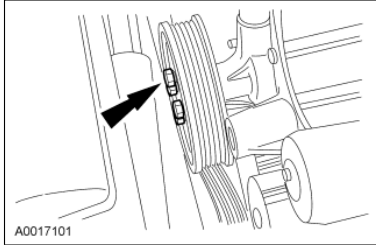
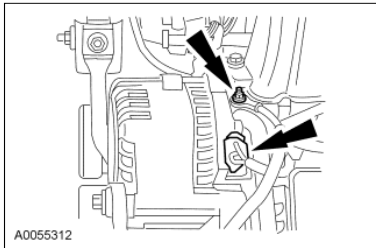


Water Pump — 3.0L (2V)**Removal**

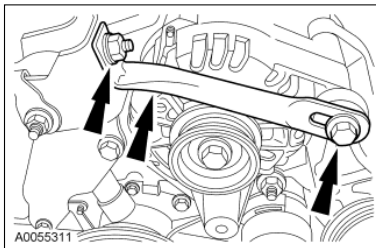
1. Drain the engine cooling system. For additional information, refer to [Cooling System Draining, Filling and Bleeding](#) in this section.
2. Loosen the water pump pulley.



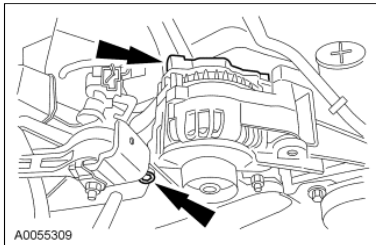
3. Remove the accessory drive belt. For additional information, refer to [Section 303-05](#).
4. Remove the degas bottle. For additional information, refer to [Degas Bottle](#) in this section.
5. Disconnect the battery ground cable. For additional information, refer to [Section 414-01](#).
6. Disconnect the generator B+ cable and the voltage regulator electrical connector.



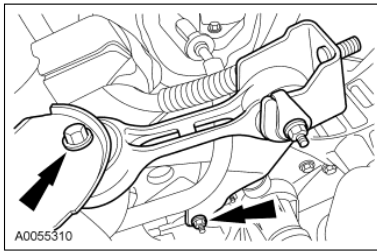
7. Remove the nut, the bolt and the generator brace.



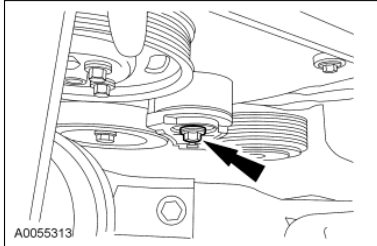
8. Remove the generator mounting bolt and the generator.



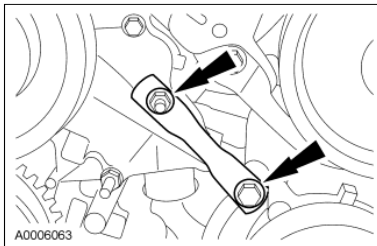
9. Remove the bolt and the nut, and position the roll restrictor bracket out of the way.



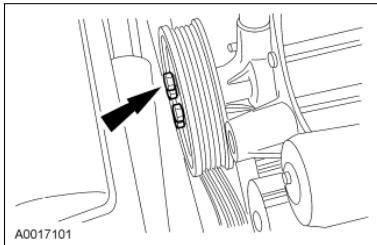
10. Remove the bolt and the accessory drive belt tensioner.



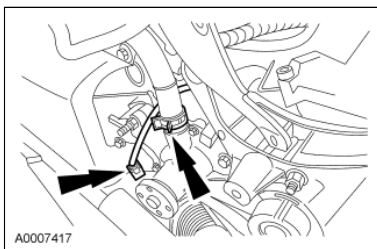
11. Remove the nut, the bolt and the support bracket.



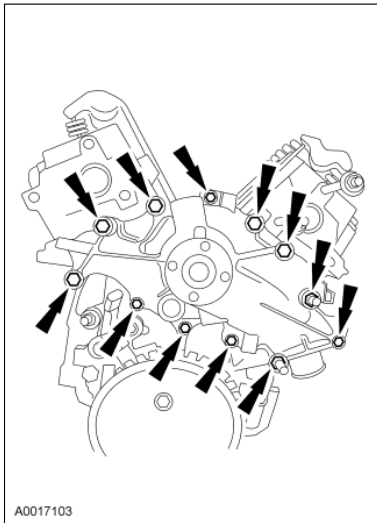
12. Remove the bolts and the water pump pulley.



