

Electronic Throttle Module



Two-Mode Fast Idle Speed Control for Ford and GM Vehicles with Automatic Transmissions.

The ETM52 Electronic Throttle provides basic high idle functions for GM (Chevy & GMC) and Ford vehicles. Two modes of fast idle control are provided. The *Fixed Speed* mode elevates the engine speed to a fixed rpm value. Depending on the chassis, available fixed fast idle speeds are 1200, 1460 or 1500 rpm. These speeds are set up at installation. The *Automatic* mode increases the engine speed to the fixed speed rpm value when the battery voltage indicates a low charging condition. Normal idle speed is resumed when the battery voltage indicates a charged condition.

The fast idle function includes interlock safeguards that must be satisfied before the engine speed can be increased. These enablers include: transmission in Park, parking brake set, vehicle stationary (no speed), foot off service brake, and foot off accelerator.

Key Features

- Supports Ford and GM Chassis
- Automatic Battery Charge Protect Mode
- Fixed Speed High Idle Mode
- Diagnostic LED Status Indicators
- Built-In Safety Interlocks
- Wiring Harness with Amp Connector
- Compact Size
- Easy To Install

Vehicles supported include:

GM (Chevy & GMC)

- 2008-2009 Suburban/Tahoe
- 2008-2009 Express/Savana
- 2008-2009 Silverado/Serra
- 2008-2009 Topkick/Kodiak

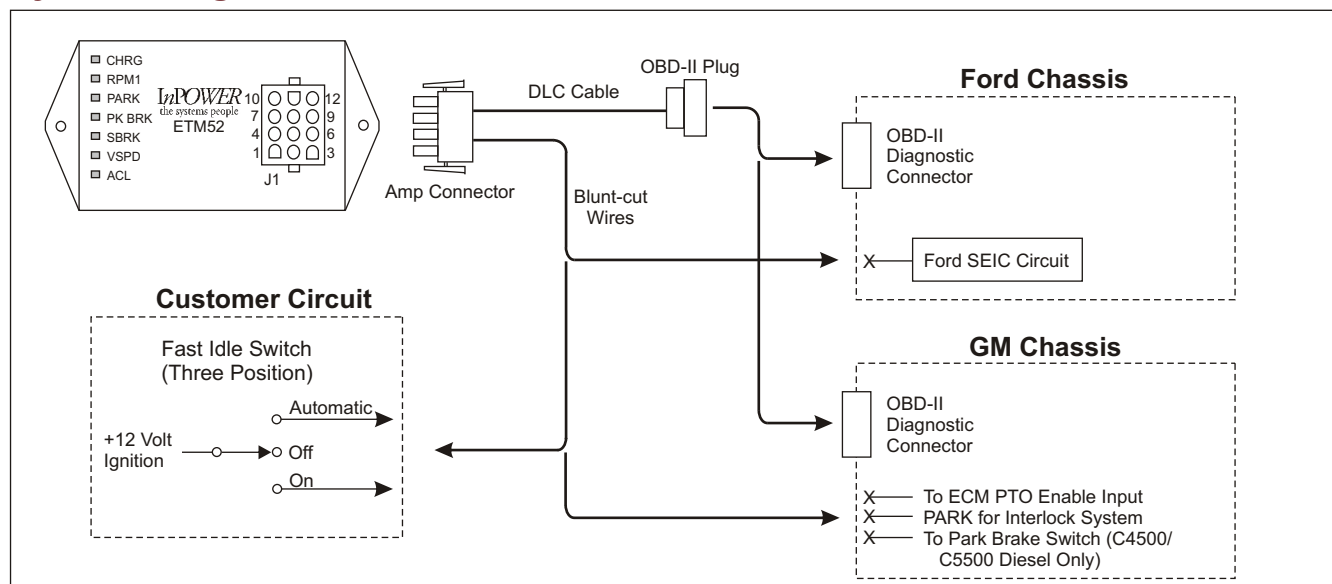
Ford

- 2008-2009 F250-F550
- 2009 E250-E450

Seven LED indicators are located on the ETM52 module to display the selected operating mode and the safety interlock conditions.

