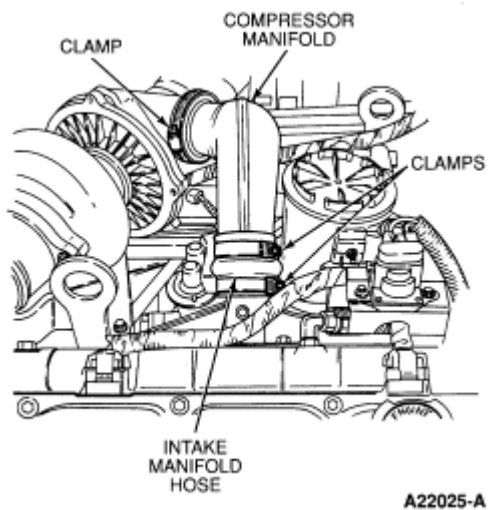


Fuel Charging and Controls, 7.3L Diesel Engine REMOVAL AND INSTALLATION

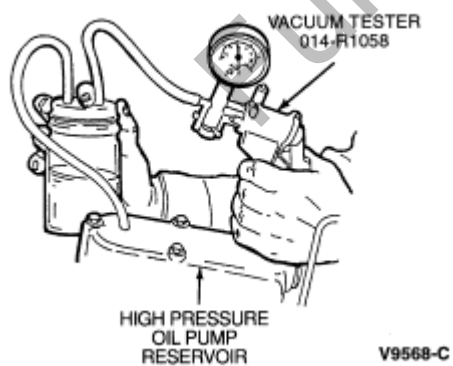
Oil Pump, High-Pressure

Removal

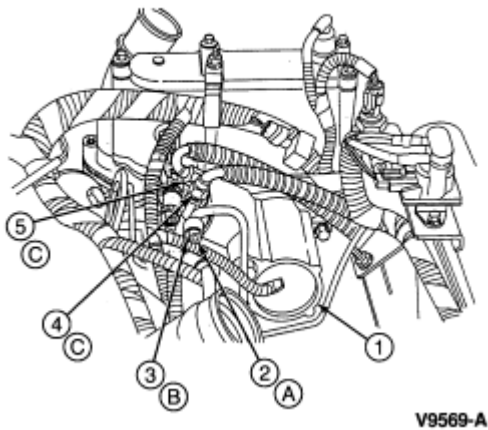
1. Loosen the compressor manifold hose clamps and remove the compressor manifold.



2. Remove the oil from the high-pressure oil pump reservoir using Rotunda Vacuum Tester 014-R1058 or equivalent.

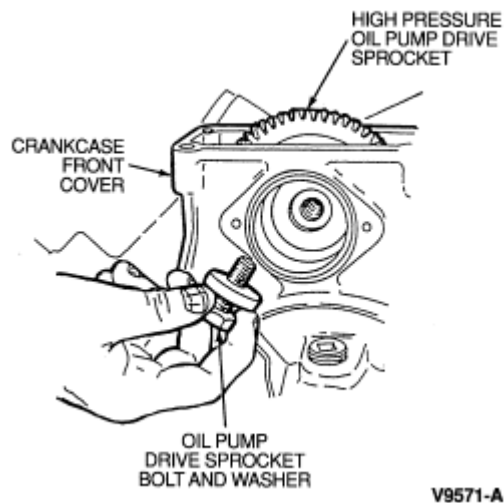


3. Remove the fuel filter.
4. Remove the high-pressure manifold supply hoses from the high-pressure oil pump.



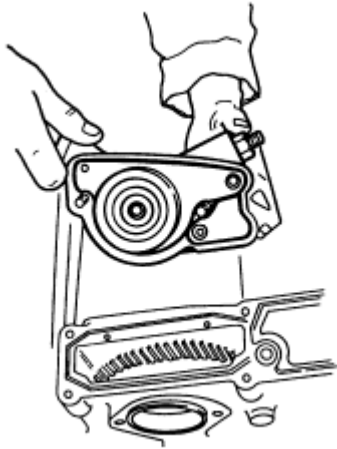
Item	Part Number	Description
1	9A543	High-Pressure Oil Pump
2	—	Nut (Part of 9C968)
3	9C968	Oil Pressure Regulator
4	9A332	High-Pressure Manifold Supply Hose (to RH Cylinder Head)
5	9A331	High-Pressure Supply Hose (to LH Cylinder Head)
A	—	Tighten to 6 Nm (53 Lb-In)
B	—	Tighten to 47 Nm (35 Lb-Ft)
C	—	Tighten to 26 Nm (19 Lb-Ft)

5. Disconnect wire connector from oil pressure regulator.
6. Remove the bolts and cover plate at the crankcase front cover.
7. Remove the oil pump drive sprocket bolt and washer.



