DBT-GM-B

Data Bus Throttle for GM Vehicles with Global B Interfaces

Key Features

- Supports GM light-duty vehicles.
- Low cost with fast and easy installation.
- Automatic charge protect and fixed speed modes.
- Data bus cable connects to OBD-II Global-B connector.
- LED status and diagnostic indicators.
- Customized functions available.

Technical Description

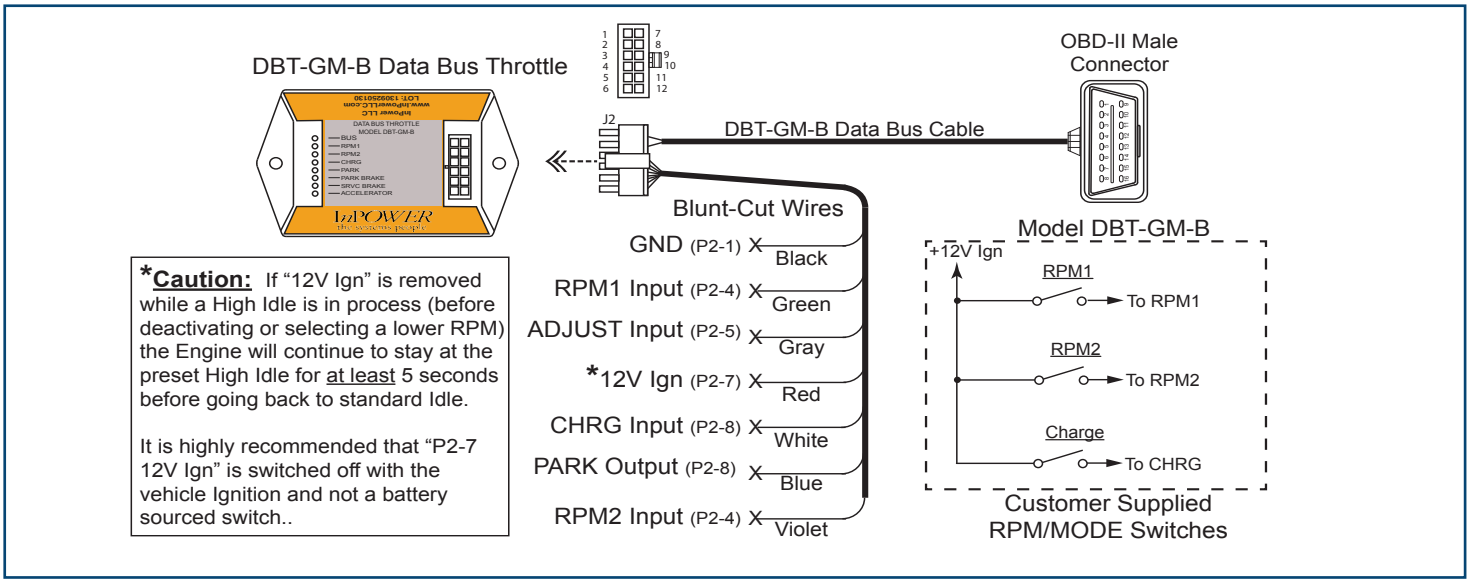
InPower's DBT-GM-B Data Bus Throttle provides high idle engine RPM control for GM light-duty vehicles. It features a plug-and-play design for fast and easy installation. The control module connects to the vehicle's OBD-II Global B diagnostic connector. The cable also includes blunt-cut wires for the operating mode inputs, the Park output signal, and the speed adjustment.

DBT-GM-B has two adjustable presets (RPM1 and RPM2) activated by +12V, and automatic charge protect. *Note*: Module will not activate unless all chassis ready conditions are satisfied.

InPower's Charge Protect activates when the chassis battery enters a low voltage condition. It gradually raises the engine RPM to the minimum necessary to charge the battery before dropping the RPM back to the minimum idle to maximize fuel economy and minimize emissions. The On/Off charge protect immediately boosts the engine RPM to 1200 RPM for faster battery charging.

InPower has designed the DBT's software going forward to support a wide range of the GM chassis and model year variations, and more will be added to the library as they are tested. To support our customers in selecting a throttle that is compatible with their specific chassis we provide a Throttle Selector Guide on our web site (www.InPowerLLC.com). Simply select the chassis and model year, and it will display the minimum software revision. The DBT-GM-B throttle is reprogrammable, so that software may be updated as necessary.

System Diagram



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Specifications

Module Inputs

Power Input:	+12 Ign volts is sourced from Pin 7
RPM1 Input:	+12V to activate
RPM2 Input:	+12V to activate
CHRG Input:	+12V to activate
Speed Adjust Input:	+12 volts to increase speed. Ground to decrease speed. The engine speed will change at a rate of around 40 RPM per second.

Module Outputs

Park Output:	+12 volts @ 3 amps when vehicle is in PARK. Set when Chassis Ready Conditions are met, the mode input is activated, and the speed request was sent to the engine controller.
Engine RPM Ramp Rates:	350 RPM per second for the Engine to go to a setpoint from idle or from a previously set RPM.

Mechanical

Dimensions:	3.165 x 1.94 x 0.798 inches
Weight:	0.046 lb
Operating Temp:	-40° C to +85° C

Factory Settings

Setting	RPM
RPM1	1500 RPM
RPM2	900 RPM
CHRG	1200 RPM

Notice for Use There is a GM 5 minute safety idle auto shutdown must be turned off when ever the high idle is to be used for more than 5 minutes. Otherwise the vehicle will shut down after 5 minutes. To override this shutoff, the vehicle must be started by holding in the START button for 10 Seconds. A notice will be displayed on the dash stating that the vehicle is in this mode. This must be overridden each time the vehicle is started.

DBT-GM-B Mechanical Drawing