

INSTRUCTION MANUAL

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# MAINTENANCE MASTER AUTOMATIC BATTERY CHARGER



MODEL #091-7-xx

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

INPUT : 115 volt, 50/60 Hz, .75 amp

**3 YEAR WARRANTY**



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## 1. INTRODUCTION

This procedure defines the installation and wiring for the 091-7-xx Maintenance Master Battery Charger.

## 2. MOUNTING

Mount the Maintenance Master Charger at some convenient location near the battery utilizing two #8 x 1 screws provided. Mounting against a vertical wall is suggested, be certain that the upper and lower surfaces of the charger are unobstructed to permit free circulation of air.

## 3. ELECTRICAL CONNECTIONS

Connect the charger output to the battery. Note that the output leads are marked "Pos" and "Neg.". Connect the lead marked "Pos" to the positive terminal of the battery and the lead marked "Neg" to the negative terminal. This is easily accomplished with the #6 x 1/2 sheet metal screws provided - these may be screwed directly into the battery cable. In those installations where a connector is installed in the charger output, the installer must verify the polarity of the connector.

Note: **USE ONLY A POLARIZED CONNECTOR.**

# CAUTION

DAMAGE TO THE CHARGER MAY OCCUR IF THE CHARGER LEADS ARE CONNECTED TO THE IMPROPER TERMINALS OF THE BATTERY  
***VERIFY POLARITY BEFORE CONNECTING BATTERY***

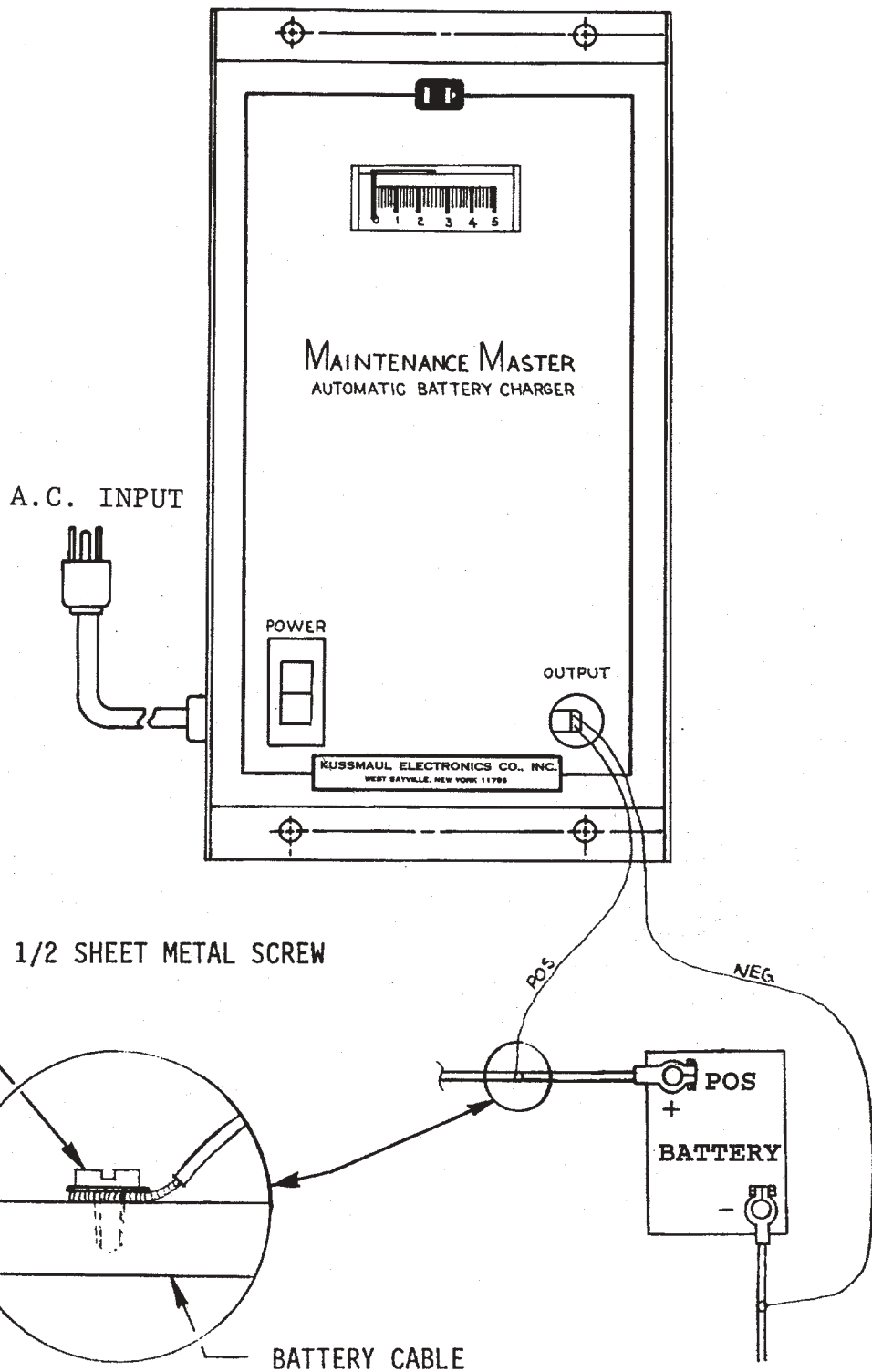
Upon completion of the charger output wiring, plug the charger into any convenient 115 volt, 50/60 Hz. outlet. Turn the power switch "ON". The charger will charge the battery - as the battery becomes fully charged the output current will decrease. When fully charged the output current will drop to zero.

## 4. CHARGER OUTPUT

The charger is calibrated to put out the voltage as follows:

Model Number	Nominal Voltage	Charger Output Voltage
091-7-6	6 volts	6.70 +/- .05 volts
091-7-12	12 volts	13.25 +/- .1 volts
091-7-24	24 volts	26.50 +/- .1 volts

Output current is limited automatically so that when the engine is started or the battery is deeply discharged, the charger protects itself.



INSTALLATION WIRING

# INSTALLATION RECORD & WARRANTY

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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.