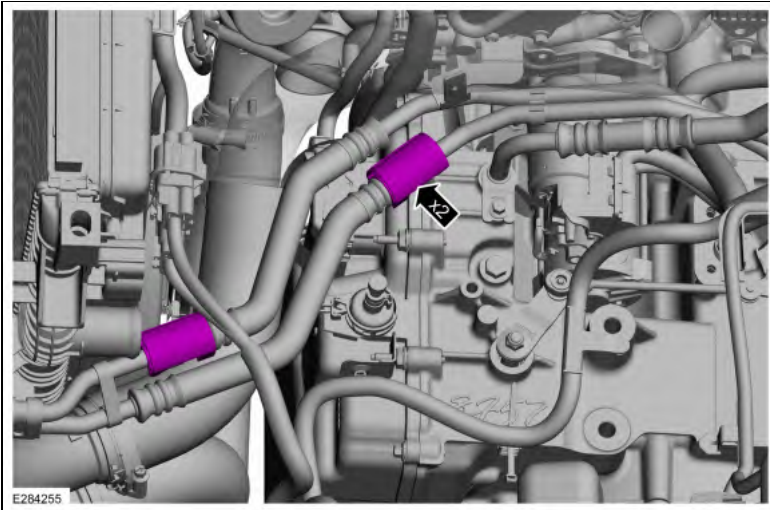
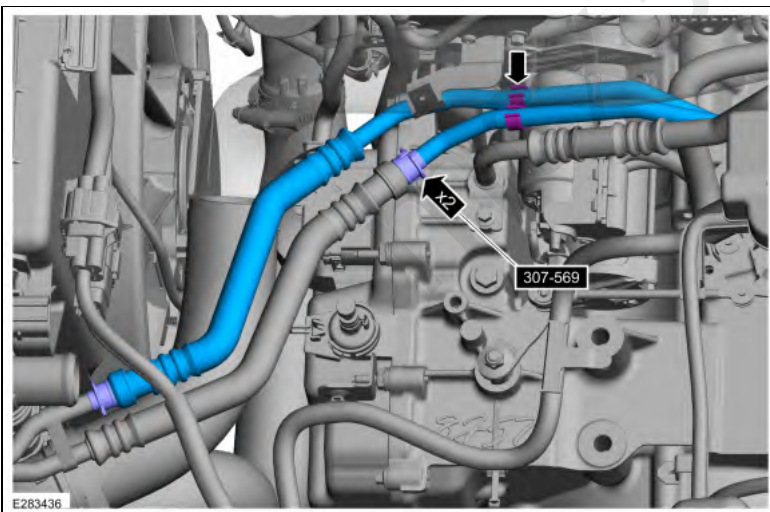




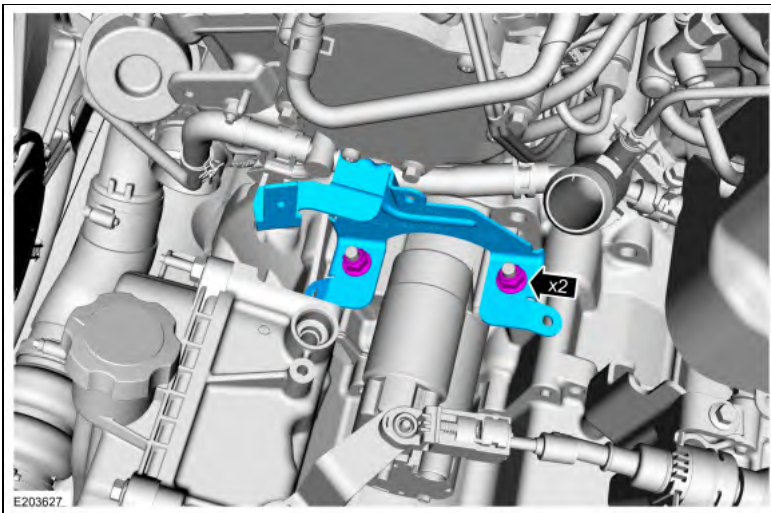
9. **NOTICE:** Failure to cap the openings for the transmission cooler tubes may result in siphoning of the transmission fluid. This may result in damage to the transmission, if the transmission fluid is not checked and filled after the repair is completed.

NOTE: Install caps on the transmission cooler tubes.

- Detach the transmission oil cooler tubes clip.
- Using the special tool, remove the transmission fluid cooler tubes.
Use Special Service Tool: 307-569 Disconnect Tool TOC Line (1/2).



