



400 Amp Rechargeable Jump Start System

RAC-HP082



Please note that your safety is your personal responsibility



PLEASE READ BEFORE USE AND RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.



**IMPORTANT NOTE:
ALWAYS CHECK THE EQUIPMENT BEFORE USE. IF DAMAGED, DO NOT USE AND DISCARD.**

COMPONENTS



Components:

- | | |
|---|-------------------------------|
| 1. 12V outlet accessory sockets | 8.3V 6V 9V Output |
| 2. Switch testing | 9. Red clamp(+) |
| 3. Battery status indicator(Color LED) | 10. Black clamp(-) |
| 4. Charging indicator | 11. In-car charging lead |
| 5. AC/DC charging socket | 12. 240V/12V charging adaptor |
| 6. Plastic body | |
| 7. Fuse | |

Jump Start Specifications:

- Internal battery: 10Ah sealed lead acid battery. Maintenance free.
- DC output sockets: 12 volts – 10 amps total
- Boost rate: 400 Amp peak
- Circuit Fuse: 15Amp
- Suitable vehicles: Up to 1500cc

Charger Specifications:

- Model: HB-DC 12.0V 6.0W
 Input voltage: AC240V~50Hz
 Output voltage: 12Vdc 500mA

In-Car Charging Lead Specifications:

- 12Vdc from in-car accessory socket.
 Fitted with 2A x 20mm fuse.

SAFETY AND WARNING INFORMATION

NOTE:

THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING THE OPERATION, SAFETY, MAINTENANCE, AND STORAGE OF THIS JUMP START. COMPLETELY READ AND UNDERSTAND THE MANUAL BEFORE OPERATING THE JUMP START.

READ AND RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

INTENDED USE

This jump start is intended for domestic use and for the envisaged purpose. It is not designed and is not fit for commercial, industrial or rental use.

GENERAL SAFETY INSTRUCTIONS

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 manual to understand the application, limitations and potential hazards associated with this product.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

GENERAL SAFETY PRECAUTIONS

- Some later vehicles have on-board computers that may 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.
- This is NOT a battery charger. Do not attempt to re-charge your car's battery using the jump start.
- Always wear approved protective eyewear when working near any lead-acid battery.
- Remove all metal items including rings, watches, and necklaces before using Jump Start jumper cables. Severe burns could result if these items contact the jumper cable clamps or vehicle battery terminals.
- Do not charge or boost a frozen vehicle battery.
- Do not submerge Jump Start in water.
- Use the Jump Start in conjunction with lead-acid batteries only. Do not connect to any dry cell batteries (common in household appliances).
- Never put the unit near fire, flammable gas or liquid.
- When not in use store in a dry high place or keep locked up out of children's reach.
- If the unit is kept in storage, then it must be recharged every 2 months.
- Do not attempt to repair or open the unit. This unit contains no user serviceable parts.
- Protect the jumpstart from direct sunlight. Do not use the jumpstart near flammable gases or liquids. Batteries may explode due to over-heating. 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 attempt to repair or open this tool (which contains no user serviceable parts).
- 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.
- Never allow the NEGATIVE and POSITIVE clamps on this jump start to touch each other OR a metal object at the same time.
- Ensure the posts and clamps of the vehicle battery are perfectly clean before use.

FIRST AID

- If battery acid comes in contact with your eyes, flush them with fresh water for 10 minutes. Seek medical attention immediately.
- If skin or clothing comes into contact with battery acid, immediately wash the affected area with soap and water. Seek medical attention.
- Completely read and understand all warnings, safety precautions, and first aid information printed on vehicle battery casing.

CHARGING THE JUMP STARTS INTERNAL BATTERY



This Jump Start has a built-in maintenance-free, lead acid battery. Although this unit is shipped with a partial charge in the battery, please check and re-charge the battery as necessary.

Note: It is important that the Jump Start is charged and maintained according to the following procedures. The Jump Start battery life may be significantly shortened or the battery damaged if unit is improperly maintained. For maximum battery life and to be sure unit is ready for emergencies, it is recommended that the unit be kept fully charged at all times. This unit's internal battery, as with all lead acid batteries, will gradually self-discharge, losing a certain amount of power over time. This occurs whether or not the unit has been in use and happens more quickly under extreme temperatures. Unlike certain types of rechargeable batteries, frequent charging of this unit will not harm the internal battery. In fact, its performance will be improved with consistent charging to full power levels.

