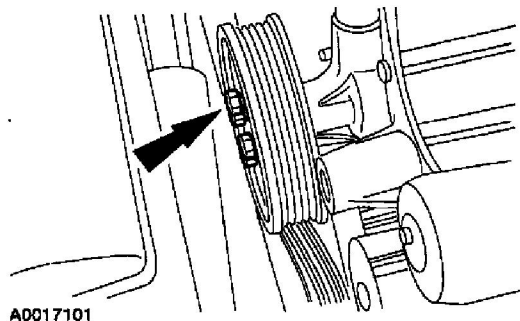


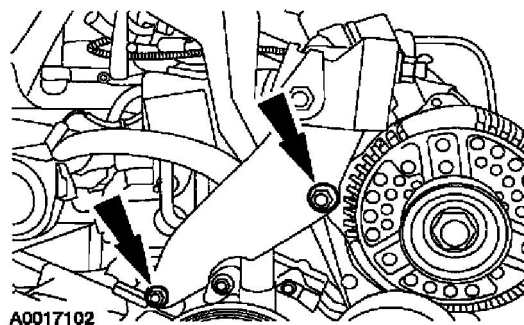
Water Pump: Service and Repair

Removal

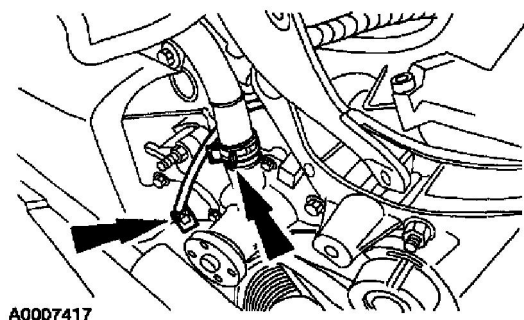
1. Drain the engine cooling system.



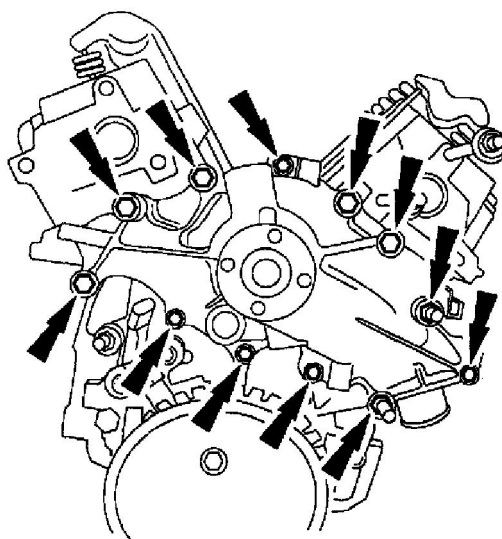
2. Remove the water pump pulley.



3. Remove the bolt and the nut and position the roll restrictor bracket out of the way.
4. Remove the generator.
5. Remove the belt idler pulley.
6. Remove the bolts and the water pump pulley.



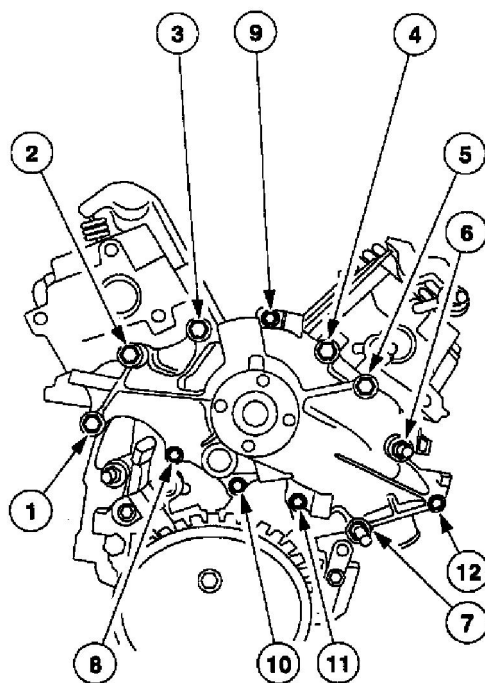
7. Disconnect the water pump inlet hose and the crankshaft position sensor.



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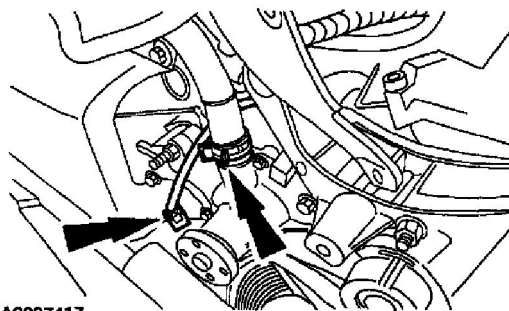
8. Remove the bolts, the water pump and clean the sealing surfaces.

Installation



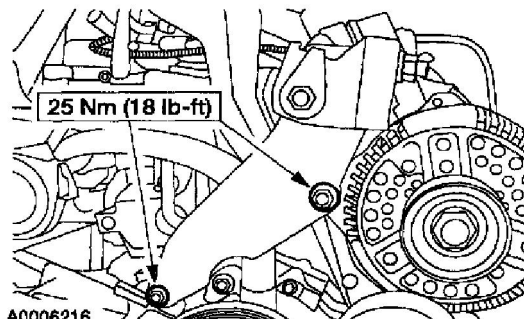
A0007418

1. Install the water pump.
 - Tighten bolts in the sequence shown.
 - ^ Tighten numbers 1-7 to **25 Nm (18 ft. lbs.)**.
 - ^ Tighten numbers 8-12 to **10 Nm (89 inch lbs.)**.



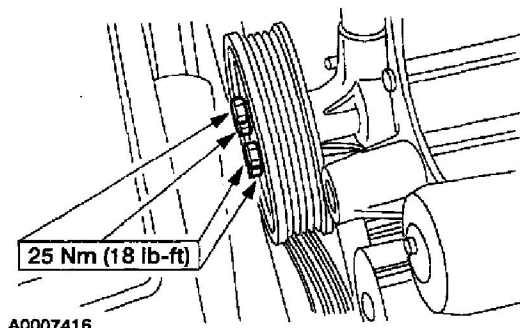
A0007417

2. Connect the crankshaft position sensor and the water pump inlet hose.
3. Install the belt idler pulley.
4. Install the generator.



A0006216

5. Position the roll restrictor bracket and install the bolt and the nut.



A0007416

6. Install the water pump pulley.
7. Refill the engine cooling system.