

Water Pump: Service and Repair

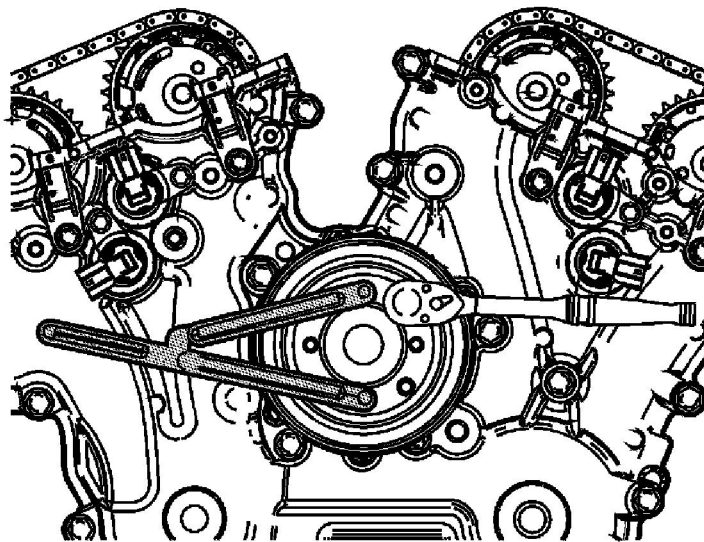
Water Pump Replacement

Special Tools

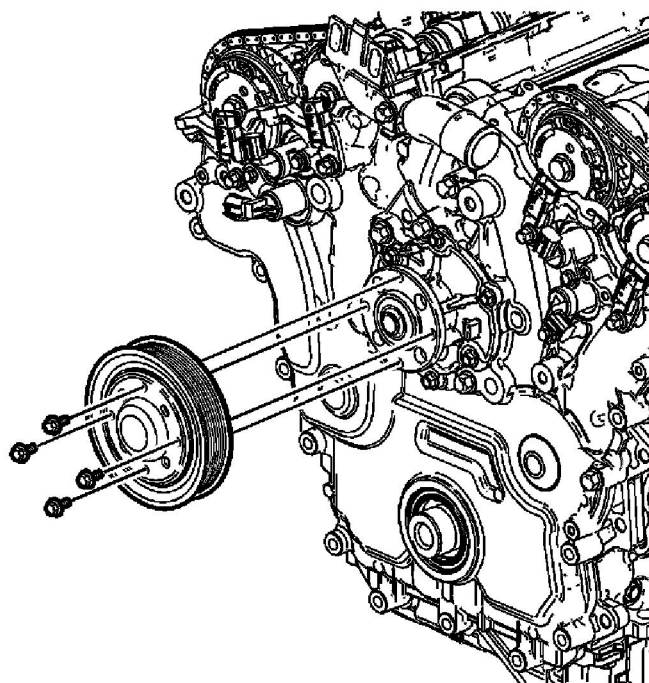
EN 46104 - Water Pump Pulley Holding Tool