10. Remove the fasteners and the coolant hose support bracket.

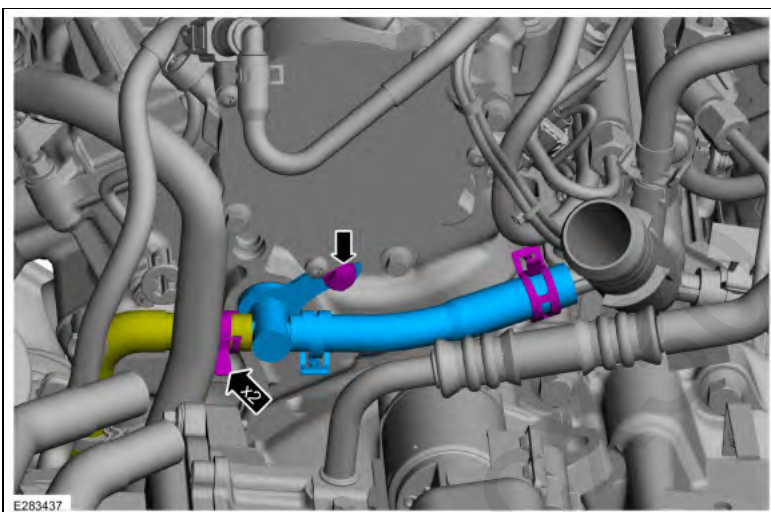


11. **NOTE:** Do not pry the cylinder head to coolant outlet connector behind the fastener bracket. If necessary use gripping pliers to pull the cylinder head to coolant outlet connector from the cylinder head.

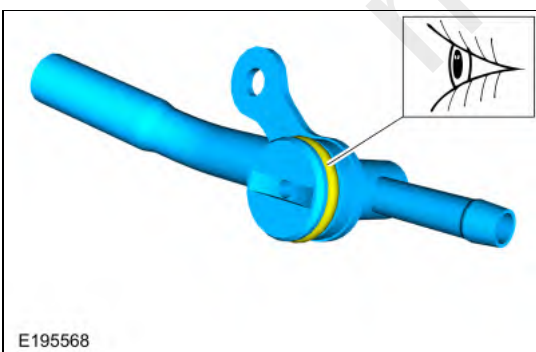
Release the hose clamps and disconnect the coolant hoses. Remove the bolt and the cylinder head to coolant outlet connector hose assembly.

Use the General Equipment: Hose Clamp Remover/Installer

Torque: 89 lb.in (10 Nm)



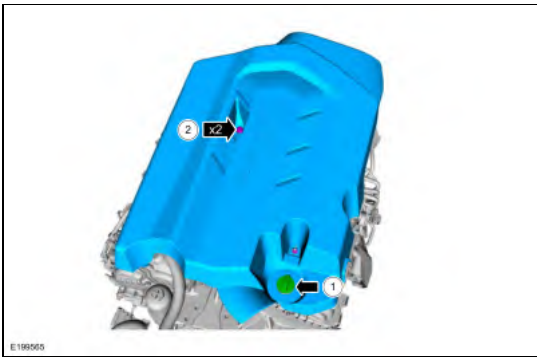
12. Inspect the O-ring and replace if necessary.



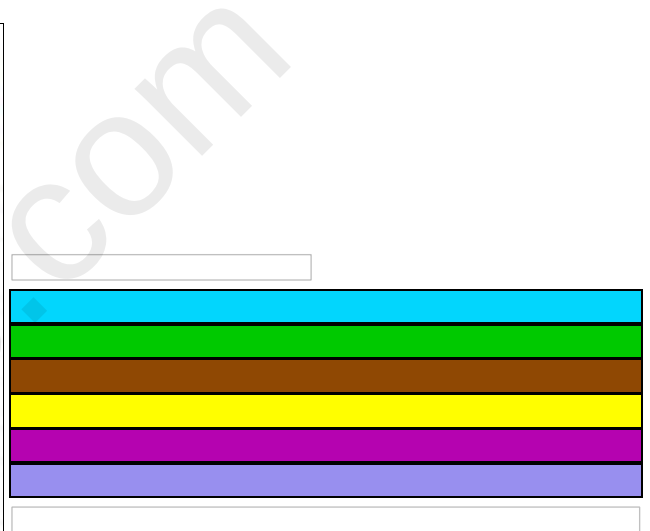
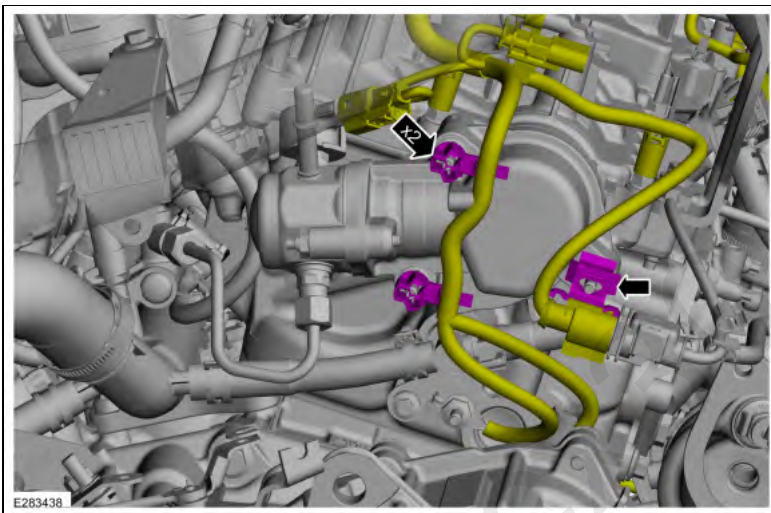
Right-hand (RH) side

