the jump-start is being charged.
16. **ALWAYS** store the jump-starter out of reach of children.
17. If splashed by battery acid, immediately flush the area of the splash with clean water. If a burning sensation is felt or any blistering occurs, seek medical help.

18. If acid comes into contact with the eyes, flush the eyes with clean water continuously and seek medical help.

WARNING: ALL LEAD ACID BATTERIES IN VEHICLES GENERATE HYDROGEN GAS DURING NORMAL OPERATION. OVERCHARGING A BATTERY CAN PRODUCE HYDROGEN SULFIDE GAS WHICH IS POISONOUS TO BREATHE. ALWAYS CHARGE CAR BATTERIES IN A WELL VENTILATED SPACE.

WARNING: HYDROGEN GAS AND BATTERY ACID (SULPHURIC ACID) CAN BE: EXPLOSIVE, CORROSIVE TO SKIN, EYES AND HAIR, DAMAGING TO CLOTHING AND METALS, FLAMMABLE, POISONOUS TO BREATHE

ENVIRONMENTAL RECYCLING POLICY

Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste but in accordance with the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

ELECTRICAL SYMBOLS DISPLAYED ON THE PRODUCT

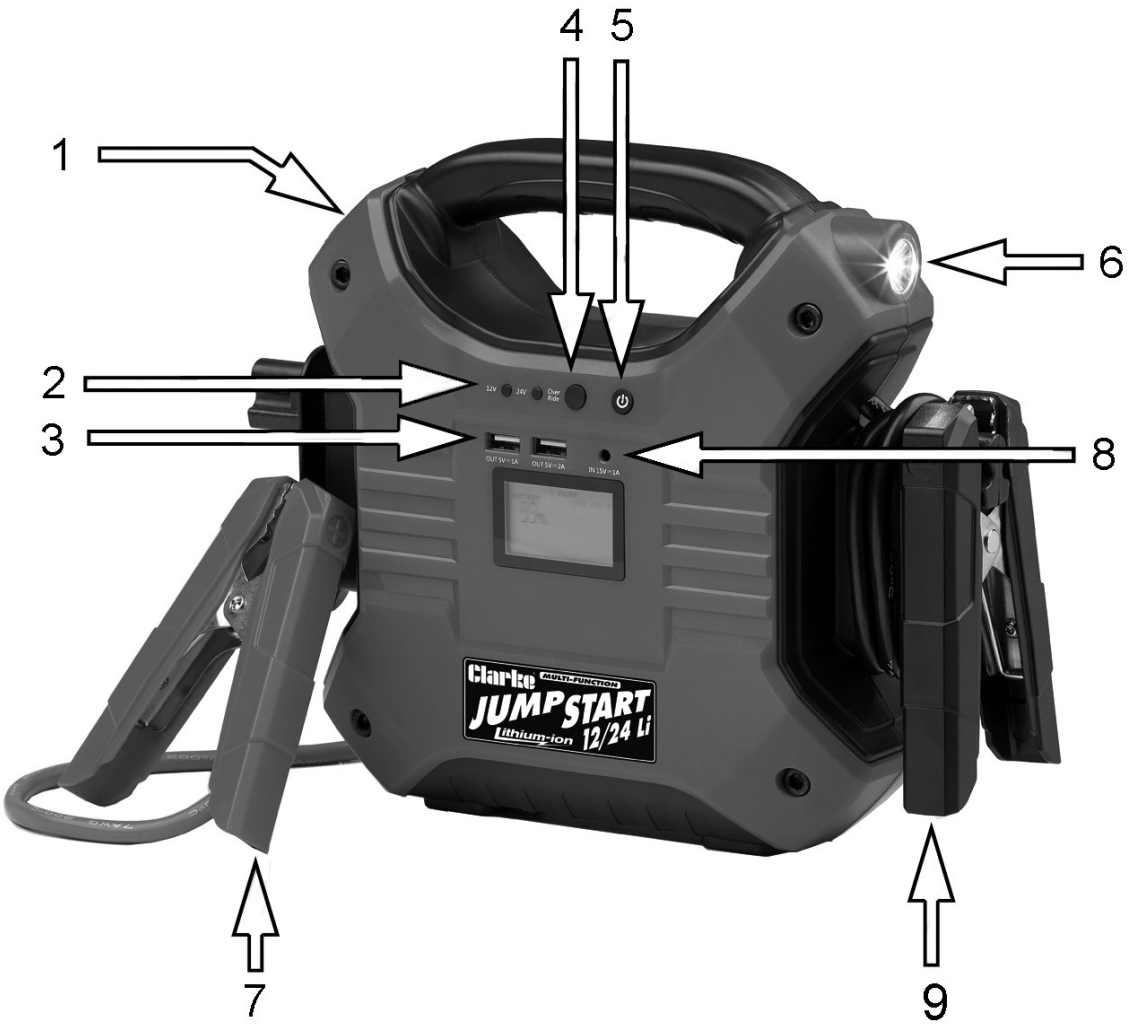
Always read instructions before use

Insulation Class III appliance

Class II appliance without an earth connection (charger only)

Positive tip plug (charging lead)

COMPONENT IDENTIFICATION

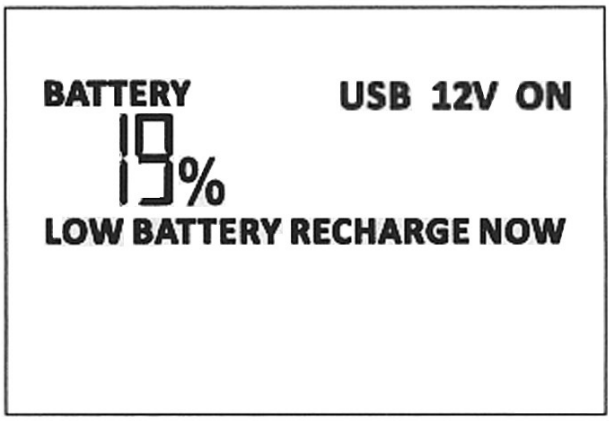


1	12V DC Outlet Port	6	LED Light
2	Voltage Selector Buttons	7	Positive Battery Connecting Lead
3	USB Outlet Ports	8	Charger Input Socket
4	Override Button	9	Negative Battery Connection Lead
5	Power Button		

CHARGING SYSTEMS

CHECKING THE BATTERY CHARGE LEVEL

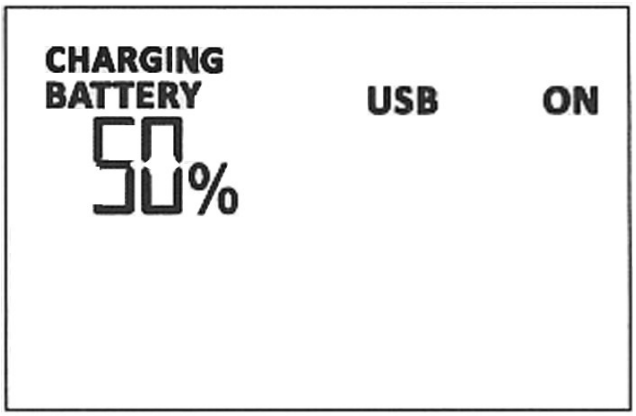
1. Press the Power button.
   - The digital display will show the battery's percent of charge and "USB 12V ON".
   - If the charge is below 20%, the display will show "LOW BATTERY-RECHARGE NOW". Charge the battery before use.



