

Radiator

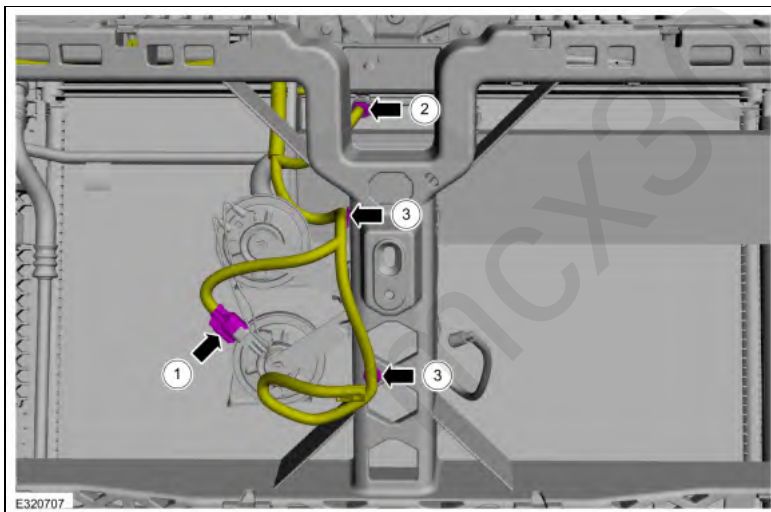
Special Tool(s) / General Equipment

Hose Clamp Remover/Installer

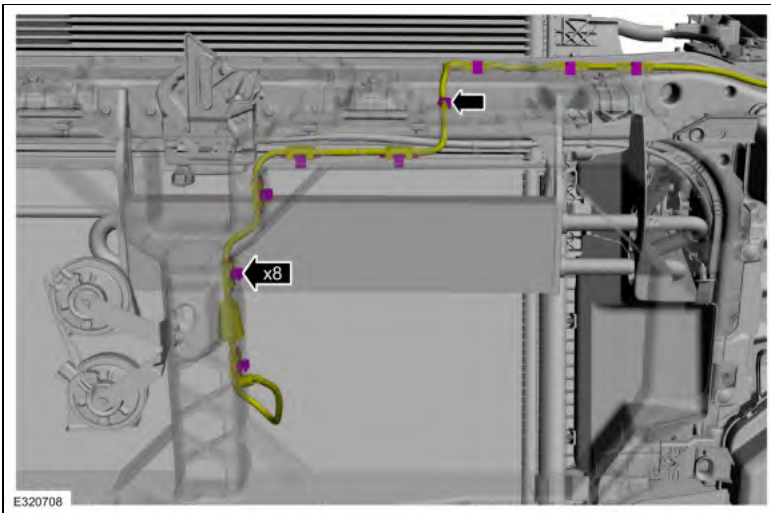
Removal

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

1. Drain the powertrain secondary cooling system.
Refer to: Engine Cooling System Draining, Vacuum Filling and Bleeding (303-03C Powertrain Secondary Cooling - 6.7L Power Stroke Diesel, General Procedures).
2. Evacuate the A/C system.
Refer to: Air Conditioning (A/C) System Recovery, Evacuation and Charging (412-00 Climate Control System - General Information, General Procedures).
3. Remove both headlamp assemblies.
Refer to: Headlamp Assembly (417-01 Exterior Lighting, Removal and Installation).
4. Remove the air cleaner.
Refer to: Air Cleaner (303-12B Intake Air Distribution and Filtering - 6.7L Power Stroke Diesel, Removal and Installation).
5. Remove the air cleaner outlet pipe.
Refer to: Air Cleaner Outlet Pipe (303-12B Intake Air Distribution and Filtering - 6.7L Power Stroke Diesel, Removal and Installation).
6.
 1. All Vehicles.
Disconnect the horn electrical connector.
 2. Vehicles Equipped With Hood Ajar Switch.
Disconnect the electrical connector.
 3. Vehicles Not Equipped With Hood Ajar Switch.
Detach the wiring harness retainers.



