

FUEL INJECTOR

General Information

The fuel injector mounts into the intake manifold, and the fuel rail attaches at the top end. O-Rings on both ends of the injector prevent external fuel leakage and also insulate it from heat and vibration.



When the key switch is on, the fuel rail is pressurized, and voltage is present at the injector. At the proper instant, the ECU completes the ground circuit, energizing the injector. The valve needle in the injector is opened electromagnetically, and the pressure in the fuel rail forces fuel down through the inside. The "director plate" at the tip of the injector contains a series of calibrated openings which direct the fuel into the intake port in a cone-shaped spray pattern.

The injector is opened and closed once every other crankshaft revolution. The total amount of fuel needed for one firing is injected during each opening. The amount of fuel injected is controlled by the ECU and determined by the length of time the valve needle is held open, also referred to as the "injection duration" or "pulse width". It may vary in length from 1.5-8 milliseconds depending on the speed and load requirements of the engine.

Fuel Injector Service

Injector problems typically fall into three general categories: electrical, dirty/clogged, or leakage. An electrical problem usually causes the injector to stop functioning.

NOTE: Do not apply voltage directly to the fuel injector(s). Excessive voltage will burn out the injector(s). Do not ground the injector with the ignition "on". Injector will open/turn on if relay is energized.

If an injector is not operating, it can indicate either a bad injector, or a wiring/electrical connection problem. Check as follows:

Injector leakage is very unlikely, but in rare instances it can be internal (past the tip of the valve needle), or external (weeping around the injector body). The loss of system pressure from the leakage can cause hot restart problems and longer cranking times.

Injector problems due to dirt or clogging are unlikely due to the design of the injectors, the high fuel pressure, the use of filters and the detergent additives in the gasoline. Symptoms that could be caused by dirty/clogged injectors include rough idle, hesitation/stumble during acceleration, or triggering of fault codes related to fuel delivery. Injector clogging is usually caused by a buildup of deposits on the director plate, restricting the flow of fuel, resulting in a poor spray pattern. Some contributing factors to injector clogging include: dirty air filters, higher than normal operating temperatures, short operating intervals and dirty, incorrect, or poor quality fuel. Cleaning of clogged injectors is not recommended; they should be replaced. Additives and higher grades of fuel can be used as a preventative measure if clogging has been a problem.

Fuel Injector Resistance Test

If an injector is not operating, it can indicate either a bad injector, or a wiring/electrical connection problem. Check as follows:

- Using an ohmmeter, test for continuity by placing the test leads on each pin of the injector.
- Resistance specification is $12.0\Omega \pm 0.4\Omega$ (20°C, 68°F)

Injector Resistance Specification:
 $12.0\Omega \pm 0.4\Omega$ (20°C, 68°F)

Fuel Injector Replacement

1. Engine must be cool. Depressurize fuel system through test valve in fuel rail.
2. Remove the front fender assembly and fuel tank.
3. Thoroughly clean the area around and including the throttle body/manifold and the injectors.
4. Disconnect the fuel injector harness.
5. Remove the fuel rail mounting screws, doubler plate and carefully loosen / pull the rail away from the injector.
6. Reverse the procedures to install the new injector and reassemble. Lubricate the upper O-ring lightly with soapy water to aid installation. The lower O-ring should remain dry. Torque the fuel rail mounting screws to specification. Then install the doubler plate and torque the screws to specification.

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Fuel Rail Mounting Screws:
5-7 ft. lbs. (6-9 Nm)

Doubler Plate Screws
8-9.5 ft. lbs. (11-13 Nm)

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Polaris Atv 2008 Sportsman 500 X2 Efi Touring Repair Manual

Alan Ahlstrand, Ken Freund



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