13. Disconnect the water pump inlet hose and the crankshaft position sensor electrical connector.

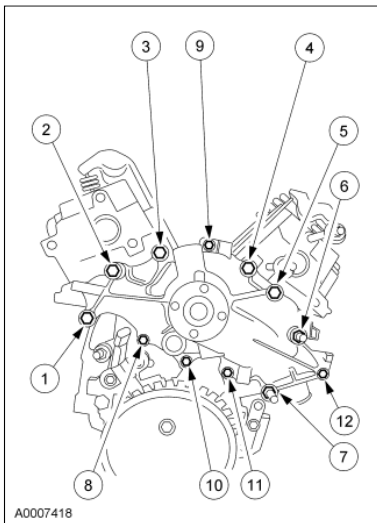


14. Remove the bolts and the water pump, and clean the sealing surfaces.

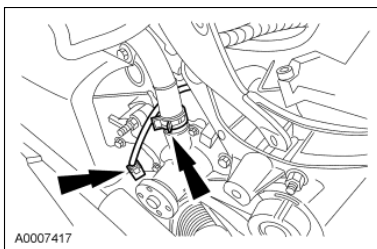


Installation

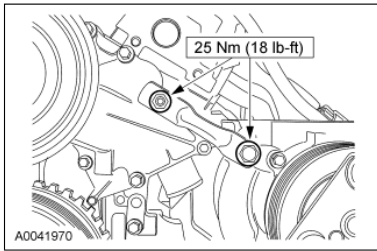
1. Install the water pump. Tighten bolts in the sequence shown:
 - Tighten numbers 1–7 to 25 Nm (18 lb-ft).
 - Tighten numbers 8–12 to 10 Nm (89 lb-in).



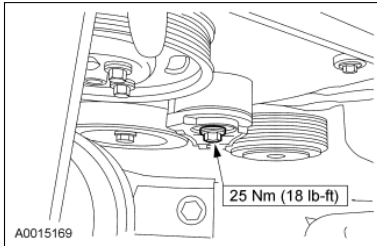
2. Connect the crankshaft position sensor electrical connector and the water pump inlet hose.



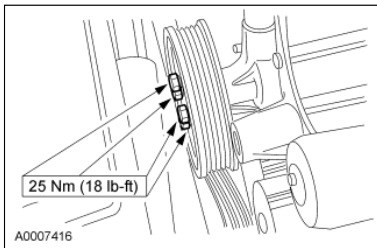
3. Install the support bracket, the nut and the bolt.



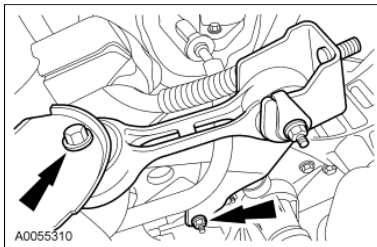
4. Install the accessory drive belt tensioner and the bolt.



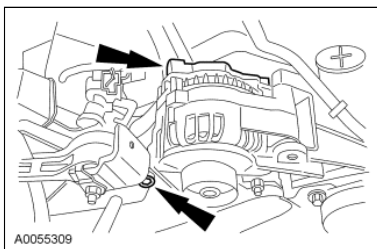
5. Install the water pump pulley and the bolts.



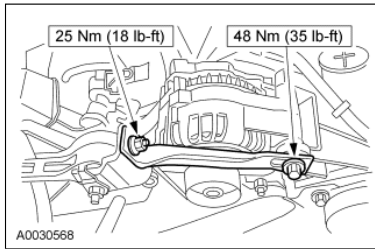
6. Install the roll restrictor bracket, the bolt and the nut. Do not tighten at this time.



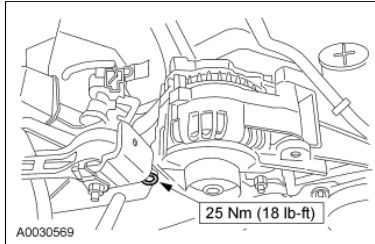
7. Install the generator and the mounting bolt. Do not tighten at this time.



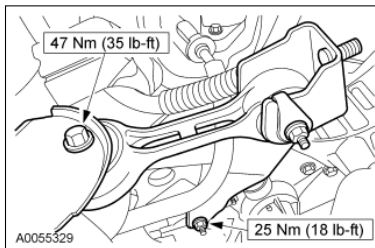
8. Install the generator brace, the nut and the bolt.



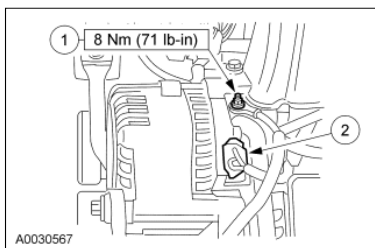
9. Tighten the generator lower mounting bolt.



10. Tighten the roll restrictor bracket bolt and nut.



11. Connect the generator electrical connectors.
1. Connect the B+ cable.
 2. Connect the voltage regulator electrical connector.



12. Install the accessory drive belt. For additional information, refer to [Section 303-05](#).
13. Install the degas bottle. For additional information, refer to [Degas Bottle](#) in this section.
14. Connect the battery ground cable. For additional information, refer to [Section 414-01](#).
15. Fill the engine cooling system. For additional information, refer to [Cooling System Draining, Filling and Bleeding](#) in this section.