7. Detach the pin-type retainer, release the clips and position the washer fluid hose aside.

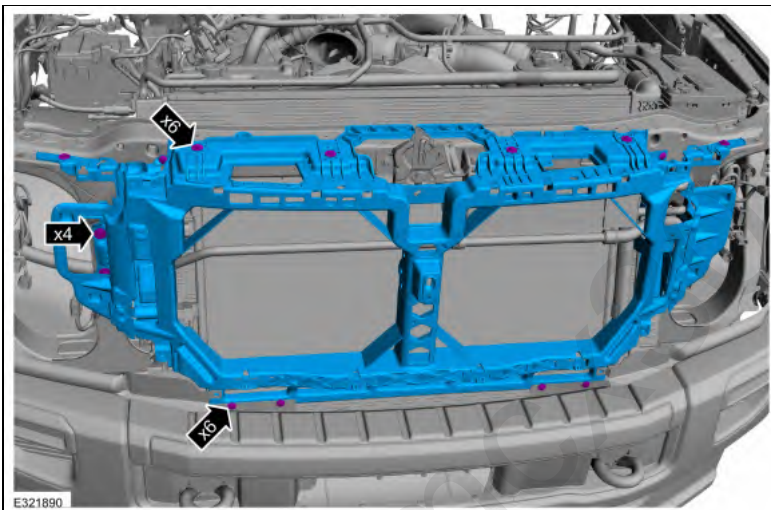


8. Remove the bolts, push-pins and the radiator grille bracket.

Torque:

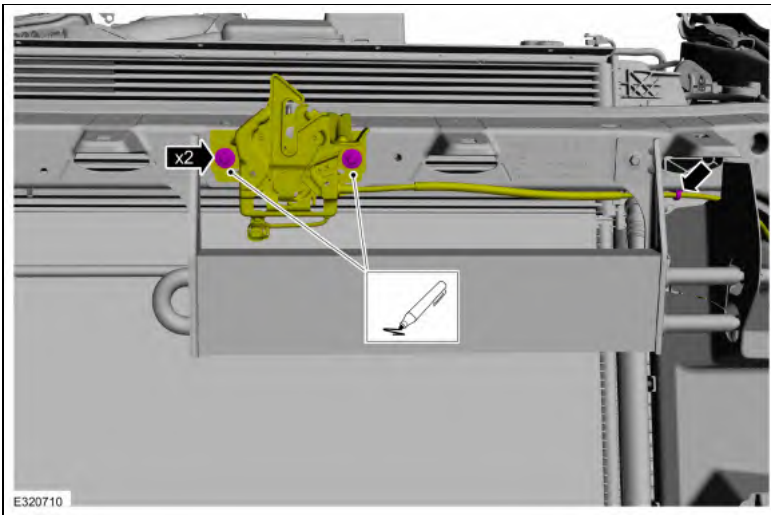
Stage 1: 62 lb.in (7 Nm)

Stage 2: 22 lb.ft (30 Nm)



9.

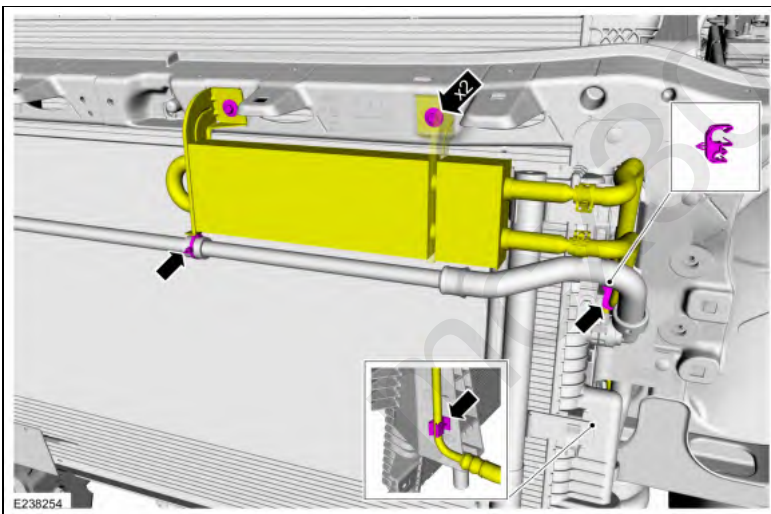
- Mark the hood latch.
 - Remove the bolts, detach the retainer and position the hood latch aside.
- Torque: 26 lb.ft (35 Nm)*

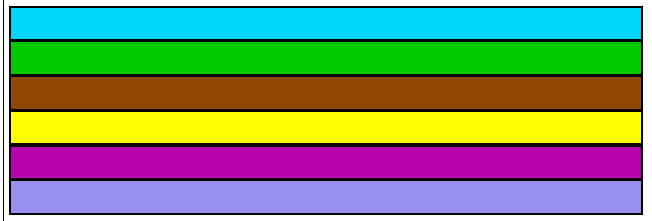




10.

