



61100 MODULE

INSTALLATION GUIDE

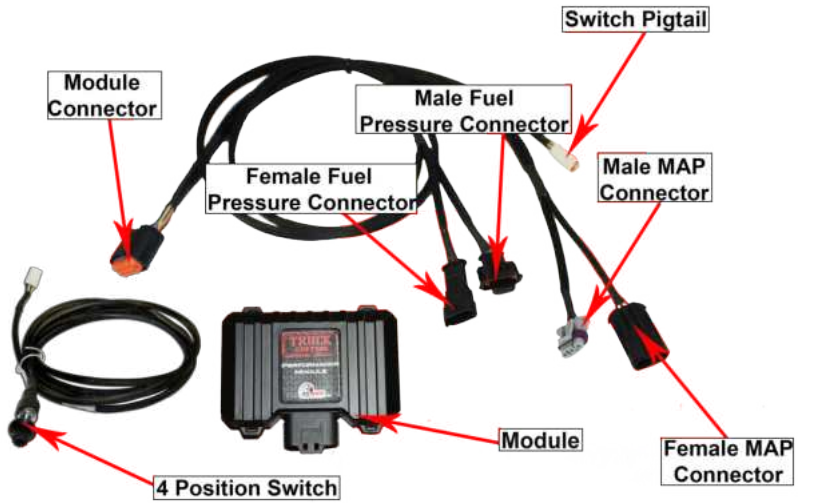
— 2004.5–2010 —
GM 6.6L DURAMAX
LLY / LBZ / LMM

UP TO 90HP GAIN
1-3 MPG FUEL SAVINGS

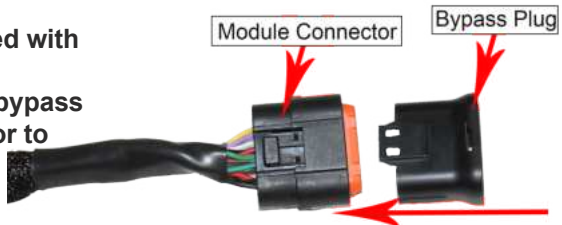


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A bypass plug is included with the module for potential troubleshooting. Install bypass plug in module connector to return vehicle to stock functionality if needed



Make sure to push completely together until connector snaps when using bypass plug.

For Tech Support Please Call 812-618-9168

PSI Power recommends removing the Ag Diesel Solutions module before any warranty work is performed on the piece of equipment the module is installed on.

Adjustable on the fly
Position 1- Stock (counter clockwise)
Position 2- Low- up to 30HP
Position 3- High- Up to 60HP
Position 4- High- Up to 90HP

Position 1- Switch far left
 Position 4- Switch far right



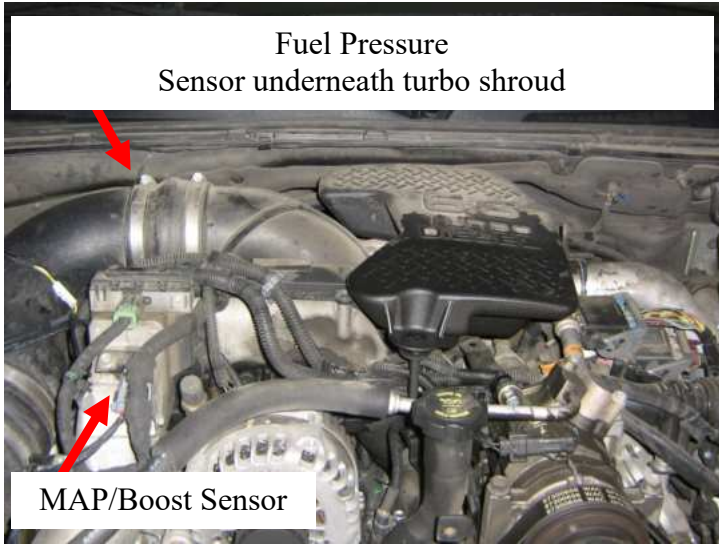
Module switch can be ran inside the cab for easy performance adjustment. Module switch can be secured in engine bay if desired. Module will default to HIGH setting if switch is not connected

