

RAC

400 Amp Rechargeable Jump Start System RAC-HP082

MAINTENANCE

Always inspect the tool before use to ensure the cables are in good condition and the clamps are clean and free from corrosion. Keep clean by wiping with a dry cloth. Do not use solvents as a cleaning agent.

12 Volt output socket

A built-in protective device will limit the power when the product overloads. In this case, disconnect the device that provoked the overload and wait for approximately ten minutes for unit to automatically reset before re-use.

WARNING:

- Do not use the output socket and engine starter 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.

*If faults cannot be remedied, contact the **Helpline** on **020-83916767**
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.

Manufactured under licence by Hilka Pro Imports.

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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.

COMPONENTS



Components

1. 230V/12V DC charging adaptor
2. DC charger lead (integrated 2 amp fuse)
3. 12 Volt outlet sockets
4. Charging jack point
5. Battery check button
6. Battery power indicator
7. Battery clamps

SPECIFICATIONS & FEATURES

Suitable for vehicles up to 1500cc

Specifications:

Battery type:	10 Ah Sealed lead acid battery Spill-proof rechargeable, Maintenance free.
DC output Sockets:	12 volts - 10 Amps in total
Boost Rate:	400 Amp Peak
Circuit breaker:	20 Amp internal, with automatic reset Reset time 10-25 minutes.
Charging time:	24 Hrs for first time charging. Up to 36 hrs to recharge with supplied ac/dc charger Up to 10 hrs with a 12 volt DC charger.
Storage:	Store in a cool dry area

Note. This unit may be stored in any position. Make sure that clamps are stored correctly, and if not used recharge every 2 months to maintain battery.

Failure to maintain battery could lead to an unrecoverable flat battery.

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 uncluttered area.
- 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 sunlight. 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 either of the cables are 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.
- Do not allow the battery, at any time, to become totally discharged. The product should be kept fully charged when not in use. If kept in storage it must be recharged every 2 months.
- The product is designed for use with 12V systems only. Do not use engine starter 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 to a vehicle battery.
- Never allow the NEGATIVE and POSITIVE leads on this unit to touch each other OR the same metal object.
- Ensure the posts and clamps of the vehicle battery are perfectly clean before use.
- When connecting the engine starter leads to a battery, always connect the RED (positive, +) clamp to the unearthened 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 engine starting ensure the area is well ventilated.
- Do not attempt to boost charge the engine starter's sealed battery.

OPERATING INSTRUCTIONS

Charging & Recharging:

Warning:

Do not overcharge this unit. Prior to charging the unit read and understand all instructions listed below. Overcharging may result in damage to the unit.

- This product may arrive partially charged from the manufacturer. It is recommended to fully charge the unit immediately after purchase and before using for the first time.
- If the red charge level indicator comes on after pressing the battery check button (5), fully recharge the unit.
- The charging LED indicator will be illuminated red while charging. When charging is complete the LED will change to green and stay green until the charging plug is removed or the charger is switched off at the mains.
- Do not charge the battery for more than 24 hours continuously.
- Make sure that any electrical outlet, located in a potentially wet or moist area, to be used to charge the unit, is protected by a RCB unit.
- Do not charge the unit on a boat, boat ramp or docks since the electrical cords and outlets used for charging could cause severe electrical shock if they get wet.
- It is recommended the unit is in an upright position while charging.

NOTE: MAKE SURE BOTH CABLE CLAMPS (POSITIVE & NEGATIVE) ARE PLACED IN THEIR STORAGE HOLSTER WHEN NOT IN USE.

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 the AC charger supplied (1):

1. Insert the AC charger plug (1) into the charging jack point (4)
2. Insert the AC charger into a mains outlet.
3. Fully charge the unit to the following
 - Initial first time charge: 24 hrs continuously
 - Recharge or between each use: up to 36 hrs continuously.
4. When charging is complete unplug the AC charger (1) from the mains outlet then remove the plug from the units charging point (4).

Note: Do not allow battery to be completely depleted.

B. Via 12v supply using the cigarette lighter adaptor, item 2

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

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

The recommended method of charging is via the AC charger.

1. Insert the DC charger lead (2) into the units charging jack point (4).
2. Insert the DC charger lead (2) into the vehicle accessory socket.
3. Charge the unit for up to 10 hours continuously while the vehicles engine is running.
4. When charging is complete unplug lead from the cars accessory socket first and then from the charging jack point (4) on the unit.

DC12V Output

This unit provides two 12V DC outputs which can be used to drive other 12V DC accessories with a total rating 10 Amp's or less.

- Insert cigarette plug of the product to be powered into the 12V DC cigarette socket (item 3).

NOTE: Do not exceed the total maximum load of 10 Amp.

