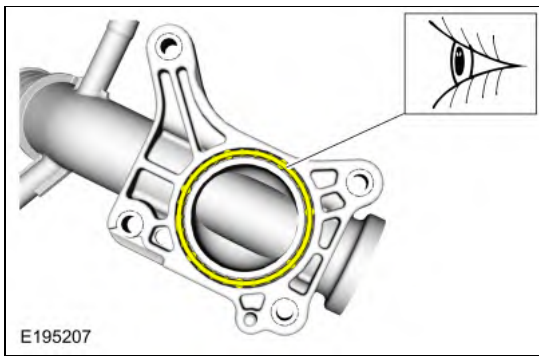
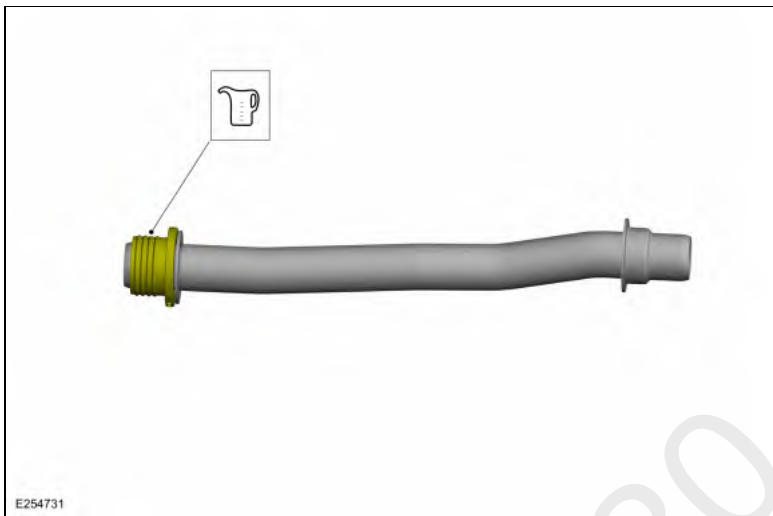




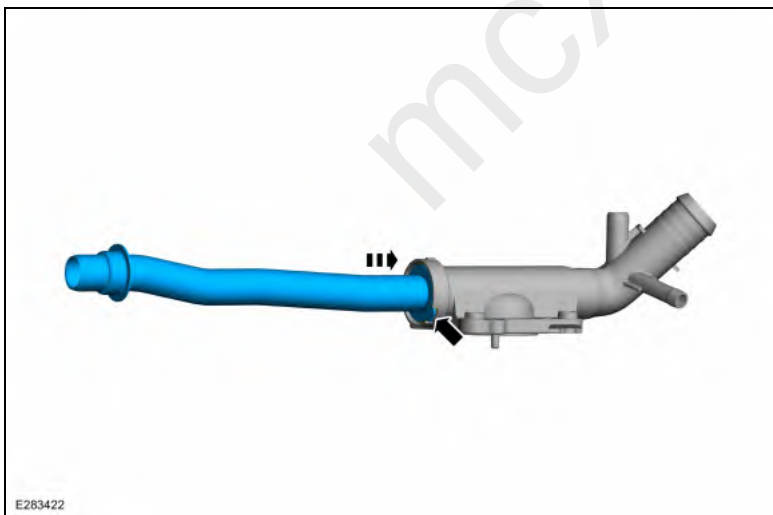
Installation

1.
 - Lubricate the inside and outside diameter of the grommet with clean engine coolant. Refer to: Specifications (303-03B Engine Cooling - 2.7L EcoBoost (238kW/324PS), Specifications).
 - Install the grommet.

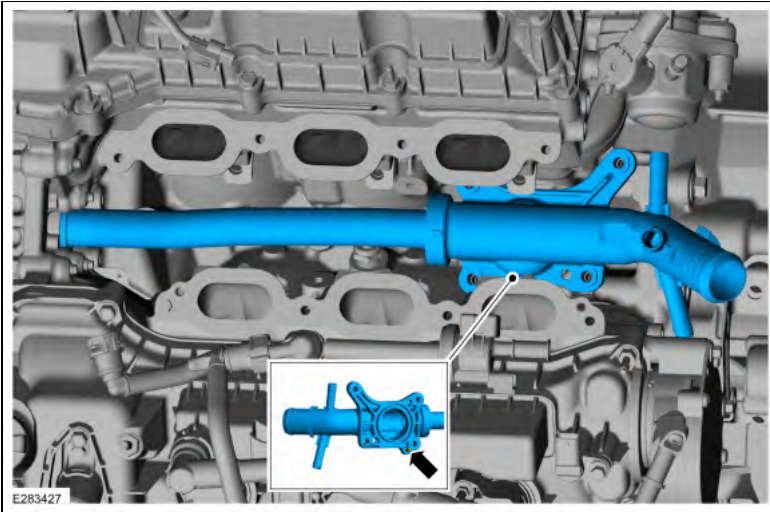


2. **NOTE:** Verify the locating tab is aligned to the coolant outlet connector.

