



**INSTALLATION
GUIDE**

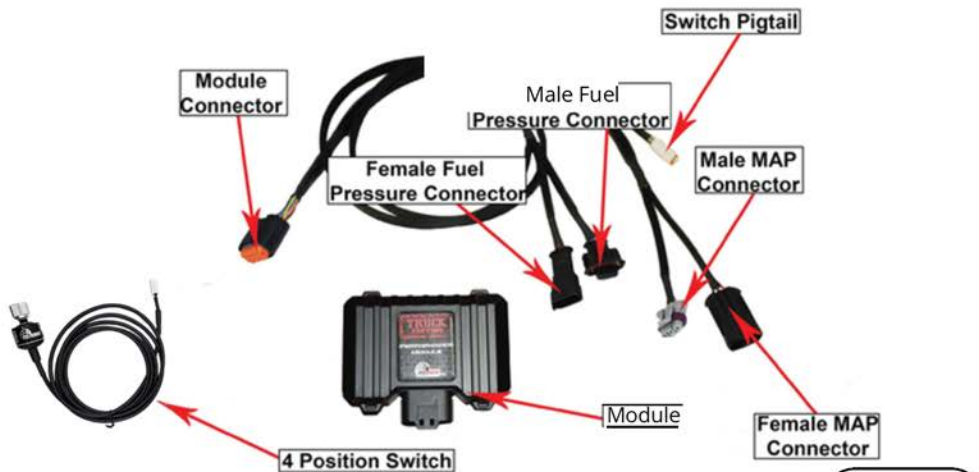
Driving Performance. Innovating Solutions.

61100 MODULE

**2004.5-2010 GM 6.6L
LBZ, LLY, & LMM DURAMAX**



61100 Module



A bypass plug is included with the module for potential troubleshooting.

Install bypass plug in module connector to return equipment to stock functionality if needed.

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

Module will default to HIGH setting if switch is not connected.

Switch Positions:

- *STOCK
- *LOW, up to 30 HP
- *MEDIUM, up to 60 HP
- *HIGH, up to 90 HP



DISCLAIMER

NOT FOR USE IN CALIFORNIA

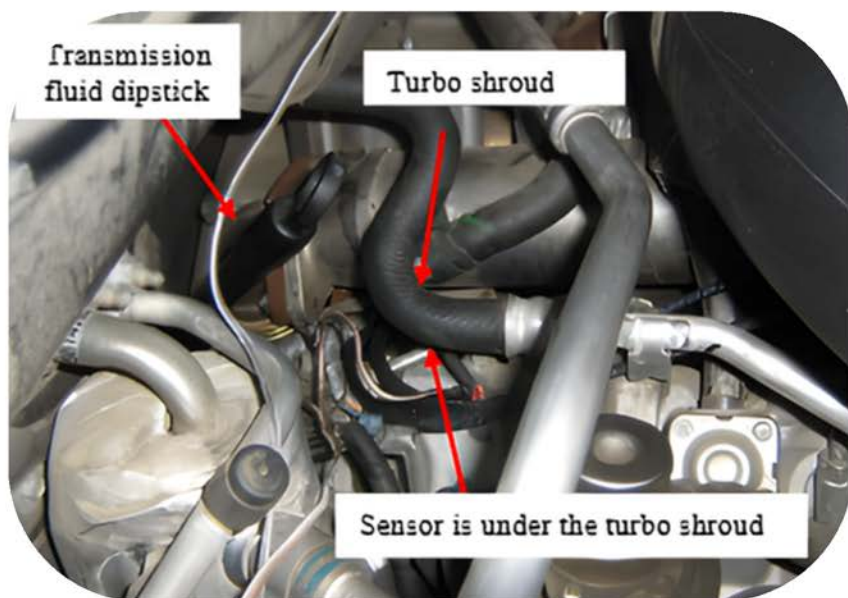
MODULE DOES NOT BYPASS, DELETE, OR DEFEAT ANY EMISSIONS CONTROL SYSTEMS
If installation assistance is needed, PSI Power is not responsible for any cost associated with third party installation.