Wiring terminations utilize an Amp 12-pin Mate-N-Lok connector. A wiring harness is included that contains a OBD-II plug and blunt-cut wires for connecting to chassis functions and the customer provided Fast Idle switch.

System Diagram



ETM52 Electronic Throttle Module

Specifications

Modes of Operation

Fixed Speed Mode: When activated, the engine speed is increased to a fixed rpm value. This is established at installation as follows:

Ford Gas:	1200 rpm or 1500 rpm
Ford Diesel:	1200 rpm
GM Gas:	1200 rpm or 1460 rpm
GM Diesel:	1200 rpm or 1460 rpm

Automatic Mode: Automatically elevates engine speed to maintain battery charge.

Power Requirements

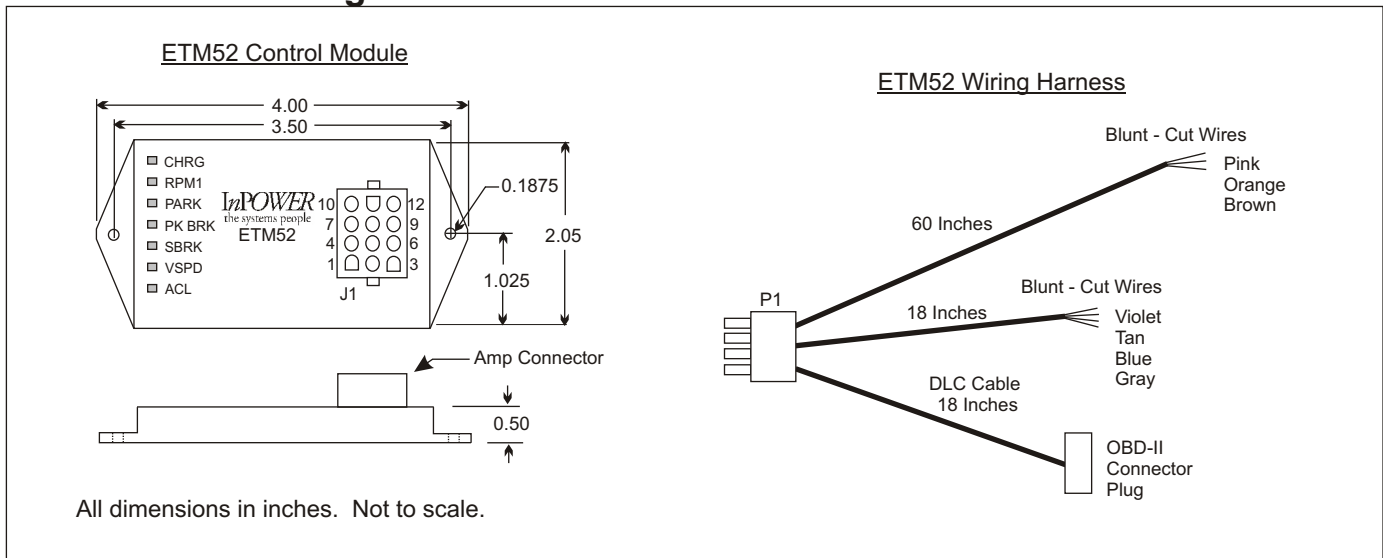
Input Voltage: 8 to 16 volts dc (from Ignition Switch)
Input Current: 30 milliamps

Chassis Supported

Ford and GM chassis with automatic transmissions:

GM	2008-2009 Suburban/Tahoe	Engines: 4.8L(C), 5.3L(O), 6.0L(K), 6.0L(Y)
GM	2008-2009 Express/Savan	Engines: 4.8L(C), 5.3L(4), 6.0L(K), 6.6L(6)
GM	2008-2009 Silverado/Serra 1500-3500	Engines: 4.8L(C), 5.3L(O), 5.3L(3), 6.0L(K), 6.6L(6)
GM	2008-2009 Topkick/Kodiak C4500/C5500	Engines: 6.6L(9)
Ford	2009 E250-E450	Engines: 5.4L(L), 6.0L(P), 6.8L(S)
Ford	2008-2009 F250-F450	Engines: 6.4L(R), 5.4L(C), 6.8L(S)

Mechanical Drawing



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Specifications subject to change without notice.