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1970 FORD Mustang Convertible OEM Service and Repair Workshop Manual

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Sample

Refer to: [Engine Cooling System Draining, Vacuum Filling and Bleeding](#)(303-03D Engine Cooling - 3.5L V6 PowerBoost (CN), General Procedures).

3. Remove the radiator.

Refer to: [Radiator](#)(303-03D Engine Cooling - 3.5L V6 PowerBoost (CN), Removal and Installation).

4. NOTICE

Radiator internal pressure must not exceed 138 kPa (20 psi). Damage to the radiator can result.

Position the radiator upside down and with a high pressure hose in the lower radiator hose opening, backflush the radiator.

5. Remove the thermostat.

Refer to: [Thermostat](#)(303-03D Engine Cooling - 3.5L V6 PowerBoost (CN), Removal and Installation).

6. Install the coolant inlet connection without the thermostat.

Torque : 89 lb.in (10 Nm)

7. Backflush the engine. Position the high-pressure water hose into the engine through the upper radiator hose and backflush the engine.

8. Install the thermostat.

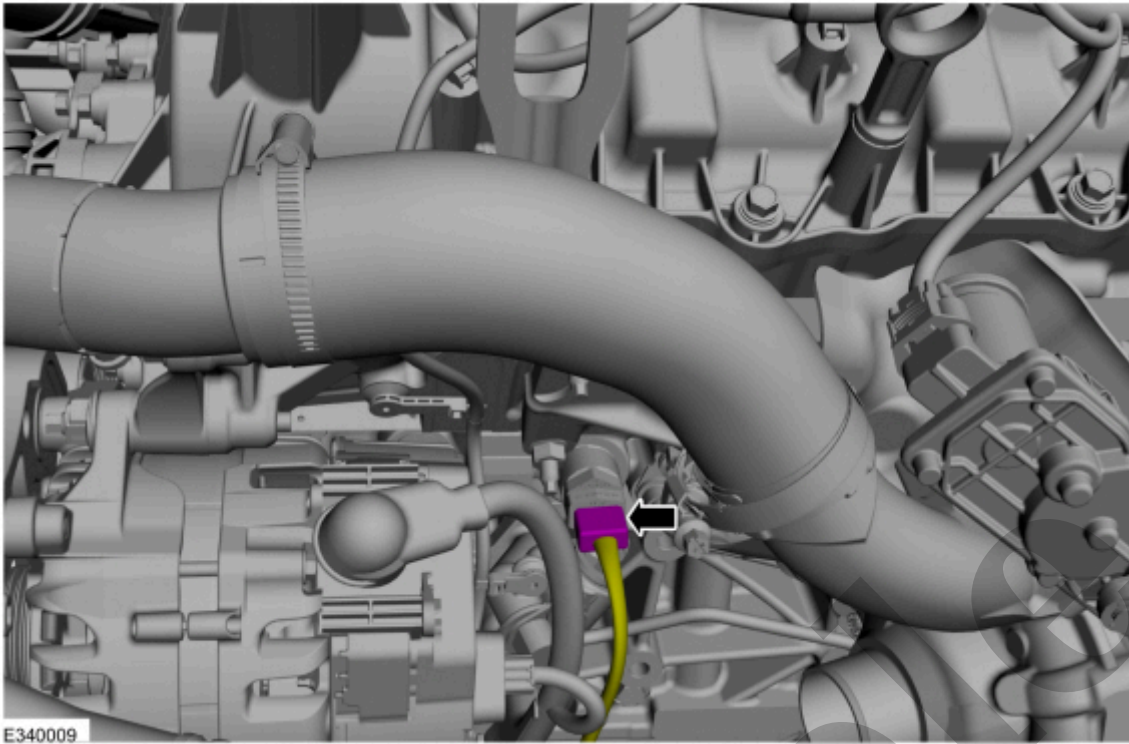
Refer to: [Thermostat](#)(303-03D Engine Cooling - 3.5L V6 PowerBoost (CN), Removal and Installation).

9. Install the radiator.

Refer to: [Radiator](#)(303-03D Engine Cooling - 3.5L V6 PowerBoost (CN), Removal and Installation).

