

SECTION 310-00: Fuel System — General Information
DESCRIPTION AND OPERATION

2014 F-150 Workshop Manual
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Fuel System

3.5L Gasoline Turbocharged Direct Injection (GTDI)

The fuel system consists of the following:

- Fuel supply tubes
- Fuel vapor tubes
- Fuel Pump (FP) module (located in the fuel tank)
- High pressure Fuel Pump (FP) (located in the left valve cover)
- Lifetime fuel filter (serviced as part of the FP module)
- Fuel tank filler pipe assembly
- Fuel tank
- Fuel rail
- Fuel injectors
- Fresh air tube (located on top of the transmission)
- Easy Fuel TM (capless) fuel tank filler pipe assembly (which cannot be modified in any way)
- Supplement refueling adapter (located with the vehicle jack)
- Two-speed Mechanical Returnless Fuel System (MRFS)

The vehicle is equipped with a Gasoline Turbocharged Direct Injection (GTDI) system.

Fuel delivery is accomplished through a MRFS.

- The FP module supplies pressurized fuel to the high pressure FP.
- The high pressure FP supplies high pressure low volume fuel pressure to the fuel rails.
- The fuel injectors are separately controlled and mounted to the intake manifold for each cylinder.
- The fuel tubes route the fuel from the FP to the fuel rail.
- The fuel filter cleans the fuel delivered from the FP to the fuel rail.

3.7L, 5.0L (4V), 6.2L (2V)

The fuel system consists of the following:

- Fuel supply tubes
- Fuel vapor tubes
- Fuel Pump (FP) module (located in the fuel tank)
- Lifetime fuel filter (serviced as part of the FP module)
- Fuel tank filler pipe assembly
- Fuel tank
- Fuel rail
- Fuel injectors

- Fresh air tube (located on top of the transmission)
- Easy Fuel TM (capless) fuel tank filler pipe assembly (which cannot be modified in any way)
- Supplement refueling adapter (located with the vehicle jack)
- Two-speed Mechanical Returnless Fuel System (MRFS)

The vehicle is equipped with a Multi-Port Fuel Injection (MPI) system.

Fuel delivery is accomplished through a MRFS.

- The FP supplies the fuel injectors with pressurized fuel through the fuel rail.
- The fuel injectors are separately controlled and mounted to the intake manifold for each cylinder.
- The fuel tubes route the fuel from the FP to the fuel rail.
- The fuel filter cleans the fuel delivered from the FP to the fuel rail.

Fuel Pump (FP) Shut-off Feature

In the event of a moderate to severe collision, the vehicle is equipped with a Fuel Pump (FP) shut-off feature that is initiated by the event notification signal.

The event notification signal is a signal provided by the Restraints Control Module (RCM) to the FP control module. Signal communication between the RCM and the FP control module allows the PCM to shut-off the FP.

Should the vehicle shut off after a collision due to this feature, the vehicle may be restarted by first turning the ignition switch to the OFF position and then turn the ignition switch to the ON position. In some instances the vehicle may not start the first time and may take one additional key cycle.

For exploded view information of the fuel system, refer to Fuel Tank and Filter Pipe — Exploded View or Fuel Lines and Fuel Filter — Exploded View in [Section 310-01](#).

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