

INSTRUCTION MANUAL

AUTO CHARGE 12 AUTOMATIC BATTERY CHARGER



MODEL #091-12-XX

NOTE :
This charger is designed for
vehicles with a single
battery system

3 YEAR WARRANTY



KUSSMAUL ELECTRONICS CO., INC.
170 CHERRY AVE., WEST SAYVILLE, N.Y. 11796-1221

TEL: in NY 631-567-0314

TOLL FREE: 800-346-0857

FAX: 631-567-5826

INTRODUCTION

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

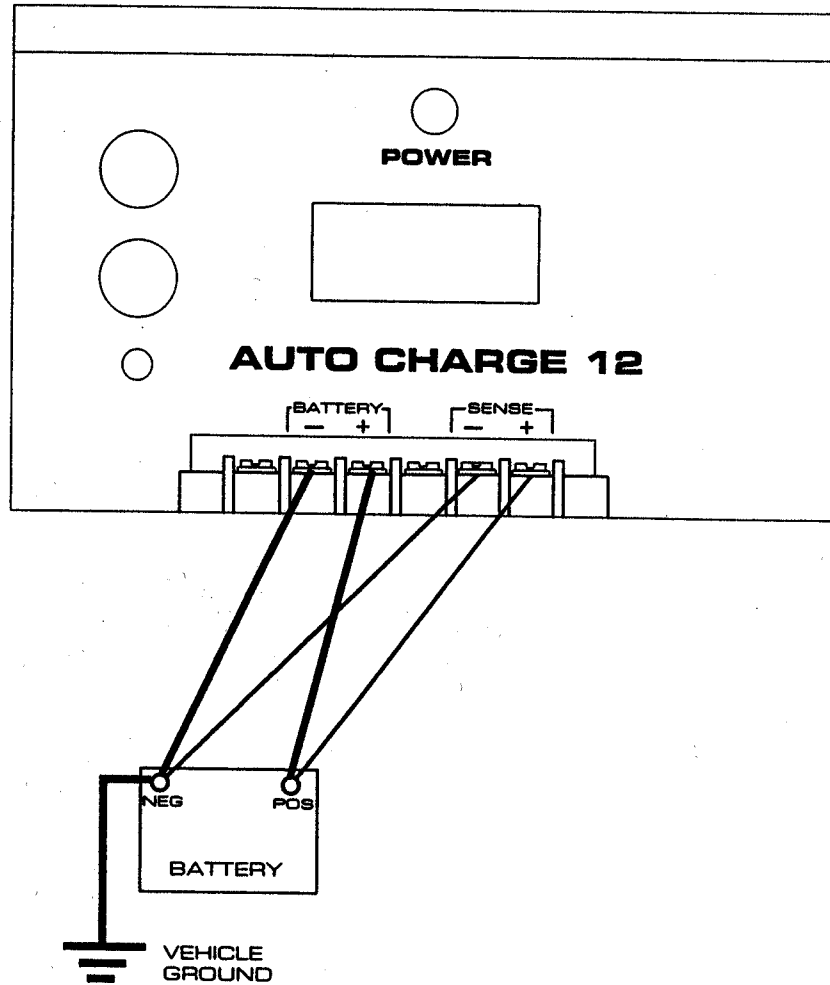
Construction of the Auto Charge 12 is extremely rugged to withstand the shock and vibration normally encountered by vehicle mounted equipment. The unit operates completely automatically and stops charging the batteries when they are fully charged. There is no trickle charge and therefore no danger of overcharging and water boil-off. Any parasitic loads on the battery such as radio, lights, etc., are automatically supplied with current by the charger.

INSTALLATION

The 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. Double check all wiring before proceeding.
5. Wire the A.C. power line cord to 115 volts.
6. Pilot light will light to show that the charger has power.

