ETM80

Dodge Ram Electronic Throttle



Key Features

- Three Adjustable Engine Speed Presets
- Provides Elevated Engine Idle for PTO, A/C and Alternator Loads
- Diagnostic LED Indicators for System and Sensor Status
- Encapsulated electronics for maximum environmental protection
- Compact Size Mounts Under Dash
- Easy to Install

Fast Idle Speed Control for Dodge Ram Trucks.

Vehicle Compatibility

This electronic throttle is compatible only with certain Dodge and Serling vehicle configurations. To determine the electronic throttle that matches your vehicle model year, chassis, engine and transmission refer to the Throttle Selector menu of InPower's web site, www.InPowerLLC.com.

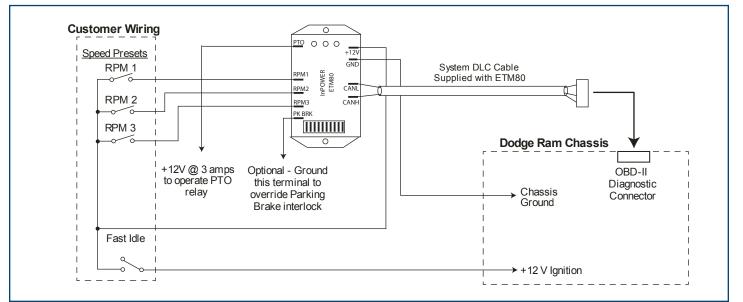
Technical Description

Three fixed speed preset modes allow the engine to be operated in the range of 900 RPM (normal idle) to 2000 RPM. The modes are selected by applying +12 volts to the RPM1, RPM2 or RPM3 mode input terminals. The three fast idle presets can be individually adjusted by calibration potentiometers accessible on the top of the module.

The fast idle function includes chassis ready conditions safeguards that must be satisfied before the engine speed can be increased. These enablers are: transmission in Park, parking brake set, engine started and idling below 1000 RPM, vehicle stationary (no speed), foot off service brake, and foot off accelerator.

A 10 LED diagnostic indicator on top the ETM80 module displays the selected operating mode, status of sensors monitored and other system conditions.

The compact ETM80 controller module measures only 2 x 4 inches. Wiring terminations utilize 0.25 inch Faston (blade) terminals. The controller mounts under the dash and connects to a three foot cable that plugs into the vehicle's OBD-II Data Link Connector.







Product Data Sheet PDS-75F

ETM80

Specifications

Modes of Operation Preset RPM Modes Function: Number of presets:

Increases idle to a preset rpm Three RPM1, RPM2 & RPM3 Apply +12 V to input to select mode. Must be from +12 V Ignition power 900 to 2000 rpm Three internal potentiometers

Range of calibration: Calibration method:

Input identification:

Activation:

Mode Priorities:

- RPM1 Highest (will override all other modes)
- RPM2 Second (will override lower mode)
- RPM3 Third (Lowest priority)

Chassis Ready Conditions

The following conditions must be met before the ETM80 controller will initiate a fast idle mode:

- 1. Engine running at idle speed below 1000 rpm
- 2. No vehicle speed
- 3. Automatic transmission in PARK
- 4. Service brake not depressed
- 5. Accelerator pedal not depressed
- 6. Parking brake set (hardwired input from switch)
- 7. No Diagnostic Trouble Code (DTC) Check Engine light must be off.

Mechanical Drawing

Dodge Ram Electronic Throttle

Power RequirementsInput Voltage:8 to 16 volts dc (from Ignition Switch)Input Current:30 milliamps

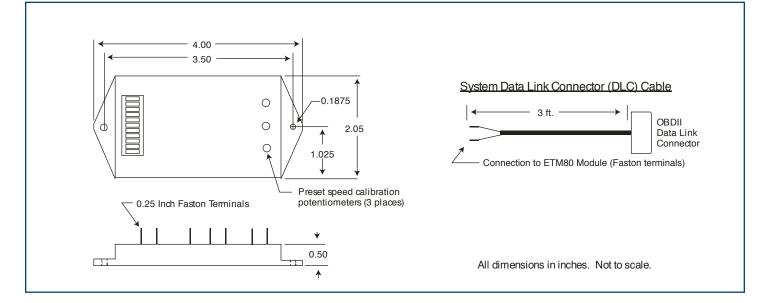
Optional Parking Brake Input

The Park Brake input terminal is not required for normal usage. It may be used for applications that need to increase the engine idle with the parking brake released. Grounding this terminal will allow the ETM80 system to function with the parking brake released.

PTO Output

The PTO output is set (+12 volts @ 3 amps) to operate a PTO relay. This output turns on after all the chassis ready conditions are met and the engine speed has been increased to 900 rpm. After this output turns on there is a one second delay before the engine speed ramp up begins. This allows the PTO to completely engage at 900 rpm.

NOTE - Do not connect this to the OEM PTO wiring.





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