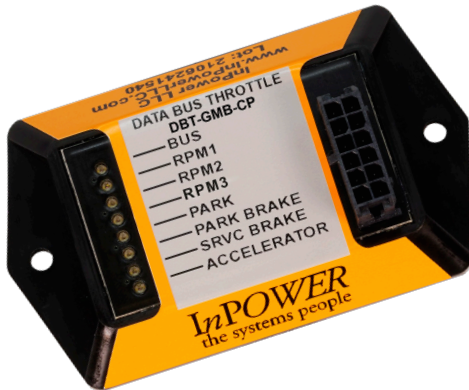


# DBT-GMB-CP

# Clutch Pump Throttle for GM 2024 2500/3500\* Vehicles



## Technical Description

Introducing InPower's DBT-GMB-CP Clutch Pump RPM control for GM 2024 2500/3500\* vehicles. This module offers plug-and-play design ensuring swift and effortless installation.

The DBT-GMB-CP connects seamlessly to the vehicle's OBD-II Global B diagnostic connector and provides blunt-cut wires for the following command and control:

- RPM Speed selection: RPM1, RPM2, and RPM3 (+12V True activated)
- RPM setting speed adjustment
- Clutch Pump output signal,

*Note:* Module functions will not activate unless **ALL** chassis ready conditions are satisfied.

The DBT-GMB-CP three user adjustable presets (RPM1, RPM2, and RPM3). For adjustment procedure, please refer to Owner's Manual.

The DBT-GMB-CP additionally has diagnostic LEDs to help with trouble shooting problems with operation. Detailed guidance can be found in the Owner's Manual.

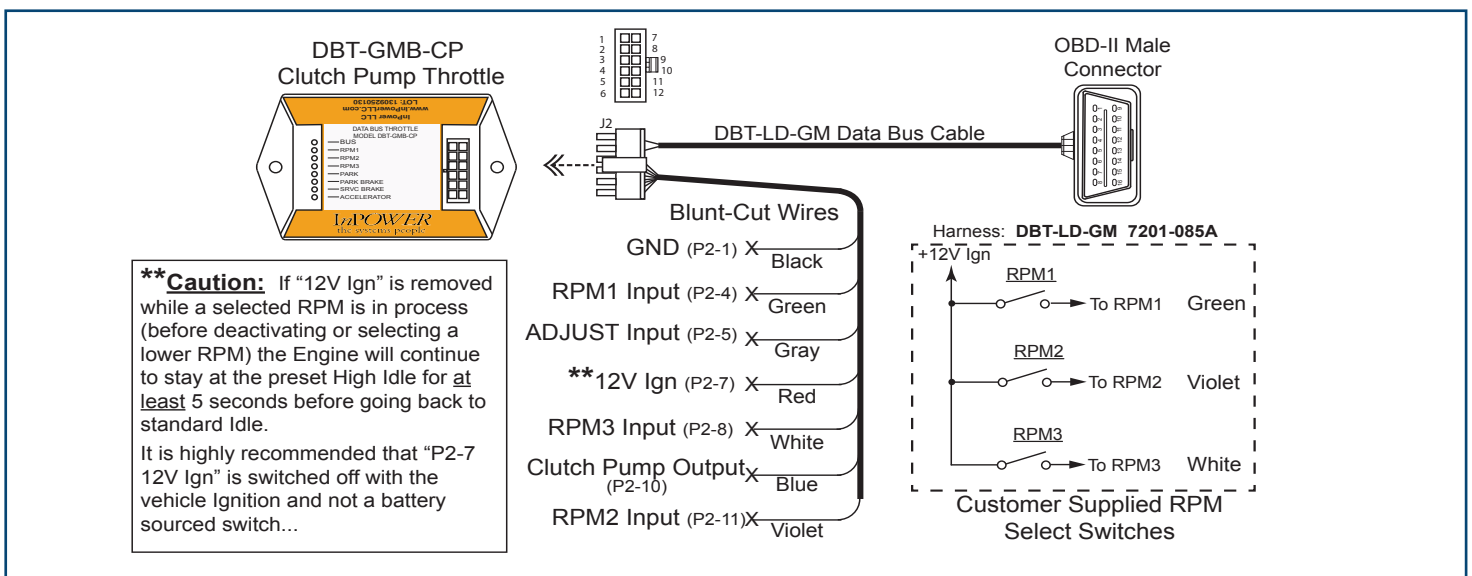
\*To support our customers in selecting a compatible throttle for their specific chassis, we provide a Throttle Selector Guide shown below. By selecting the chassis and model year, and it will display the minimum model number and SW revision required. The DBT-GMB-CP throttle is reprogrammable, allowing software to be updated as necessary.

[http://www.inpowerelectronics.com/throttle\\_selector](http://www.inpowerelectronics.com/throttle_selector)

## Key Features

- Specifically designed for GM 2024 2500/3500\* vehicles.
- Offers a low-cost solution with fast, straightforward installation.
- Incorporates Overspeed prevention for the Clutch Pump, featuring three user selectable (and adjustable) RPM Settings.
- Data bus cable connects to OBD-II Global-B connector for seamless integration..
- LED status and diagnostic indicators (Refer to Owner's Manual)
- Customized functions available to cater to user specific requirements.

## System Diagram



# DBT-GMB-CP

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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
RPM3 Input:	+12V to activate
Speed Adjust Input:	Connect to +12 volts to increase speed. Connect to Ground to decrease speed. The engine speed will change at a rate of around 40 RPM per second if the connection is continuous. A single brief connection will change the RPM by 8 RPM.

### Module Outputs

Clutch Pump Output:	+12 volts @ 3 amps when vehicle all chassis conditions are met for activation. When Park is engaged, Park Brake is ON, Service Brake is OFF, Accelerator Pedal in not depressed and all Chassis Ready Conditions are met, the selected RPM input will be activated, and when the RPM Control is started, the Clutch Pump Output will turn ON, and the selected RPM LED will stop flashing and become Solid
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Engine RPM

Ramp Rates:	350 RPM per second for the Engine to go to a setpoint from idle or from a previously set RPM.
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### 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	1200 RPM
RPM3	900 RPM

**Notice for Use** The 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-GMB-CP Mechanical Drawing