NOT FOR USE IN CALIFORNIA

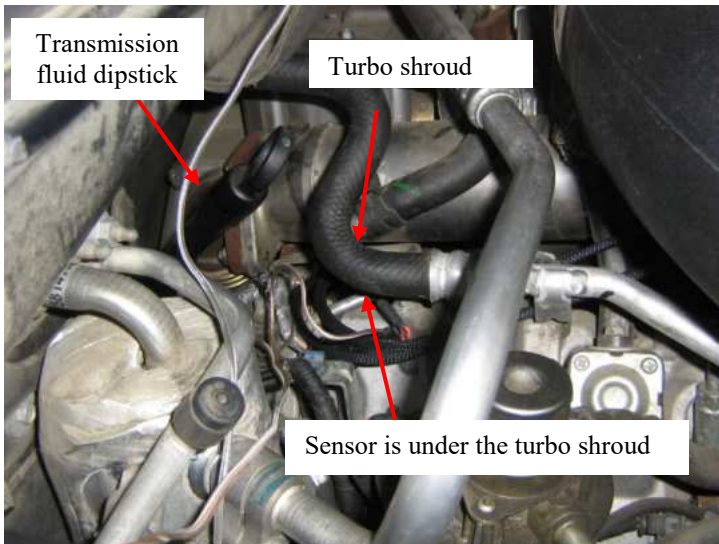
MODULE DOES NOT BYPASS, DELETE, OR DEFEAT ANY EMISSION CONTROL SYSTEMS

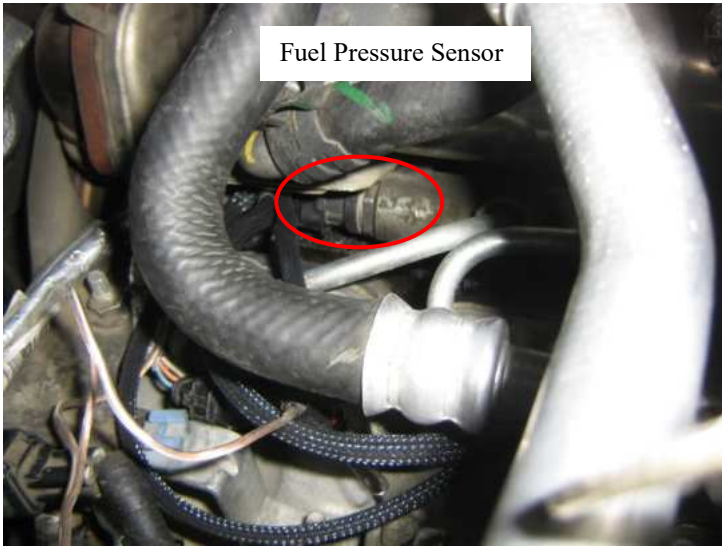
*If installation assistance is needed, Ag Diesel Solutions is not responsible for any cost associated with third party installation.