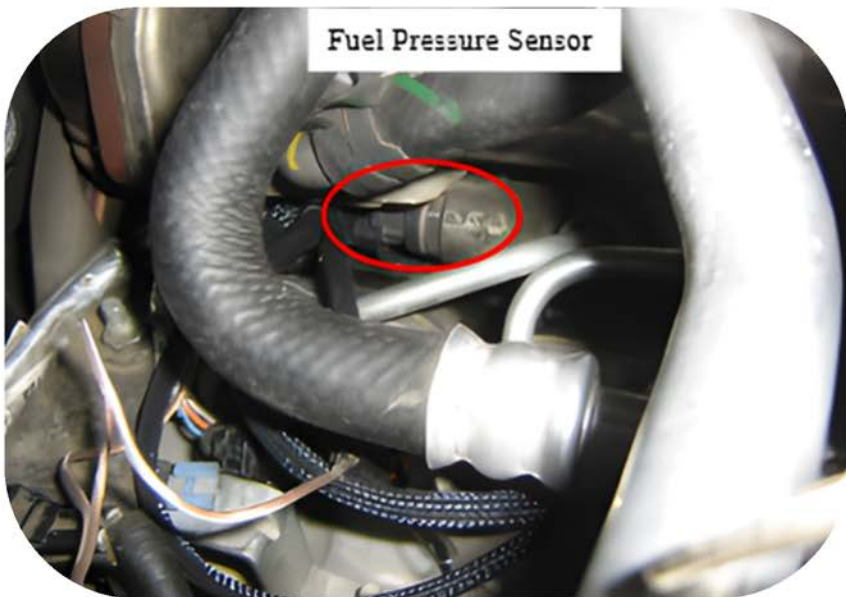
TECH SUPPORT
(812) 618-9168

Fuel Pressure Sensor underneath turbo shroud



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





Step 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.

Step 3) Plug Female Connector from module into Fuel Pressure Sensor.

Note: Make sure to push completely together until the connector snaps



Step 4) Connect the Stock Duramax connector to the Male Connector from the module.

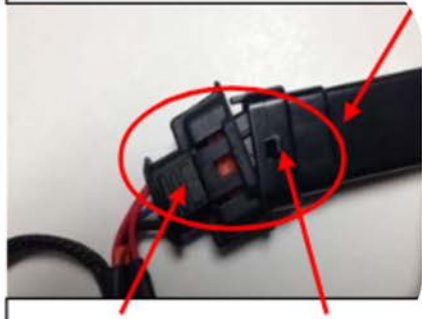
Note: Make sure to push completely together until the connector snaps.