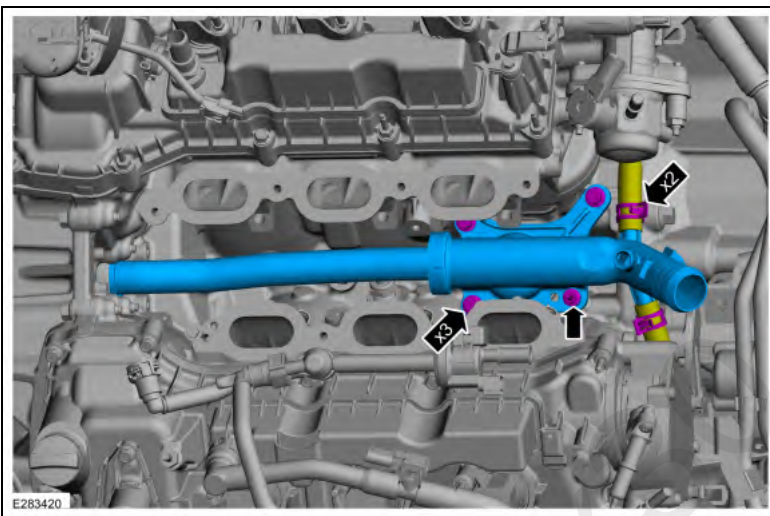
Connect the coolant inlet pipe.



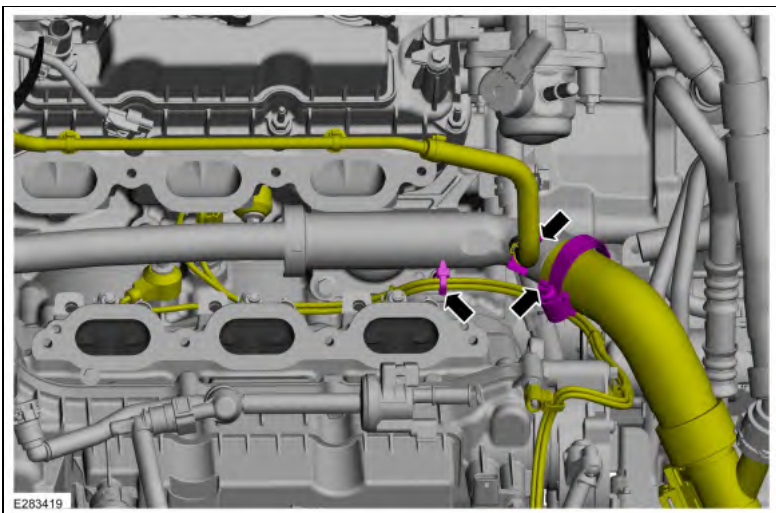
3. Place the coolant outlet connector and inlet pipe assembly into the intake valley. Verify the locator dowel is fully seated into the engine block.



4. Install and tighten the fasteners. Connect the coolant hoses and install the hose clamps.
Use the General Equipment: Hose Clamp Remover/Installer
Torque: 89 lb.in (10 Nm)



5.
 - Connect the coolant hose and tighten the hose clamp.
Torque: 44 lb.in (5 Nm)
 - Depress the tabs and connect the coolant tube.
 - Depress the tabs and connect the coolant tube.



6. Install the coolant pump.
Refer to: Coolant Pump (303-03B Engine Cooling - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
7. Install the fuel rail.
Refer to: Fuel Rail (303-04B Fuel Charging and Controls - 2.7L EcoBoost (238kW/324PS), Removal and Installation).

