AUTO THROTTLE 1

MODEL #091-84

AN AUTOMATIC HIGH IDLE CONTROLLER

3 YEAR WARRANTY
INTRODUCTION

The 091-84 Auto Throttle 1 is a voltage sensor designed to detect when insufficient alternator output causes the battery voltage to drop. Whenever the Auto Throttle 1 is selected the battery voltage is monitored. When this voltage drops below 12.5 volts for a period of 15 seconds, the Auto Throttle 1 relay will close.

Once the Auto Throttle 1 relay is operated it will always remain closed for a period of 5 minutes or until the sensed voltage rises above 13.4 volts, whichever occurs later. If the sensed voltage rises above 13.4 volts before the end of the 5 minute interval, then the relay will drop out at the completion of the 5 minutes. However, if the voltage has not attained 13.4 volts when the timer times out, the relay will remain energized as long as required for the battery to reach 13.4 volts. Red and Green indicator lights are provided to indicate the status and assist at installation. The Green LED is lit whenever the Auto Throttle 1 is enabled. When low voltage is detected for more than 15 seconds, the relay is energized, the Red LED lights and the Green LED is extinguished.

The Installer is cautioned that this device contains no interlocks. Safety Interlocks must be provided to assure that the Auto Throttle 1 does not inadvertently advance the throttle. It is suggested that the interlock interrupt the 12 volt DC. This will insure that all timing circuits in the Auto Throttle 1 are reset when it is enabled.

Typical installations appear in Figures 1, 2, and 3.
Red LED indicates Low Voltage has been Detected and illuminates when relay is energized.

Green LED indicates Voltage is normal and illuminates when relay is de-energized.

Auto Throttle 1 Output Relay - N.O. Contact - 30 Amps Max.
N. C. Contact - 20 Amps Max.

Auto Throttle 1 Select Switch
Interlock Switch Close to Enable Auto Throttle 1

To +12 Volt Sensing Point
Vehicle Ground

Figure 1 - Auto Throttle 1
Typical Installation
Figure 2 - Auto Throttle 1
Typical Installation with Isolation Relay and Neutral Safety Switch that Supplies +12 Volts
Red LED indicates Low Voltage has been Detected and illuminates when relay is energized.

Green LED indicates Voltage is normal and illuminates when relay is de-energized.

Auto Throttle 1 Output Relay - N.O. Contact - 30 Amps Max.
N.C. Contact - 20 Amps Max.

To +12 Volts From Neutral Safety Switch

Typical Installation with Isolation Relay and Neutral Safety Switch that Supplies +12 Volts.

Figure 3 - Auto Throttle 1 Select Switch
Auto Throttle 1 Sensing Point

Solenoid Valve
Vehicle Ground

+12 Volts

REL0322
Date Installed __________________________________________

Installed By __________________________________________

Vehicle Identification __________________________________

Vehicle Owner _________________________________________

WARRANTY

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