Female Fuel Pressure Connector



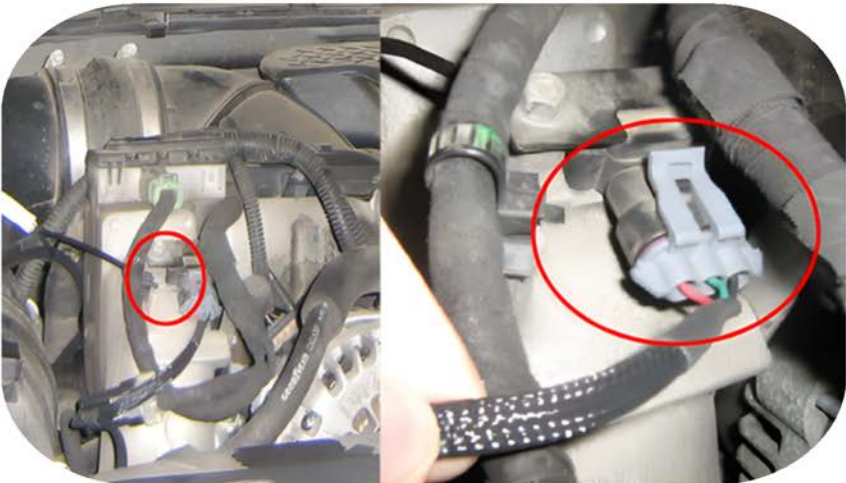
Guide Slot & Guide Pin

Male Fuel Pressure Connector



Release Tab and Locking Pin

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



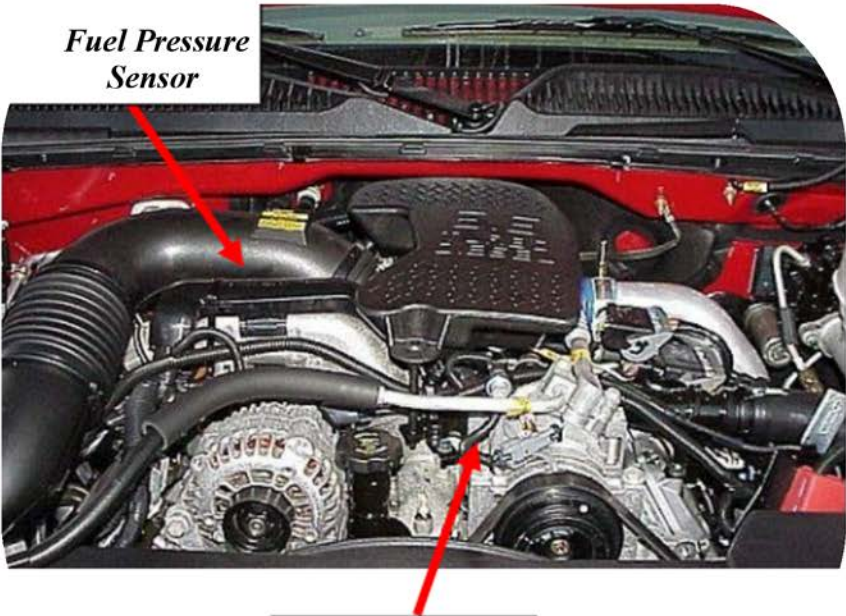
Step 6) Unplug the MAP sensor and Plug in the Female plug from the module into the sensor.

Step 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

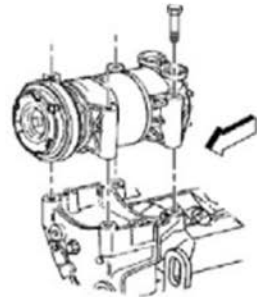
*Fuel Pressure
Sensor*



MAP Sensor

Step 1) Locate MAP sensor under the Air conditioner Compressor.

Step 2) Remove Belt and take the four bolts out of the Compressor to access MAP sensor



LLY Compressor Removal

Step 3) Unplug factory plug and plug in Female MAP connector from module into sensor

Step 4) Plug factory female into male MAP connector from module

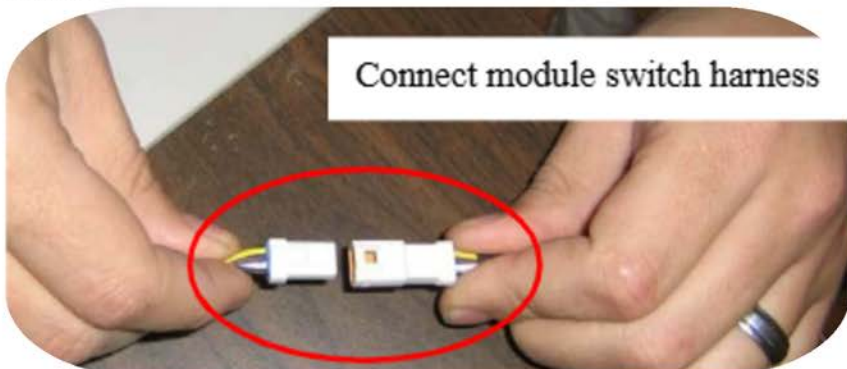


Step 5) Locate fuel Pressure sensor on passenger side of engine under the intake tube.

Step 6) Unplug factory fuel pressure connector and plug female fuel pressure connector into sensor.

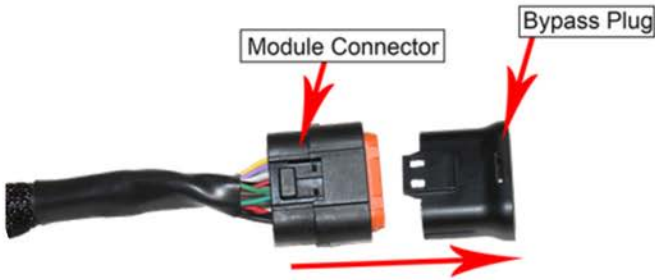
Step 7) Plug factory fuel pressure connector and plug into Male fuel pressure connector from the module.

