

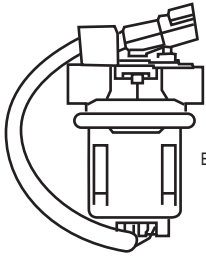
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DIESEL FUEL FEED PUMP INSTALLATION INSTRUCTIONS

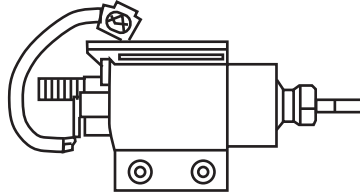
1998-2002 Dodge Ram With Cummins ISB Diesel Engine

Thoroughly read and understand these instructions prior to replacing the fuel pump.

STANDARD®



Existing Vehicle Fuel Pump



Improved Fuel Pump

SAFETY INFORMATION: Repair procedures, tools, and parts to service motor vehicles, and the experience of the person performing the work make it impossible to describe all ways or conditions under which motor vehicles are or may be serviced, or to provide cautionary statements regarding hazards that may result.

Standard and accepted safety precautions and equipment should be used when handling toxic or flammable materials. Safety goggles, other protection, and appropriate clothing (long-sleeve shirt, trousers and safety shoes) are required. Make sure your work area is well ventilated and not exposed to heat, electricity, or open flames. No smoking! Clean up spills immediately and have a Class B or C fire extinguisher readily accessible.

Consult appropriate repair manuals for any required special tools.

SAFETY PRECAUTIONS:

- Work on a level surface.
- Use safety stands for supporting vehicles and other heavy components, not a jack.
- Keep a fire extinguisher close by.
- Work in a well ventilated area.
- Do not smoke or allow open flames or sparks in and around the work area.
- Allow the engine and vehicle to cool before beginning work on any part of the fuel system.
- Avoid inhaling fuel fumes and prolonged contact with skin. Immediately wash any part of the body that has come in contact with fuel.
- Store fuel in approved containers only.
- Clean-up spills quickly and dispose of according to local codes.
- Disconnect battery cables prior to beginning work on any component of the fuel system.

CONTENTS:

1. Fuel Feed Pump
2. 90 Degree Adapter Fitting
3. 3 Mounting Nuts and Steel Washers
4. 1 Capnut
5. 2 Copper Seal Washers

SPECIAL NOTE: This fuel pump assembly will not correct any issues related to faulty injectors or fuel injection pumps, fuel filters, pressure regulators or any other malfunctioning component of the fuel system. Consult manufacturer specific service and repair manuals for procedures to properly diagnose fuel system failures.

This fuel pump is not approved for aircraft or marine use. Running this pump dry will result in damage to the pump. Keep pump, fuel tank, lines and fittings clean. Dirt and contamination entering the fuel system will damage the pumping system as well as the injectors.

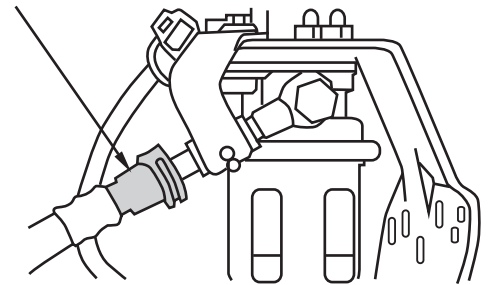
INSTALLATION

1. Disconnect the negative cable from the vehicles battery and position it where it cannot accidentally make a electrical contact with the battery during the fuel pump replacement procedure.

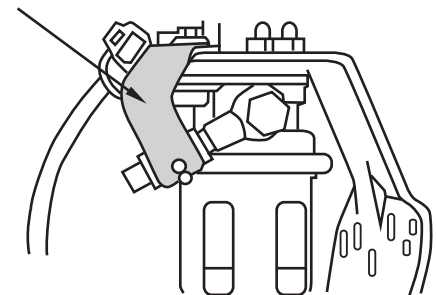
Note: If vehicle has a dual battery setup, make sure they are both disconnected.

2. Place a drain pan under the vehicle to catch any fuel spills.
3. Make sure area around the existing fuel and fuel lines are clear of foreign contaminants and debris.
4. Disconnect the fuel inlet line quick-connector at the back of the pump.
5. Remove the fuel inlet line support clamp from the pump mounting bracket.

4. Fuel Line Quick-Connector



5. Fuel Inlet Line Support Clamp



6. Remove the fuel line banjo bolt from the pump outlet. Discard the banjo bolt and both copper sealing washers.

7. Disconnect the vehicle harness electrical connector from the pump and remove the cable clamp from the mounting bracket.

Note: Inspect vehicle harness electrical for damage and replace as necessary.

8. Remove and discard the 3 pump mounting nuts and washers from the old pump. Then remove the pump from the engine bracket.

