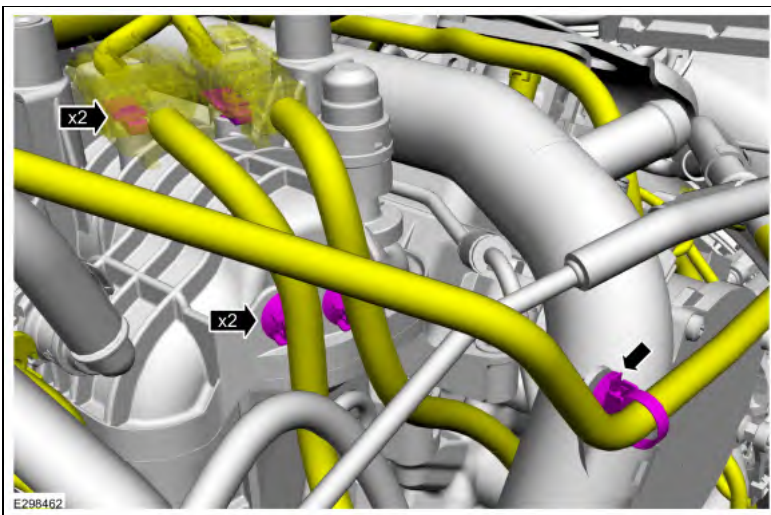
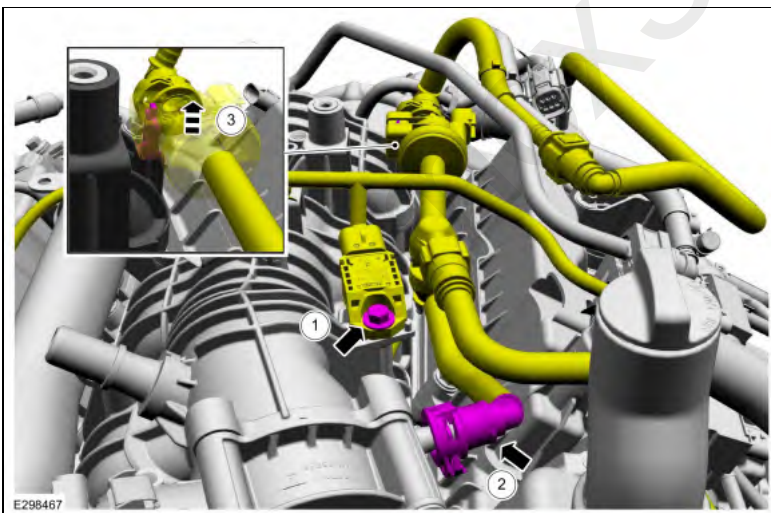
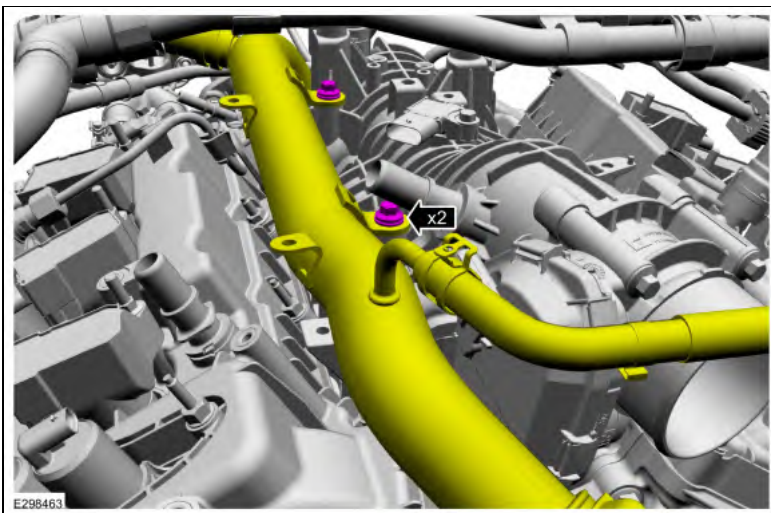




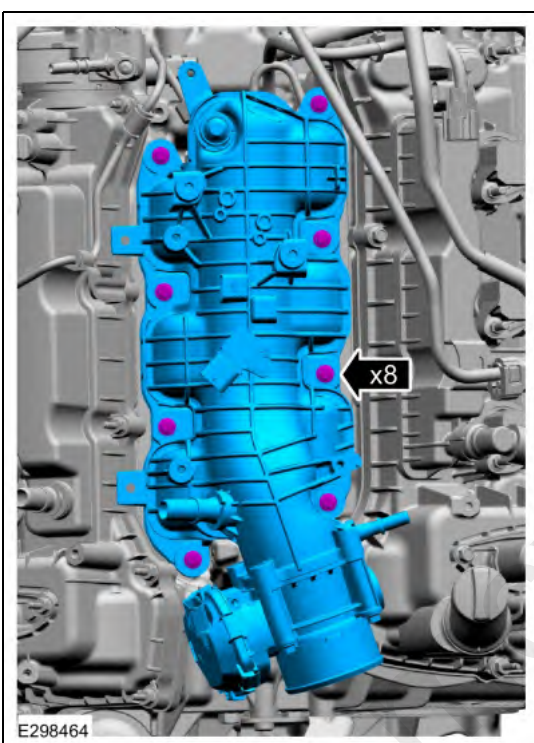
- 8.
1. Remove the bolt and position the vacuum pressure sensor aside.
 2. Disconnect the EVAP purge valve quick release coupling.
Refer to: Quick Release Coupling (310-00B) .
 3. Slide the EVAP purge valve off of the bracket.



