



**Automatic Bench Battery Charger
30 amps 12/24 volt with Start Assist
Part 0-648-30**

This charger is designed to charge automotive lead acid batteries only, these instructions must be followed for its safe and efficient use.

WARNING!

- Battery acid is corrosive, any contact with the skin should be immediately rinsed with copious amounts of water. If in contact with the eyes rinse immediately and seek medical assistance.
- During charging, explosive gases are produced so always work in a well ventilated area. Do not work near naked flames, lit cigarettes etc., and avoid any action which may cause sparking.
- Disconnect the battery from the vehicle whilst charging.
- Always switch off the charger before connecting to, or disconnecting from, the battery.
- Protect the charger from dampness and never use in a damp or wet environment.
- Only use this product to charge lead/acid automotive batteries of the appropriate voltage. Do not connect batteries in parallel.
- Ensure the battery charger clips are not allowed to touch each other.
- The best indicator of battery charge, is a hydrometer.
- If the battery needs to be charged frequently, it may be faulty or the vehicle's charging system may not be operating correctly. They should be tested by an auto electrical specialist.

Operating Instructions

1. Disconnect the battery from the vehicle, remove the battery cell filler plugs and check the liquid level (this should be approximately 5mm above the plates). If necessary, top up with distilled or de-ionised water. Refit battery cell filler plugs, but leave them loose to allow gas to escape.
2. With the battery charger switched off, select the appropriate 12 volt or 24 volt range according to the rated voltage of the battery. Connect the positive (red) clip to the positive terminal and the negative (black) clip to the negative terminal of the battery. Failure to connect the clips correctly can result in damage to the charger and battery.
3. Switch on the battery charger and select 'Auto' or 'Manual'. Set the timer to 'On', or to a set time, in minutes, after which it will automatically switch off the charger. The meter shows the charging current. If the current is less than the recommended nominal charge rate for that battery then switch to 'High'. Recommended nominal charge rate for a battery is one tenth of the A/H (ampere-hour) capacity at the 10hr rate of the battery. If in doubt use the 'High' setting for 10-15 minutes and then switch to 'Low' to complete the charge. It is normal for the current to reduce as the battery becomes charged. When an automatic range has been selected the charger will switch off when the battery is charged and the 'Charge Complete' LED will illuminate. The charger will automatically switch on again if the battery voltage falls to a discharged level. However, it is not recommended to leave the charger attached to the battery for long periods.
4. If the starting battery is discharged it should be charged on the appropriate "High" range for 5-10 minutes before reconnecting to the vehicle and using the start assist facility. The start assist facility should only be used for a maximum of 10 seconds; allow 60 seconds cooling before any further start assist attempt.
5. Switch off the battery charger before disconnecting the charging clips.
6. Overcharging must be avoided to prevent damage to the battery and is indicated by excessive gassing and temperature rise. Switch off immediately.
7. An internal thermal overload cut out is fitted to protect the charger. If the cut out trips out, switch off and allow the unit to cool for 15-20 minutes and it will then reset. Check that the battery is the correct nominal voltage, the clips are connected to the correct terminals etc., before switching on again.



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