10. Fill and bleed the cooling system.

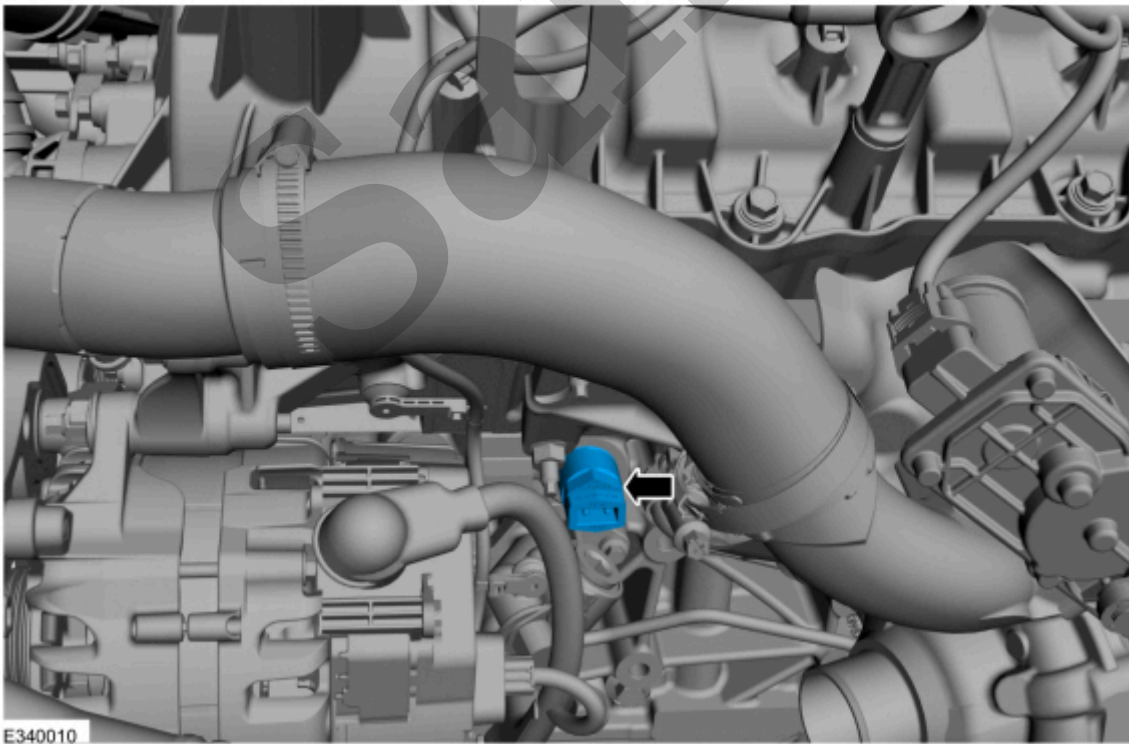
Refer to: [Engine Cooling System Draining, Vacuum Filling and Bleeding](#)(303-03D Engine Cooling - 3.5L V6 PowerBoost (CN), General Procedures).



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6. Remove the block heater.

Torque : 41 lb.ft (55 Nm)



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Coolant Pump

303-03D Engine Cooling - 3.5L V6 PowerBoost (CN)	2022 F-150
Removal and Installation	Procedure revision date: 09/9/2022

Coolant Pump

Removal

1. Drain the cooling system.

Refer to: [Engine Cooling System Draining, Vacuum Filling and Bleeding](#)(303-03D Engine Cooling - 3.5L V6 PowerBoost (CN), General Procedures).

2. Remove the LH (left-hand) CAC (charge air cooler) Intake Pipe.

Refer to: [Charge Air Cooler \(CAC\) Intake Pipe](#)(303-12D Intake Air Distribution and Filtering - 3.5L V6 PowerBoost (CN), Removal and Installation).

3.
 - Remove the spring clip and disconnect the lower coolant hose.
 - Remove the bolts and position the degas bottle aside.