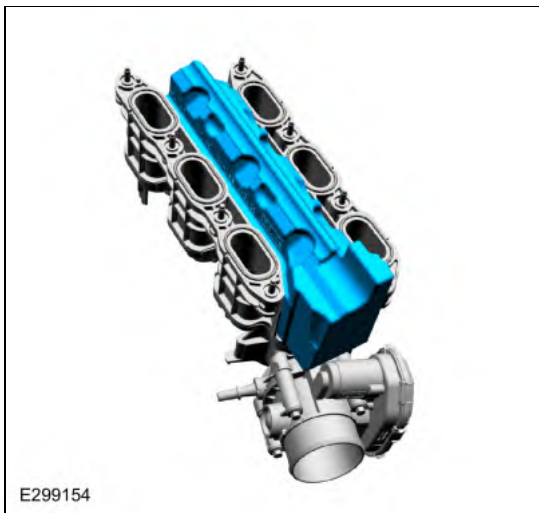
9. Remove the bolts and position the coolant pipe aside.
Torque: 97 lb.in (11 Nm)

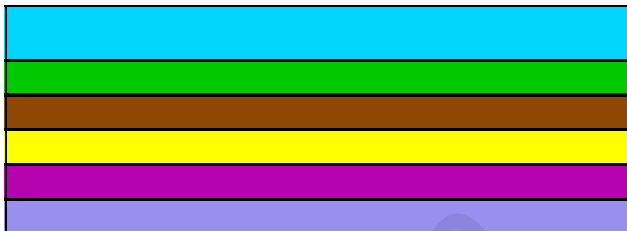


- 10.
1. Loosen the intake manifold bolts.
 2. Remove the intake manifold.



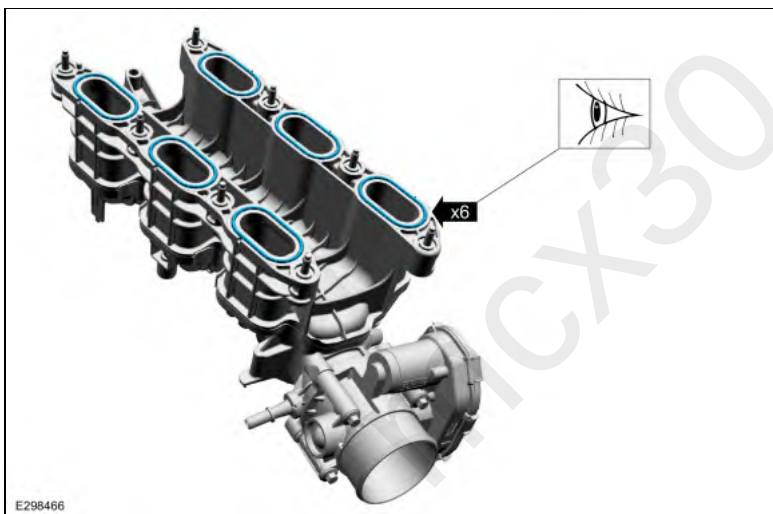
11. Remove the insulator.

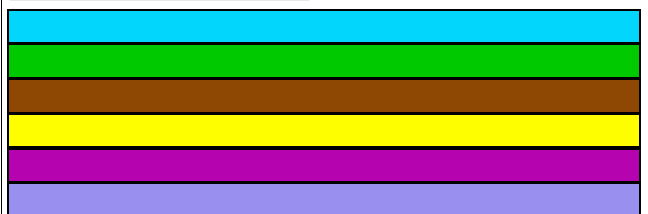




12.

- Remove and inspect the gaskets, replace as necessary.
- Clean and inspect all sealing surfaces.





Installation

NOTICE: If the engine is repaired or replaced because of upper engine failure, typically including valve or piston damage, check the intake manifold for metal debris. If metal debris is found, install a new intake manifold. Failure to follow these instructions can result in engine damage.

