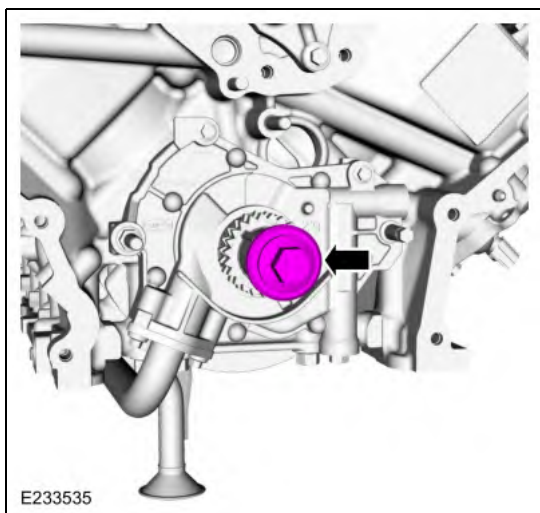


Oil Pump

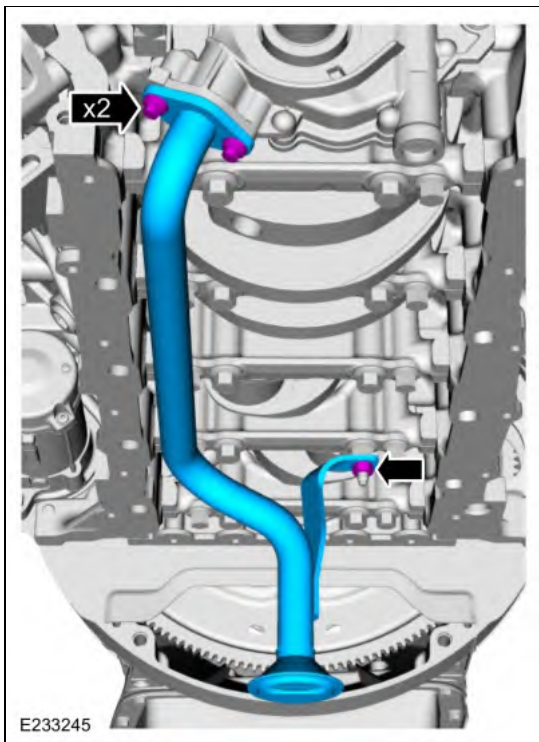
Removal

NOTICE: During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces, that enters the oil passages, coolant passages or the oil pan, can cause engine failure.

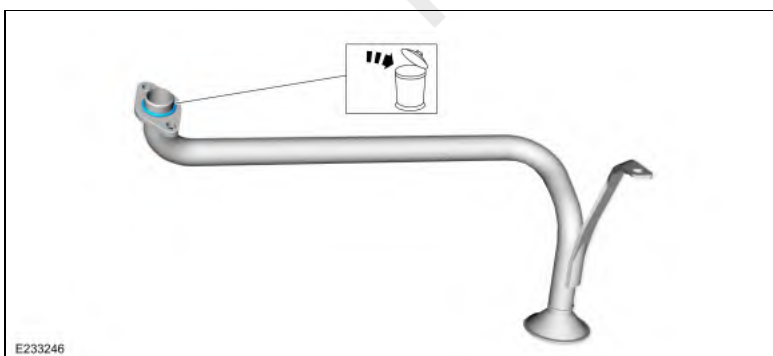
1. Release the fuel system pressure.
Refer to: Fuel System Pressure Release (310-00A Fuel System - General Information - 6.2L V8, General Procedures).
2. Remove the following items:
 1. Remove the RH and LH timing chains.
Refer to: Timing Chain (303-01A Engine - 6.2L V8, Removal and Installation).
 2. Remove the oil pan.
Refer to: Oil Pan (303-01A Engine - 6.2L V8, Removal and Installation).
3. Remove the crankshaft pulley bolt.



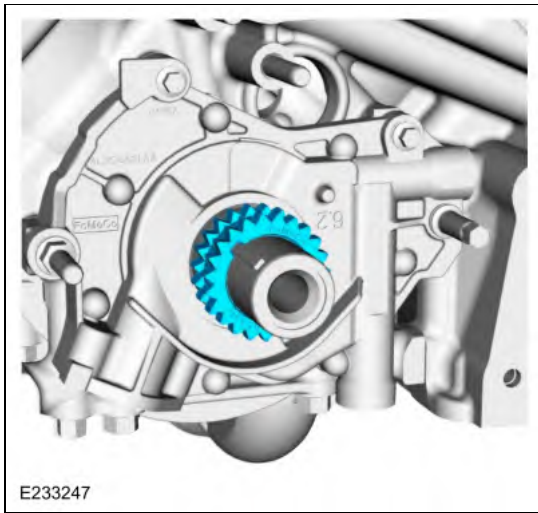
4. Remove the bolts, nut and the oil pump screen and pickup tube.