OPERATING INSTRUCTIONS

HOW TO JUMP START A CAR

The ENGINE STARTER 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 engine starter is fully charged.
- Ensure 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, 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 jump-start your car engine:

1. Connect the red clamp, to the positive " + " terminal of the car battery.
2. Connect the black clamp " - ", to the chassis or engine compartment 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 FIVE 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 black clamp " - " first and return it to its storage position. Then disconnect the red clamp " + " from the battery terminal and restore it to its storage position.

STORAGE & MAINTENANCE

- Protect the product from direct sunlight and other heat sources: risk of explosion of the internal battery. Store at a temperature between 4°C and 40°C
- The technology used during the manufacture of the internal battery excludes any risk of electrolyte gel leakage from the inside of the battery. You are nevertheless recommended to keep the battery upright when storing it for long periods.
- Recharge the battery after every useage or every 6 to 8 weeks. Do not exceed 2 months without charging.
- If the low charge indicator remains red after a period of 30 hours charging the internal battery is irrevocably damaged and cannot be recharged.

OPERATING INSTRUCTIONS

WARNINGS

- Only use this product with 12 volt lead acid batteries. Do not connect to 6 volt or 24 volt DC batteries.
- Do not use with dry cell batteries, these batteries may burst and cause injury to a person or damage personal property.
- Working around lead-acid batteries can be dangerous. Lead acid batteries generate explosive gasses during charging and jump start operations.
- Stay at arms length when connecting clamps to vehicle battery. Do not face battery when starting.
- All lead-acid batteries produce hydrogen gas, which may violently explode in the presence of fire or sparks. Do not smoke, use matches, lighters or open flame while near batteries.
- Do not operate this unit or place this product near flammable materials or any location which accumulates flammable fumes.
- Do not submerge in water.
- Some late model vehicles have on-board computers that might be damaged if the vehicle is jump started. Always read the vehicle owners manual before attempting to jump-start the vehicle to determine if external starting assistance is acceptable.
- Stay clear of fan blades, belts, pulleys and moving parts that can cause injury to persons during battery jump-start.
- Do not use additional attachment other than recommended or provided by manufacturer.
- Do not exceed manufactures recommended specifications.

CAUTIONS:

- Never work alone with this product. Make sure that someone is available to give assistance if needed.
- Wear complete eye and clothing protection. Do not touch your eyes while working near batteries.
- Always keep the clamps in their storage compartment to prevent sparking when not in use.
- When using the AC or 12-volt DC charger, always remove the plug and never pull on the the cord when disconnecting.
- Do not recharge the product with a damaged charger always replace them immediately.
- Do not attempt to remove or replace the battery used in this device. When the battery has reached the end of it's useful lifetime, take the entire unit to a battery recycling facility.
- Avoid dropping metal tools onto the vehicle battery, this can cause sparks or short circuit the battery or other electrical parts that may lead to sparks which can cause an explosion.
- For proper and safe operation of the 12-volt DC power accessory outlet do not insert anything other than equipment suited for 12 volt car accessory socket.
- Do not place anything into the AC charger input socket except the provided charger and charging lead that came supplied.
- Never charge or jump-start a frozen battery.
- Never allow clamps (positive & negative terminals) to touch together or to contact the same piece of metal to prevent short circuits and arcing.
- Do not operate this device while wearing vinyl clothing, static electrical sparks can be generated when vinyl clothing is rubbed.
- This product is not intended for use in the rain or temperatures above 130 deg F.
- Only use the provided charger, cables and clamps. Unauthorised parts may damage the unit.

TROUBLESHOOTING

Trouble	Cause	Remedy
Vehicle does not start	<ol style="list-style-type: none">1. Bad clamp connections2. Very low vehicle battery charge3. Low battery charge on unit4. Vehicle battery defective	<ol style="list-style-type: none">1. Rotate the clamps back & forth to make a solid and better connection2. Wait 3 to 4 minutes before starting vehicle again3. Fully recharge unit4. Replace with new battery
Device connected to DC Outlet does not operate	<ol style="list-style-type: none">1. No output power of battery jumper 12 volt DC outlets2. Bad connection to the 12 volt DC power outlets3. Low battery charge on unit4. Device fuse blown	<ol style="list-style-type: none">1. Internal circuit breaker is off. Remove accessory plug from unit socket. Wait 10-25 minutes for unit to automatically reset2. Re-insert accessory plug into 12 Volt DC output socket securely3. Fully recharge unit4. Replace fuse

FIRST AID

Make sure fresh water and soap are available nearby in case battery acid contacts skin, eyes or clothing. If contact with battery acid occurs, rinse immediately and thoroughly with water. Then wash with soap and water. Obtain immediate medical attention if redness, irritation or pain is present. For eye contact flush eyes for at least 15 minutes and obtain immediate medical attention.