13. 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).

- 14.
1. Remove the oil filler cap.
 2. Remove the fasteners and the engine appearance cover.

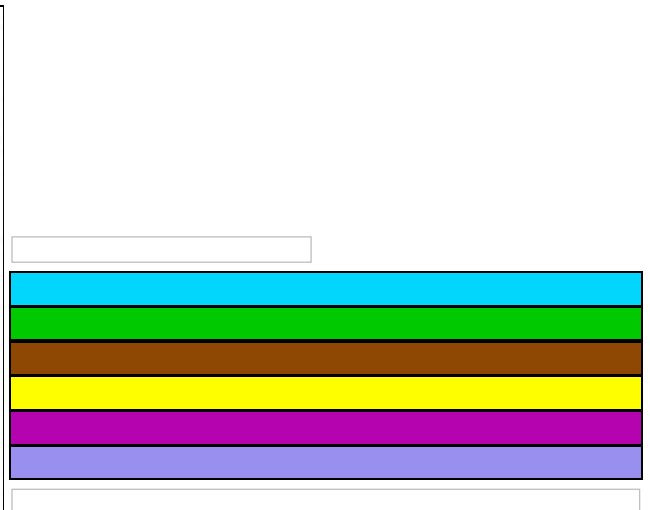
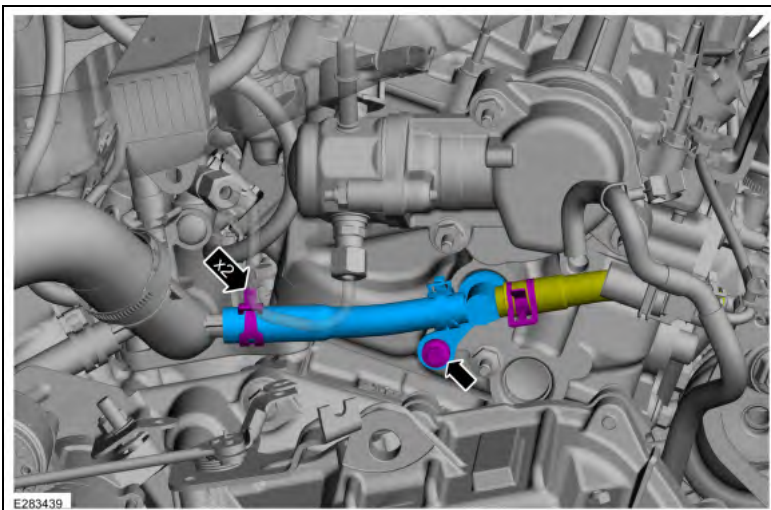


15. Remove the air cleaner.
Refer to: Air Cleaner (303-12B Intake Air Distribution and Filtering - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
16. Remove the RH air cleaner outlet pipe.
Refer to: Air Cleaner Outlet Pipe RH (303-12B Intake Air Distribution and Filtering - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
17. Remove the LH air cleaner outlet pipe.
Refer to: Air Cleaner Outlet Pipe LH (303-12B Intake Air Distribution and Filtering - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
18. Remove the transmission fluid cooler.
Refer to: Transmission Fluid Cooler (307-02B Transmission Cooling - 8-Speed Automatic Transmission 8F57, Removal and Installation).
19. Detach the wiring harness retainers.

