

Fuel System - Overview

Overview

NOTICE: Repairs of the fuel system are to be achieved only by replacement of the failed component(s). Repair of a fuel system component should not be attempted.

NOTICE: If directed during assembly of fuel system components, lubricate any seal(s) only with specified material. Failure to follow this instruction may result in seal failure and fuel leakage.

The fuel system:

- is a Closed Loop Pressure Control Fuel System (CLPC).
- an AWD saddle-type tank or FWD L-Shaped fuel tank.
- has a Fuel Pump that operates on 6-12 volts depending on load, that supplies fuel under pressure to the engine mounted high pressure fuel pump.
- has a replaceable external in-line fuel filter (if equipped).
- has an Easy Fuel,® (capless) fuel tank filler pipe assembly, which cannot be modified in any way and is serviced only by the installation of a new fuel tank filler pipe assembly.
- has a supplemental refueling adapter located in the luggage compartment.
- has a Fuel Pump Control Module located behind the fuel tank.
- has fuel tubes (liquid and vapor) mounted on the underside of the vehicle, packaged in a bundle with the brake lines.
- has a serviceable Fuel Level Sender mounted on the Fuel Pump and Sender Unit.
- has a check valve in the fuel supply line to the engine, which maintains fuel pressure after the fuel pump is turned off.
- has a pressure relief valve for overpressure protection in the event of restricted fuel flow.
- fuel and vapor lines in an integrated bundle assembly.
- quick connect fuel and vapor tube couplings.
- a **Fuel Pump (FP) module containing:**
 - the electric FP module which provides pressurized fuel to the fuel rail.
 - the fuel level sender.
 - a check valve which maintains system pressure after the pump is shut off.
 - a pressure relief for overpressure protection in the event of restricted fluid flow.
 - a lifetime fuel filter providing filtration to protect the fuel injectors from foreign material.

Fuel Pump Shut-off Feature

In the event of a moderate to severe collision, the vehicle is equipped with a Fuel Pump and Sender Unit Shut-off Feature that is initiated by the event notification signal.

The event notification signal is a signal provided by the RCM to the Fuel Pump Control Module. Signal communication between the RCM and the Fuel Pump Control Module allows the PCM to shut-off the Fuel Pump.

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