

INSTRUCTION MANUAL

AUTO CHARGE 12 PIM AUTOMATIC BATTERY CHARGER

MODEL # 091-12PIM



NOTE :

This charger is designed for vehicles with single batteries and either negative or positive ground.

INPUT: 120 Volts A.C., 50/60 Hz, 4 Amps
OUTPUT: 13.25 Volts D.C.

3 YEAR WARRANTY



KUSSMAUL ELECTRONICS CO., INC.

170 CHERRY AVE., WEST SAYVILLE, N.Y. 11796

INTRODUCTION

This procedure defines the installation and wiring for the Auto Charge 12 PIM Automatic Battery Charger. It is suggested that the installer read the entire instruction manual to become familiar with the tasks involved before starting.

The Auto Charge 12 PIM Automatic Battery Charger is a compact completely automatic charger designed for installation on vehicles with single battery systems. 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 12 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.

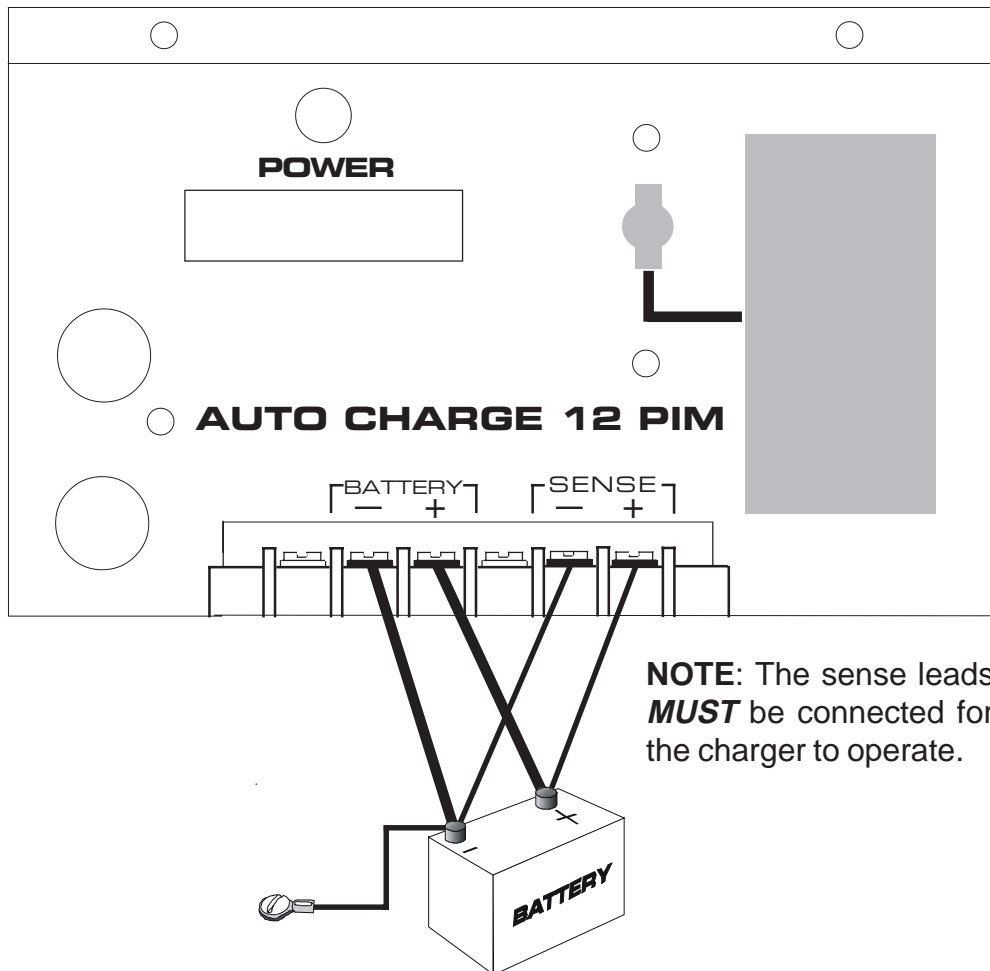
Any 120 volt loads when plugged into the GFI on the Auto-Charge 12 PIM will be protected from ground faults. A separate lever operated circuit breaker protects the GFI connected loads. This circuit breaker may also be use to disconnect these loads from the line. The fuse on the Auto-Charge 12 PIM protects the charger only.

