Clarke®

CE

Jumpstart 910

Part Number 6240020

Operating & Maintenance Instructions

IMPORTANT NOTICE

YOU MUST CHARGE THE BATTERY BEFORE USE.

See the notes on page 6

If you have any problems using your Jumpstart, call the

Clarke Helpline on,

020 8988 7400

Press 1 for Parts : 2 for Technical Assistance

SPECIFICATIONS

Model Number	Jumpstart 910
Part Number	6240020

Battery Type	Sealed, Lead Acid,
	Rechargeable,
	Maintenance Free
	12V DC
	17 AH
Voltage Output	12 Volts DC
Bulb Type	12V, 3.6Watt, Screw type
Air Compressor Max output	16 bar (240psi)

PARTS AND SERVICE

For Spare Parts and Servicing, please contact your local dealer, or Clarke International on one of the following Numbers:

Parts and Service Tel: 020 8988 7400

Parts and Service Fax: 020 8558 3622

or e-mail as follows:

Parts: Parts@clarkeinternational.com

Service: Service@clarkeinternational.com

Thank you for purchasing this Clarke Jumpstart. Before using please read these instructions. This is for your own safety and that of others around you, and to help you achieve long and trouble free service from the Jumpstart unit.

GUARANTEE

This product is guaranteed against faults in manufacture for 12 months from purchase date. Keep your receipt as proof of purchase. This guarantee is invalid if the product has been abused or tampered with in any way, or not used for the purpose for which it is intended. The reason for return must be clearly stated. This guarantee does not affect your statutory rights.

FEATURES AND USE

The Jumpstart 910 is a rechargeable 12 Volt power supply, ideal for starting vehicles in the event of a flat battery. The Jumpstart may also be used to power 12V appliances, such as Mobile Phones, Radios, Electric Coolers etc. Additionally a battery powered air compressor is available to inflate tyres, air beds, footballs etc, and a built in lamp may be used as a stand alone light source.

SAFETY PRECAUTIONS

✗ **NEVER** allow the negative and positive leads, on this unit, to touch or to touch the same metal object.

✗ Although the Jumpstart is water resistant and may be used outdoors, **DO NOT** leave it exposed to the elements. Avoid direct sunlight, direct heat, rain/moisture etc.

✗ The Jumpstart is designed for use with 12V systems **ONLY**.

✗ **DO NOT** operate the Jumpstart if the case or any of the cables are damaged. Consult your Clarke dealer for repair or replacement of the parts.

✗ To prevent battery overheating and consequent damage, **DO NOT** exceed our recommendations for jump starting.

✗ The Jumpstart is **NOT** designed to be used as a replacement for a vehicle battery.

✗ **DO NOT** attempt to BOOST CHARGE the Jumpstarts' sealed battery.

✗ **DO NOT** allow the battery, at any time, to become completely discharged.

✗ **NEVER OPERATE THE AIR COMPRESSOR FOR MORE THAN 10 MINUTES.** Wait a further 10 minutes (minimum) before restarting

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✔ When connecting the Jumpstart leads to a battery, **ALWAYS** connect the RED, (positive, +ve) output conductor to the **UNEARTHED** battery terminal **FIRST**, then connect the BLACK, (negative, -ve) conductor to the chassis or suitable engine bolt, well away from the battery and fuel line.

✔ **ALWAYS** ensure the vehicle battery posts and battery clamps are perfectly clean before use.

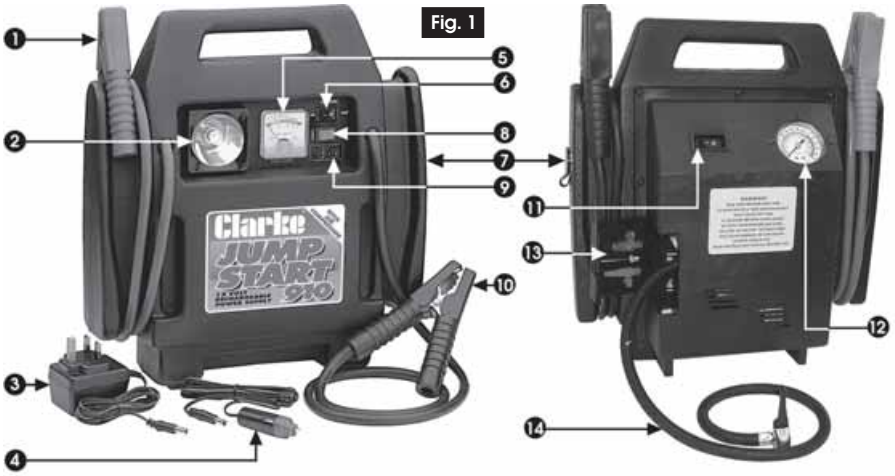
✔ **ALWAYS** ensure the area is well ventilated When jumpstarting.

