

VaporWorx

We Give You Gas

WARNING

Working with fuel is dangerous. If fuel is handled improperly it can lead to fires and death. It is imperative above anything else that all appropriate safety measures be used to control the fuel and any ignition sources, including static electricity, heat, sparks, and any other sources. Proper high-pressure fuel lines and connections must be used in accordance to the manufacturer's specifications and routed away from any potential sources of heat, ignition, and protected from mechanical damage. If you are unsure about your work or safety, stop work immediately and consult with a qualified automotive technician and/or safety official.

Instructions for Installing the VaporWorx P/N FPR-GM5 Fuel Pressure Regulator into the Gen5/6 Camaro Fuel Module.

The VaporWorx fuel pressure regulator FPR-GM5 allows for a 60psi constant regulated pressure for the 5th-gen Camaro LS3/SS fuel modules. This regulator will allow a standard 60psi fuel pressure output curve similar to that of the Corvette C5 fuel pressure regulator/filter.

STEP 1: On the side of the fuel module is a 1" diameter circular device held in by a wire retainer. This is the stock fuel overpressure safety valve that must be removed. Using a screwdriver, carefully remove the retaining wire and ground strap. See Photo 1.



Photo 1/2: Note the ground strap ring that is located under the retaining wire. Do not use excessive force. Photo 2: Note the ground strap has been pushed aside. There are no internal parts that retain the fuel pressure regulator.

STEP 2: Using a pair of large Channel Lock pliers, twist the fuel pressure regulator and pull it away from the module to dislodge it as shown in Photo 2. A slight rocking motion can also be used.

STEP 5: Apply oil to the new regulator o-rings. Insert the new regulator, clocked as shown in Photo 3, until fully seated. Re-install the ground strap and the retaining wire. Continue the retaining wire installation until the ends of the wire fit through the holes/slots on the fuel module body. It may be necessary to push down on the wire end and lightly tap on the head of the wire to fully seat the wire (Photo 4.) **The retaining wire must fully seat and surround the regulator body.**



Photo 3/4: The new regulator is inserted, the ground strap installed, and the retaining wire partially seated. The ends of the wire are close to the holes/slots in the fuel module body. **The wire head and ends must fully seat into the holes/slots and the wire must surround the regulator body.**

Instructions for adapting the VaporWorx P/N G8ZL1WHS wiring pigtail to the OE G8 harness.

The VaporWorx G8ZL1WHS wiring pigtail is intended to be used to adapt the Gen5 Camaro ZL1 fuel module power and fuel level sensor requirements into the Pontiac G8 OEM harness. Properly connecting the power and fuel level sensor wiring will require some method of making a secure connection to the G8 harness. This is usually done by cutting/soldering or butt connectors. It is imperative no matter what method is used that the connections are fully insulated from each other and from other components in the car. Any short may lead to damaged wiring or fires.

In Photo 1 the wiring colors for the pigtail can be seen.

- 1) 12ga Red = Pump +. This wire connects to the G8 14ga grey wire for pump power.
- 2) 12ga Black = Pump -. This wire connects to the G8 pump ground wire.
- 3) 20ga Brown = Fuel level sensor. This wire connects to the G8 Brown/Yellow fuel level sensor wire.
- 4) 20ga Purple = Fuel level sensor. This wire connects to the G8 Purple fuel level sensor wire.

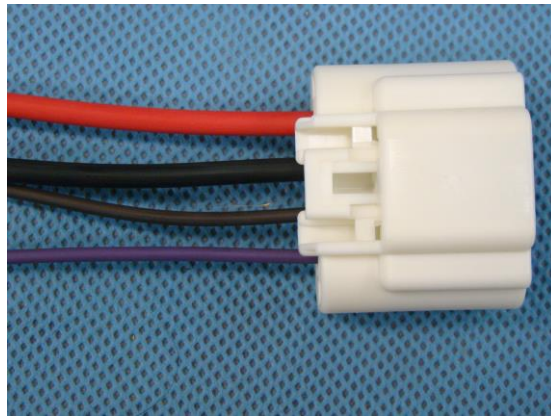


Photo 1: The G8ZL1WHS wiring adapter pigtail.

STEP 1: Remove the OE G8 plug from the original fuel module.