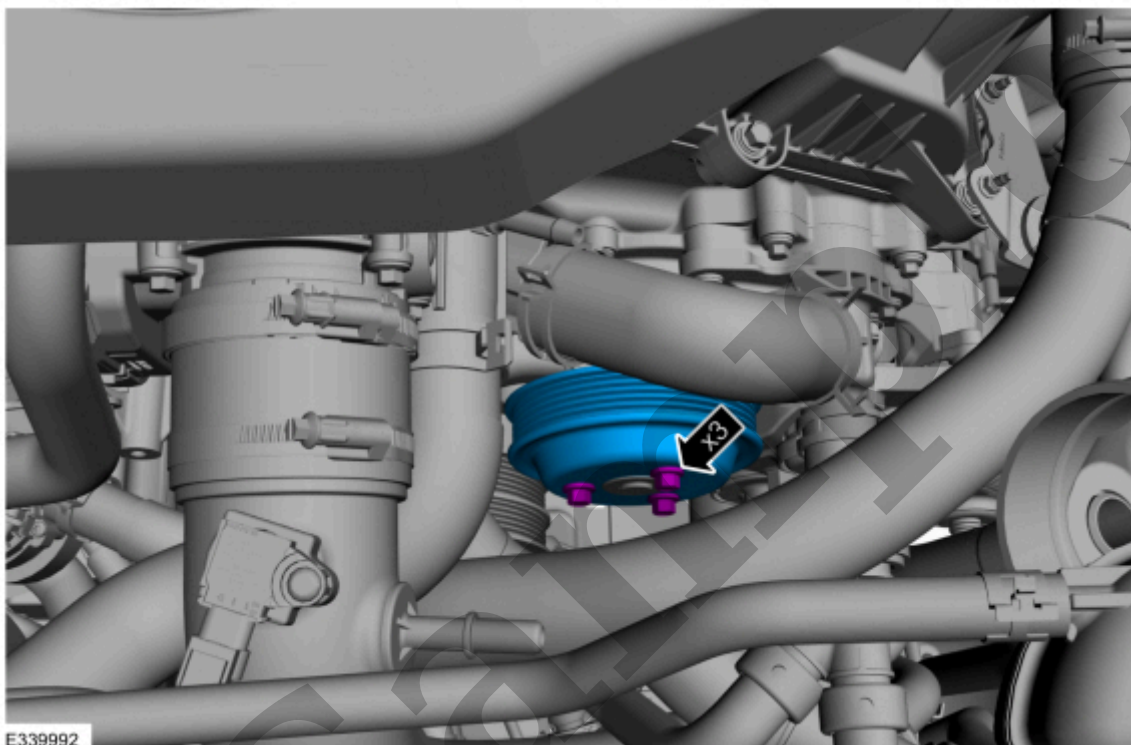
Refer to: [Accessory Drive Belt](#)(303-05D Accessory Drive - 3.5L V6 PowerBoost (CN), Removal and Installation).

6. NOTICE

Cover the A/C (air conditioning) compressor belt to prevent coolant contamination of the belt.

Completely cover the A/C (air conditioning) compressor belt with waterproof plastic.

