

INSTRUCTION MANUAL

LOAD MANAGER 1

OVER-VOLTAGE DETECTOR RELAY



MODEL # 091-63-OV

A BATTERY SYSTEM VOLTAGE MONITOR
WHICH DETECTS OVERVOLTAGE CONDITIONS

3 YEAR WARRANTY



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INTRODUCTION

The 091-63-OV Over Voltage Detector relay is a device which continuously monitors the voltage of the battery. The unit is factory set to actuate at 14.7 volts but may be field adjust to other voltages. The output relay is capable of switching 5 amperes, and both a “normally open” and a “normally closed” contact are provided.

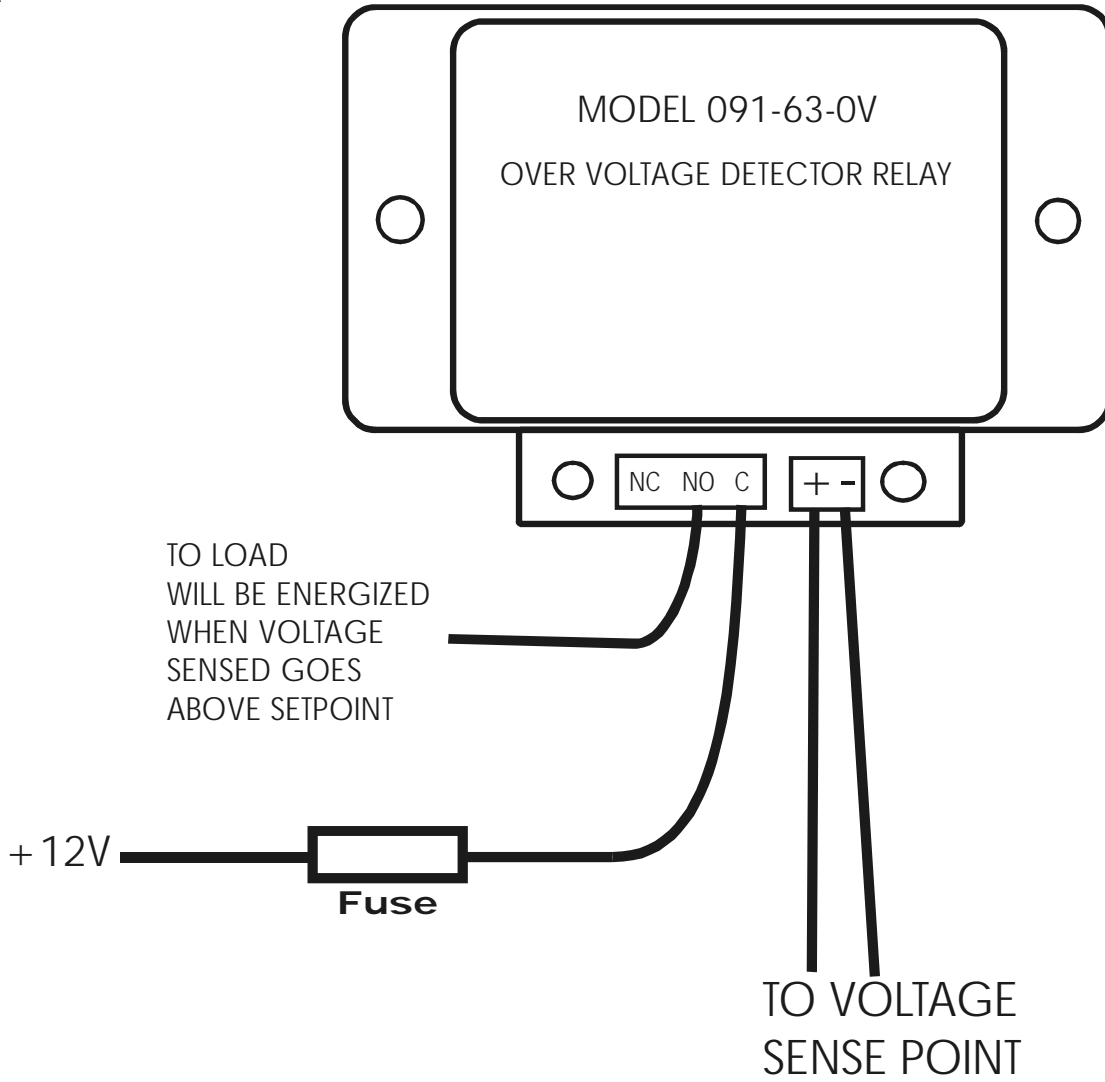
INSTALLATION

Connect the Over Voltage Detector to the battery, the load and the fuse as illustrated in figure 1. This is a typical circuit. Other circuit configurations are possible. It is always necessary to connect the Bat+ and Bat- terminals to that point at which the voltage is to be sensed.

ADJUSTMENT