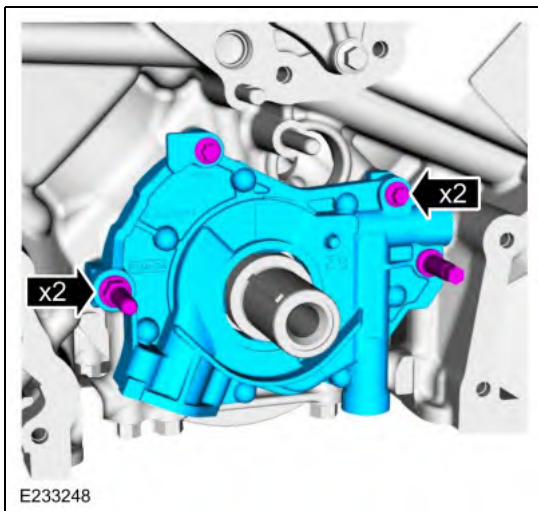
5. Remove and discard the oil pump screen and pickup tube O-ring seal.



6. Remove the crankshaft sprocket.

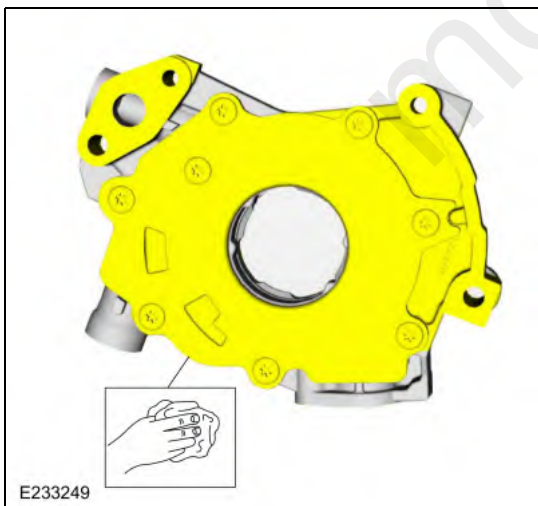


7. Remove the upper bolts, lower stud bolts and the oil pump.



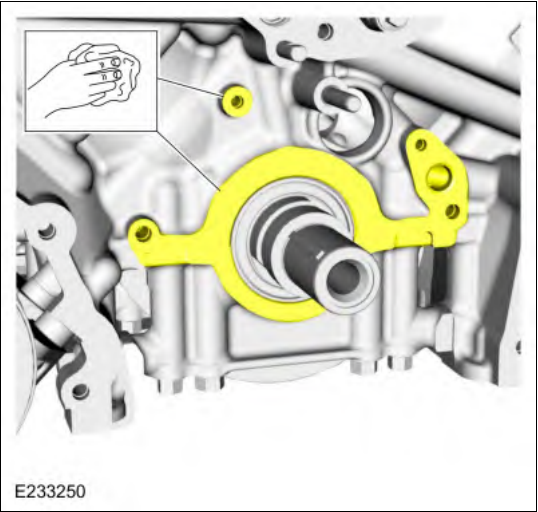
8. **NOTICE: Do not use metal scrapers, wire brushes, power abrasive discs or other abrasive means to clean the sealing surfaces. These tools cause scratches and gouges which make leak paths.**

Make sure that the mating faces are clean and free of foreign material.



9. **NOTICE: 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.**

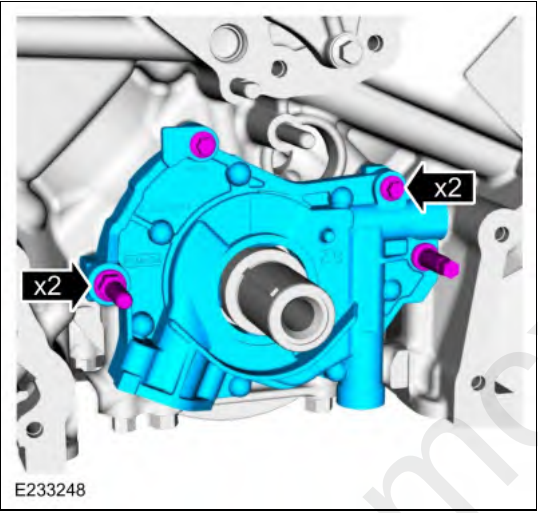
Make sure that the mating faces are clean and free of foreign material.