✔ **ALWAYS** wear suitable protective clothing and eye protection when working with lead acid batteries.

⚠ ***WARNING! It is possible that some electronic equipment could be damaged by jump starting. ALWAYS check with the manufacturers handbook to determine whether or not precautions should be taken.***

PARTS IDENTIFICATION

Fig. 1



1. **Positive Battery Connection Lead** to connect to the positive battery terminal
2. **Lamp** to provide light for roadside repairs or emergency situations
3. **230/12V Transformer** for charging internal battery pack
4. **Cigarette Lighter Adaptor** for charging internal battery pack
5. **Volt Meter** to indicate the state of charge of the internal battery
6. **Lamp ON/OFF Switch** switches the lamp ON or OFF
7. **Cigar Lighter Socket** for use with the cigar lighter adapter provided (Item 4)
8. **Voltage Test Switch** press to indicate the internal batteries power level
9. **12 DC Socket** connects the 230 Volt charger to allow mains charging
10. **Negative Battery Connection Lead** to connect to the negative battery terminal
11. **Air Compressor ON/OFF** switch
12. **Air Pressure Gauge**
13. **Adapters**
14. **Air Hose**

SPARE PARTS (Ref. Fig.1)

No.	Description	Part No.
1	Positive Battery Connection Lead	HT90001
2	Lamp Bezel c/w lens	HT90003
3	230V Battery Charger	HT90006
4	Cigarette Lighter Adapter	HT90007
10	Negative Battery Connection Lead	HT90002
-	Battery 12V 17AH	HT90005
-	Air Compressor c/w Air Gauge	HT91001
13	Adapters (Set of three)	HT91002
14	Air Hose w/connector and worm drive Clip	HT91003

PUTTING TO USE

A. Jump Starting

***ALWAYS* carry out the following preliminary checks before connecting the Jumpstart to the battery:**

- Ensure the vehicle ignition and ALL ancillary equipment - lighting, radio etc., is switched OFF.
- Ensure the vehicle battery is rated at 12V and is not damaged in any way.
- Ensure the battery terminals are perfectly clean and the clamps are firm and perfectly secure.
- Remove vehicle battery filler plugs and check electrolyte level. If necessary, top up with distilled water.

When completely satisfied, proceed as follows:

1. Connect the red clamp to the unearthed battery terminal first, (this is usually the positive (+ve) terminal and painted RED), then the black clamp to the chassis or engine bolt, well away from the fuel lines or moving parts, ensuring the connections are firm and secure.
2. Switch the vehicle ignition ON, and leave in this condition **FOR APPROX TWO MINUTES.** (This will provide the vehicle battery with a short 'boost' charge to allow for easier starting).
3. Switch the ignition to 'start', for NO MORE than 6 seconds. ***If the engine does not start, within this time, SWITCH OFF the ignition and wait for at least 3 minutes before trying again.***

Once the engine is running, disconnect the earthed clamp FIRST i.e. that connected to the chassis or engine bolt etc., and return it to its storage position, then disconnect the unearthed clamp, from the battery terminal, and restore to its storage position.

IMPORTANT!

As soon as possible after use, recharge the Jumpstart battery.

B. Using as a 12Volt Power Supply

A Cigarette lighter type socket located on the side of the casing (see Fig.1, 7). allows connection, via a standard DC adapter (supplied),to other DC electrical equipments.

The table below indicates the approx. operating time from a fully charged battery.

⚠ *WARNING: Be Aware that a fully charged 12V battery can have an output of approx.13.5V. Consult the appliance handbook to ensure it is safe to operate from a 12V battery.*

Estimated Use	Electrical Appliance
30 Hours	Cell Phones
21 Hours	Radios, Fans
12 Hours	Camcorder, VCR, Spotlight
7 Hours	Electric Tools, Bilge Pump

C. Using the Air Compressor

For inflating tyres, attach the air hose to the tyre by pushing the connector down firmly on the tyre adapter and locking in place by turning the connector locking lever through 90 degrees.

Switch ON the compressor. The gauge will indicate the air pressure in the line.

Three adapters are also provided which allow the compressor to be used for inflating air beds, footballs etc. Select the appropriate adapter and push the threaded end firmly into the air hose connector, locking it in place by turning the connector locking lever throuh 90 degrees.

⚠ *WARNING! DO NOT run the compressor for more than 10 minutes. Allow a 10 minute period to elapse before switching ON again.*

CHARGING THE BATTERY

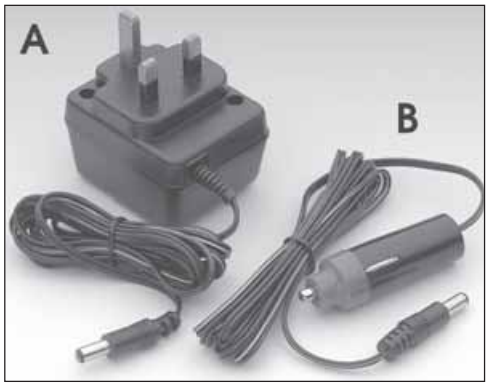
IMPORTANT!