INSTALLATION

The Auto Charge 12 PIM Automatic Battery Charger should be installed in an area with adequate ventilation. A power cord is supplied for connection to 115 volts 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.
6. The ammeter will indicate how much the batteries are charging. A charging current limit of amperes is factory set.

INSTALLATION WIRING DIAGRAM

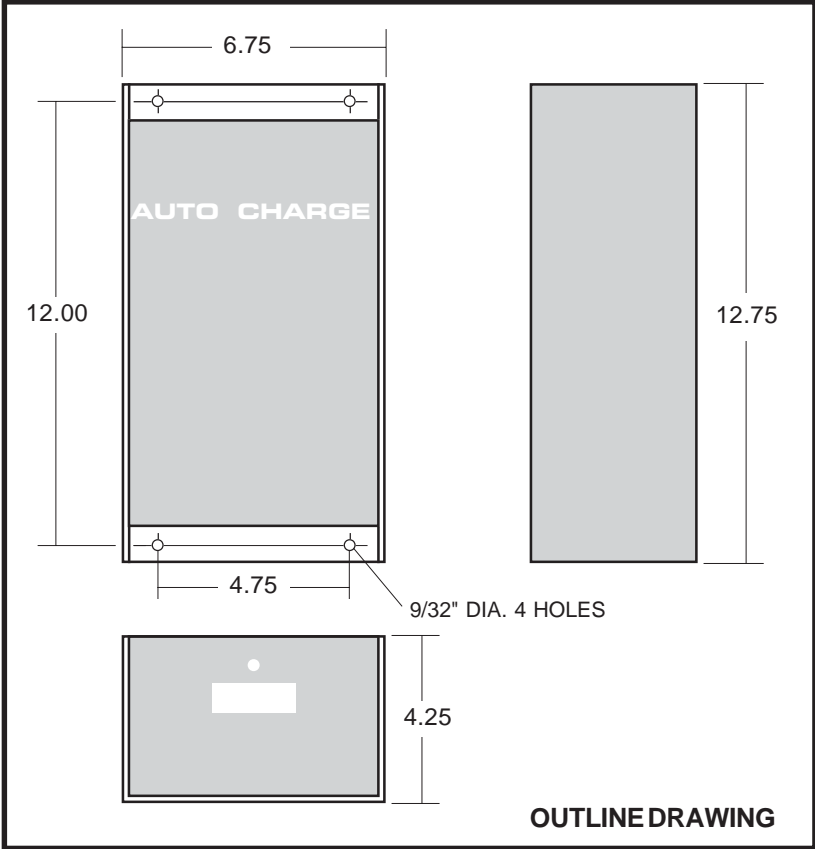


IMPORTANT: Battery + and - wire size is 12 awg. Sense + and - wire size is 16 awg. Wire size is for a maximum length of 20 feet. If wiring is to be longer, larger wiring is required. Additional information is available on request.

SPECIFICATION & OUTLINE

SPECIFICATIONS:

- Input:** 120 Volts A.C., 60Hz, 4 Amps
- Output:** Adjustable 13.3 Volts Nominal
- Output Current:** 0-12 Amps D.C., Current Limit
- Charge Indicator:** 0-15 Amps 5%
- Weight:** 16 lbs



INSTALLATION RECORD & WARRANTY

Date Installed _____

Installed By _____

Vehicle Identification _____

Vehicle Owner _____

WARRANTY

All products of Kussmaul 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.

Kussmaul Electronics Company, Inc. shall have no liability for damages of any kind to associated equipment arising from the installation and /or use of the Kussmaul 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.