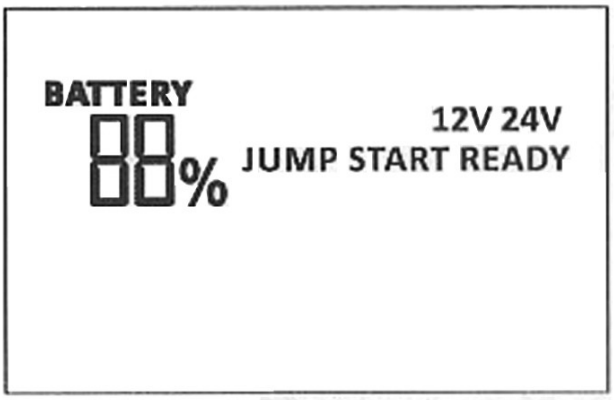
INITIAL BATTERY CHARGING

WARNING: ONLY USE THE CHARGER SUPPLIED WITH THE JUMP STARTER. USING OTHER CHARGERS MAY DAMAGE THE UNIT. ALWAYS CHARGE IN A WELL VENTILATED AREA AND ON A NON-FLAMMABLE SURFACE. DO NOT USE THE JUMP STARTER WHILE IT IS BEING CHARGED.

1. Charge your jump-start battery fully before using it for the first time.
   - During charging, the display will show the current charge level. When the display shows 100%, the internal battery is fully charged.



   - When the battery has been charged sufficiently to perform in service, the display will show the current charge level and show "JUMP START READY".
   - At this stage the battery may not be fully charged.

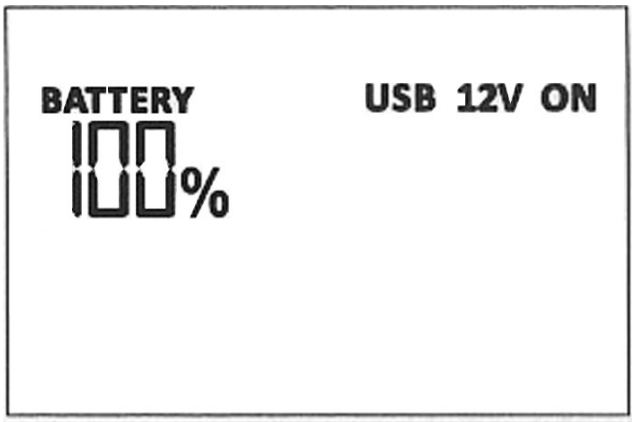


USING THE MAINS CHARGER

1. Plug the charger into a mains power outlet.
2. Insert the charging connector into the Charging Input socket on the jump starter control panel.
    - The digital display will show "**CHARGING BATTERY**" and a reading of the battery's percent of charge will be displayed.
    - The display will show "100%" once the internal battery is fully charged.
3. When charging is complete, unplug the charger and disconnect it from the jump starter.
4. Recharge the jump-start battery after every use if possible, or at least every 90 days.
5. Always avoid leaving your jump-start in a discharged state.
    - Charging could take several hours, dependant upon the state of charge. Keep the battery charged to ensure maximum life from the battery.

RUNNING/CHARGING USB DEVICES

The jump starter has two standard USB ports providing up to 2A at 5V DC.



1. Press the Power Button.
    - The screen will show the battery level and "USB 12V ON".
2. Plug the USB connector into the USB output port on the front panel of the jump starter.
3. Plug the appropriate connector on the USB cable into the device.
4. Turn your device on if necessary.
5. When finished using, turn off your device and unplug it from the USB cable.

RUNNING/CHARGING DC APPLIANCES

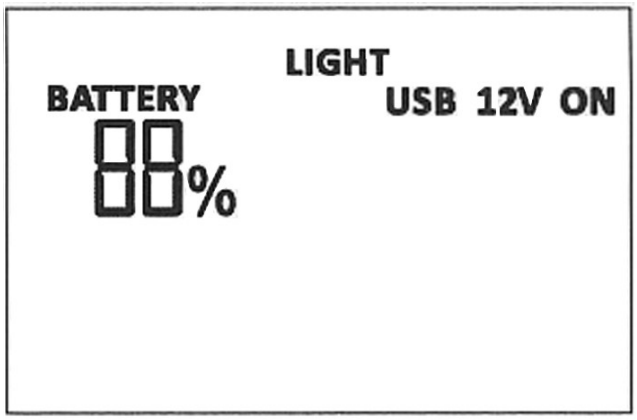
The standard auxiliary outlet socket provides a continuous 12V DC output, at a maximum of 10 Amps to power 12V DC devices such as tyre inflators, coolers etc.