STEP 2: Peel back or remove the wire coverings in order to access the four wires noted above.

STEP 3: Access the necessary wires and remove the OE plug. Since the VaporWorx pigtail has long leads it is suggested that the wiring be cut in such a way that the OE plug can be re-attached in the future if needed. 2-3" plug leads should be sufficient for future attachment.

STEP 4: If butt connectors are to be used a proper crimping tool and crimping techniques are required to make a reliable connection. Follow the butt connector manufacturer's instructions for proper wire stripping lengths and crimping procedures.

STEP 5: If the wiring is to be soldered together it is suggested that a non-insulated crimp be used first to mechanically join the wires. Apply solder to the crimp to secure the wiring. Do not over-apply the solder as it can wick and create a brittle condition. Double wall, adhesive-lined heat shrink tubing is an excellent choice to use as an insulator. It is available at most electronic stores or Del City.

STEP 6: After connecting the wiring as noted above and insulating all connections, apply tape, split tubing, vinyl wrap, etc. to the wiring to protect them from rubbing damage.

Instructions for installing the VaporWorx P/N G8XHSG Adapter Fitting to the Gen5 ZL1 fuel module.

The VaporWorx G8XHSG Adapter Fitting is intended to be used to adapt the Pontiac G8 in-tank fuel crossover line to the Gen5 ZL1 fuel module P/N 13579899/19258436 venturi pump connector. Using this adapter eliminates the need for cumbersome brass fittings and in-tank rated rubber fuel lines.

STEP 1: Unscrew the U-nut from the adapter. Apply oil the o-rings inside of the fitting taking care not to oil the threads.

STEP 2: Apply a thread locking compound to the threads and slide it on to fuel module venturi pump nipple as shown in Photo 1. Note there is a groove in the U-nut that matches the ring upset on the nipple.

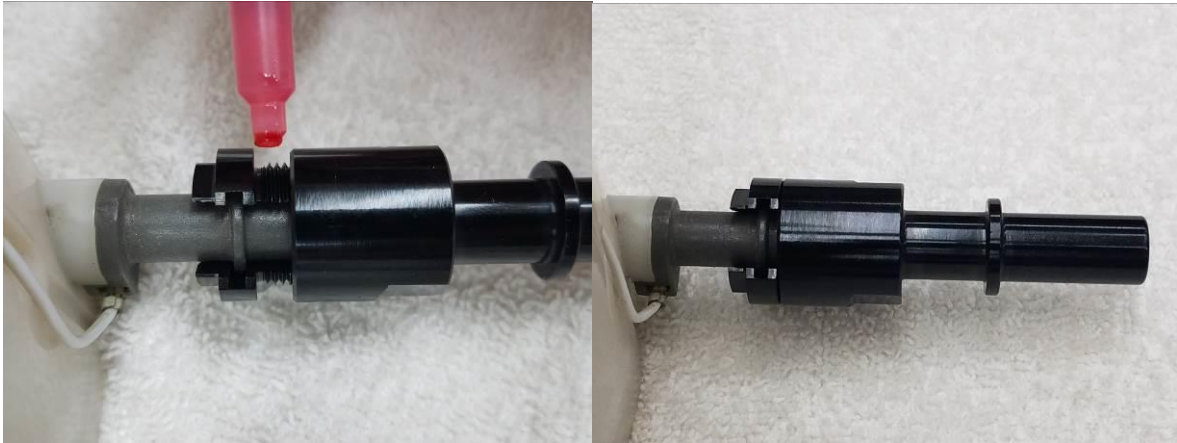


Photo 1/2. Install the U-nut as shown. It should slip over the upset on the nipple. Apply thread locking compound on the threads and screw together until it fully seats.

STEP 3: Screw the adapter fitting on to the U-nut until it fully seats on the adapter body. Use wrenches to secure. The final assembly should look like that in Photo 2. The adapter is now ready to re-attach to the G8 in-tank fitting.



We Give You Gas
G8/ZL1 Mechanical Regulator Conversion Kit

Kit includes:

- FPR-GM5 Fuel Pressure Regulator**
- G8ZL1WHS Wiring Pigtail**
- G8XHSG Adapter Fitting**