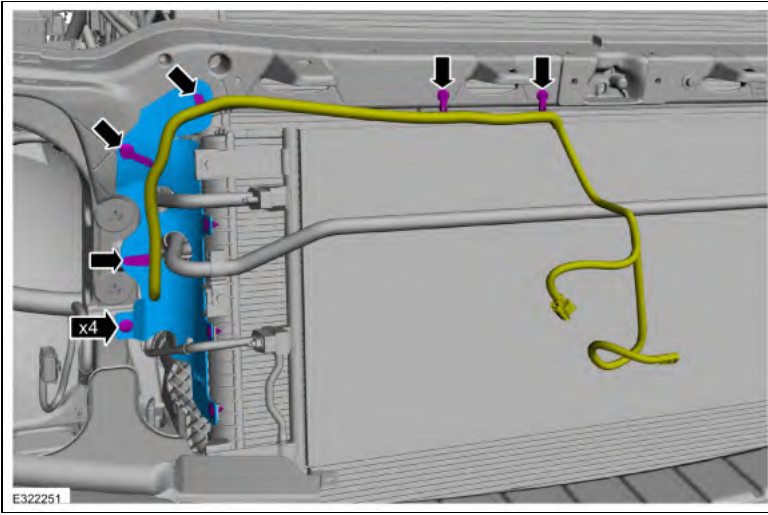
- Detach the power steering cooler hose retainers from the primary radiator.
- Remove the bolts and position the power steering cooler aside.
Torque: 97 lb.in (11 Nm)



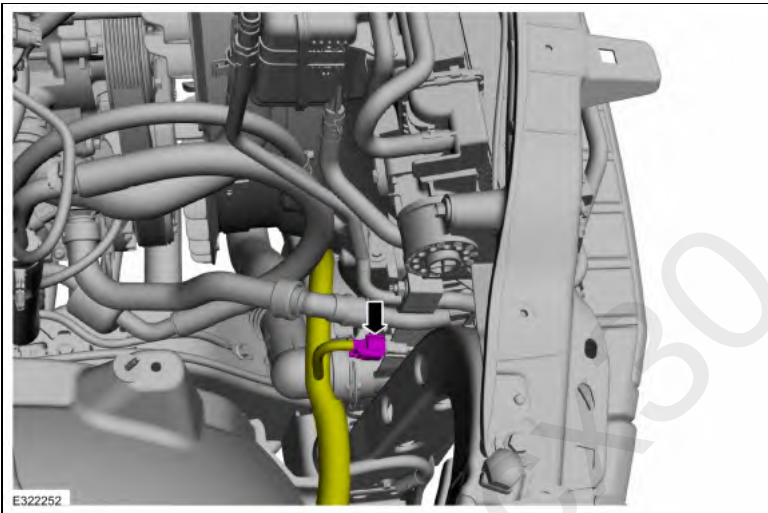


11.

- Detach the wiring harness retainers.
- Remove the pin-type retainers and the RH air deflector.



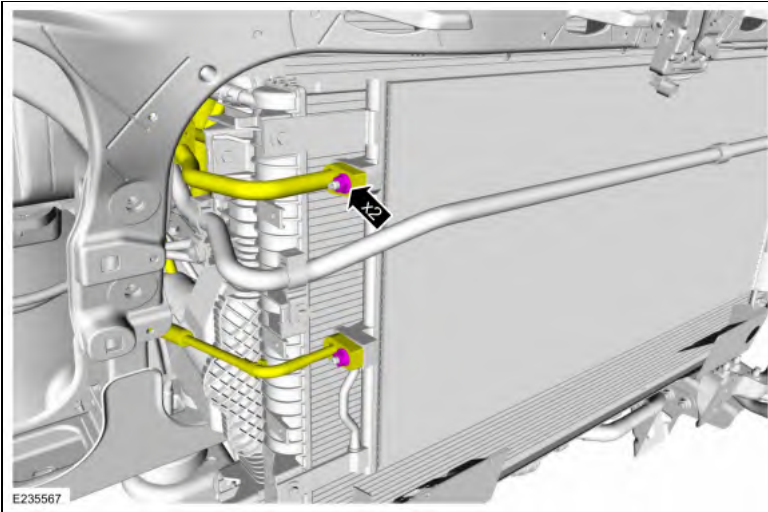
12. Disconnect the electrical connector.