1. Verify the jumpstarter is fully charged. Recharge if needed.
2. Make sure the appliance to be powered is turned off and its power requirements do not exceed 10A.
3. Plug the appliance into the 12V auxillary outlet socket.
4. Turn on the appliance.

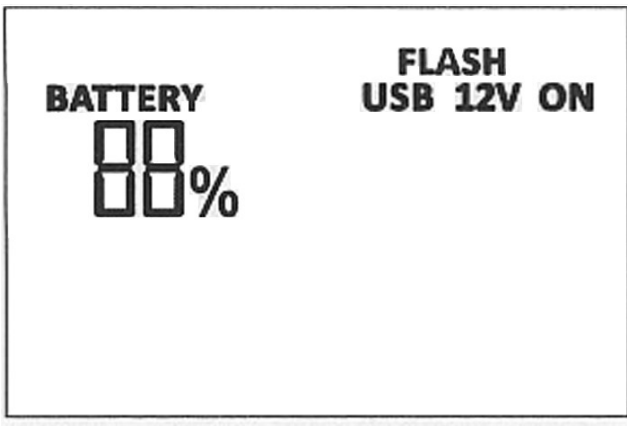
5. When finished, turn off and unplug the appliance.
6. Recharge the jump starter.

USING THE LED WORK LIGHT

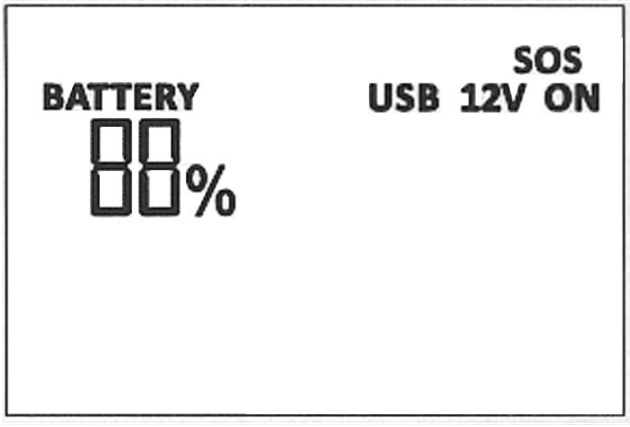
1. Press and hold the Power button about 2 seconds to turn the light on.
   - The screen will show "LIGHT" and the battery level.



2. For the flashlight, press the Power button again.
   - The screen will show "FLASH" and the battery level.



3. For an SOS signal, press the Power Button again.
   - The screen will show "SOS" and the battery level.



4. To turn the light off, press the Power button again.

JUMP STARTING A VEHICLE (12V OR 24V)

WARNING: FAILURE TO FOLLOW THE INSTRUCTIONS BELOW AND THE SAFETY INSTRUCTIONS ON PAGES 3/4, MAY RESULT IN PERSONAL INJURY, DAMAGE TO THE VEHICLE, OR THE POSSIBILITY OF A BATTERY EXPLOSION. NEVER ATTEMPT JUMP STARTING WITH DAMAGED CABLES.

CAUTION: TO AVOID DAMAGE TO THE VEHICLE'S ELECTRICAL SYSTEM, DO NOT USE THE JUMP STARTER ON A VEHICLE THAT HAS NO BATTERY INSTALLED.

CAUTION: DO NOT PRESS THE OVERRIDE BUTTON IF THERE IS ANY CHARGE PRESENT IN THE VEHICLE BATTERY. IT WOULD CAUSE PERMANENT DAMAGE TO VEHICLES' ELECTRICAL SYSTEM.

