

**INSTALL MANUAL****NOTICE**

**Only qualified and experienced individuals or experienced automobile mechanics should remove and install the high pressure fuel pump.**

**The installation of this component requires considerable knowledge and expertise of automobile repair and maintenance, including, in particular, the installation and operation of the high pressure fuel pump. Individuals without appropriate training or experience should not attempt to install this component themselves. To ensure safe and proper removal and installation of the high pressure fuel pump, even experienced mechanics should obtain and refer to the applicable vehicle Repair and Service Manual.**

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## High Pressure Fuel Pump Installation

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### Recommended Tools

Fuse puller  
Flat blade screwdriver  
Adjustable wrench  
Combination wrench  
Ratchet  
Extension  
TORX® socket(s)  
Needle nose pliers  
Torque wrench

### Additional Items

Fuel return hose (if needed)  
2 hose clamps (if needed)  
High pressure fuel pump sleeve (if needed)

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1. Remove the fuse box cover.
  2. Remove fuel pump fuse.
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3. Remove the engine cover.



4. Disconnect the fuel pressure regulator valve connector.
5. Run the engine for 10 seconds to release the fuel pressure.



6. Open the clip holding the low pressure fuel hose.
7. Remove the clip from the bracket.



8. Remove the bolt and bracket.



9. Remove the PCV hose by squeezing the clips while carefully wiggling the hose out of the fittings.



10. Disconnect the low-pressure sensor connector.
11. Remove the low pressure sensor from the high pressure fuel pump.



12. Remove the fuel supply line to the fuel rail.
13. Remove the fuel return hose.





14. Remove the 3 bolts for the high pressure fuel pump.



15. Remove the high pressure fuel pump making sure not to let the sleeve fall out of the bore.

16. Remove the sleeve from the bore.



17. Reinstall in reverse order noting the following:
  - a. Inspect the sleeve for wear and replace as necessary.
  - b. Apply engine oil to the sleeve before installation.
  - c. When installing the high pressure pump, the sleeve must be at the lowest point (rotate the engine as needed).
  - d. Torque the bolts for the high pressure fuel pump to factory specifications.
  - e. Torque the fuel supply line to the fuel rail to factory specifications.
  - f. Torque the low pressure sensor to factory specifications.



18. Install fuel pump fuse.

19. Install fuse box cover.