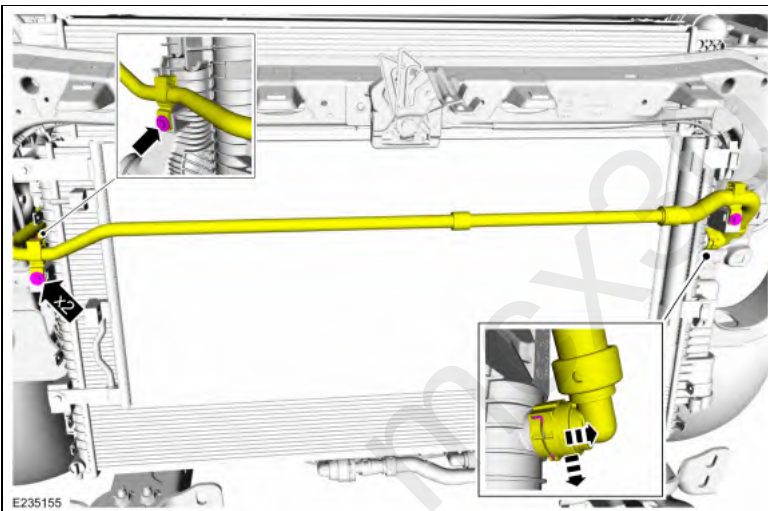
13. **NOTICE:** During the removal of components, cap, tape or otherwise appropriately protect all openings to prevent the ingress of dirt or other contamination. Remove protective materials prior to installation.

Remove the condenser inlet, outlet nuts and disconnect the fittings.

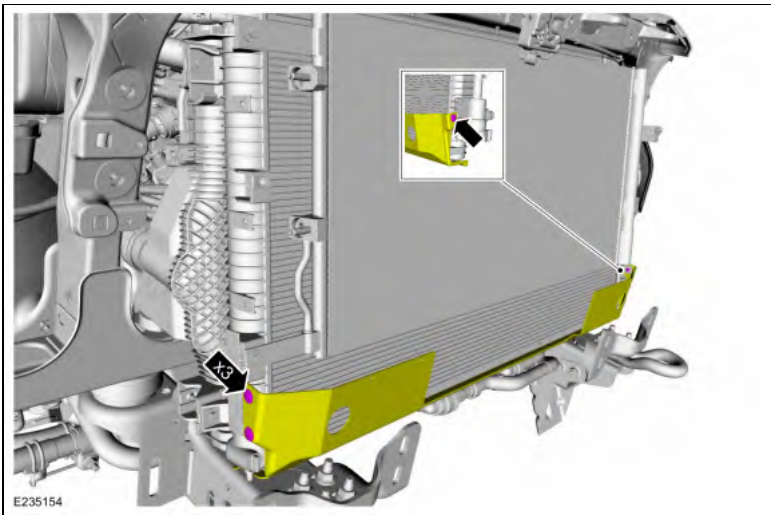
- Make sure to cover any open ports to prevent debris from entering the system.
Torque: 159 lb.in (18 Nm)