8. Remove the retaining bolts from oil reservoir.

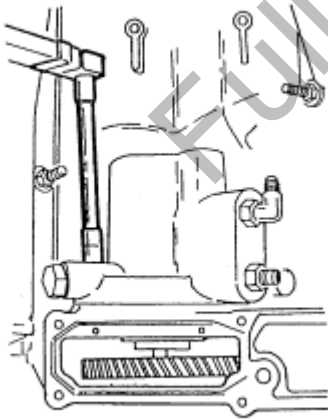
9. Remove the high-pressure oil pump.
10. **NOTE: If high pressure oil is to be replaced, remove the oil pressure regulator.**
Remove oil pressure regulator.



V9572-A

Installation

1. Install the high-pressure oil pump and gasket.
2. Tighten bolts to 22-27 Nm (16-20 lb-ft).
3. Install the retaining bolts to the oil reservoir.

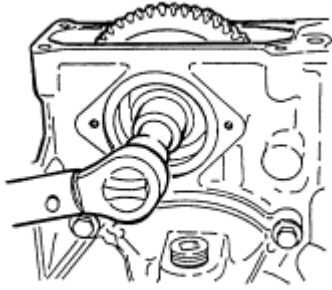


V9573-A

4. **NOTE: Make sure the oil pump drive sprocket is fully seated on the shaft of the high-pressure oil pump before installing the bolt and washer or sprocket may not seat properly. The end of high-pressure oil pump shaft should be flush with the front face of the oil pump drive sprocket.**

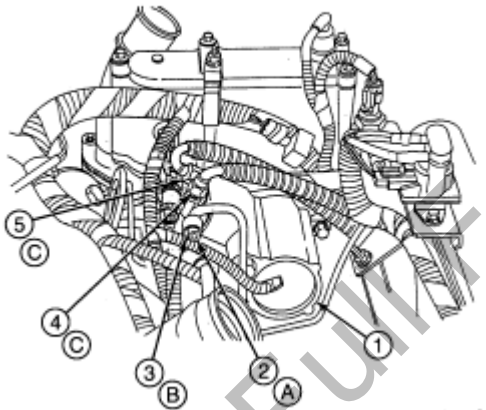
NOTE: A binding oil pump drive sprocket can cause gear slippage and a no oil flow condition.

Install the oil pump drive sprocket, bolt and washer. Tighten bolt to 129 Nm (95 lb-ft).



V9574-A

5. Apply RTV sealer to crankcase front cover and install cover plate and retaining bolts.
6. If removed, install oil pressure regulator. Tighten regulator to 47 Nm (35 lb-ft).
7. Connect wire connector to oil pressure solenoid.
8. Install high-pressure manifold supply hoses to high-pressure oil pump. Tighten hose fittings to 26 Nm (19 lb-ft).



V9569-A

Item	Part Number	Description
1	9A543	High-Pressure Oil Pump
2	—	Nut (Part of 9C968)
3	9C968	Oil Control Pressure Regulator
4	9A332	High-Pressure Manifold Supply Hose (to RH Cylinder Head)
5	9A331	High-Pressure Supply Hose (to LH Cylinder Head)
A	—	Tighten to 6 Nm (53 Lb-In)
B	—	Tighten to 47 Nm (35 Lb-Ft)
C	—	Tighten to 26 Nm (19 Lb-Ft)

9. Install the fuel filter. Refer to [Fuel/Water Separator](#) in the Removal and Installation portion of this section.

10. Install compressor manifold.

11. Refill oil reservoir with clean engine oil.

Full Force Diesel