

INSTRUCTION MANUAL

AUTO CHARGE 12 AUTOMATIC BATTERY CHARGER TRANSIENT SUPPRESSED

THIS CHARGER IS NOT REVERSE POLARITY PROTECTED

MODEL # 091-142-XX

NOTE :

**This charger is designed for
installations with a single
battery system**

INPUT : 115 volt, 50/60 Hz, 2.4amps

3 YEAR WARRANTY



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INTRODUCTION

The Auto Charge 12, Model 091-142-XX is a compact completely automatic charger designed for installation in systems which require transient protection and temperature compensation. A thermistor is provided to sense the temperature of the battery so that the charging voltage is automatically compensated. A front panel ammeter indicates the charge current status of the battery.

Construction of the Auto Charge 12 is extremely rugged to withstand shock and vibration. In addition the power input lines, charger output, and the voltage sense connections are provided with filters and MOV transient suppressors. These suppression circuits permit the charger to meet ANSI/IEEE C37.90.1-1989.

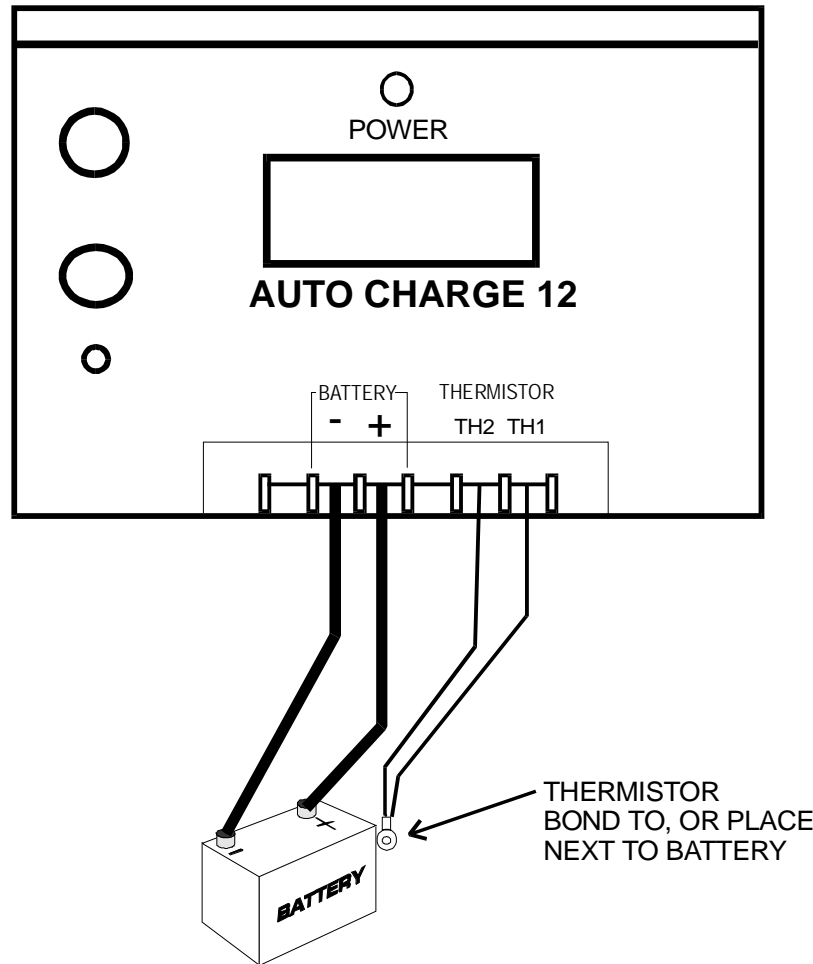
INSTALLATION

The Model 091-142 Auto Charge 12 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 battery to the Output Terminal Strip. Spade lugs that have been securely crimped, or soldered should be used.
3. Connect the thermistor supplied with the charger to the Output Terminal Strip.
4. Double check all wiring before proceeding
5. Wire the A.C. power line cord to 115 volts.

The pilot light will show that the charger has power.