2004.5-2010 (6.6L) Duramax Engine Installations Instructions

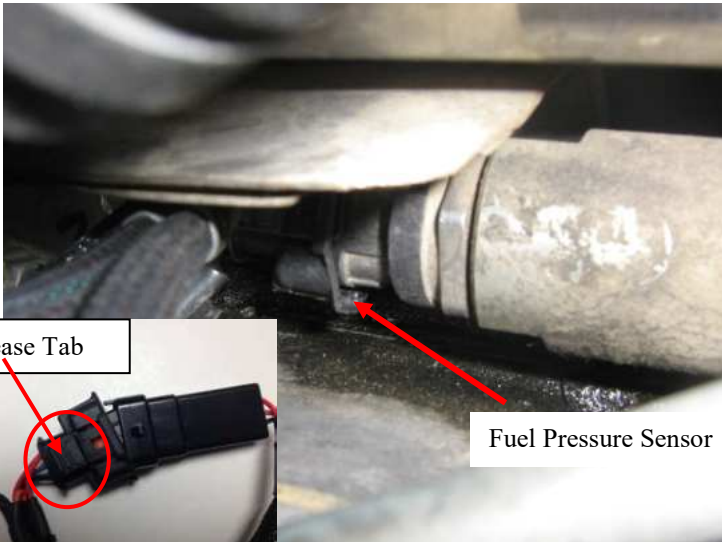


- 1) Locate Fuel Pressure Sensor on the passenger side of engine





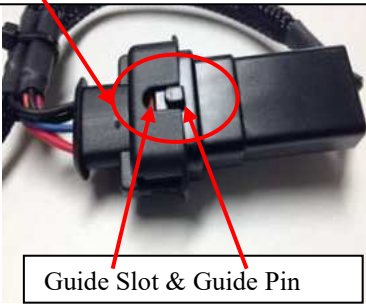
- 2) Unplug fuel pressure sensor. **Note:** There is a Release Tab on the stock fuel pressure sensor. Press the Release Tab and then pull the connector off of the stock sensor.
- 3) Plug Female Connector from module into Fuel Pressure Sensor. **Note:** Make sure to push completely together until the connector snaps



- 4) Connect the Stock Duramax connector to the Male Connector from the module
Note: Make sure to push completely together until the connector snaps.

On one side of the female fuel pressure connector, there is a Guide Slot and on the other side is the Locking Tab. These can be plugged in upside down, if this occurs, a Check Engine Light will illuminate once the engine has started. Shut the engine off and check these connections.

Female Fuel Pressure Connector



Male Fuel Pressure Connector



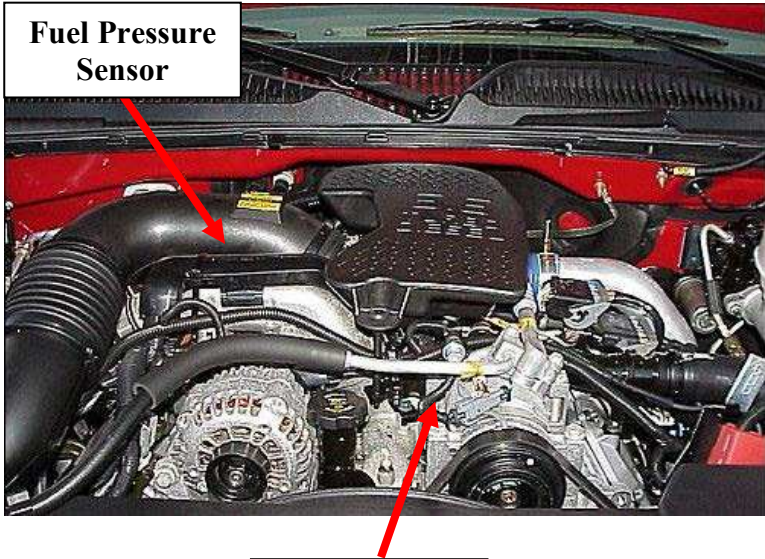
- 5) Locate the MAP sensor on the passenger side of the engine, toward the front



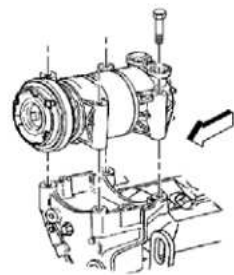
- 6) Unplug the MAP sensor and Plug in the Female plug from the module into the sensor
- 7) Plug the Stock Duramax MAP sensor connector into the Male Map sensor plug on the module harness



LLY 2004.5-2005 (6.6L) Duramax Engine Installations Instructions



- 1) Locate MAP sensor under the Air conditioner Compressor.
- 2) Remove Belt and take the four bolts out of the Compressor to access MAP sensor

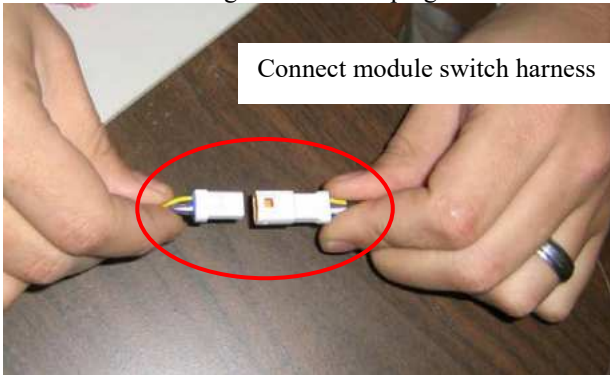


- 3) Unplug factory plug and plug in Female MAP connector from module into sensor
- 4) Plug factory female into male MAP connector from module

