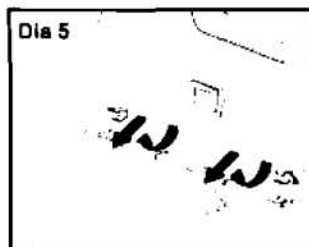
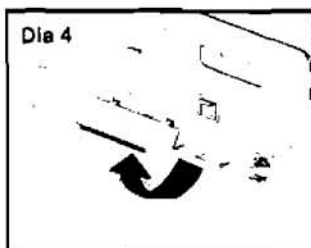


OPERATING INSTRUCTIONS & MAINTENANCE

CHANGING THE FLUORESCENT LIGHT

- Take off the translucent cover as shown in dia 4.
- Rotate the fluorescent tube and identify the terminal at both ends of tube do not block by the U-shape terminal inside holder then retract it out, see dia 5.
- Replace with a new fluorescent tube that can be purchased from store.
- Make sure the new fluorescent tube is rotated at the right position and the terminal at both ends has a good contact with the U-shape terminal inside the holder before you fix the translucent cover.



MAINTENANCE

Always inspect the tool 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.

12Volts output socket

A built-in reset device will shut off the power when the product overloads. This device will reset after a few minutes and the product will resume normal service condition again.

WARNING:

- Do not use the output socket and jumpstart at the same time.
- The output can be as high as 13 volts after the product has been fully charged, consult your appliance handbook to ensure it is safe to operate.
- Do not allow the battery to be completely discharged, i.e. below 11.2V, as the charger can not recover a deeply discharged battery.

Environmental protection



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.

If faults cannot be remedied, contact the Helpline on 020 83916767 or helpline@hilka.co.uk

GUARANTEE

This product is guaranteed for domestic use for a period of 12 months against faulty manufacture or materials. This guarantee does not affect the statutory rights of the consumer. If in the event of any problem occurring please contact our Helpline at the number above for advice. This product is not guaranteed for HIRE purpose.

