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Instructions for Installing the Vaporworx P/N GM5FPRA Fuel Pressure Regulator Adapter into the GM P/N 19208719 or Camaro ZL1 P/N 13579899/19258436 Fuel Module.

The Vaporworx fuel pressure regulator adapter (FPRA) allows the fuel pressure regulator from a 4th-gen LS1 powered Camaro to be used in a 5th-gen Camaro fuel module. Delphi P/N FP10021 and FP10075 are two readily available aftermarket fuel pressure regulators that should work well. This regulator, when used with the Vaporworx FPRA, will allow a standard 58psi fuel pressure output similar to that of the Corvette C5 fuel pressure regulator/filter.

STEP 1: On the lower/side of the fuel module is a circular device held in by a wire retainer. This is the 5th-gen stock fuel poppet valve that must be removed. Using a screwdriver, carefully remove the retaining wire and ground strap. See Photo 1.



Photo 1: Note the ground strap ring that is located under the retaining ring. Do not use excessive force.

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 seen in Photo 2. A slight rocking motion can also be used.



Photo 2: Note the grounding ring has been pushed aside. There are no internal parts that retain the fuel pressure regulator.

STEP 3: Insert the Vaporworx P/N FPRAGM5 into the small hole inside of the fuel module as seen in Photo 3. A small amount of motor oil should be placed on the seal to facilitate easy assembly. Push the FRPA until it fully seats as shown in Photo 4. In some cases the fuel filter may be partially blocking the hole. If the filter interferes with installation of the FPRA use a long round Phillips screwdriver to gently push the filter away from the hole. It may also be necessary to start the FPRA at a slight angle away from the filter in order to reduce the chances of damage.



Photo 3: Insert the FPRAGM5 into the small hole until fully seated. If the fuel filter interferes with easy installation use a Philips screwdriver to move to the side (left in the photo.)



Photo 4: The FPRA is fully seated in the fuel module.

STEP 4: Apply a small amount of oil on both of the new fuel pressure regulator o-rings. The regulator should look similar to that in Photo 5. The extra hardware included with the new regulator will not be used.



Photo 5: The ready-to-install fuel pressure regulator.

STEP 5: Bend the wire retainer using needle-nose as shown in Photo 6A so that the open ends of the retainer are $\frac{1}{4}$ " apart when not compressed. Insert the regulator, clocked as shown in Photo 6, until fully seated. Install the ground strap and the retaining wire, also as shown in Photo 6. 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 7.)



Photo 6A. Bend the retaining clip so that the points of the clip are $\frac{1}{4}$ " apart when not compressed by the needle-nose pliers.



Photo 6b: 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 ends must go into the holes/slots.



Photo 7: In some cases it may be necessary to push down on the end of the retaining wire ends to align them to the holes/slots in the module body. Take care to keep the ground wire under the retaining wire. STEP 6: Fully seat the retaining wire. After seating use a pair of needle nose pliers to squeeze the wire ends together, making them fit the body of the regulator better, as seen in Photo 8. It may be necessary to slightly bend the wire near the wire head to obtain good fitment.



Photo 8: Squeeze the ends of the retaining wire together to help fit them to the regulator body. When complete the head of the retaining wire will be seated against the fuel module.

The regulator installation is complete. The final assembly should be similar to that in Photo 9.



Photo 9: Installation complete.