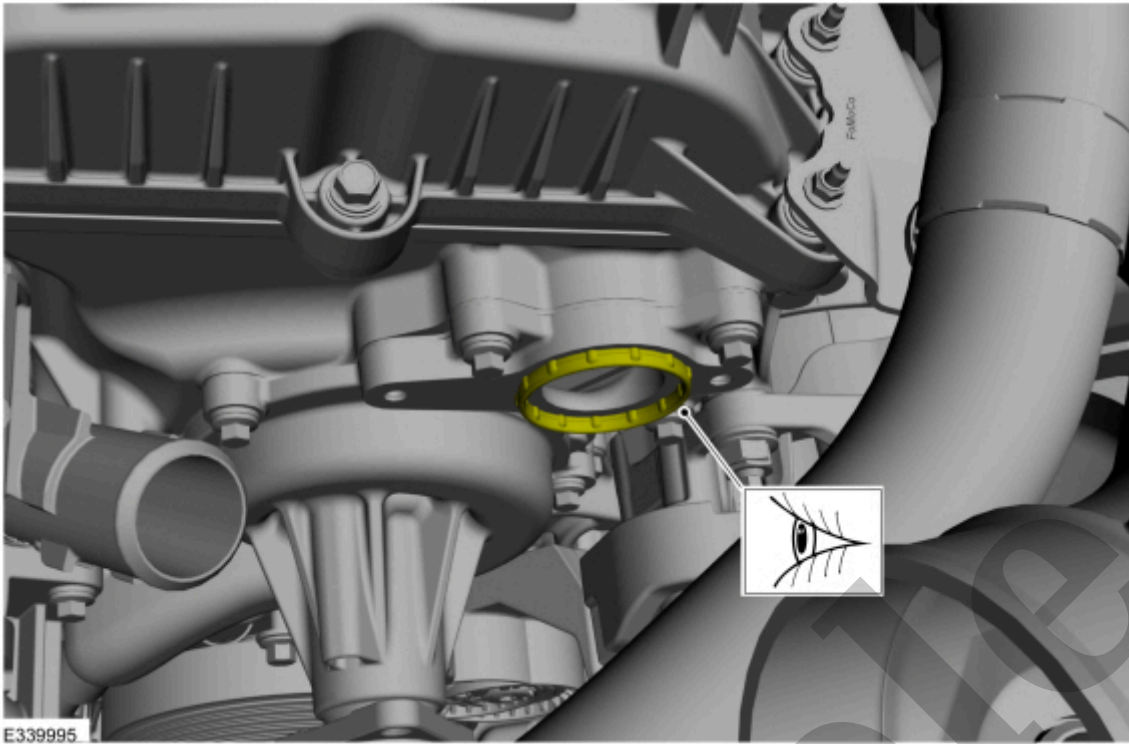
7. Remove the bolts and the coolant pump pulley.



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8. Release the clamps and remove the coolant hose.

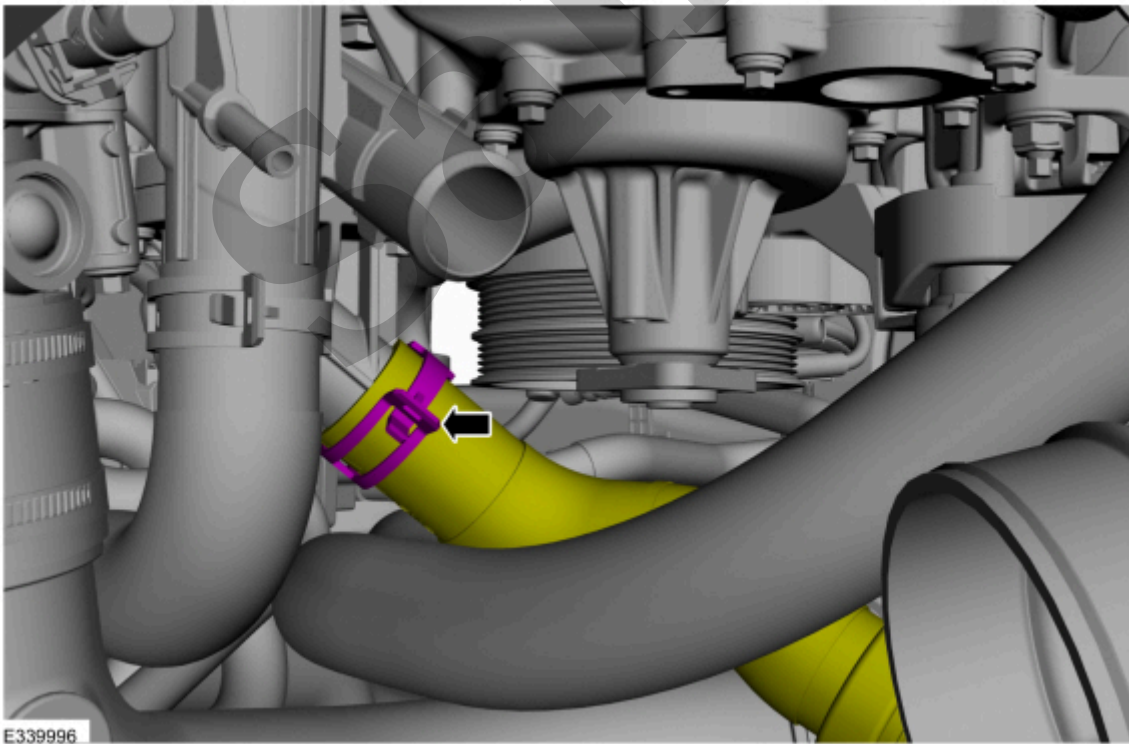
Use the General Equipment: Hose Clamp Remover/Installer