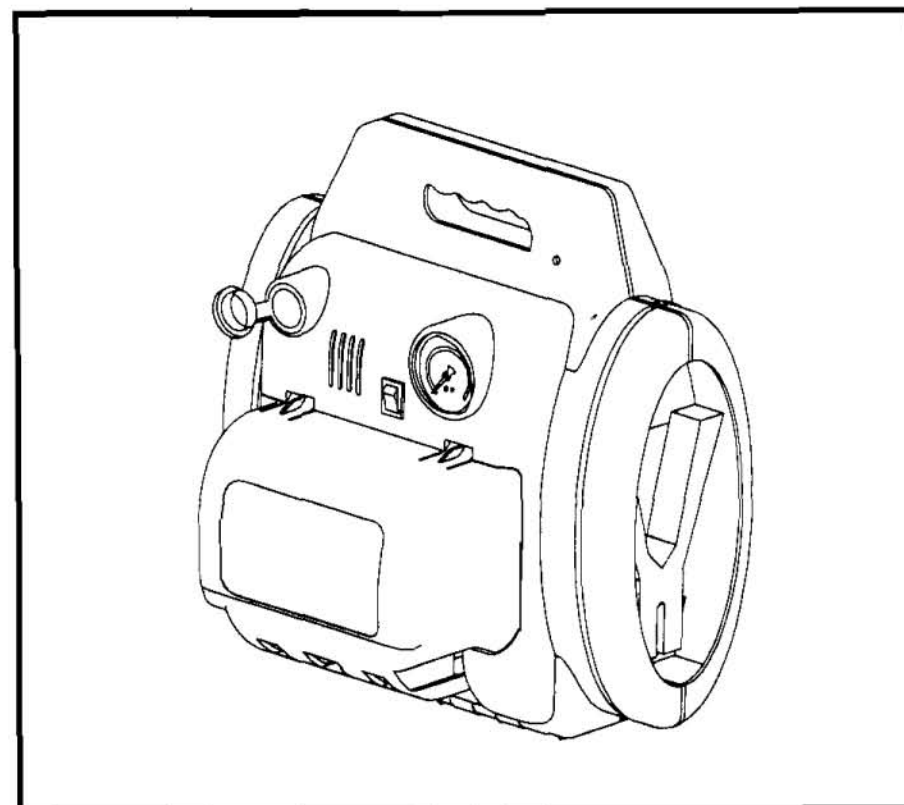
CHALLENGE TOOLS

1 ROEBUCK PLACE, ROEBUCK ROAD, CHESSINGTON, SURREY KT9 1EU

Issue: 09/2005



Jumpstart With Compressor JC6215



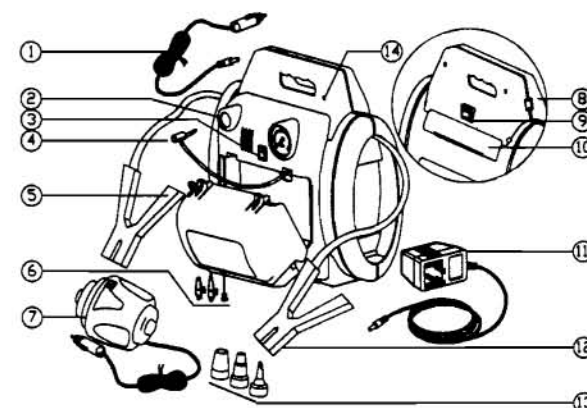
SAFETY INSTRUCTIONS

Follow basic safety principles to reduce risk of personal injury, electric shock and fire.
Please read the following instructions prior to operating this product and keep for future use.

WARNING

- Do not let children handle the tool, all onlookers should be away from your work area.
Work in an area that is not cluttered.
- This product may be used outdoors. Do not leave it exposed to the elements. Do not use the tool in damp or wet areas.
- Protect the tool from direct sun light. Do not use the tool near flammable gases or liquids check cables before operation. Battery may explode due to over-heating.
- Do not carry the tool by the cable or pull the cable to remove the plug from the mains socket. Protect the cable from sharp objects, heat and oil. Have it replaced if damaged.
- Always ensure the tool is not damaged. Do not operate if in the case of any of the cables is damaged. Consult a qualified person for repair.
- Do not attempt to repair or open this tool (which contains no user serviceable parts).
- The internal battery is a sealed lead acid battery. It is classified as non-spillable and has unique sealing techniques to guarantee that no electrolyte leakage will occur. If it is necessary to replace the battery, then it should be done by a qualified technician only and must be of the same specification as the original.
- Do not allow the battery, at any time, to become completely discharged.
- The product should be kept fully charged when not in use. If it will be kept in storage, then it must be recharged every 3 months.
- The product is designed for use with 12V systems only. Do not use jumpstart for any purpose other than that is designed. For best performance do not use more than one output at a time.
- When using the 12V DC output socket, ensure that the plug of the item you are to power has the positive lead to the centre pin of the plug.
- The product is not designed to be used as a replacement of a vehicle battery.
- Never allow the NEGATIVE and POSITIVE leads on this unit to touch or to touch the same metal object.
- Ensure the posts and clamps of the vehicle battery are perfectly clean before use.
- When connecting the jumpstart leads to a battery, always connect the RED (positive, +) clamp to the unearthed battery terminal first, then connect the BLACK (negative, -) clamp to the chassis or suitable engine bolt, well away from the battery and fuel line.
- To prevent battery overheating and consequent damage, do not exceed our recommendations for jump starting.
- When jumpstarting ensure the area is well ventilated.
- Do not attempt to boost charge the jumpstart's sealed battery.

PARTS LIST



Dia 1

Components	Use
1. 12V Cigarette Lighter Lead	To charge the internal battery from a 12V DC supply or allow output connection from the cigarette socket, item 2
2. 12V Output Socket	To allow insertion of the cigarette lighter plug of any DC 12V appliance. This has over load protection.
3. DC 12V Output / Air Compressor Switch	For DC 12V output or to switch the compressor On/Off. This has overload protection.
4. Air Compressor Thumb Lock	Connect to valve stem for tyre inflation
5. Positive(+) Crocodile Clamp(Red)	To connect to positive '+' battery terminal
6. Adapters for Air Hose	Adaptors for pressurized object such as football, basketball, rubber dinghy, etc.
7. DC 12V Inflator / Deflator	To inflate/deflate mattress, plastic dinghy, airbed, etc.
8. Charging Socket	For 12V cigarette lighter lead or AC charger to charge the internal battery
9. Fluorescent On/Off Switch	To switch the fluorescent On or Off
10. Fluorescent Light	To provide light for road side repairs and emergency situation
11. AC Charger	To charge the internal battery via AC 230V mains source
12. Negative(-) Crocodile Clamp(Black)	To connect to negative '-' battery terminal
13. Adaptors for DC 12V Inflator / Deflator	Adaptors for low pressurized items such as airbed, beach ball, flotation device, etc.
14. Charging Indicating LED	Comes on to indicate the battery is charging during charging process and goes out to indicate the battery is fully charged.