INSTALLATION WIRING DIAGRAM

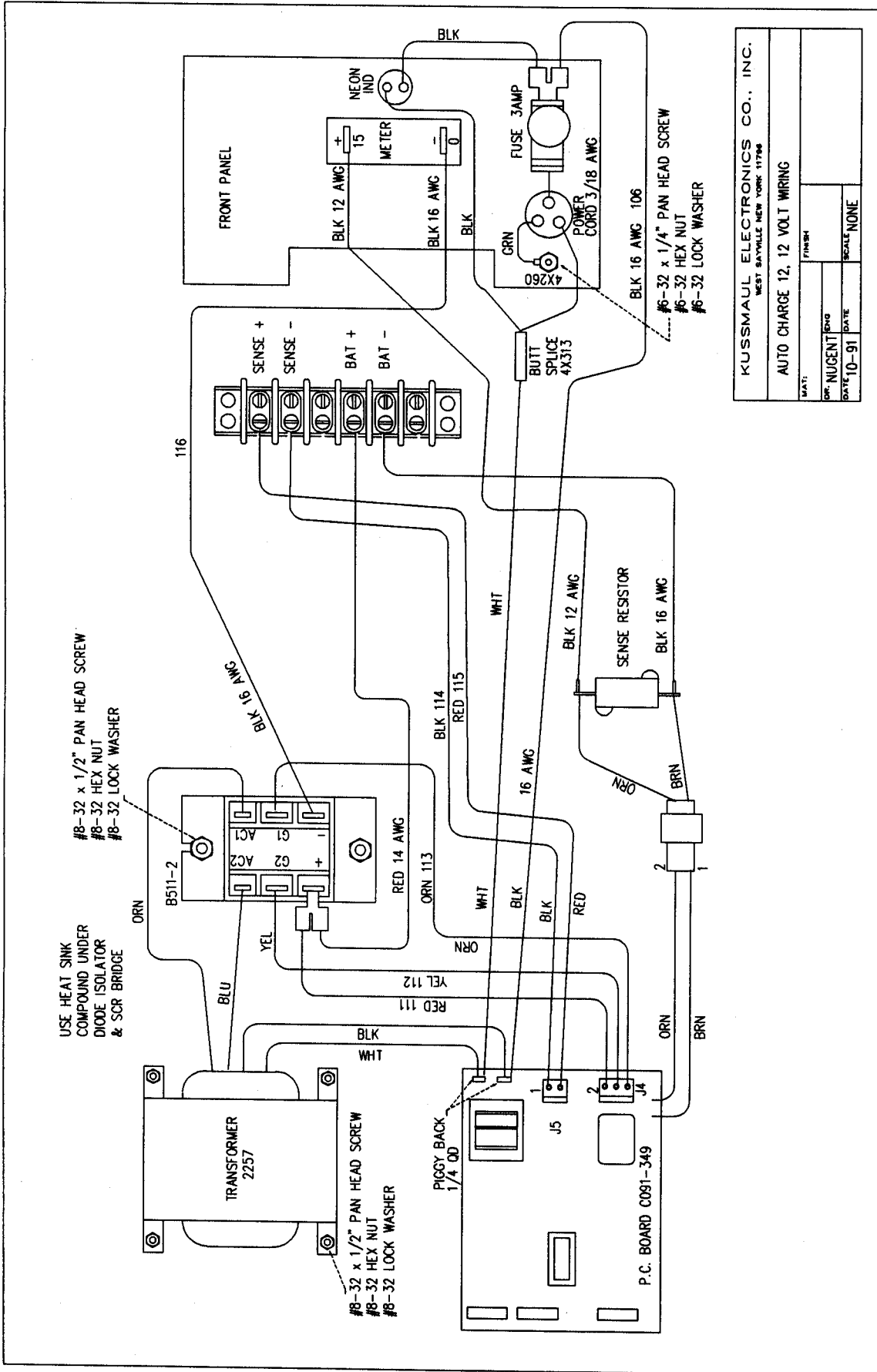


WIRE SIZE CHART			
CONNECTION	ITEM	DEFINITION	WIRE SIZE
BAT-	BATTERY NEGATIVE	NEGATIVE CHARGING LEAD FOR BATTERIES	12 AWG
BAT+	BATTERY POSITIVE	POSITIVE CHARGING LEAD FOR BATTERY # 1	12 AWG
SENSE -	NEGATIVE SENSE	NEGATIVE VOLTAGE SENSE LEAD. DETECTS VOLTAGE	16 AWG
SENSE +	POSITIVE SENSE	POSITIVE VOLTAGE 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: The sense leads **must** be connected to the battery for the charger to operate.

INTERNAL WIRING DIAGRAM

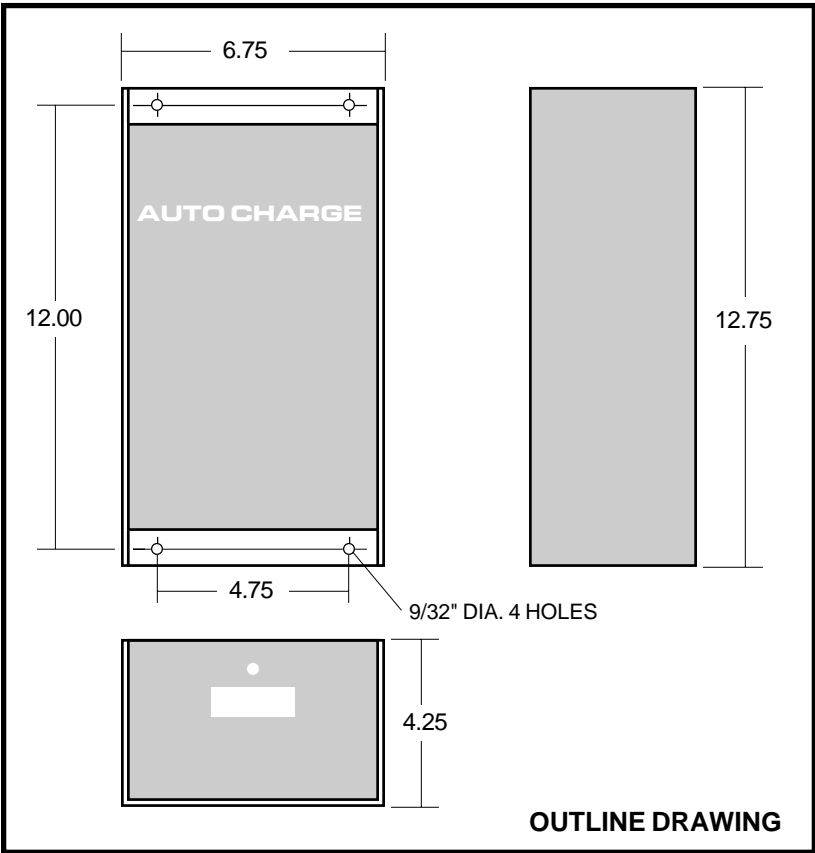


KUSSMAUL ELECTRONICS CO., INC.			
WEST BAYVILLE NEW YORK 11795			
AUTO CHARGE 12, 12 VOLT WIRING			
MATERIAL:		FINISH:	
DR. NUJCENT	ENG	DATE	SCALE
10-91			NONE

SPECIFICATION & OUTLINE

SPECIFICATIONS:
Input: 115V 50/60Hz, 2 amps
Output: see chart
Output Current: see chart
Charge Indicator: D.C. amps +5%
Weight: 12 lbs

SPECIFICATION CHART		
MODEL #	AMPS	VOLTAGE
091-12-6	12	6
091-12-12	12	12
091-11-24	6	24
091-12-32	5	32
091-12-36	4	36
091-12-48	3	48
091-12-72	2	72
091-12-96	1.5	96
091-12-120	1.2	120



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.