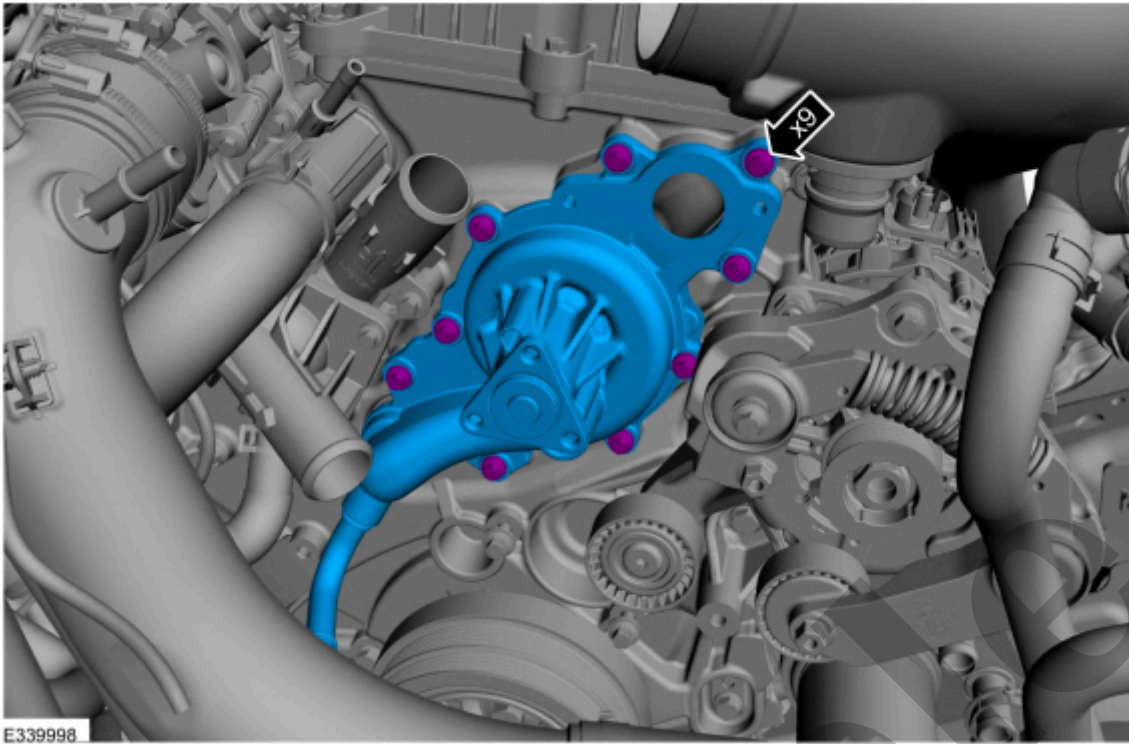
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11. Release the clamp and disconnect the lower radiator hose.

