

INSTRUCTION MANUAL

**AUTO CHARGE 11HO PIM
AUTOMATIC BATTERY CHARGER**

MODEL # 091-11HO-PIM

NOTE :
**This charger is designed for
vehicles with dual batteries
and negative ground.**

INPUT : 115 volts, 50/60 Hz, 4 amps

3 YEAR WARRANTY



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INTRODUCTION

The Auto Charge 11HO-PIM Battery Charger is a compact completely automatic charger designed for installation on vehicles with two batteries. An internal charge divider charges both batteries simultaneously while maintaining battery isolation. Remote sensing permits long lines between the charger and the batteries by compensating for the voltage drop in the charging wires. An ammeter provides continuous indication of the charger output.

Construction of the Auto Charge 11HO-PIM is extremely rugged to withstand the shock and vibration normally encountered by vehicle mounted equipment. The unit operates completely automatically and stops charging the batteries when they are fully charged. There is no trickle charge and therefore no danger of overcharging and water boil-off. Any parasitic loads on the battery such as radio, lights, etc., are automatically supplied with current by the charger.

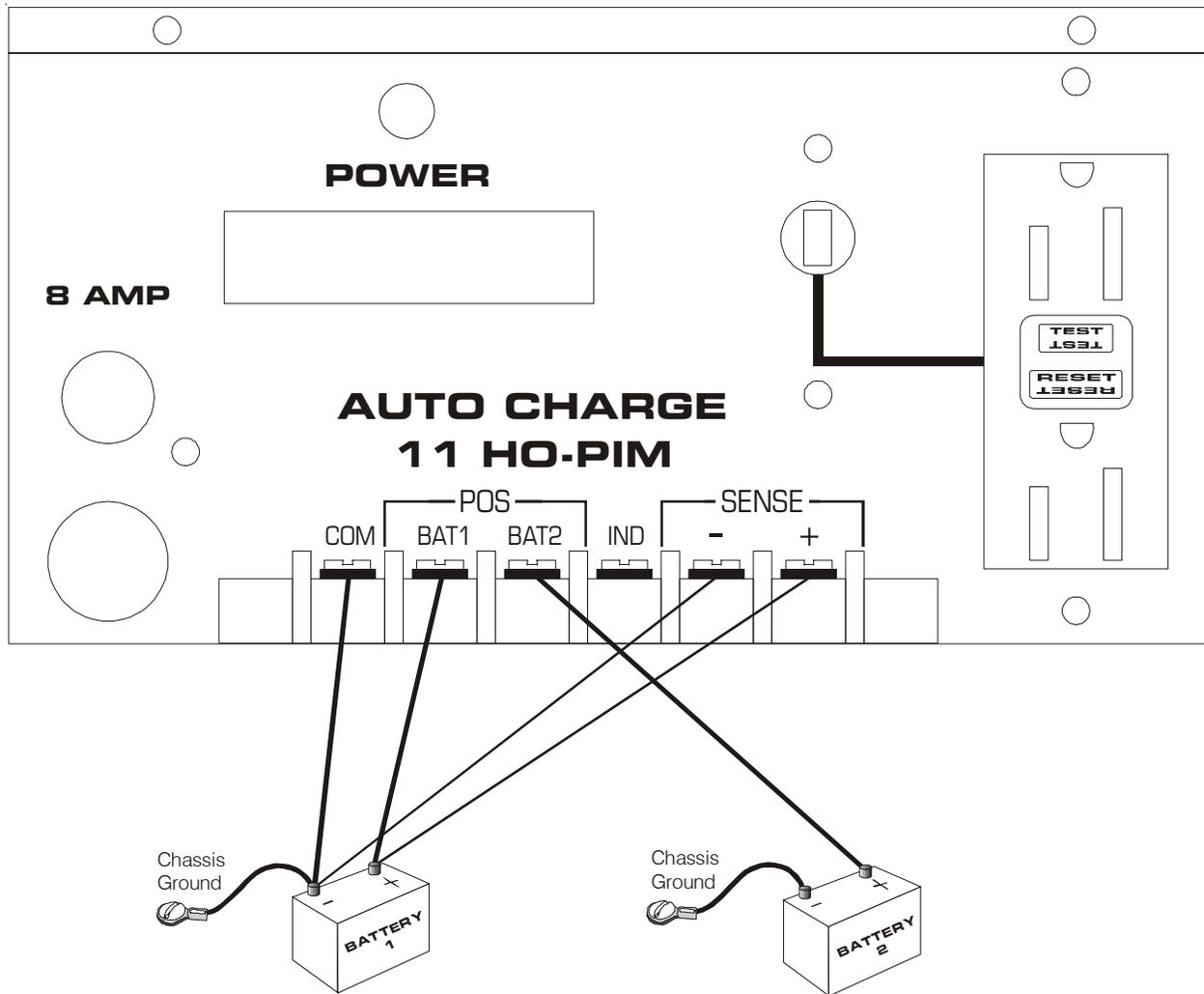
Any 120 volt loads when plugged into the GFI on the Auto-Charge 11HO-PIM will be protected from ground faults. A separate lever operated circuit breaker protects the GFI connected loads. This circuit breaker may also be use to disconnect these loads from the line. The fuse on the Auto-Charge 11HO-PIM protects the charger only.