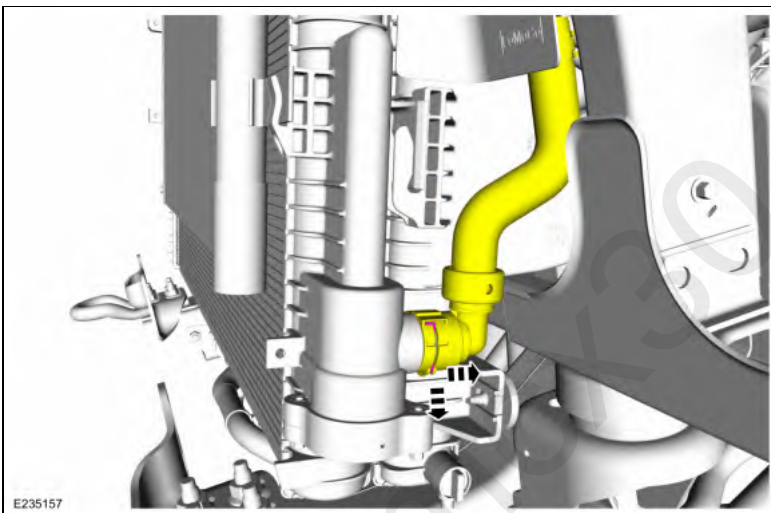
14.
 - Pull the radiator hose to coolant pump spring clip until the end of the clip is in the detent on the quick connect coupling and disconnect the radiator hose.
 - Remove the bolts and position the coolant hose aside.



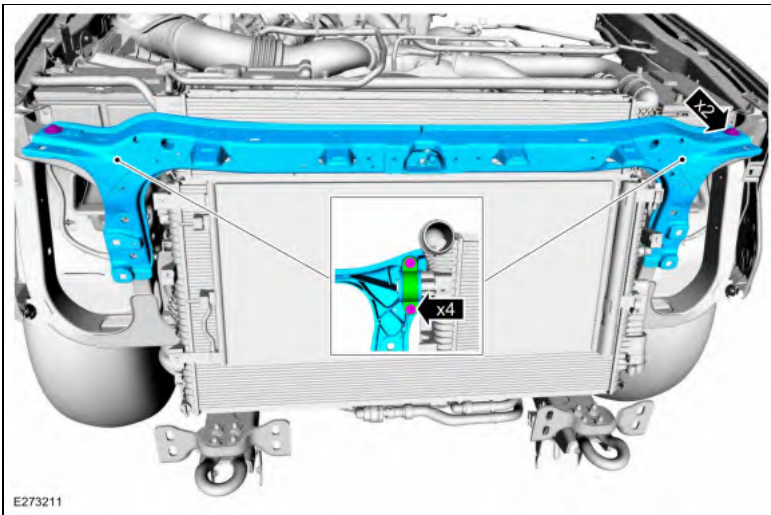
15. Detach the air deflector pin-type retainers.



16. Pull the radiator to CAC hose spring clip until the end of the clip is in the detent on the quick connect coupling and disconnect the radiator to CAC hose.

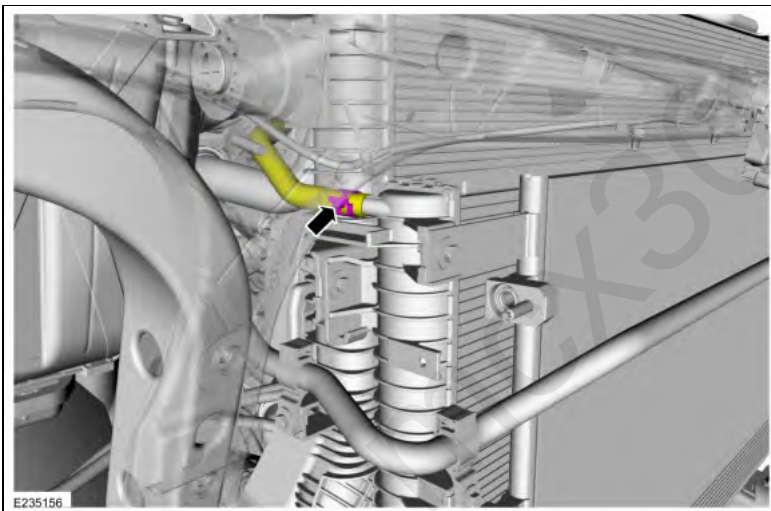


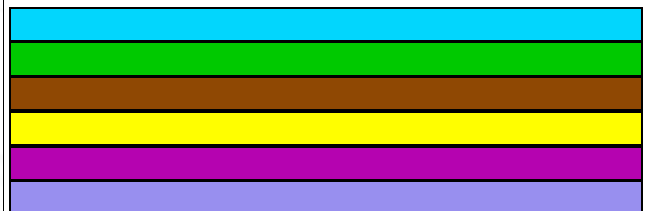
17. Remove the bolts, the radiator brackets and the radiator core support.
Torque: 26 lb.ft (35 Nm)