Use the General Equipment: Hose Clamp Remover/Installer



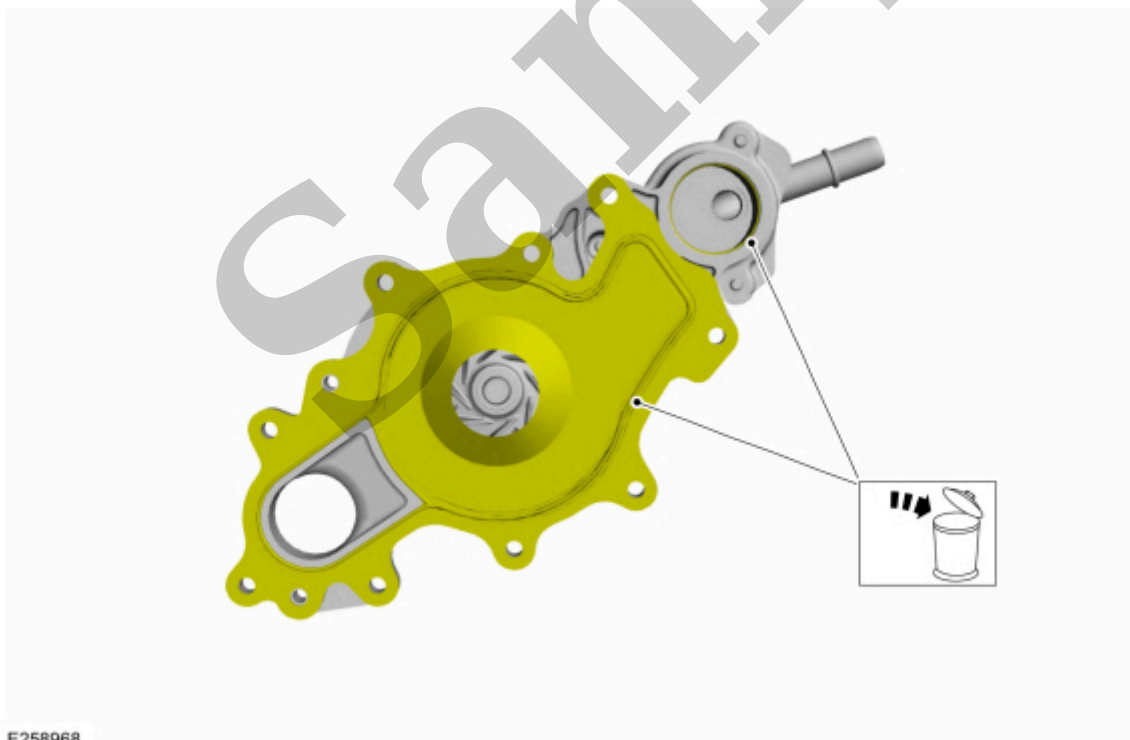
[Click here to learn about symbols, color coding, and icons used in this manual.](#)



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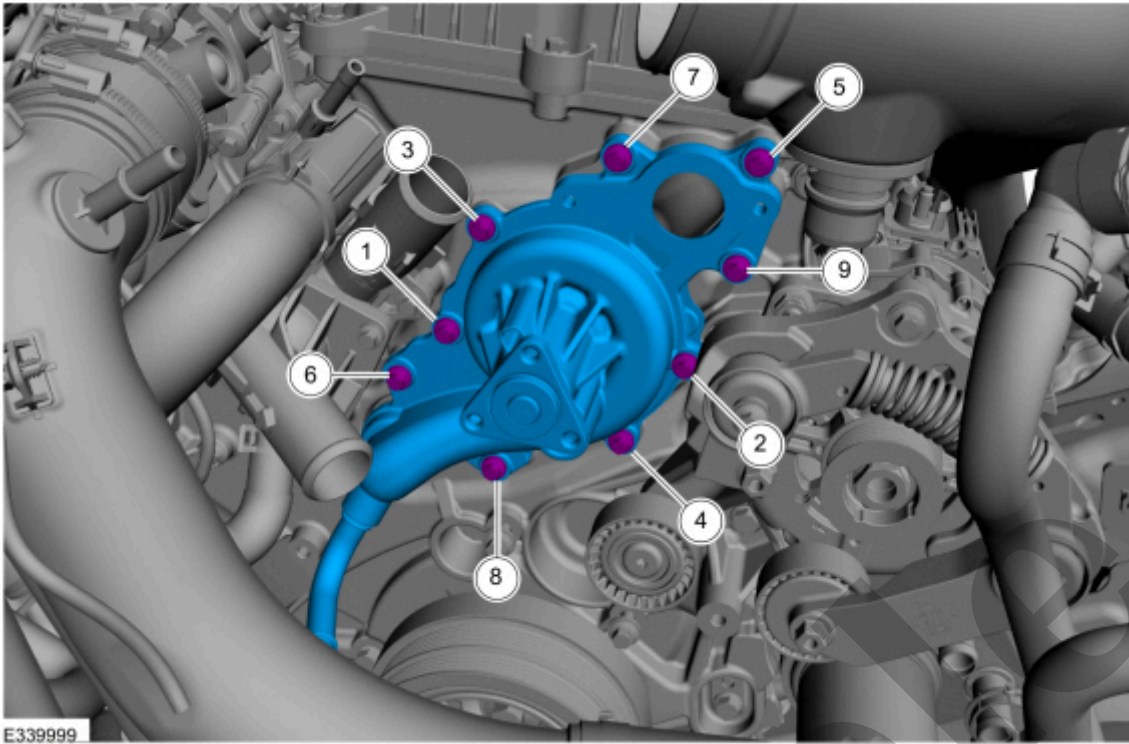
14. Remove and discard the coolant pump gasket and O-ring seal.