Removal Procedure

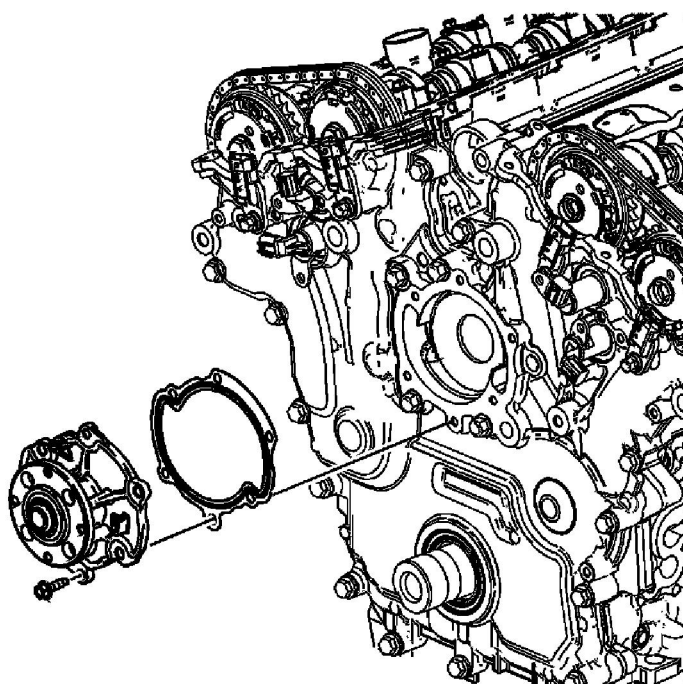
1. Drain the cooling system. Refer to Cooling System Draining and Filling (Static Fill) (See: Cooling System/Service and Repair/Cooling System Draining and Filling (Static Fill))Cooling System Draining and Filling (Vac N Fill) (See: Cooling System/Service and Repair/Cooling System Draining and Filling (Vac N Fill)).
2. Remove the drive belt. Refer to Drive Belt Replacement (See: Drive Belts, Mounts, Brackets and Accessories/Drive Belt/Service and Repair).
3. Remove the right engine strut mount. Refer to Engine Mount Strut Replacement - Right Side (See: Drive Belts, Mounts, Brackets and Accessories/Engine Mount/Service and Repair/Engine Mount Strut Replacement - Right Side).
4. Remove the right engine mount strut bracket. Refer to Engine Mount Strut Bracket Replacement - Right Side (See: Drive Belts, Mounts, Brackets and Accessories/Engine Mount/Service and Repair/Engine Mount Strut Bracket Replacement - Right Side).



5. Use the EN 46104 - tool in order to retain the water pump pulley.

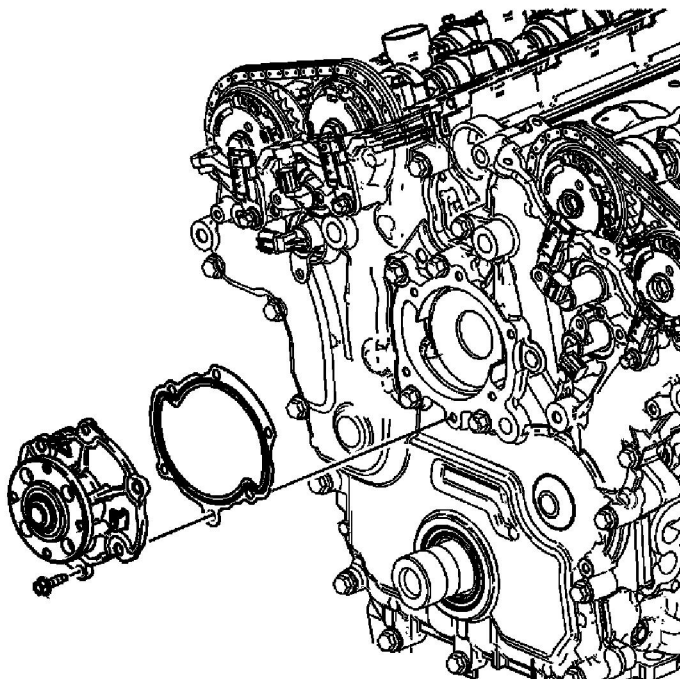


6. Remove the water pump pulley bolts.
7. Remove the water pump pulley.



8. Remove the water pump bolts.
9. Remove the water pump.
10. Remove and DISCARD the water pump seal.
11. Carefully clean the water pump sealing surfaces.