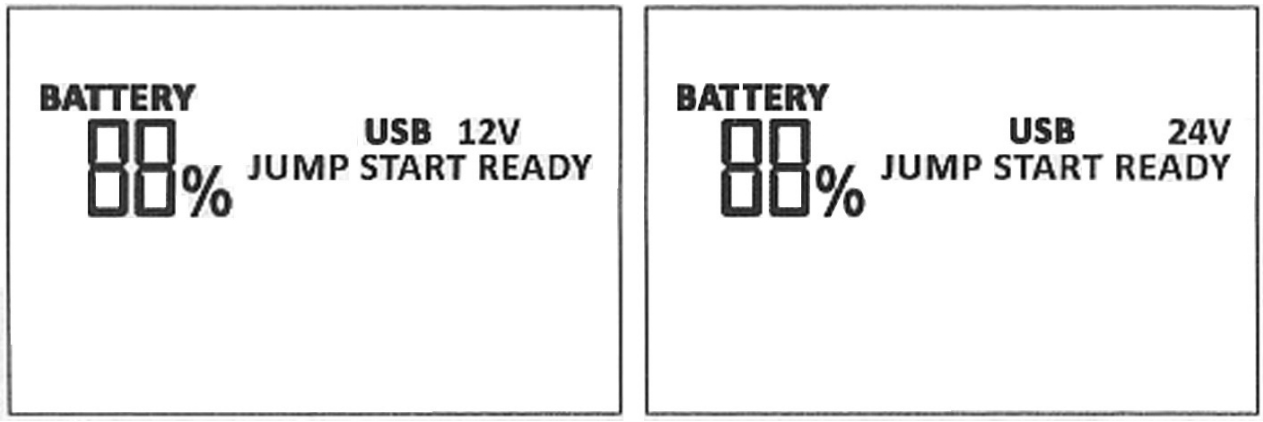
CAUTION: DO NOT TOUCH POSTIVE AND NEGATIVE BATTERY CLAMPS TOGETHER.

Always carry out the following preliminary checks before connecting the jump-start to the car battery:

- Make sure that the vehicle ignition and all ancillary equipment - lighting, radio etc, is switched off.
- Make sure that the vehicle battery is rated at 12V or 24V and is not damaged in any way.
- Make sure that the battery terminals are clean and the clamps are firm and secure.
- If fitted, remove any vehicle battery filler plugs and check the electrolyte level. If necessary, top up with distilled water.
- Make sure that the area is well ventilated.
- Take great care not to touch the red positive (+) clamp against the black negative (-) clamp.

5. Verify the jump starter is fully charged and recharge if needed.
6. Make sure that the jumpstart is OFF.
7. Turn off the vehicle ignition switch and all accessories (lights, radio, climate control, etc.)
8. Connect the red positive (+) clamp to the positive (+) battery terminal first. Take care the clamp does not touch any moving parts or fuel lines.

9. Connect the black negative (-) clamp to the negative (-) battery terminal or to a suitable earthing point on the vehicle chassis ensuring the connections are firm and secure.
10. When the correct connection has been made, the screen will show either "12V JUMP START READY'" or "24V JUMP START READY"and the battery level.

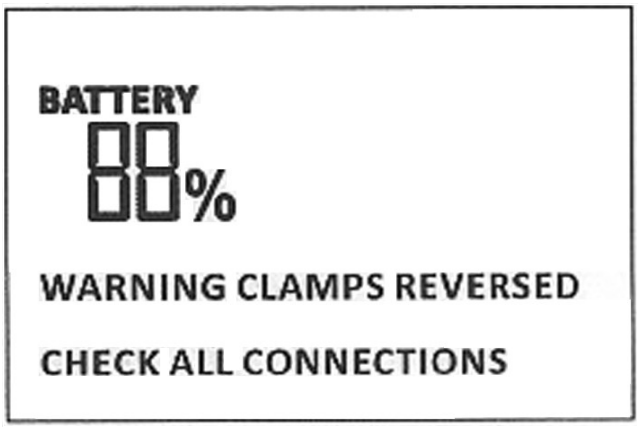


11. Crank the engine.
12. **If the vehicle does not start after 5 to 8 seconds, stop, then wait a minute before trying again.**
13. Once the engine is running, disconnect the earthed clamp FIRST i.e. that connected to the chassis or Negative terminal etc, and return it to its storage position, then disconnect the Positive clamp from the battery terminal, and restore to its storage position.
14. Recharge the jump starter after use.
    - If the battery is allowed to remain in a discharged state, its life may be shortened.
    - Regularly check the charge level of the battery by pressing the Power button on the front panel.