9. Install one of the supplied copper sealing washers on the new pump. Then place the pump outlet loosely into the vehicle fuel line banjo fitting.

10. Align the pump assembly mounting studs to the pump mounting bracket on the vehicle. Install the 3 newly supplied washers and nuts. Torque the nuts down to 9 ft-lbs (108 in-lbs).

11. Reinstall original cable clamp to mounting bracket on new pump to correctly route pump electrical connector.

12. Install the 2nd supplied copper sealing washer and cap nut. Torque them to 2 ft-lbs (2S in-lbs). Make sure to not over tighten it.

CAUTION: TO PREVENT LEAKS, ALWAYS USE NEW SUPPLIED WASHERS AND TORQUE THE CAP NUT TO SPECIFICATIONS.

13. Check to make sure that there is adequate clearance to connect the fuel supply line to the inlet that will not cause binding, kinking or fuel restriction.

A. If clearance is an issue, install the supplied 90 degree adapter fitting by pressing onto fuel inlet until it snaps into place. Then connect the fuel supply line quick-connect fitting to 90 degree inlet adapter ensuring the line is not kinked, binding, or restricted.

IMPORTANT: ONCE INSTALLED, THE 90 DEGREE ADAPTER FITTING IS NOT REMOVABLE WITHOUT USE OF SPECIAL TOOLS.

B. If clearance is not an issue, connect fuel supply line quick-connect fitting to straight inlet, ensuring the line is not kinked, binding, or restricted.

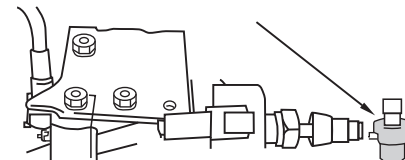
14. Connect the vehicle electrical connector to the pump electrical connector. Make sure the connection is secure. If the vehicle connector is damaged it must be replaced.

15. Reconnect and tighten the negative battery cables at both batteries.

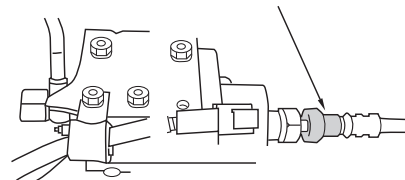
16. Bleed any air from the supply line and the fuel pump by cycling the ignition key on/off until all air is removed. SEE VEHICLE REPAIR MANUAL FOR FURTHER INFORMATION.

17. Start the engine, check and correct any fuel leaks. Remove the drain pan and test drive the vehicle.

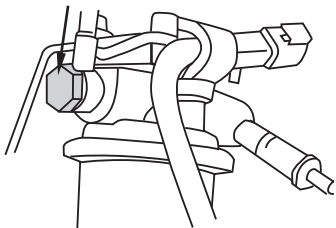
13. A. Fuel Line Quick-Connector



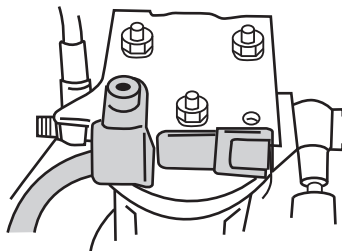
13. B. Fuel Line Quick-Connector



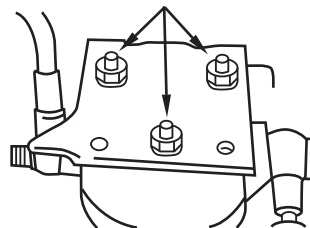
6. Fuel Line Banjo Bolt



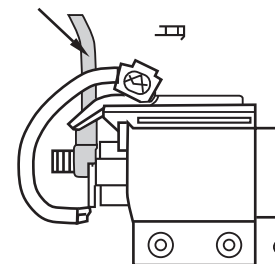
7. Cable Clamp & Harness



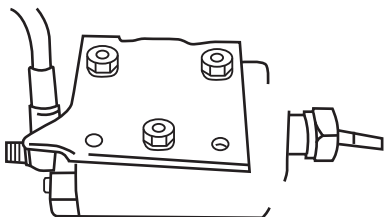
8. Mounting Nuts & Washers



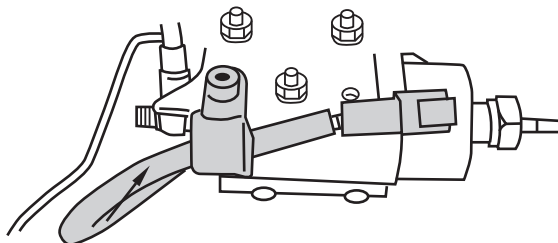
9. Vehicle's Steel Fuel Line Banjo



10. Mounting Nuts & Washer



11. Cable Clamp & Harness



12. Capnut