SPECIFICATIONS & FEATURES

Specifications

Battery Type	Sealed Lead Acid Battery Rechargeable Maintenance Free 12V DC 17 AH
Voltage Output	12Volts DC
Fluorescent Tube	4Watts

FEATURES

The product equipped with a rechargeable DC 12V battery as a power supply. The sealed maintenance free heavy duty battery is safe to use and transport and allows the product to be stored in any position without risk of leakage. It provides up to 50 hours of DC power depending upon application for input volts of appliance. And it can be used in remote sites application or for emergency application as listed below.

1. Emergency Booster Power

The power battery can provide up to 400Amp cranking power to start your car if the car battery is dead.

2. DC 12V power source

The unit is equipped with a cigarette output socket (Item 2), it allows most auto accessories / appliances such as car vacuum, car fan, electric, mini tire inflator / deflator, etc. drawing up to 8 amps to be powered. In the case of over loading a built in reset device will shut off the power and reset after a few minutes. The power lead, Item 1, can be used as an output lead to supply 12V via the jack plug on the lead.

Check the appliance handbook to ensure it is safe to use with a 12V battery. Special adaptor may be required.

3. Built-In Mini Air Compressor

No external power source required and it can be operated individually as a stand-alone compressor. It has a 100psi pressure gauge to inflate tyres of most mini cars, motorcycles and mopeds and bicycles up to 60psi. Three nozzle adapters (Item 6) are provided to inflate air mattresses, automotive air shocks, athletic balls and recreational inflatables.

Warning! Do not over inflate object as that may cause danger of explosion & personal injury.

4. DC 12V Inflator / Deflator

Simply plugs into a 12V cigarette lighter socket. It has an individual On/Off switch and provides a high air flow rate to inflate items with low pressure requirement, such as airbed, beach ball, rubber dinghy and balloon quickly. Three adapters (Item 13) are included ideal for camp, picnic and other leisure uses.

5. Work light

It is a built-in fluorescent tube and is protected by a clear guard. It can be used as a stand-alone light source by an individual ON/OFF switch. Fluorescent tube can be replaced easily once there is malfunction.

OPERATING INSTRUCTIONS

WHEN TO CHARGE:

- This unit is fully charged on leaving the factory, but recommend a top up charge when you first purchase the product. (The red led extinguishing indicates full charge).
- The battery should be charged after each use to maintain maximum power.
- Dependent on the amount the unit was used a top up charge of 5 or 6 hours may be enough.
- For maximum power a top up charge of 5 to 6 hours is recommended before use. If the unit is in storage, have it fully recharged every 3 months.

HOW TO CHARGE

The internal battery should only be charged using the accessories supplied. Two means of charging the internal battery are available:

A. Via 230v supply using the AC charger, Item 11

Place jack plug of the AC charger into the charging socket, Item 8, on side of the tool. Plug AC charger into a suitable 230v 50Hz mains socket.

The Red charging LED (Item 14) will come on indicating that charging is taking place and it will go out when the battery is fully charged.

Disconnect the charger once charged.

B. Via 12v supply using the cigarette lighter adaptor, Item 1

NOTE: Ensure that the supply vehicle has a 12 volt negative earth system.

The engine of the supply vehicle needs running to ensure charging process.

The recommended method of charging is via the AC charger.

Place jack plug of the cigarette lighter adaptor into the charging socket, Item 8, on side of the product.

Plug DC lead into the 12v cigarette socket on your car.

Start the car.

The Red charging LED, Item 14, will come on indicating that charging is taking place.

This method of charging only achieves 75% of the maximum charge, i.e. the red LED may not go out.

CHARGING TIME:

- The charging time varies considerably depending on several factors, the weather conditions, how often the unit is used and the amount of discharge of the unit, etc.
- From the DC15Volts 400mA adaptor (Item 11), it takes around 30 hours for the Red charging indicator LED to go out if the tool has been deeply discharged.
- From a DC12 volts power supply, it takes approximately 72 hours to charge the battery to a high level but not full, note the Red charging indicator LED may not go out.

Note: The unit can be used before the red charging indicator LED goes out if it has already been charged for 5-6 hours or more.

DC12V Output

This unit provides a 12V DC output which can be used to drive other 12V DC tools rated at or less than 8Amp.