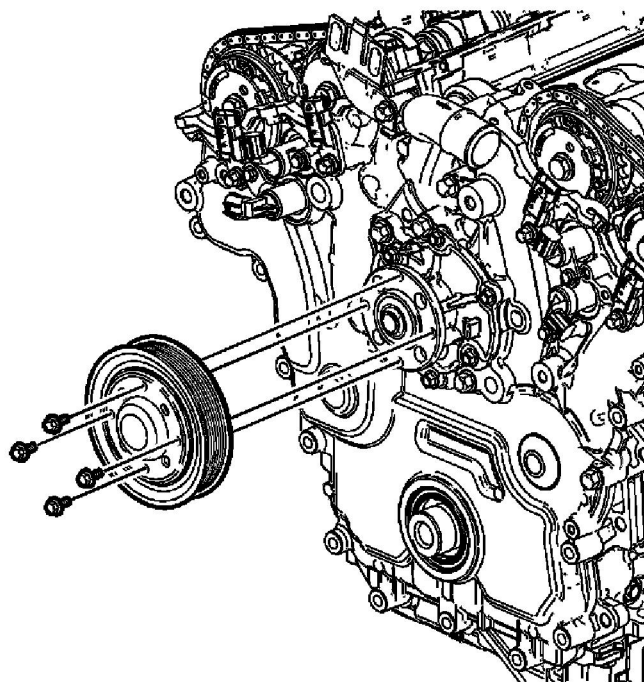
Installation Procedure



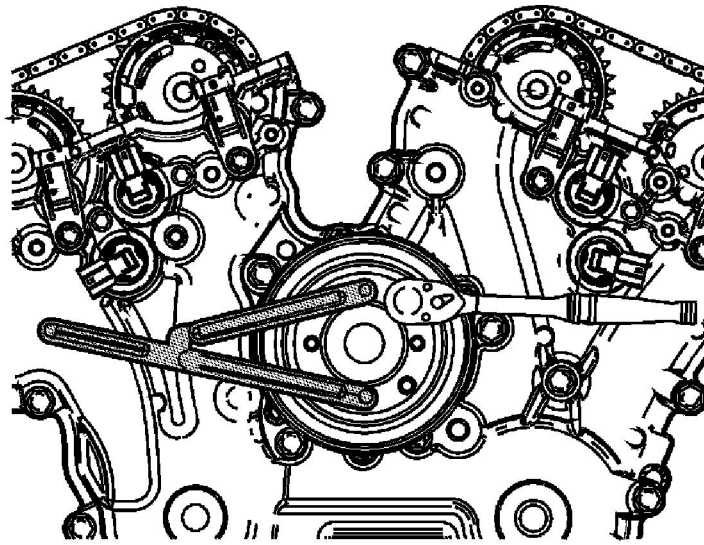
1. Install a NEW water pump seal.
2. Install the water pump.

Caution: Refer to Fastener Caution (See: Service Precautions/Vehicle Damage Warnings/Fastener Caution).

3. Install the water pump bolts and tighten to **10 Nm (89 lb in)**.



4. Install the water pump pulley and the water pump pulley bolts.



5. Use the EN 46104 - tool in order to retain the water pump pulley.
6. Install the water pump pulley bolts and tighten to **10 Nm (89 lb in)**.
7. Install the right engine strut mount. Refer to Engine Mount Strut Replacement - Right Side (See: Drive Belts, Mounts, Brackets and Accessories/Engine Mount/Service and Repair/Engine Mount Strut Replacement - Right Side).
8. Install the right engine mount strut bracket. Refer to Engine Mount Strut Bracket Replacement - Right Side (See: Drive Belts, Mounts, Brackets and Accessories/Engine Mount/Service and Repair/Engine Mount Strut Bracket Replacement - Right Side).
9. Install the drive belt. Refer to Drive Belt Replacement (See: Drive Belts, Mounts, Brackets and Accessories/Drive Belt/Service and Repair).
10. Fill the cooling system. Refer to Cooling System Draining and Filling (Static Fill) (See: Cooling System/Service and Repair/Cooling System Draining and Filling (Static Fill))Cooling System Draining and Filling (Vac N Fill) (See: Cooling System/Service and Repair/Cooling System Draining and Filling (Vac N Fill)).