



HAWKINS
MANUFACTURING (Pty) Ltd

AUTO PRO 50 Operating instructions

READ AND SAVE THESE INSTRUCTIONS:

IMPORTANT SAFETY INSTRUCTIONS

WARNING - RISK OF EXPLOSIVE GASES. WORKING IN THE VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION AND WHEN BEING CHARGED. KEEP THE BATTERY AND CHARGER AWAY FROM OPEN FLAMES AND SPARKS.

Never recharge dry-cell batteries or non-rechargeable or defective batteries. These batteries may burst and cause personal injury and property damage. If you are uncertain as to the type of battery you are attempting to charge, or the correct procedure for checking the battery's rate of charge, contact your battery supplier or battery manufacturer. **Always follow the battery manufacturer's instructions.**

INSTRUCTIONS

- Connect and disconnect battery leads only when AC supply cord is disconnected.
- Do not overcharge battery.
- Only charge in a dry well ventilated area.
- Do not obstruct the flow of cooling air through the charger cabinet.
- Never place the charger on a heated surface.

WARNING

For indoor use only. Do not expose to rain. Class IP20
WARNING! Explosive gases. Prevent flames and sparks.

Disconnect mains supply before making or breaking battery connection. Provide adequate ventilation during charging.

PERSONAL PRECAUTIONS

- Wear complete eye protection, clothing protection, and rubber soled shoes. Place damp cloth over battery to protect against acid spray. When ground is very wet or covered with snow, wear rubber boots. Avoid touching the eyes while working near a battery.
- **CAUTION!** Battery acid is corrosive. If battery acid contacts skin or clothing, wash immediately with soap and water or a solution of Bicarbonate of Soda and water. If acid enters eye, immediately flush eye with cold running water for at least 10 minutes and seek doctors attention.
- NEVER smoke or allow a spark or flame in vicinity of battery or engine.
- Before working with batteries, remove personal metal items such as rings, bracelets, necklaces, watches etc. A battery can produce a short circuit current high enough to weld such items causing severe burns.
- NEVER charge a frozen battery - thaw it out first. Charging will then be safer and more efficient.

CHARGING AUTOMOBILE BATTERIES

- The battery terminal not connected to the chassis has to be connected first. The other connection is to made to the chassis, remote from the battery and fuel line. The battery charger is then to be connected to the supply mains.
- After charging, disconnect the battery charger from the supply mains. Then remove the chassis connection and the battery connection. In this order.

FOR USE WITH 12 & 24 V LEAD ACID BATTERIES ONLY

Charger	Input Voltage (V)	Input Current (A)	Output Voltage (V)	Output Current (A)	Effective Current (A)
Auto Pro 50 12V	230V ac	6,21	12	50A RMS	75,8 EFF
Auto Pro 50 24V	230V ac	10,54	24	50A RMS	75,8 EFF
Auto Pro 50 36V	230V ac	15,65	36	50A RMS	75,8 EFF

Specifications may change without notice in the interests of product improvement.

HAWKINS AUTO PRO 50 CHARGERS

- Hawkins Auto Pro 50 chargers display 3 LED lights that continuously monitor the state of charge of the battery.

- The following table indicates the function of these LEDs:

LED MODE	RED	YELLOW	GREEN
Power on, correct connection to mains	ON	OFF	OFF
Battery connected and charging(Bulk)	ON	ON	OFF
Battery Charged (Float Phase)	ON	OFF	ON

Automatic Chargers will not turn on unless:

- The charger is plugged in
- The charger is attached to the battery
- The polarity is correct
- The battery has at least a 10 volt output for the 12 volt version and 20 volt output for the 24 volt version.

CAUTION

- Although Hawkins Automatic battery chargers are controlled and regulated, it is wise to monitor the battery's condition at 1 to 2 hour intervals until full charge is reached = hydrometer reading between 1,225 and 1,28. If possible, check the specific gravity of each cell, one or two hours after completion of charging to ensure that full charge has been maintained.
- A hot or vigorously bubbling battery is an indication of a problem or an incorrect match between battery and charger and should not be left unattended. Have the battery checked if problem persists.

TROUBLE SHOOTING

- With the charger disconnected from the mains, the GREEN LED will come on as soon as the battery is connected to the charger. If this does not occur, check the following:
 - Check that the Cable Fuse is intact. (Measure continuity) If faulty, replace with same voltage and current rating
 - Check the battery voltage. (Must be 10V for a 12V battery, 20V for a 24V)
- If the GREEN LED comes on but the RED LED does not come on when the charger is switched on, check to see if there is mains voltage present at the plug point.

AUTO PRO 50