INSTALLATION WIRING DIAGRAM



NOTE: THIS CHARGER IS NOT REVERSE POLARITY PROTECTED, PLEASE WIRE CAREFULLY

WIRE SIZE CHART

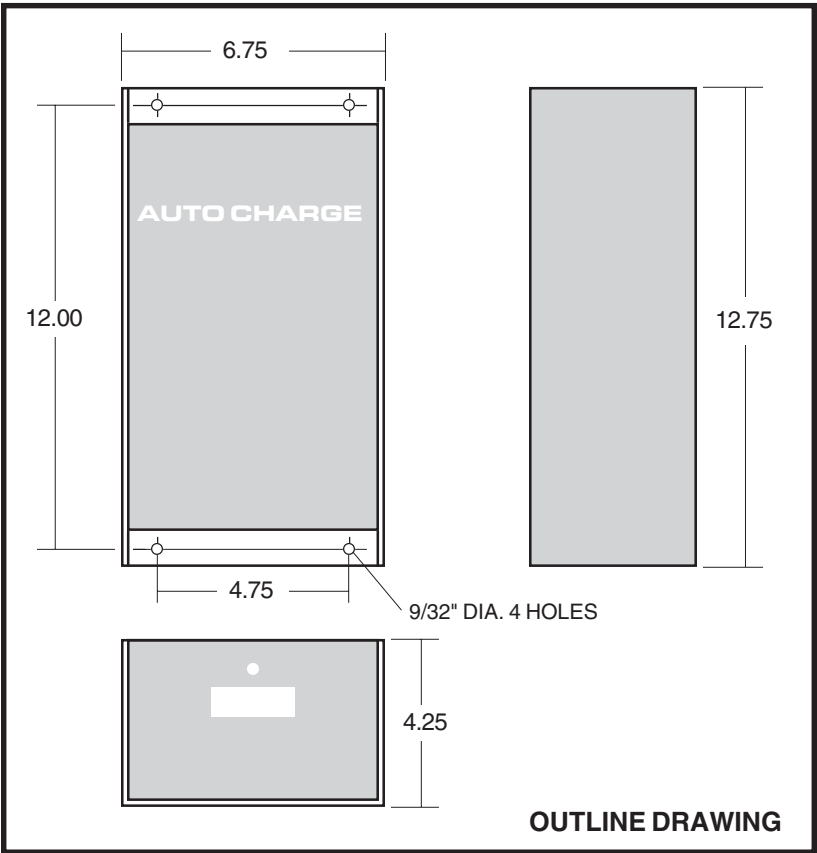
CONNECTION	ITEM	DEFINITION	WIRE SIZE
BAT-	BATTERY NEGATIVE	NEGATIVE CHARGING LEAD FOR BATTERIES	12 AWG
BAT+	BATTERY POSITIVE	POSITIVE CHARGING LEAD FOR BATTERY # 1	12 AWG

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.

SPECIFICATION & OUTLINE

- INPUT POWER: 115 volts 50/60 Hz, 2.4 amperes
- TRANSIENT PROTECTION: Complies with ANSI/IEEE C37.90.1-198
- OUTPUT POWER & CURRENT: See Chart
- BATTERY FLOAT VOLTAGE: See Chart
- REVERSE POLARITY PROTECTION: None
- TEMPERATURE COMPENSATION: -4 millivolts per deg. C per 2 volt cell
- CHARGE INDICATOR: See Chart
- AMBIENT TEMPERATURE: 0 to 50 deg. C
- WEIGHT: 12 pounds

MODEL	OUTPUT		FLOAT VOLTAGE at 20 deg. C	CHARGE INDICATOR
	VOLTS	AMPS		
091-142-12	12	12	13.25 volts	15 ampere
091-142-24	24	6	26.50 volts	10 ampere
091-142-36	36	4	39.75volts	5 ampere
091-142-48	48	3	53.00 volts	5 ampere
091-142-72	72	2	79.50 volts	3 ampere



INSTALLATION RECORD & WARRANTY

Date Installed _____

Installed By _____

Vehicle Identification _____

Vehicle Owner _____

WARRANTY

All product 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.

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.