Checking the internal battery status:

Press the switch testing (2). If the battery status indicator (3) lights Red, the fully recharge the unit.

Press the battery check button at any time to re-check the charge level.

When charged, charging indicator is red. Normally when battery is low, It will need 18-20 hrs to charge, when battery is full, red LED is still on.

Charging the internal battery:

There are two methods of charging the internal battery, A & B, select one of the two.

A. Mains Adaptor

Plug the AC/DC charging adaptor lead (12) into the charging socket on the Jump Start (5).

Plug the AC/DC charging adaptor into the mains supply and switch on.

The battery status indicator (3) will light Red while charging. Once fully charged, the battery status indicator will change to Green. But charging indicator (4) is still red, Normally, charging time is 18-20Hrs.

NOTE: Do not charge for more than 30 hours even if the battery status indicator does not change to Green.

B. In-Car Charging Lead

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

Full charge may not be achieved by this method.

Plug the In-Car charging lead (11) in to the charging socket on the Jump Start (5).

Plug the In-Car charging accessory plug into your car's 12V accessory socket. We advise that you only do this when your car's engine is running. The output from your cars accessory socket may only be 'ON' if your car's ignition is 'ON'. The battery status indicator (3) will light Red while charging. Once fully charged, the battery status indicator will change to Green. But charging indicator (4) is still red, Normally, charging time is 18-20Hrs.

NOTE: Do not charge for more than a total time of 10 hours when using the in-car charging lead, even if the battery status indicator does not change to Green.

Tips and Cautions:

- If the battery status indicator remains red after a period of 30 hours this could mean that the internal battery is irrevocably damaged and cannot be recharged! This is possible if the battery has been allowed to discharge and left discharged without recharging.
- Only use this product with 12 volt lead acid batteries. Do not connect to 6 volt or 24 volt DC batteries.
- Charge before initial use, even if the battery condition is shown to be fully charged.
- Recharge after each use or recharge every 2 months when the unit is not in use.
- Place your Jump Start unit on its base so it remains stable & vertical throughout charging procedure. Do not tip or lay unit on side or back during charging. Place the unit in an area where it is protected from being tipped over and could possibly cause an obstruction.
- Battery care: 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 battery in this unit is not intended for recharging a car battery.
- You are responsible for the correct disposal or recycling of the batteries. If necessary contact your local council for disposal information. Refer to back page for BATTERY DISPOSAL.

EMERGENCY JUMP STARTING



Connecting cables to start an engine can be dangerous. Before connecting read and understand all instructions, warnings, safety information, and first aid information included in this manual and printed on vehicle battery. Consult vehicle owner's manual for additional information, procedures, and safety precautions.

Lead-acid batteries (typical vehicle battery) produce hydrogen gas during normal operation and charging.

Hydrogen gas is flammable, explosive, and harmful to breathe. Only work in a well-ventilated area.

Open engine compartment and allow time for any trapped gases to escape before connecting the Jump Start.

Note:

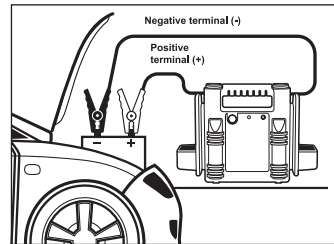
Before attempting to jump start engine, check battery condition indicator on Jump Start by pressing the battery test button (3). If the battery condition indicator shows less than full charge it may not be possible to jump start the vehicle.

- When operating Jump Start unit near or inside engine compartment, place unit in a stable position away from moving parts like belts or fans. Make sure unit will not fall over when engine starts. Stay clear of fan blades, belts, pulleys and moving parts that can cause injury to persons during jump starting.
- Turn vehicle ignition "OFF". Ensure all accessories radio, fan, head lights, etc are off before connecting the Jump Start cables to vehicle.
- NEVER ALLOW RED (+) CLAMP TO CONTACT THE BLACK (-) CLAMP. To help prevent accidental contact, always remove one cable at a time from storage mount and connect securely to vehicle before removing second cable.

