

challenge[®]

Battery Charger



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.

SAFETY INSTRUCTIONS

To ensure safe operation when using your battery charger, make sure you 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.



1. Safety Responsibilities

This battery charger is not intended for use by any 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 battery charger by a person responsible for their safety. Children should be supervised at all times to ensure that they do not play with the battery charger.

2. Guard Against Electric Shock

Do not work on or near "live" equipment or services.

3. Work Environment

Do not use the charger in damp or wet areas. Moisture will damage the transformer.

Work in an area that is not cluttered and has good light.

Do not expose the charger to direct sunlight, heat, snow or rain.

Do not use near flammable gases or liquids. Keep work area clean.

4. Clothing

Avoid wearing loose clothing or jewellery to prevent these from touching the battery or charger.

5. Look after the charger

When not in use store in a dry, high place or keep locked up out of children's reach.

Use the charger only for its intended purposes.

6. Protect the Cable

Do not carry the charger by the cable or pull the cable to remove the plug from the mains socket.

Protect the cable from sharp objects, heat and oil.

7. Check Before Use

Always ensure that the charger and cable are not damaged.

8. Maintain tools with care

Inspect charger cord and extension leads periodically for damage, if damaged have repair carried out by an authorised dealer. Keep handles dry and clean.

9. Disconnect charger

When not in use disconnect from mains supply.

10. Do not use the charger when tired

11. Check that Charger is not damaged.

Before use check there is no damage to the charger. If in doubt have it checked.

12. Repairs

Always have repairs carried out by a qualified person for your safety.

IMPORTANT NOTES

- There are no user serviceable parts inside the charger. Do not open the charger. If the cord or wires to the crocodile clips become damaged have them replaced by a qualified person prior to operation. Do not leave the charger unattended for long periods of time.

• Gases

When the battery is being charged you may notice bubbling in the fluid caused by the release of gas. As the gas is flammable, no naked lights should be used around the battery and the area should be kept well ventilated. Because of the risk of explosive gas, only connect and disconnect the battery leads when the mains supply is disconnected.

• Types of Battery

The charger is only suitable for Lead-Acid batteries and should not be used to recharge NICAD or any other type of battery.

DANGER

AVOID GETTING ELECTROLYTE ON YOUR SKIN OR CLOTHES. IT IS ACIDIC AND CAN BURN. IF THIS HAPPENS, IMMEDIATELY RINSE THE AFFECTED AREA WITH WATER AND SEEK MEDICAL ADVICE.

PARTS LIST

1. Carry handle
2. Voltage selection switch
3. Charging status LED indicators
4. Red crocodile clip: positive (+)
5. Black crocodile clip: negative (-)



Product Specifications:

Model number:	HB-1206S-GS
Rated voltage:	230-240V AC, 50Hz
Input power:	64Watts
Max charge current:	6A RMS
Rated output:	6V/12V DC, 3.52A
Battery capacity:	15 to 80Ah

OPERATING INSTRUCTIONS

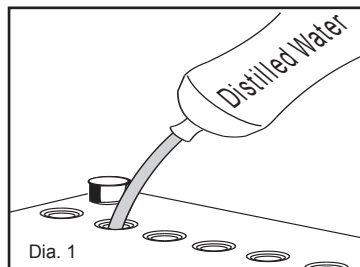
INSTRUCTIONS FOR USE

1. Charging your battery

It is essential to disconnect the battery from the car. This will avoid possible damage to the alternator. To avoid damage to the bodywork from possible spillage, remove the battery from the vehicle. We recommend the use of disposable gloves to do this as there is a high possibility of corrosive acid being on the outside of the battery.

2. Preparing the battery

If you have a maintenance-free/permanently-sealed battery it is not necessary to carry out the following checks. First remove the caps from each cell and check the level of the liquid. If below the level as marked on the side of the battery, top up with de-ionized or distilled water. Under no circumstances should tap water be used. The cell caps should not be replaced until charging is completed. This allows any gases formed during charging to escape. However, some minor escape of acid will occur during charging.