WARNING: IT IS POSSIBLE THAT SOME ELECTRONIC EQUIPMENT COULD BE DAMAGED BY JUMP STARTING. ALWAYS CHECK WITH THE CAR MANUFACTURER'S HANDBOOK TO DETERMINE WHAT PRECAUTIONS IF ANY SHOULD BE TAKEN.

ALARMS

If the clamps are wrongly connected to the battery, the screen will show "**WARNING - CLAMPS REVERSED"**check all the connections immediately**.**



The polarity is reversed so you need to disconnect the unit and reverse the clamps. Turn the unit back on and resume operation.

If the clamps are accidently touched together there is no alarm as the unit is protected against this situation.

USING THE OVERRIDE BUTTON

WARNING: DO NOT USE OVERRIDE BUTTON UNLESS THE JUMP STARTER FAILED TO DETECT VEHICLE'S BATTERY WORKING VOLTAGE.

When vehicle's battery is completely dead the jump starter will not detect battery voltage automatically. You will need determine the working voltage and "override" the jump start.

1. Determine the voltage of the battery by referring to the vehicle owners manual and make sure that the output voltage of the jump starter is correct.
2. Confirm the correct voltage of electrical system you are going to jump-starting is 12V or 24V.
3. Turn off the vehicle ignition switch and all accessories (lights, radio, climate control, etc.)
4. Connect the red Positive Battery Clamp to vehicle's positive battery terminal. Then connect the black Negative Battery Clamp to the vehicles negative battery terminal.
5. Make sure all connections are correct.
6. Press the Override button.
7. Press and hold the correct voltage button that matches your vehicle for about 2 seconds.
   - The screen will show "JUMP START READY" at the voltage you have selected.
8. Crank the engine within 30 seconds.
9. If the vehicle does not start after 5 to 8 seconds, stop, and wait a minute before trying again.

10. After the vehicle is started, remove the black negative battery clamp first, then the red positive clamp.
11. Recharge the jump starter.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Unit beeps and screen shows "OUTPUTS LOCKED"	Battery clamps are connected backwards (reverse polarity) or there is a short circuit.	Disconnect clamps immediately. Connect them correctly and turn the unit back on to resume operation.
Unit fails to jumpstart vehicle	Broken clamps/cable Low battery. Unit damaged internally	Have damaged items replaced. Recharge the jumpstarter battery. Take the unit to your Clarke dealer for repair.
Screen shows OUTPUTS LOCKED and keeps flashing	Attempt to jumpstart more than 3 times in a short interval.	Jumpstart is in protection mode to protect its self from overheating. Wait for 2 minutes while the battery cools down before resuming operation.
Screen is blank with no message shown	USB output or 12V DC output overload or a short circuit. Unit protection has been tripped Low battery.	Press power button to unlock the unit and resume operation. Recharge the jumpstarter.

If these remedies are unsuccessful, consult your Clarke dealer.

DAILY CARE

ALWAYS ensure the cables & clamps are in good condition and the clamps are clean and corrosion free. If damaged they should be replaced. Keep the unit clean by wiping with a dry cloth. **DO NOT** use solvents as a cleaning agent.

Keep the unit fully charged at all times.

Always turn the jump-start OFF during storage and store in an upright position, away from direct sunlight, moisture or sources of extreme heat or cold.

NEVER attempt any repair unless your are a qualified technician. Your Clarke jump-start has been designed to give long and trouble free service. If, however, having followed the instructions in this booklet carefully, you encounter problems, take the unit to your local Clarke dealer.