Connection Procedure:

1. Connect the RED clamp to the positive terminal (+) of your car battery.
2. Connect the BLACK clamp to the negative terminal (-) of your car battery or to the engines frame (recommended).
3. Leave the unit connected for 5 minutes before attempting to start the engine.
4. After 5 minutes, start your engine. Switch on the car's 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 3 minutes before trying again.
5. As soon as your car is started, disconnect the clamps from your car in the reverse order from above. Make sure that clamps are stored correctly.
6. If your battery is so depleted that your ignition light does not come on, let the Jump Start stay connected to your battery for 10-20 minutes prior to attempting to start your car.

NOTE: If the car still won't charge you may need to use an RAC Battery Charger to re-charge your battery.



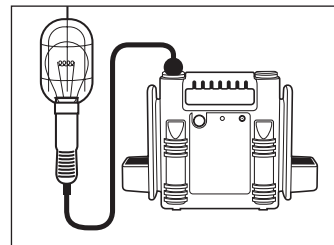
12V DC OUTPUT SOCKET SUPPLY

Caution:

Do not put metal objects into DC 12V output socket as it will cause a short circuit and blow the 10A internal fuse.

You can use both of the 12V dc outlets at the same time; however, you must remember that the total current that can be drawn is 10A max.

Connect your appliances to the 12V output sockets by using a 12V accessory plug.



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

STORING THE JUMP START

The Jump Start can be stored in your vehicle so it is ready for emergency use. Secure in vehicle so unit does not tip over or move around while vehicle is in motion or making a sudden stop. Sudden impacts can damage Jump Start unit. When stored in a vehicle, Jump Start may be subjected to extreme hot or cold temperatures resulting in accelerated charge loss. If not kept in vehicle, store Jump Start upright in a cool, dry place protected from extremes in temperature. Do not store in areas where unit may be exposed to excessive moisture. To properly maintain battery capacity and service life, charge Jump Start regularly every 2 months while unit is in storage.

BATTERY DISPOSAL



This Jump Start unit contains a maintenance-free, sealed lead-acid battery. Although this battery contains environmentally sensitive materials, it is fully recyclable and must be disposed of properly. Be aware that in many areas it is illegal to dispose of lead-containing batteries improperly and doing so may result in fines and/or imprisonment. Consult local regulations for disposal. Contact a local recycler of batteries to handle disposal. Examples of places that accept this type of battery are: municipal or county recycling centres, retailers selling automotive batteries, and hazardous waste collection sites. Never incinerate batteries as they may leak or explode causing damage or injury.

TROUBLE SHOOTING

Trouble	Cause	Remedy
Vehicle does not start.	<ol style="list-style-type: none"> 1. Bad clamp connection. 2. Very low vehicle battery charge. 3. Low battery charge on jumpstart. 4. Vehicle battery defective 	<ol style="list-style-type: none"> 1. Rotate the clamps back & forth to make a solid and better connection 2. Wait 3 to 4 minutes before starting vehicle again. 3. Fully recharge the jumpstart. 4. Replace with new battery.
Device connected to DC outlet sockets has no power.	<ol style="list-style-type: none"> 1. No output power from DC outlets. 2. No output power from DC outlets. 3. Low battery charge of jumpstart battery. 	<ol style="list-style-type: none"> 1. Fuse is broken, Remove it and install new one . 2. Re-insert accessory plug into 12 Volt DC output socket securely. 3. Fully recharge unit



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. This symbol is known as the 'Crossed-out Wheelie Bin Symbol'. When a product is marked with this symbol, it means the product should not be disposed of with your general household waste. Only discard electrical/electronic products in a separate collection scheme which caters for the recovery and recycling of the materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.

This product is guaranteed for domestic use only for a period of 12 months against faulty manufacture or materials.

Any other use may invalidate the guarantee. This product is not guaranteed for hire purposes. This guarantee does not affect the statutory rights of the consumer.

NOTE:

These important safeguards and instructions cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into any product. These factors must be applied by the person using this product

Saxon

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