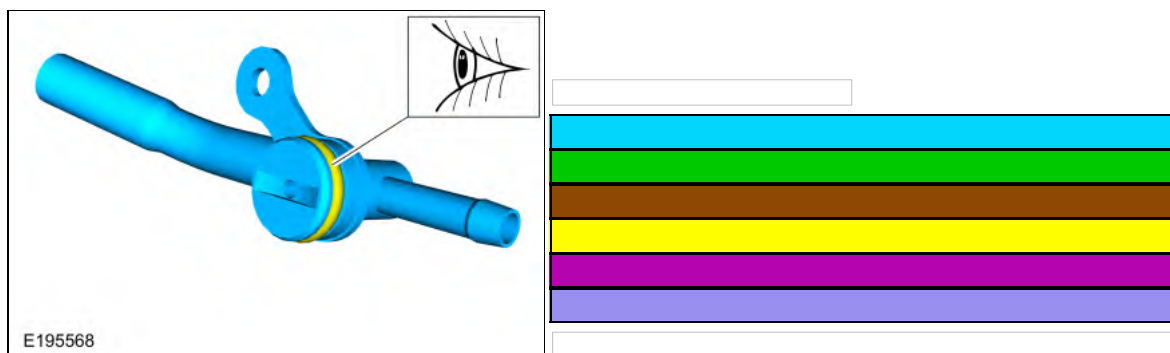


20. **NOTE:** Do not pry the cylinder head to coolant outlet connector behind the fastener bracket. If necessary use gripping pliers to pull the cylinder head to coolant outlet connector from the cylinder head.

Release the hose clamps and disconnect the coolant hoses. Remove the bolt and the cylinder head to coolant outlet connector hose assembly.
Use the General Equipment: Hose Clamp Remover/Installer
Torque: 89 lb.in (10 Nm)

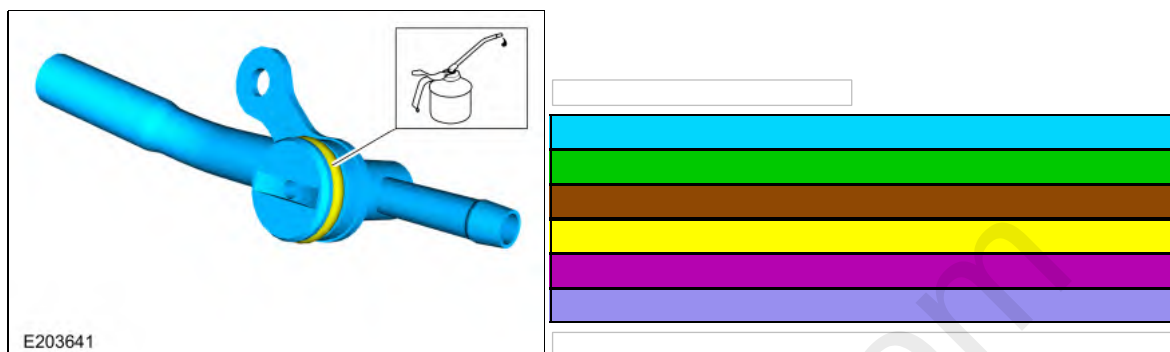


21. Inspect the O-ring and replace if necessary.



Installation

1. Lubricate the O-ring seal with clean engine coolant.
Refer to: Specifications (303-03B Engine Cooling - 2.7L EcoBoost (238kW/324PS), Specifications).



2. To install, reverse the removal procedure.
3. Fill and bleed the cooling system.
Refer to: Engine Cooling System Draining, Vacuum Filling and Bleeding (303-03B Engine Cooling - 2.7L EcoBoost (238kW/324PS), General Procedures).
4. Check and fill the transmission fluid as necessary.
Refer to: Transmission Fluid Level Check (307-01A Automatic Transmission - 8-Speed Automatic Transmission 8F35/8F40, General Procedures).