IMPORTANT

If your battery is the AUTOFIL type, manufactured by Dagenite or Exide, the glass balls and the long filler cap must be left in place during charging.

3. Charging options

The voltage selection switch (2) on the front panel offers two charging options. Select the correct position BEFORE connecting the charger to a battery or AC power source (mains supply).

- 6V

When charging a 6 volt lead acid battery switch the voltage selector to 6V position.

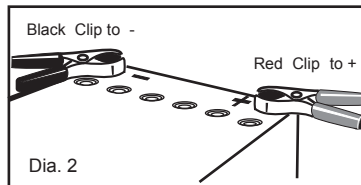
- 12V

When charging a 12 volt lead acid battery switch the voltage selector to 12V position.

OPERATING INSTRUCTIONS

4. Connection

BEFORE PLUGGING THE UNIT INTO THE MAINS SUPPLY FOLLOW THESE INSTRUCTIONS FIRST
Connect the positive charging lead (red) to the positive terminal post of the battery (marked P or +). Connect the negative charging lead (black) to the negative terminal post of the battery (marked N or -).



Important

Make sure both crocodile clips are making good contact with their respective terminal posts.
Note: Terminal post may be cleaned with a clean cloth

5. Charging

You are now ready to charge your battery. Plug the battery charger into the mains supply and charging will commence. The LED indicators will clearly show the charging status. When only the 100% and MAX LED's are still lit charging is complete. Then:

1. Switch off the mains supply.
2. Unplug the charger.
3. Disconnect the charging leads from the battery terminals.
4. Inspect the liquid levels in each battery cell and top up if necessary.
5. Replace the cell caps.
6. Wipe up any surplus liquid (take extreme care and wear disposable rubber gloves as liquid may be acidic).
7. Replace battery if it has been removed from the vehicle.

Note: Do not attempt to charge batteries with damaged cells.

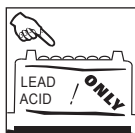
IMPORTANT



IMPORTANT!



For Indoor use only



For Lead Acid batteries only



Always check the battery terminal clips are connected correctly, before connecting the unit to the mains power

TROUBLESHOOTING

- **Very cold battery**

If the battery to be charged is extremely cold (in temperature less than freezing (0°C/32°F) it cannot accept a high rate of charge, so the initial charge rate will be slow. The rate of charge will increase as the battery warms.

WARNING: Do not attempt to charge a frozen battery.

- **Sulphated battery**

When batteries are left in a discharged state for a long period of time, they become 'Sulphated'. Sulphated batteries cannot accept a high rate of charge since the internal plates are coated with lead sulphate. To see if a battery in this condition can be 'saved', take it to a service station or battery distributor for professional evaluation and /or service.

- **Short circuited battery**

If your car battery has been short circuited, have it checked by a battery distributor before attempting to recharge it.

Plug fitting

Note: If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket. If the supply cord is damaged it must be replaced by a qualified person in order to avoid hazard. If you should need to fit a new plug follow the instruction below. If in doubt consult a qualified electrician.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

Blue - Neutral Brown - Live

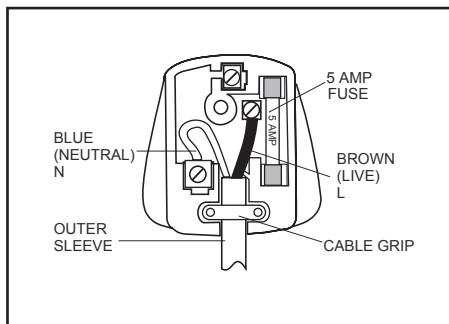
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with N .

The wire which is coloured brown must be connected to the terminal which is marked with the letter L .

No connection is to be made to the earth terminal of the plug.

If a 13 AMP (BS 1363/A) plug is used, a 5 AMP fuse must be fitted, or if any other type of plug is used a 5 AMP fuse must be fitted, either in the plug, or adaptor or on the distribution board.





Read Instruction manual

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

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