GUARANTEE

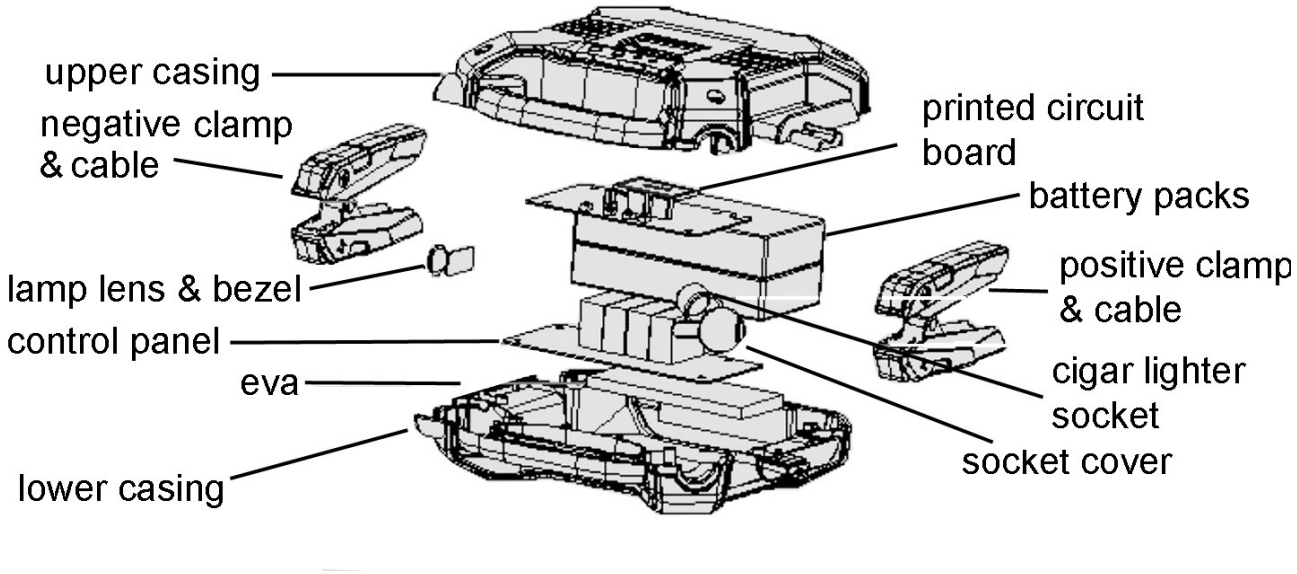
This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

SPARE PARTS



Spare parts are available as follows	
1	Lithium Ion Battery Pack
2	USB 3-way Adapter Lead
3	230 Volt Charger/Lead
4	Lamp Lens
5	Lamp Bezel
6	Positive Battery Connection Lead
7	Negative Battery Connection Lead
8	Positive (red) Clamp
9	Negative (black) Clamp
10	Printed Circuit Board
11	Socket Cover

UK CA

Clarke® INTERNATIONAL

Hemnall Street, Epping, Essex, CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation:

2006/66/EC	*Battery Directive*
2014/30/EU	*Electromagnetic Compatibility Directive*
2014/35/EU	*Low Voltage Directive*
2011/65/EU	*Restriction of Hazardous Substances (RoHS) Directive*

The following standards have been applied to the product(s):

EN 61000-3-3:2013+A1+A2, EN 55032:2015+A11:2020, EN IEC 55014-1:2021, IEC 62321-3-1:2013, EN IEC 62368-1:2020+A11:2020, EN 61000-3-3:2013+A1:2019, IEC 62321-5:2013, EN 55035:2017, IEC 62321-4:2013+AMD1:2017, EN IEC 61000-3-2:2019+A1, IEC 62321-6:2015, IEC 62321-8:2017, EN IEC 55014-2:2021, IEC 62321-7-1:2015, IEC 62321-7-2:2017

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The UKCA mark was first applied in: 2025

Product Description: Jump Starter

Model Number(s): JS1224LI

Serial/Batch Number: Refer to product/packaging label

Date of Issue: 21/03/2025

Signed:

J.A Clarke

Director

CE

Clarke® INTERNATIONAL

Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

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The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2017

Product Description: Jump Starter

Model Number(s): JS1224LI

Serial/Batch Number: Refer to product/packaging label

Date of Issue: 21/03/2025

Signed:

J.A Clarke

Director

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