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Installation



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

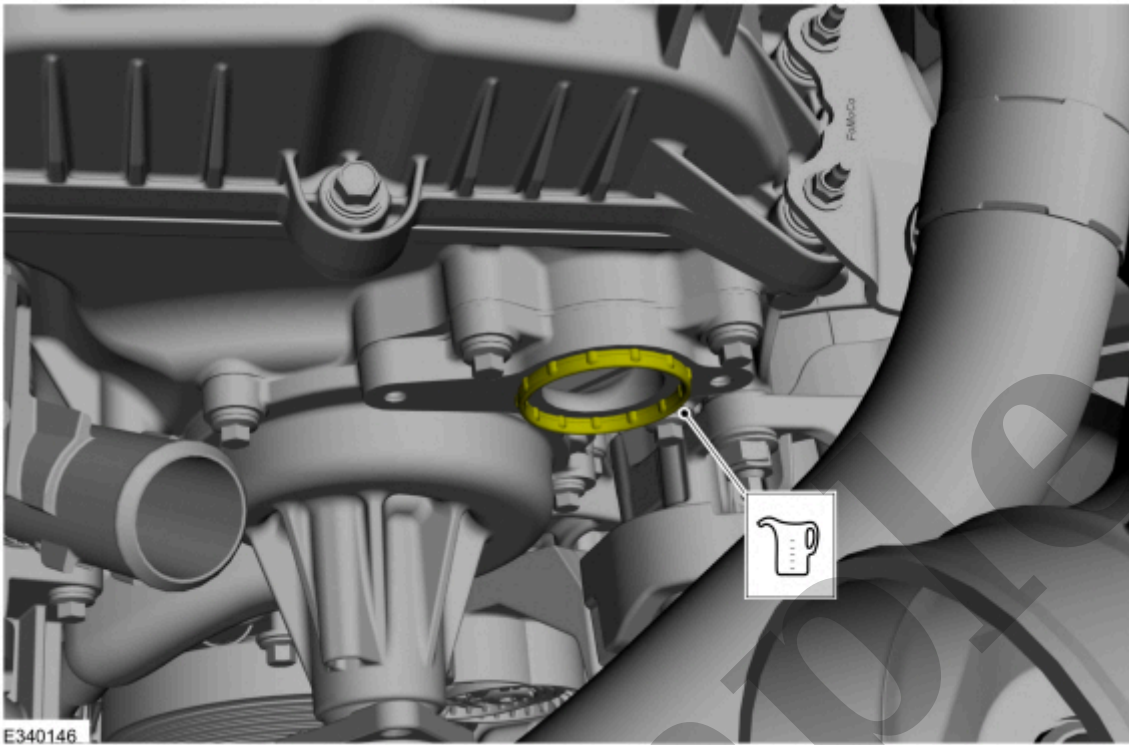
3. Follow the directions to connect quick release coupling type 3.

Connect the coolant tube.

Refer to: [Quick Release Coupling](#)(310-00D Fuel System - General Information - 3.5L V6 PowerBoost (CN), General Procedures).

5. Lubricate the O-ring seal with clean engine coolant.

Refer to: [Specifications](#)(303-03D Engine Cooling - 3.5L V6 PowerBoost (CN), Specifications).



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6. Position the water pump outlet connector and tighten the bolts.

Torque :

Stage 1: 89 lb.in (10 Nm)

Stage 2: 45°