

**Ford 7.3L 1998.5 - 2003
High-Pressure Oil
Pump Installation Tips**



An Employee Owned Company

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INSTALLATION TIPS

1. Use caution when working on the high-pressure (HP) oil system to prevent injury. The high-pressure side of the fuel system is pressurized up to 3,000 PSI. Make sure the engine is off, the high-pressure has bled down, and the engine has cooled off prior to working on the engine.
2. It is important to work in a clean manner to prevent contamination of the HP oil and fuel systems to prevent premature failures. Clean the engine area around the high-pressure oil pump, reservoir, and fuel filter assembly prior to removing any components. Before assembly inspect each component for dirt, grease, or other contaminants and clean as necessary.
3. Remove the turbocharger compressor manifold.
4. Remove the fuel filter assembly.
5. Remove the oil from the HP oil pump reservoir using an appropriate oil suction device.
6. Remove the high-pressure hoses at the HP oil pump using a high-pressure line disconnect tool, OTC 303-625 or equivalent.
7. Disconnect the injection pressure regulator (IPR) connector. Remove the IPR coil. Remove the IPR using a six point deep well socket. Avoid contact to the IPR body in the area where the coil resides by the socket or damage to the IPR will result.
8. Remove the HP oil pump drive gear access cover from the engine front cover.
9. Remove the drive gear retaining bolt and washer.
10. Remove the HP oil pump retaining bolts and remove the pump.
11. Install the HP oil pump and the gasket. Tighten bolts to 20 ft-lb (27 N-m).
12. Install the drive gear onto the HP oil pump drive shaft. When correctly installed, the front face of the gear will be flush with the pump drive shaft. If the gear is not correctly positioned it will slip and cause a no start condition.
13. Verify the drive gear installation and then install the drive gear retaining bolt and washer. Tighten to 95 ft-lb (129 N-m).
14. Apply Room Temperature Vulcanizing (RTV) sealer to the crankcase front cover and install the cover plate and retaining bolts. Tighten bolts to 18 ft-lb (24 N-m).
15. Install the injection pressure regulator (IPR) with a six point deep well socket to prevent damage to the IPR from the socket slipping. Tighten the IPR to 35 ft-lb (47 N-m).
16. Install the IPR coil and the retaining nut. Torque the retaining nut to 53 in-lb (6 N-m).
17. Connect the electrical connector to the IPR.
18. Install the high-pressure hoses to the HP oil pump.
19. Install the fuel filter / water separator assembly and then the turbocharger compressor manifold.
20. Fill the oil reservoir with clean engine oil.
21. Crank the engine. Once the engine starts let it idle to bleed the remaining air from the system.
22. Check for oil and fuel leaks.
23. Check the engine oil level and fill as necessary.