1. **You MUST Charge your Jumpstart battery before using for the first time. (See 'A' below).**
2. **You should ALWAYS recharge the battery after every use.**
3. **You should ALWAYS recharge the battery every 3 months**
4. **You should NEVER leave your Jumpstart 910 battery in a state of discharge.**

Follow the above rules to ensure maximum working life from your Jumpstart battery

Two means of charging the battery are provided.

Fig. 2



1. Via a 230V supply, using the 230V charger with cable and DC plug provided, shown at `A' Fig.2.

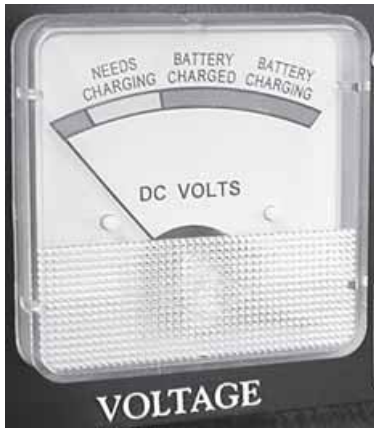
2. Via a 12V vehicle supply using the cigar lighter adapter with cable and plug provided, shown at `B' Fig.2.

A 5 amp fuse is fitted within the cigar lighter plug adapter, accessed by unscrewing the end cap of the adapter. Take care not to loose the spring when unscrewing the cap.

NOTE : Using a 12V vehicle supply, the battery will not charge to its maximum, but only to approx. 50% of its capacity.

A. ....using the 230 Volt Charger

Fig. 3



1. Plug the adapter into the socket at the front of the unit, then the transformer into the mains supply and switch ON. The red LED will illuminate to denote charging is in progress.

2. Continue to charge until the RED charging light goes OUT. **It is important to note that this could take several days, depending upon the state of charge of the battery.**

NOTE: Pressing the 'TEST' button, with the charger disconnected, will cause the needle on the voltmeter to register the state of charge of the battery.

Once the charger is disconnected, it will be noted that the voltage will slowly settle back. This is quite normal and should not cause alarm.

When the LED extinguishes, charging will automatically stop, indicating that the battery is at maximum capacity,

IMPORTANT! DO NOT allow the needle to enter the RED zone as this could damage the battery

B. ....using the 12 Volt Adapter

1. Plug the small adapter into the socket at the front of the unit, then the cigarette lighter adapter into the receptacle on the vehicle and start the engine. The red LED will illuminate to denote charging is in progress.

2. Continue to charge until the voltmeter registers 'Battery Charged' when the 'TEST' button is pressed, **WITH THE CHARGING CURRENT DISCONNECTED**. i.e., disconnect the cigarette lighter adapter from the receptacle on the vehicle before pressing the TEST switch.

NOTE:

We recommend that you use this system only when necessary, as prolonged use will reduce the life expectancy of the battery, due to the fact that this method can only charge the battery to approx. 50% of its capacity.

For maximum battery life, we strongly recommend that you maintain the battery ina fully charged state at all times.

If charging does not take place, check the 5 Amp fuse within the cigar lighter adapter plug. Ensure all connections are clean and free of grease etc.

MAINTENANCE

***Always* inspect the Jumpstart before use to ensure the cables are in good condition, and the clamps are clean and free from corrosion. Have them replaced if any damage is apparent.**

Keep clean by wiping with a dry cloth. DO NOT use solvents as a cleaning agent.

1. Replacing the Battery

1. Unscrew and remove the 10 self tapping screws securing the back cover. Lift off the cover to expose the battery and other components. Take care when setting aside the cover, not to damage the attached electric cables
2. Lift out the battery from the battery compartment, and detach the cables, from the battery terminals. It will be necessary to cut the sheaths from the terminals to gain access to the securing screws.
3. Taking great care not to short across the battery terminals, connect the RED heavy duty cable to the battery terminal painted RED, and the black cables to the other battery terminal. Wrap insulating tape (not supplied), tightly around the terminals, once the cables are attached.
4. Gently slide the new battery into position in its compartment ensuring the packing piece, stuck to the front of the battery, is in place.

   Replace the back cover and secure with the 10 self tapping screws.

2. Replacing the Light Bulb

1. Gently squeeze the sides of the lens bezel together to disengage the clips at either side, and pull the bezel out. If this proves to be difficult, the gentle use of a screwdriver to push in the retaining clip in the middle of the rear edge of the bezel may be required.
2. Unscrew and remove the burned out bulb and screw in a replacement.
3. Snap the lens and bezel back into place.