Degas Bottle

Special Tool(s) / General Equipment

Fluid Suction Gun
Locking Pliers

Removal

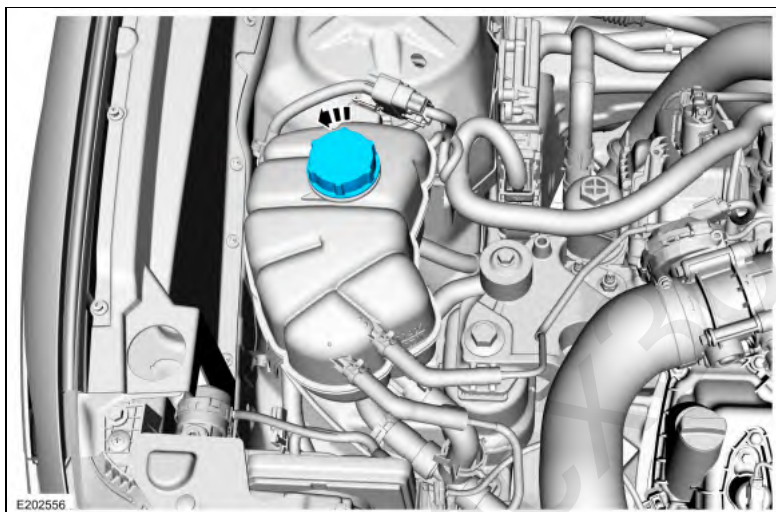
⚠ **WARNING:** Always allow the engine to cool before opening the cooling system. Do not unscrew the coolant pressure relief cap when the engine is operating or the cooling system is hot. The cooling system is under pressure; steam and hot liquid can come out forcefully when the cap is loosened slightly. Failure to follow these instructions may result in serious personal injury.

NOTE: Removal steps in this procedure may contain installation details.

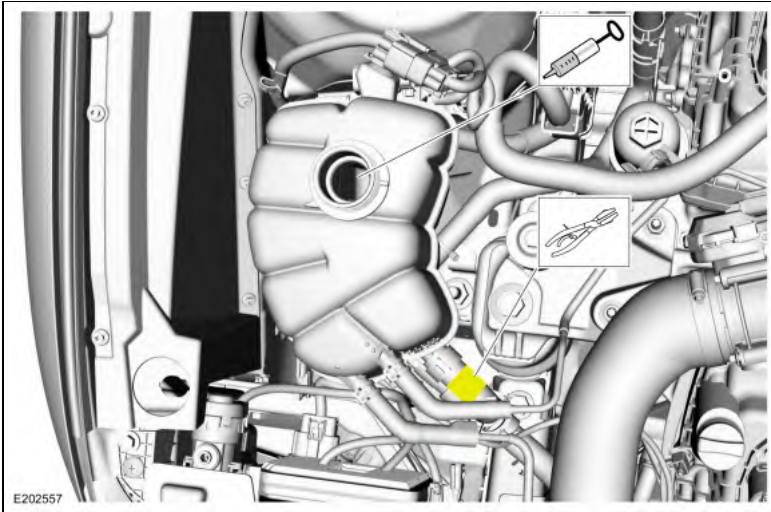


⚠ **WARNING:** When releasing the cooling system pressure, cover the coolant expansion tank cap with a thick cloth.

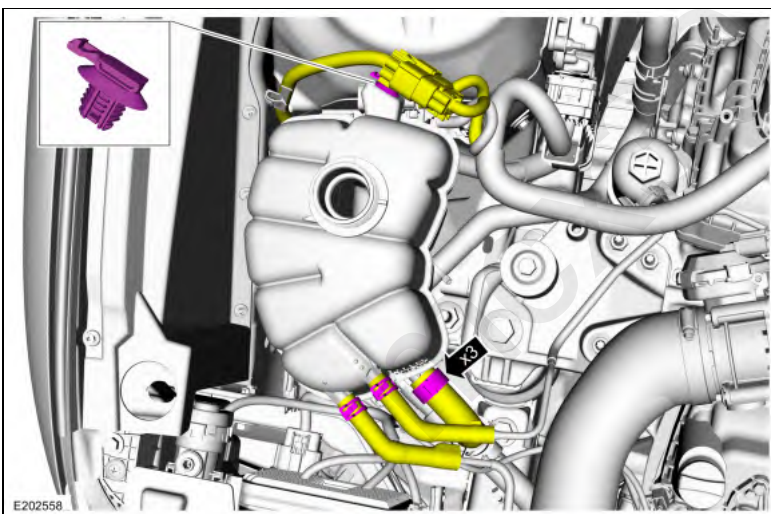
Release the cooling system pressure by slowly turning the degas bottle cap between 2 and 3 turns and remove the degas bottle cap.



2. Using general tools clamp the lower expansion tank hose and syphon the engine coolant from the expansion tank.
Use the General Equipment: Fluid Suction Gun
Use the General Equipment: Locking Pliers



- Release the clamps, disconnect the coolant hoses. Detach the electrical connector pin-type retainer.
 Use the General Equipment: Fluid Suction Gun
 Use the General Equipment: Locking Pliers



- Remove the bolt, release the locking retainer and remove the degas bottle.