

OWNERS MANUAL

Model ETM30 Electronic Throttle Module for Ford 6.0 and 7.3 Liter Diesel Truck Engines



Introduction

The Model ETM30 Electronic Throttle Module is designed to provide two modes of engine rpm control for trucks that use Ford 6.0 and 7.3 liter turbo diesel engines. Mode selection is via two inputs, and mode priority interlocking is provided.

Standard Features

- Supports Ford 6.0 liter and 7.3 liter Power Stroke diesel engines
- Two modes of operation
- Direct interface to engine controller
- Licensed Ford patented technology assures compatibility and reliability
- Encapsulated electronics for maximum environmental protection
- Reads sensor information directly from engine controller
- Eliminates connections to sensors
- LED status indicators

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Operation

When the vehicle is parked and *Chassis Conditions for Proper Operation* are satisfied the engine idle speed may be controlled by selection one of the two available modes (Preset1 and Preset2). The preset rpm modes may be adjusted by the user via two calibration potentiometers on the top of the ETM30 unit.

Chassis Conditions for Proper Operation

1. Parking brake is set.
2. For automatic transmission, gear shift lever is in "PARK."
3. For manual transmission, foot is off clutch pedal.
4. Foot is off service brake.
5. Foot is off accelerator pedal.
6. Vehicle is stationary.
7. Engine is started and idling.

Modes Of Operation

A. Two Preset RPM High Idle Modes:

Function:	Increase idle to a preset rpm value
Terminals:	RPM1, RPM2
Activation:	Apply ground to terminal
Range of Calibration:	1200 to 2600 rpm
Type of Adjustment:	Internal potentiometers
RPM1 Adjustment:	Potentiometer 1
RPM2 Adjustment:	Potentiometer 2

B. Mode Priorities

RPM 1	Highest - Will override RPM2 mode
RPM2	Lowest - Will only work if RPM1 mode is off

Status Indicators

A five segment LED provides status and problem detection information. Refer to the following table for coding of these functions.

LED	Status	Indication
ON/OFF	On Solid	Module ON and functioning
ON/OFF	Flashing	Module ON, but a problem was detected
*GEAR	On Solid	Vehicle Gear = Park, Park Brake set
*GEAR	Flashing	Park Brake not set or Foot Brake on
RPM1	On Solid	RPM1 terminal grounded, engine at RPM1
RPM1	Flashing	RPM1 terminal grounded, engine at Low Idle
RPM2	On Solid	RPM2 terminal grounded, engine at RPM2
RPM2	Flashing	RPM2 terminal grounded, engine at Low Idle

* Note that "GEAR" LED indicators are NOT VALID on units identified as ETM30-C (Ford 6.0 liter engine applications).

Installation

The ETM30 is usually mounted inside the cab under the dashboard. A five ft. Cable is supplied that connects to the Ford wiring harness' four-pin connector. The mode activation connections are supplied by the user and are 0.25 inch Faston terminals (see wiring diagram).

Setup and Calibration

The only calibration required is to select each of the two preset modes (RPM1 and RPM2) and adjust the two respective potentiometers on the ETM30 to the desired rpm.

Specifications

Electrical

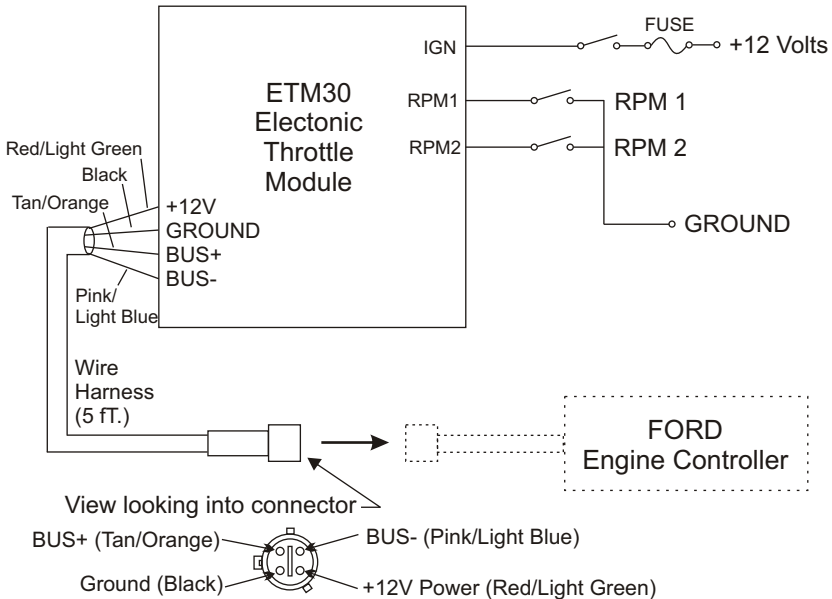
Input Voltage (+12V Terminal):	8 to 16 volts
Input Current (+12V Terminal):	37 mA
Standby Current:	28 mA
Input Current (on/off terminal):	1 mA
Control Current:	1 mA

Mechanical

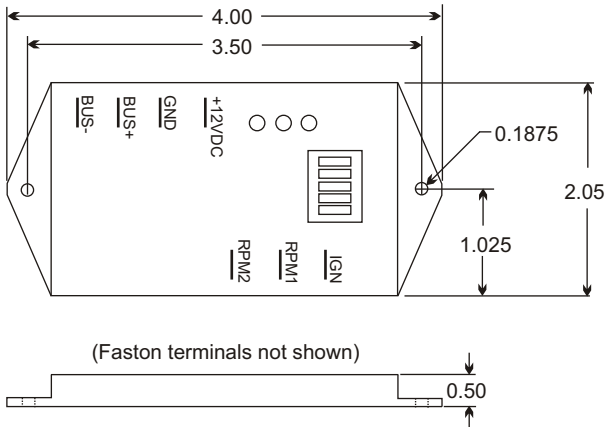
Weight:	0.164 lbs
Connections:	Faston 0.25 inch terminals
Case Material:	Cyolac thermoplastic (UL 94VO)
Encapsulation Material:	Epoxy potting compound, resistant to most fuels, oils, acids, and cleaning agents.

NOTE - This version of the Model ETM30 has been revised to operate on both 7.3 liter and 6.0 liter engines, and is identified as "Revision C". The ETM30 will operate the same on both engine types EXCEPT that the GEAR diagnostic LED on the 6.0 liter engine applications should not be used as it will contain erroneous indications. The revision code is in the product name on the product box (e.g., ETM-30-C), and preceding the LOT number printed on the side of the ETM30 (e.g., ETM30C Lot: xxxxx).

Wiring Diagram



Mechanical Drawing



All dimensions in inches. Not to scale.

InPOWER LLC

3555 Africa Road
Galena, Ohio 43021
Tel 740-548-0965 Fax 740-548-2302
www.InPowerDirect.com

Customer Evaluation

InPower wants to ensure total customer satisfaction. Please download a product evaluation form at www.InPowerDirect.com/customer_evaluation.htm or call us toll free at 866-548-0965 to be sent a form by mail.