

**GENERAL INFORMATION**

- Carefully read and understand this entire instruction sheet before beginning work on the fuel system.
- Contamination is a major cause of fuel pump failure. To avoid premature failure of a replacement pump, remove all contaminants from the fuel tank prior to installing the new pump. During installation make sure no dirt or contaminants are introduced into the fuel system.
- Fuel pump failure due to dirt or contamination is not covered under warranty.
- A new filter screen is required (sold separately). Failure to replace the filter screen will void the warranty.
- Replacement of the in-line fuel filter is highly recommended.
- This fuel pump is not designed for non-automotive applications. Do not operate the fuel pump dry, or with any liquid other than gasoline.
- Do not discard any hardware removed during disassembly. It may be needed for re-assembly.

**PRECAUTIONS**

- Perform all work in a well ventilated area away from sparks or open flame.
- Eye protection and rubber gloves are highly recommended.
- Avoid inhaling fuel fumes.
- If fuel is ingested, seek medical attention immediately.
- To avoid a fire hazard, disconnect the negative battery cable when instructed.
- Use only approved containers for storing fuel.
- Always relieve fuel system pressure before servicing any part of the fuel system. See RELIEVING FUEL SYSTEM PRESSURE below.
- Failure to perform any service or repair in a safe manner may cause serious personal injury or death.

**RELIEVING FUEL SYSTEM PRESSURE**

1. Relieve the vapor pressure in the fuel system by removing and the replacing the fuel filler cap.
2. Disable the fuel pump by removing the fuel pump fuse.
3. To purge the fuel system pressure, start the engine. The engine will start, stutter, then stall. Remove the ignition key and reinstall the fuel pump fuse.
4. Disconnect the negative battery cable. For safety, keep the negative battery cable disconnected unless otherwise noted in the procedure.

**ACCESSING THE FUEL PUMP ASSEMBLY**

**On most vehicles it is necessary to remove the fuel tank from the vehicle to gain access to the fuel pump. For the exact procedures for fuel tank removal, refer to the vehicle manufacturer's service information. The following are only general guidelines. If these procedures differ from those of the vehicle manufacturer, the vehicle manufacturer's procedures will always apply.**

**REMOVING THE FUEL TANK**

**WARNING: Gasoline vapors are explosive! To reduce the possibility of sparking an explosion, disable the electrical system by disconnecting the negative (-) battery cable.**

1. Relieve fuel system pressure as directed above.
2. Drain fuel to lighten the tank and avoid spilling when removing the pump hanger assembly. Use only an approved container, preferably one that filters the fuel for reuse in the vehicle.
3. Remove the fasteners for the fuel filler neck, noting their different sizes and locations, then raise vehicle on a hoist or lift. (If working without a hoist or lift,

use an approved floor jack to raise the vehicle and only use approved jack stands for support.)

4. Support the tank with a transmission stand or floor jack. Note location of fuel outlet, fuel return and vapor return lines. Remove the lines, using a clean shop towel to absorb draining fuel, and inspect them for cracking or chafing. When replacing high-pressure lines, use only OE quality hoses and connectors. Disconnect pump wiring harness.
5. Remove tank straps, and filler neck tube if necessary. Lower tank enough to access fuel pump hanger assembly, or completely remove tank.
6. If tank is rusted inside, or seriously damaged, it must be repaired or replaced before proceeding. Also replace hangers that show excessive rust, wear or damage. Do not reuse contaminated fuel. Dispose of properly.

## REMOVING THE FUEL PUMP ASSEMBLY

**For the exact procedures for fuel pump replacement, refer to the vehicle manufacturer's service information. The following are only general guidelines. If these procedures differ from those of the vehicle manufacturer, the vehicle manufacturer's procedures will always apply**

1. To avoid contaminating the fuel, thoroughly clean the area around the fuel pump assembly mounting flange.
2. Note and mark the position of the fuel pump assembly relative to the fuel tank.
3. Remove the fasteners holding the fuel pump assembly to the fuel tank. If the fastener is a retaining ring, it can be removed by rotating the ring counter-clockwise with a small hammer and a non-ferrous punch.
4. Remove the fuel pump assembly from the fuel tank. Be careful not to contaminate the fuel or drop anything into the tank. Place a suitable cover over the opening.

## REMOVING THE OLD FUEL PUMP AND INSTALLING YOUR NEW FUEL PUMP

When handling the fuel pump assembly, be especially careful not to bend or damage the fuel gauge arm or sender, if so equipped. Bending or damaging these items will cause incorrect fuel level readings.

**If this replacement kit consists of a complete fuel pump assembly or module, continue to "re-installing the fuel pump assembly into the fuel tank" below.**

**If not, please refer to the enclosed instruction sheet for your specific fuel pump replacement**

## RE-INSTALLING THE FUEL PUMP ASSEMBLY INTO THE FUEL TANK

You may have to re-use some of the fasteners not supplied with the replacement pump.

1. Install the fuel pump assembly and fuel tank gasket into the tank in the position noted in Step 2 of Removing the Fuel Pump Assembly. Be especially careful not to bend or damage the fuel gauge arm or sender.
2. Install and tighten the fasteners securing the mounting flange to the fuel tank.

## RE-INSTALLING THE FUEL TANK

1. Raise the tank to the vehicle.
2. Re-connect the fuel pump wiring harness.
3. Re-connect all fuel lines.
4. Re-connect filler neck tube.
5. Re-connect tank straps

**START-UP PROCEDURE**

1. With the ignition switch OFF, reconnect the negative battery cable.
2. Insert the ignition key and turn the switch to ON (DO NOT START ENGINE!).
3. Wait ten seconds.
4. Check for fuel leaks and correct as needed prior to starting engine. If a leak is detected, immediately turn ignition switch to OFF. Relieve fuel pressure prior to servicing.
5. If no leaks are detected, crank the engine until it starts. The engine may start and die a few times until the fuel lines are purged of air.
6. Turn engine OFF and re-inspect for leaks. Correct as needed.
7. Repeat until no leaks exist.

NOTE: On some vehicles it may be necessary to reset the memories of the radio, clock, seat controls, etc., whenever the battery is disconnected. Allow the engine to run for 15 minutes to purge any air introduced to the fuel system during installation.