

BTM805
Bluetooth Module
2010 - 2018 Medium Duty J1939 Vehicles
Contact InterMotive for additional vehicle applications



Introduction

The BTM805 product collects vehicle data over the standard J1939 vehicle communications bus and presents the data to third-party devices via Bluetooth communications. The data (See below for details) is presented in a defined format allowing third-party developers to be assured of consistency. The module is compatible with either the 250 or 500 kbps J1939 baud rate—it will automatically detect and use the correct one.

In addition to J1939 information, the module can collect discrete inputs from the vehicle environment; there are 4 low-active inputs and 4 high-active inputs available. These can be used to detect vehicle events which might not otherwise be available over the J1939 bus.

With the exception of the initial operation subsequent to “pairing” and connecting to a device where the module automatically sends a “line” of data periodically, all data needs to be specifically requested using one of several defined commands.

Installation Instructions

Disconnect vehicle battery before proceeding with installation



WARNING
Disconnect the battery to prevent setting a check engine light.

It is the installer’s responsibility to route and secure all wiring harnesses where they cannot be damaged by sharp objects, mechanical moving parts and high heat sources. Failure to do so could result in damage to the system or vehicle and create possible safety concerns for the operator and passengers. It is important to avoid placing the module where it could encounter strong magnetic fields from high current cabling connected to motors, solenoids, etc. Also avoid radio frequency energy from antenna’s or inverters next to the module. Finally, avoid high voltage spikes in vehicle wiring by always using diode clamped relays when installing upfitter circuits.

BTM805 Module

Remove the lower dash panel below the steering column and find a suitable location to mount the module. Locate the module in an area away from excessive heat sources (engine, heater ducts, etc.). Ensure when routing harnesses that the tilt steering column does not contact them in the full down position. When installing the harnesses, leave several inches of take-out such that the module can be removed if necessary. Do not mount the module until all wire harnesses are routed and secure. The last step of the installation is to mount the module.

Installation Instructions (continued)

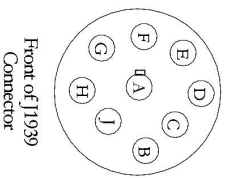
J1939 Data Link Harness

1. Locate the vehicle's J1939 Connector. It will be mounted below the lower left dash panel.
2. Remove the J1939 Connector from the mounting bracket.
3. Connect the BTM805 Data Link harness J1939 female connector to the vehicle's male J1939 connector.
4. Mount the BTM805 Data Link harness J1939 male connector to the vehicle's J1939 connector mounting bracket.
5. Plug the free end of the Data Link harness into the mating 6-pin connector on the BTM805 module.
6. Secure the BTM805 Data Link harness so that it does not hang below the lower dash panel.



Currently Available DATA (more to be added)

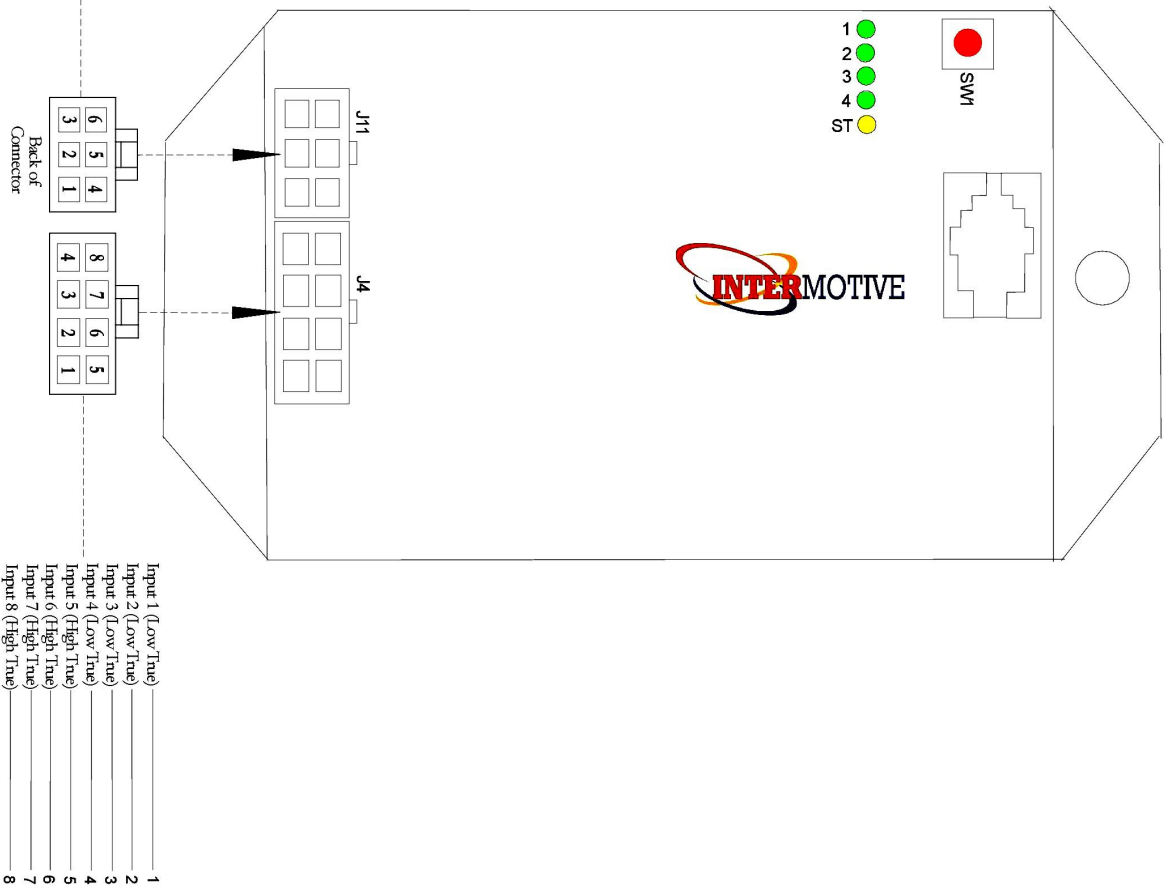
1. Odometer
2. Fuel level
3. MIL
4. Battery Voltage
5. Vehicle speed (VSS)
6. Air Brake pressures (application, primary side, and secondary side)
7. Accumulated engine operation hours
8. Engine Coolant Temperature
9. VIN
10. Diagnostic Readiness status
11. Diagnostic Trouble Codes
12. Status for each discrete input
13. Data as follows which can be "reset" with a specific command:
 - 1) Engine Idle time
 - 2) Fuel Flow
 - 3) Distance traveled
 - 4) Max Speed
 - 5) Max Deceleration
 - 6) Max Acceleration
 - 7) Event counter from two discrete inputs



Part # S-H59BX (Type1, 250Kb Only)
Part # S-H59DX (Type2, 500/250 Kb)

InterMotive Supplied
 Plug and Play J1939
 Data Link Harness

(Battery Voltage)	RED	1
(CAN 1 High)	YELLOW	2
(Ground)	BLACK	3
(CAN 1 Low)	GREEN	4
	NC	5
	NC	6



Submit product registration at www.intermotive.net
 If the BTM805 fails any step in the Post Installation Test, review the installation instructions and check all connections.
 If necessary, call Intermotive Technical Support at (530) 823-1048.