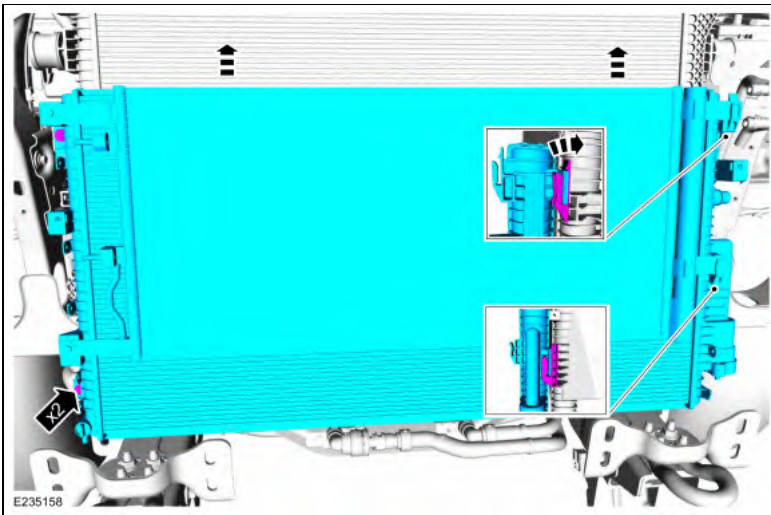


18. Release the clamp and disconnect the radiator to degas bottle bypass hose.
Use the General Equipment: Hose Clamp Remover/Installer



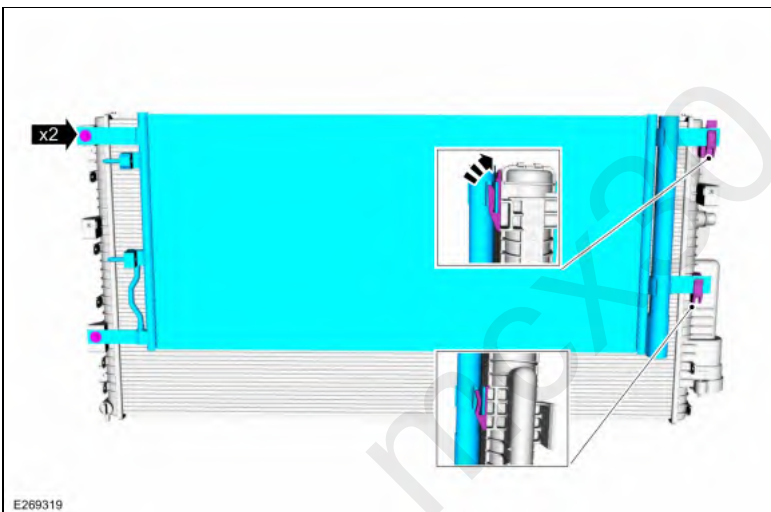


19. Remove the bolts, release the tab and remove the secondary radiator and condenser.
Torque: 97 lb.in (11 Nm)



20. **NOTE:** This step is only necessary when installing a new component.

Remove the bolts, release the tab and remove the A/C condenser.
Torque: 89 lb.in (10 Nm)



Installation

1. To install, reverse the removal procedure.
2. **NOTICE:** Only use the specified material to lubricate the seals.

Install new condenser fitting O-ring seals.
Refer to: Specifications (412-00 Climate Control System - General Information, Specifications).

NOTICE: Evaluate the cooling system condition before filling the cooling system. Failure to follow these instructions can damage the engine.

3. Evaluate the cooling system condition.
Refer to: Engine Cooling System Condition Evaluation (303-03C Powertrain Secondary Cooling - 6.7L Power Stroke Diesel, General Procedures).
4. Evacuate and charge the A/C system
Refer to: Air Conditioning (A/C) System Recovery, Evacuation and Charging (412-00 Climate Control System - General Information, General Procedures).