Step 8) Route Switch through firewall and plug into module as shown.



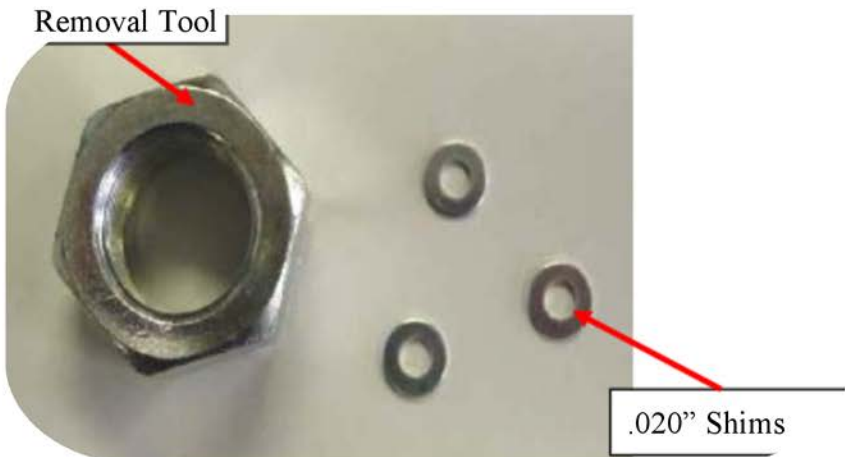
Step 9) Remove the bypass plug from the Ag Diesel Solutions harness, and plug the harness into the module.

Note: Keep the bypass plug for potential troubleshooting.



Step 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.

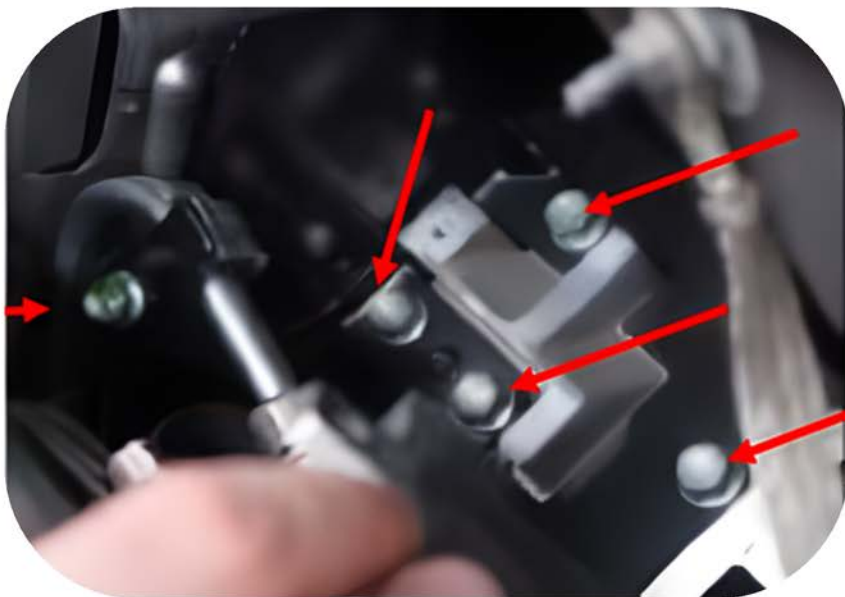
Fuel Rail Shim Kit Install Instructions LLY/LBZ/LMM



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



Step 2) Remove the two bolts on the glow plug controller.



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

Fuel Relief
Valve



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



Step 5) Thread removal tool on to Fuel Relief Valve and place tip of fuel relief valve into vise as shown above.

Step 6) Rotate removal tool toward the vise to split apart relief valve.



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.



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



Step 8) Making sure you don't lose any parts, replace spring into relief valve and put tip back together.

Step 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.

Step 10) Take a small punch and re-apply the 3 factory indentations used to hold tip into the body of the relief valve.

Step 11) Replace Valve back into Vehicle, torque the Relief Valve to 75 ft-lbs. or fuel could bypass valve.

Step 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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