- 5) Locate fuel Pressure sensor on passenger side of engine under the intake tube

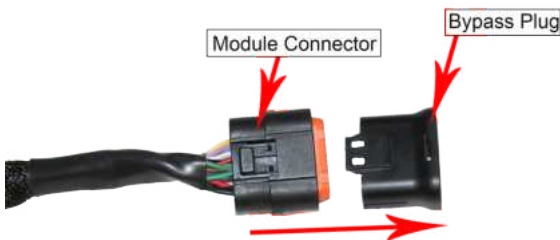


- 6) Unplug factory fuel pressure connector and plug female fuel pressure connector into sensor
7) Plug factory fuel pressure connector and plug into Male fuel pressure connector from the module
8) Route Switch through firewall and plug into module as shown



- 9) Remove the bypass plug from the Ag Diesel Solutions harness, and plug the harness into the module.

Note: Keep the bypass plug for potential troubleshooting.



- 10) Mount the module box in a safe location using the zip ties to secure the wires and module away from any extreme heat and moving parts.

Fuel Rail Shim Kit Install Instructions LLY/LBZ/LMM

Removal Tool



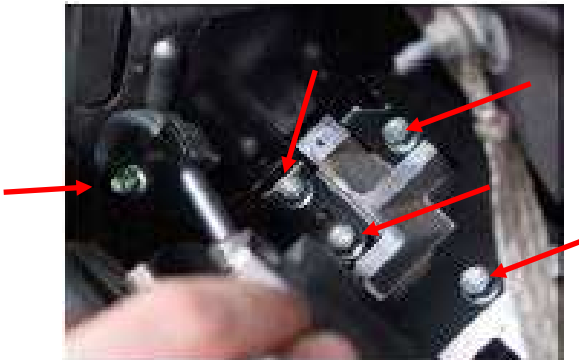
.020" Shims

- 1) Locate Glow Plug Controller mounted on the Driver's Side next to firewall behind boost tube.



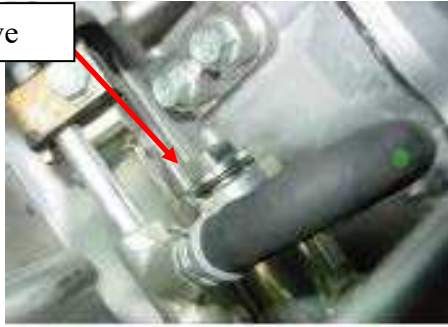
Glow Plug Controller

- 2) Remove the two bolts on the glow plug controller



- 3) Remove the 4 bolts out of the bracket and the 1 out of the tubing mount and Remove bracket

Fuel Relief Valve



- 4) Locate the Fuel Relief valve as shown above. Using an 18mm wrench remove the fuel relief valve



- 5) Thread removal tool on to Fuel Relief Valve and place tip of fuel relief valve into vise as shown above
- 6) Rotate removal tool toward the vise to split apart relief valve.



Tip

Note: Be careful to hold end of relief valve it is spring loaded and you don't want to lose any part. There is a small pin located in Tip behind the washer with three holes in it. Don't Lose it, the truck will not run without it.



- 7) Remove the spring and insert the three shims as shown above



- 8) Making sure you don't lose any parts, replace spring into relief valve and put tip back together.
- 9) Place in vise and tighten to compress relief valve together
Note: Use a small piece of wood or cardboard, between tip and vise to eliminate the possibility of damaging the fuel relief valve.
- 10) Take a small punch and re-apply the 3 factory indentations used to hold tip into the body of the relief valve
- 11) Replace Valve back into Vehicle, torque the Relief Valve to 75 ft-lbs. or fuel could bypass valve.
- 12) Replace metal bracket and Glow plug controller

Note: You will need to crank engine longer than normal to build pressure back up in fuel rail

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