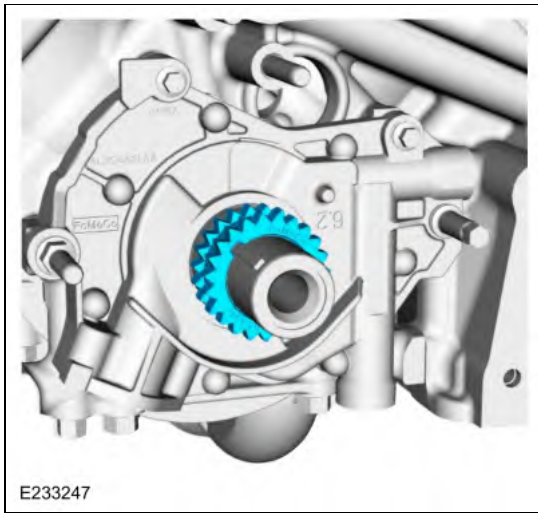
Installation

- 1. Prime the oil pump. Add 2 tablespoons of clean engine oil to the oil pump and rotate the oil pump by hand.
- 2. Install the oil pump and the upper bolts, lower stud bolts.

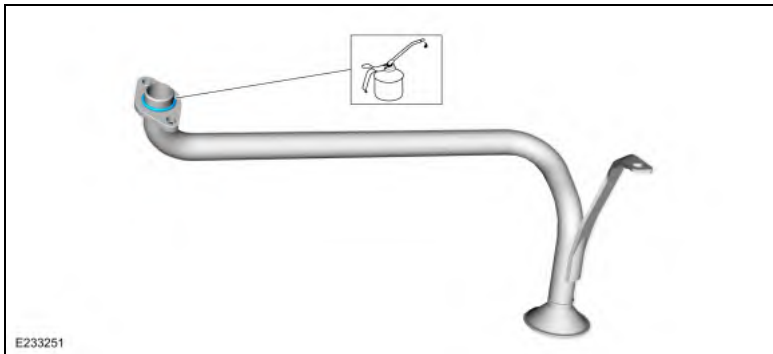
Torque:
Stage 1: Tighten all fasteners to: 18 lb.in (2 Nm)
Stage 2: Tighten the upper bolts to: 89 lb.in (10 Nm)
Stage 3: Tighten the lower stud bolts to: 177 lb.in (20 Nm)
Stage 4: Tighten the upper bolts an additional: 45°
Stage 5: Tighten the lower stud bolts an additional: 60°



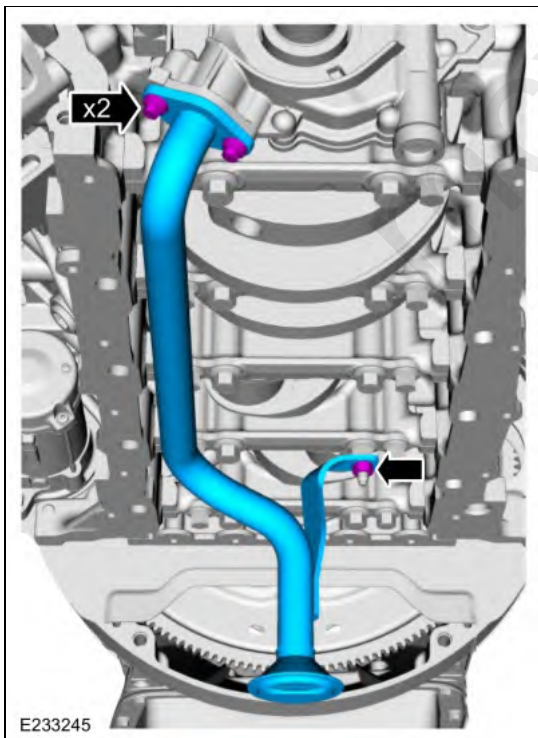
- 3. Install the crankshaft sprocket.



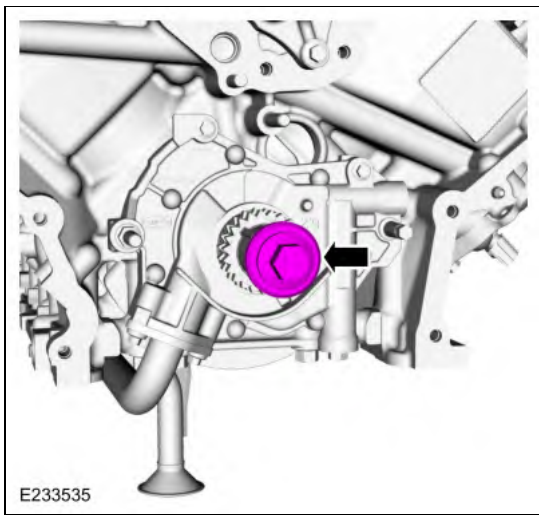
4. Lubricate with clean engine oil and install the oil pump screen and pickup tube O-ring seal.



- 5.
- Install the oil pump screen and pickup tube and the bolts.
Torque: 89 lb.in (10 Nm)
 - Install the oil pump screen and pickup tube nut.
Torque: 18 lb.ft (24 Nm)



6. Install the crankshaft bolt.



7. Install the following items:

1. Install the oil pan.

Refer to: Oil Pan (303-01A Engine - 6.2L V8, Removal and Installation).

2. Install the RH and LH timing chains.

Refer to: Timing Chain (303-01A Engine - 6.2L V8, Removal and Installation).

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