1997 Ford Truck F 150 2WD Pickup V8-5.4L SOHC VIN L

Service and Repair

REMOVAL

1. Remove both of the cam covers.
2. Remove the radiator.
3. Remove the water pump.
4. Raise and support the vehicle.

5. Remove the two top power steering pump bolts and the lower bolt and position the power steering aside.
6. Disconnect the Crankshaft Position (CKP) sensor electrical connector.

7. Remove the drain plug and drain the engine oil.
8. Remove the front four oil pan bolts.
9. Lower the vehicle.
10. Remove the front oil seal.

11. Disconnect the camshaft position (CMP) sensor electrical connection.
12. Remove the belt idler pulley.

13. Remove the engine front cover bolts.
14. Remove the engine front cover from the front cover to cylinder block dowel.

- Remove the gasket and clean and inspect the mating surfaces.

**CAUTION:** Do not use metal scrapers, wire brushes, power abrasive discs or other abrasive means to clean the sealing surfaces. These tools cause scratches and gouges which make leak paths. Use a plastic scraping tool to remove all traces of old sealant.

**INSTALLATION**
1. Apply silicone along the head to block surface and the oil pan to block surface.

- Use Silicone Gasket and Sealant F6AZ-19562-AA or equivalent meeting Ford specification WSE-M4G323-A6.

**CAUTION:** Do not use metal scrapers, wire brushes, power abrasive discs or other abrasive means to clean the sealing surfaces. These tools cause scratches and gouges which make leak paths. Use a plastic scraping tool to remove all traces of old sealant.

**NOTE:** If the engine front cover is not secured within four minutes, the sealant must be removed and the sealing area cleaned with Metal Surface Cleaner F4AZ-19A536-RA or equivalent meeting Ford specification WSE-M5B392-A. Allow to dry until there is no sign of wetness, or four minutes, whichever is longer. Failure to follow this procedure can cause future oil leakage. Make sure that the gasket is in place on the engine front cover before installation.
2. Install the engine front cover with gasket on the front cover to cylinder block dowel.
3. Loosely install the engine front cover bolts.
4. Make sure to tighten the engine front cover fasteners in two stages.

- Stage 1: Tighten fasteners 1-5 to 20-30 Nm (15-22 ft. lbs.).
- Stage 2: Tighten fasteners 6-15 to 40-55 Nm (30-41 ft. lbs.).
5. Connect the CMP electrical connection.
6. Install a new engine front cover front oil seal.
7. Raise and support the vehicle.

8. Loosely install the four front oil pan bolts.
9. Tighten the four front oil pan bolts in the two stages following the sequence shown.

- Stage 1: 20 Nm (15 ft. lbs.).
- Stage 2: Rotate 60 degrees.
10. Connect the CKP sensor electrical connector.

11. Position the power steering pump and install the bolts.

12. Install the drain plug.
13. Lower the vehicle.
15. Install the radiator.
16. Fill the engine with oil.

- Use Ford Premium SAE 10W-30 Motor Oil X0-10W-30-BSP, DPS, QSP or equivalent meeting Ford specification ESE-M2C153-E.