The factory setting for the Over Voltage Relay is 14.7 volts. Field adjustment of the set point is possible. To do this, remove two screws holding down the cover. Note the position of the voltage adjustment trimmer. This is the 14.7 volt setting. To decrease the voltage turn counter clockwise. To increase the voltage turn clockwise. Two indicator LED's are provided adjacent to the terminal strip. When the green LED is lit, the voltage sensed is normal. When the red LED is lit, the voltage is above the set point. The voltage detector can be tested by gradually raising the system voltage while simultaneously measuring the voltage applied to the input terminals with a precise voltmeter and noting the voltage at which the red LED turns “ON”.

WIRING DIAGRAM

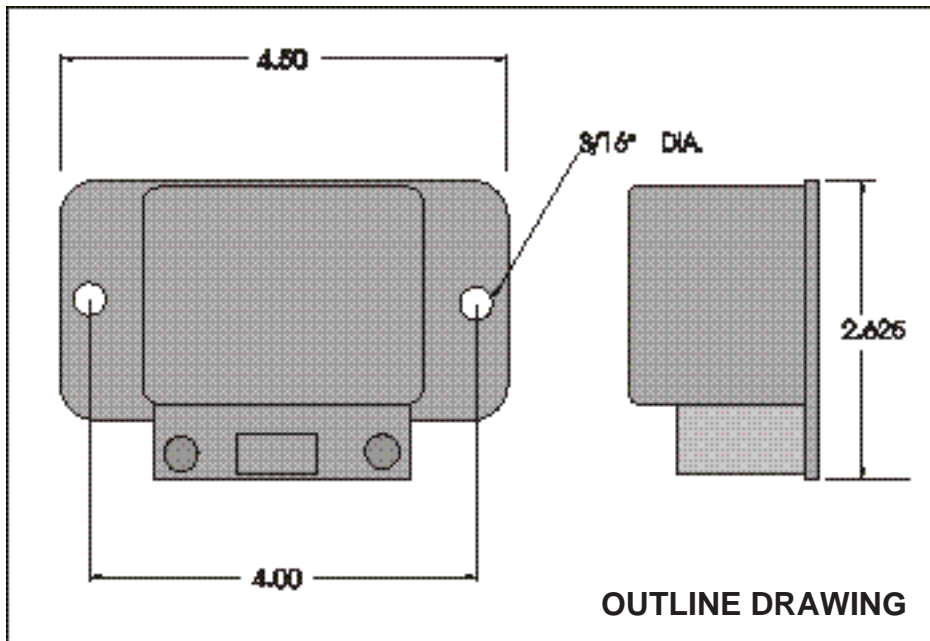


OVER VOLTAGE DETECTOR INSTALLATION

SPECIFICATION & OUTLINE

SPECIFICATIONS:

Input Voltage:	10 to 16 volts D.C.
Input Amps:	.020 amps, relay deenergized .10 amps, relay energized
Relay Contacts:	5 amperes max., normally open 5 amperes max., normally closed
Case:	non-weatherproof, polypropylene
Weight:	4 ounces



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.