- Insert cigarette plug of the product to be powered into the 12V DC cigarette socket (Item 2, dia 1) of this unit.
- Turn the front switch of the unit (Item 3) to II position to start the function.

NOTE: Do not exceed the maximum load of 8Amp.

OPERATING INSTRUCTIONS

HOW TO JUMPSTART A CAR

The JUMPSTART provides a current up to 400 Amp (maximum) to assist with the starting of a car when the car battery is flat.

Check to ensure the following before connecting the booster cable clamps to the car battery:

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

Follow the steps below to jumpstart your car:

1. Connect the red clamp, Item 5, to the "+" terminal of the car battery.
2. Connect the black clamp, Item 12, to the chassis or engine component well away from the fuel lines or any moving parts, ensure the connections are secure.
3. 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).
4. 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.
5. Once the engine starts running, disconnect the earthed clamp (black) first and return it to its storage position, then disconnect the unearthed clamp (red) from the battery terminal and restore it to its storage position.

Safety Instructions for Compressor & Inflator / Deflator

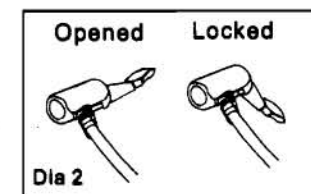
Read the instructions below carefully before using the compressor / Inflator operation.

- Do not over - inflate your tyres or any other inflatable object.
- Do not leave the compressor / Inflator unattended.
- Ensure you are safely positioned away from traffic if you have to inflate a tyre on a road.
- Keep your face a safe distance away from the compressor / Inflator and the object being inflated - do not get too close.
- This compressor / Inflator is intended for short run use. Maximum uninterrupted running time should not exceed 15 minutes and a 30 minute cooling down period is recommended before running the compressor again.
- Keep out of reach of children.
- **CAUTION:** Bursting items can cause injury so do not exceed recommended pressure levels.
- It is advisable to check the vehicle manufacturers recommended tyre pressures to ensure correct inflation levels (Keep this information with you in the car).

OPERATING INSTRUCTIONS

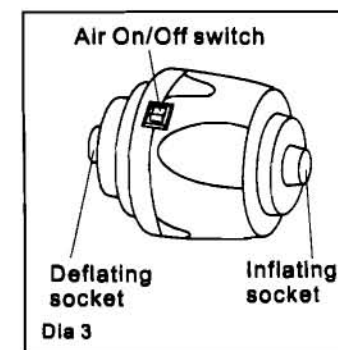
USING THE BUILT-IN COMPRESSOR

1. Take the air supply cable out from its storage compartment at the front of the jumpstart, attach it securely to valve on tyre or other item to be inflated (see dia. 2), use adaptor (Item 6) if necessary.
2. Turn the compressor on with the front switch (Item 3) at I position.
3. To check pressure, turn the switch (Item 3) to O position and read scale on pressure gauge. Continue until you have reached the correct pressure. Do not exceed the level.
Note:
It is recommended to check the tyre pressure using a pencil or similar gauge. Always switch off the compressor to get a more accurate pressure gauge reading. For other inflatable items, such as air mattresses, rafts, etc. inflate until it is firm.
4. Turn the front switch (Item 3) to O position when the desired pressure is reached. Disconnect the air supply cable and restore it to its storage position, remove the adaptor from the item being inflated if necessary.



USING THE 12V INFLATOR/DEFLATOR (Item 7)

1. Take out the Inflator/Deflator from its storage compartment, attach a suitable adaptor (Item 13) to the item to be inflated /deflated. Ensure that the Air on/off switch (see dia 3) on the Inflator/Deflator body is at O position.
2. Attach the adaptor to the appropriate socket of the Inflator/Deflator (to deflate, attach the adaptor to the socket on the Inflator/Deflator marked "Deflate"; to inflate, attach the adaptor to the other socket (see dia 3) and ensure that it is securely fitted.
3. Insert cigarette plug into the 12V output socket on the jumpstart (Item 2) or other equal source then press the Air on/off switch on the Inflator/Deflator body at I position to start inflating/deflating.
4. When the item is sufficiently inflated/deflated, turn the Inflator/Deflator off by setting the Air on/off switch (see dia 3) to O position. disconnect the cigarette plug from the cigarette socket and remove the adaptor from the item.



CAUTION:

CAREFULLY watch the operation and ensure that you do not over inflate the item as bursting items can cause injury.