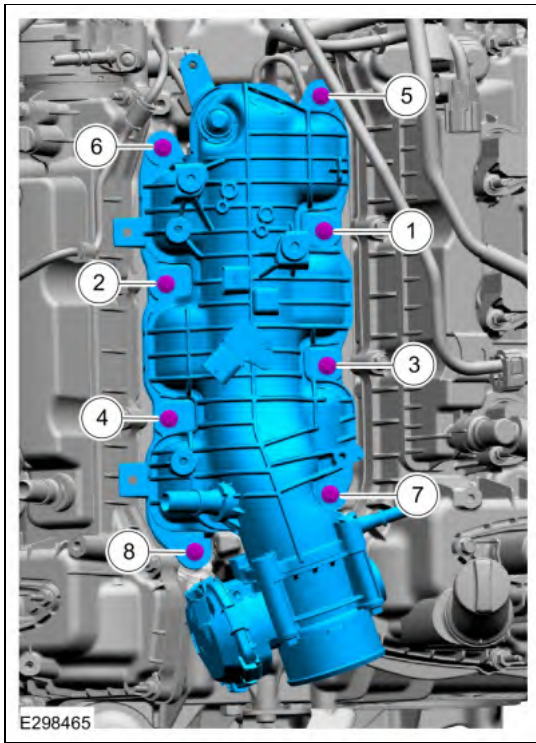
1. To install, reverse the removal procedure.

2. Tighten the bolts in 2 stages.

Torque:

Stage 1: Bolts 1 through 8 in sequence:: 44 lb.in (5 Nm)

Stage 2: Bolts 8 through 1 in reverse sequence:: 89 lb.in (10 Nm)



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Oil Cooler

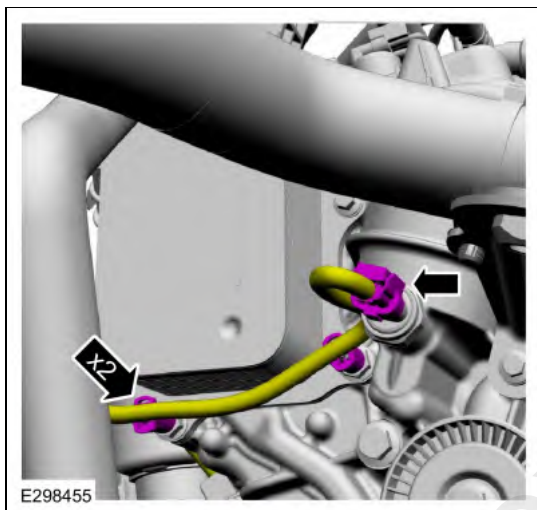
Special Tool(s) / General Equipment

Hose Clamp Remover/Installer
Locking Pliers

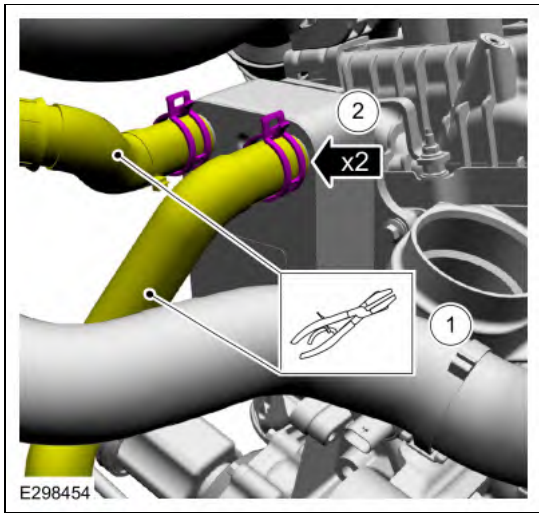
Removal

NOTICE: During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces, that enters the oil passages, coolant passages or the oil pan, can cause engine failure.

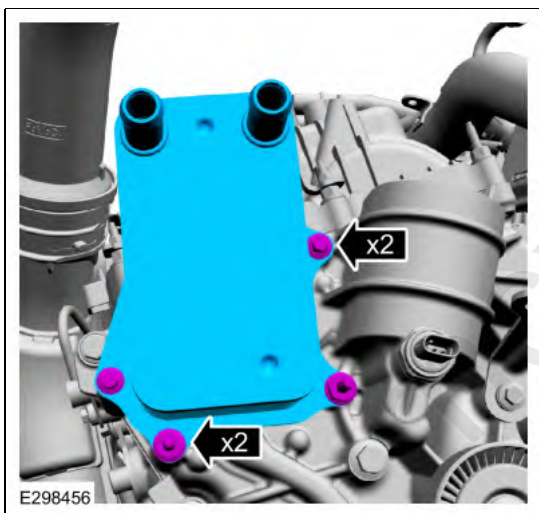
1. Remove the air cleaner assembly.
Refer to: Air Cleaner (303-12B Intake Air Distribution and Filtering - 3.0L EcoBoost, Removal and Installation).
2. Remove the engine oil filter and drain the engine oil.
Refer to: Engine Oil Draining and Filling (303-01B Engine - 3.0L EcoBoost, General Procedures).
3.
 - Disconnect the oil pressure sensor electrical connector.
 - Detach the wiring harness retainers.



4.
 - Using hose locking pliers, clamp the oil cooler coolant hoses.
Use the General Equipment: Locking Pliers
 - Disconnect the coolant hoses.
Use the General Equipment: Hose Clamp Remover/Installer



5. Remove the fasteners and the oil cooler.



6. Remove and discard the gasket.