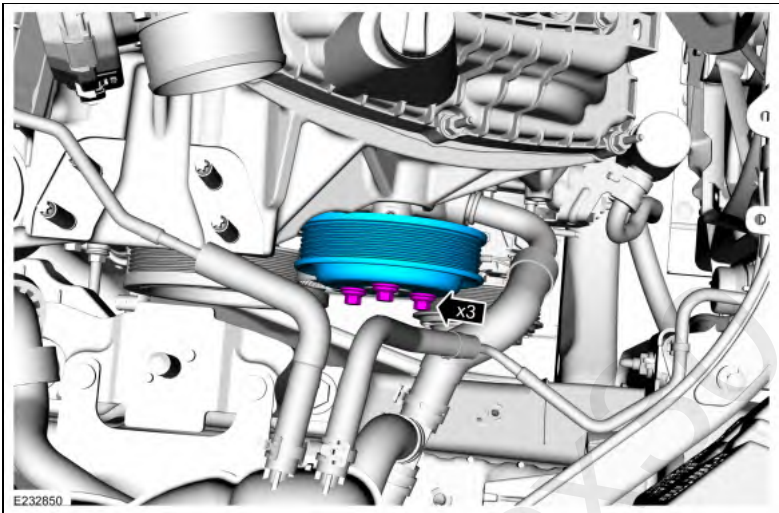
Coolant Pump

Special Tool(s) / General Equipment

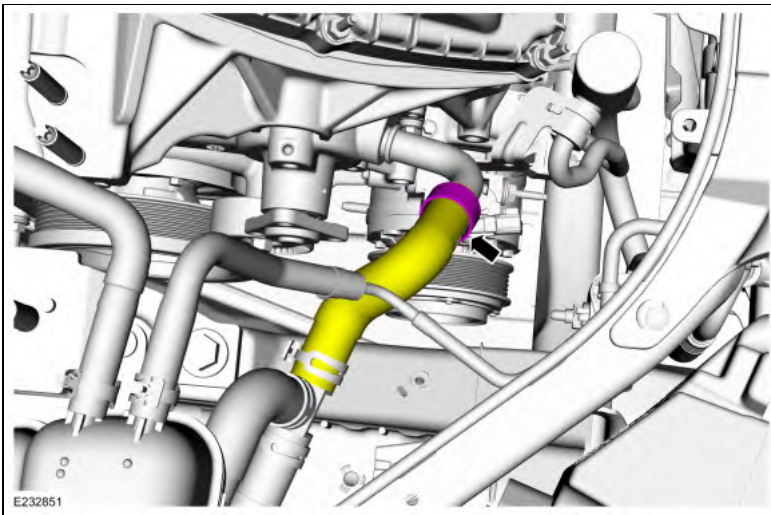
Hose Clamp Remover/Installer

Removal

1. Drain the cooling system.
Refer to: Engine Cooling System Draining, Vacuum Filling and Bleeding (303-03B Engine Cooling - 2.7L EcoBoost (238kW/324PS), General Procedures).
2. Remove the accessory drive belt.
Refer to: Accessory Drive Belt (303-05A Accessory Drive - 2.0L EcoBoost (184kW/250PS) â€” MI4, Removal and Installation).
3. Remove the engine mount.
Refer to: Engine Mount (303-01A Engine - 2.0L EcoBoost (184kW/250PS) â€” MI4, Removal and Installation).
4. Remove the thermostat.
Refer to: Thermostat (303-03B Engine Cooling - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
5. Remove the bolts and the coolant pump pulley.

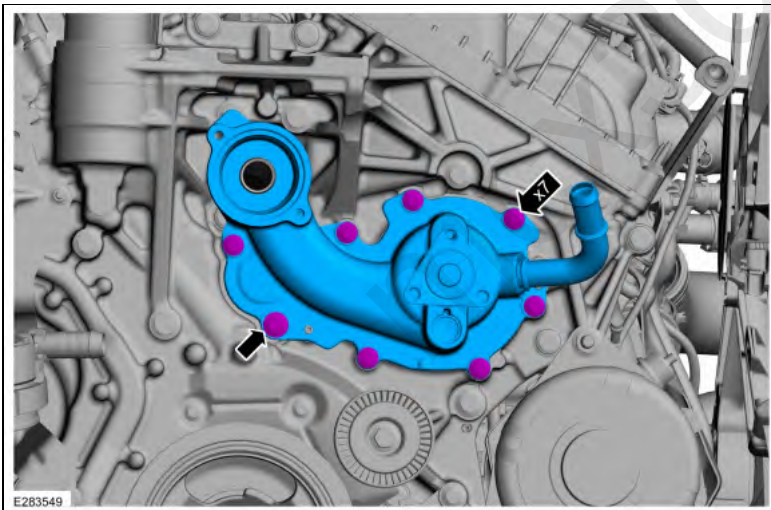


6. Release the clamp and disconnect the coolant hose.
Use the General Equipment: Hose Clamp Remover/Installer



7. **NOTE:** Use caution to prevent damage to the coolant inlet pipe grommet.

Remove the bolts and the coolant pump.



- 8.
- Inspect the coolant pump O-ring and replace if necessary.
 - **NOTE:** The grommet may remain in the coolant pump housing. If this occurs, remove the grommet from the coolant pump housing.

Remove the grommet from the coolant inlet pipe. Inspect the grommet and replace if necessary.