INSTALLATION

The Auto Charge 11HO-PIM Automatic Battery Charger should be installed in an area with adequate ventilation. A power cord is supplied for connection to 115 volts 50/60 Hz.

1. Mount the charger using the four holes provided for this.
2. Connect the wiring from the batteries to the Output Terminal Strip. Spade lugs that have been securely crimped, or soldered, should be used.
3. Double check all wiring before proceeding.
4. Wire the A.C. power line cord to 115 volts.
5. Pilot light will light to show that the charger has power.

INSTALLATION WIRING DIAGRAM



WIRE SIZE CHART

CONNECTION	ITEM	DEFINITION	WIRE SIZE
COM	BATTERY COMMON	NEGATIVE CHARGING LEAD FOR BATTERIES	12 AWG
BAT 1	BATTERY #1	POSITIVE CHARGING LEAD FOR BATTERY # 1	12 AWG
BAT 2	BATTERY #2	POSITIVE CHARGING LEAD FOR BATTERY # 2	12 AWG
SENSE -	NEGATIVE SENSE	NEGATIVE VOLTAGE SENSE LEAD. DETECTS VOLTAGE	16 AWG
SENSE +	POSITIVE SENSE	POSITIVE VOLTAGE SENSE LEAD. DETECTS VOLTAGE	16 AWG

IMPORTANT: Wire size is for a maximum length of 20 feet. If wiring is to be longer, larger wiring is required. Additional information is available on request.

NOTE: Sense leads are shown connected to battery #1 but may be connected to either battery at the installers option. The sense leads however **must** be connected for the charger to operate. The charger does not require a 2 battery vehicle to function properly. For single battery vehicles connect to battery #1.

SPECIFICATION & OUTLINE

SPECIFICATIONS:

Input: 120volts 50/60Hz, 4 amps

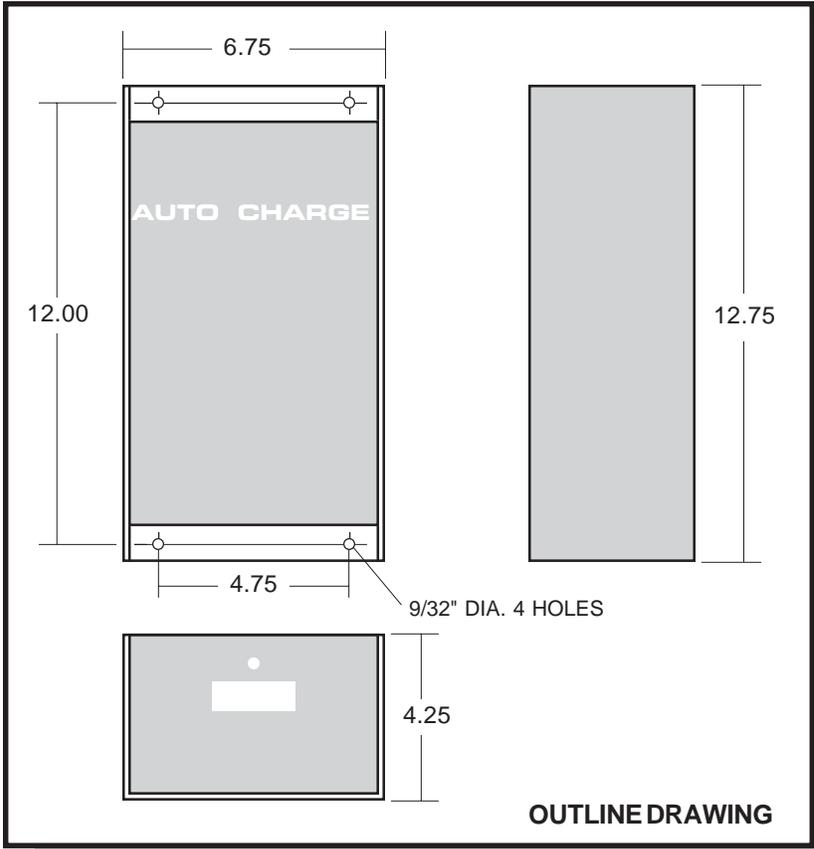
Fuse: 3 amp

Output: for 12 volt batteries

Output Current: 0-20 amps

Charge Indicator: 0-25 amps 5%

Weight: 23 lbs



INSTALLATION RECORD & WARRANTY

Date Installed _____

Installed By _____

Vehicle Identification _____

Vehicle Owner _____

WARRANTY

All products of Kussmal Electronics Company Inc. are warranted to be free of defects of material or workmanship. Liability is limited to repairing or replacing at our factory, without charge, any material or defects which become apparent in normal use within 3 years from the date the equipment was shipped. Equipment is to be returned, shipping charges prepaid and will be returned, after repair, shipping charges paid.

Kussmal Electronics Company, Inc. shall have no liability for damages of any kind to associated equipment arising from the installation and /or use of the Kussmal Electronics Company, Inc. products. The purchaser, by the acceptance of the equipment, assumes all liability for any damages which may result from its installation, use or misuse, by the purchaser, his or its employees or others.