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2000 FORD Mustang Convertible OEM Service and Repair Workshop Manual

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Cooling Module

303-03E Engine Cooling - 5.0L 32V Ti-VCT	2022 F-150
Removal and Installation	Procedure revision date: 11/3/2022

Cooling Module

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. With the vehicle in N (Neutral) , position it on a hoist.

Refer to: [Jacking and Lifting - Overview](#)(100-02 Jacking and Lifting, Description and Operation).

2. Drain the cooling system.

Refer to: [Engine Cooling System Draining, Vacuum Filling and Bleeding](#)(303-03E Engine Cooling - 5.0L 32V Ti-VCT, General Procedures).

3. Evacuate the A/C (air conditioning) system.

Refer to: [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging](#)(412-00 Climate Control System - General Information, General Procedures).

4. Remove the air cleaner outlet pipe.

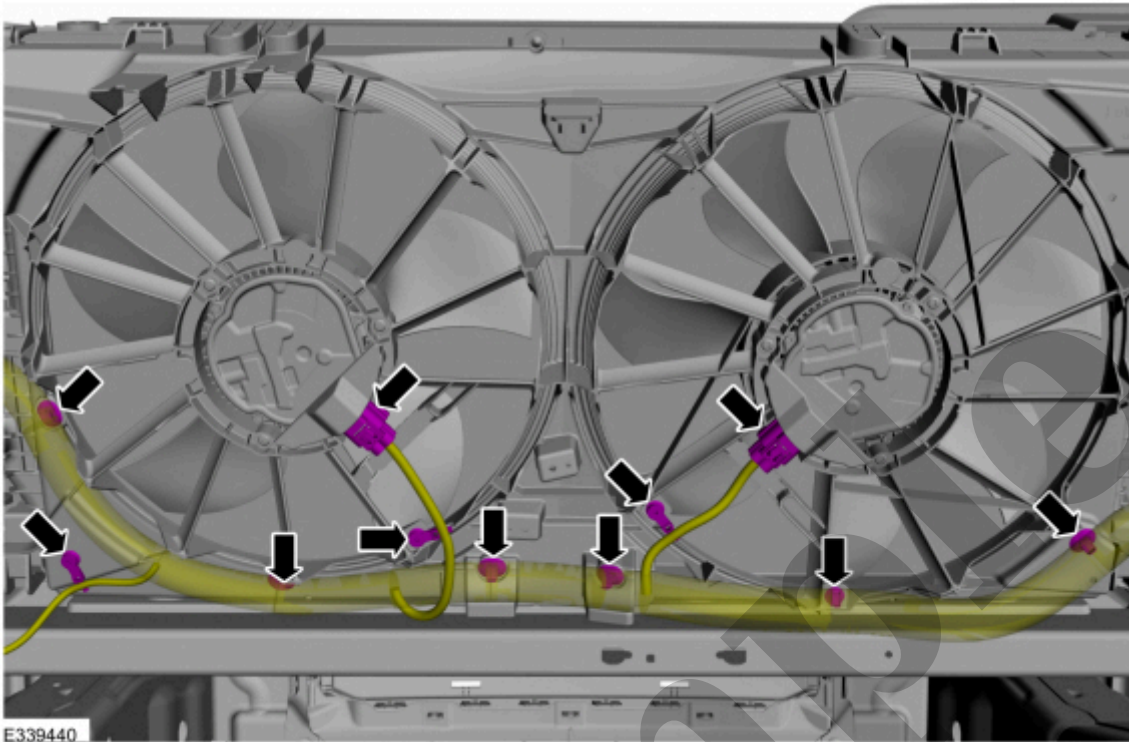
Refer to: [Air Cleaner Outlet Pipe](#)(303-12E Intake Air Distribution and Filtering - 5.0L 32V Ti-VCT, Removal and Installation).

5. Remove the air cleaner.

Refer to: [Air Cleaner](#)(303-12E Intake Air Distribution and Filtering - 5.0L 32V Ti-VCT, Removal and Installation).

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8. Disconnect the electrical connectors, detach the pin-type retainers and position the wiring harness aside.



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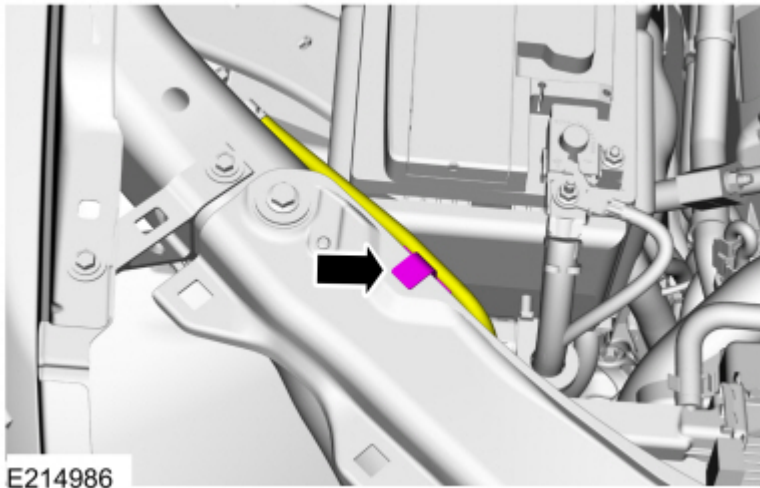
9. On both sides.

Remove the headlamp assembly.

Refer to: [Headlamp Assembly](#)(417-01 Exterior Lighting, Removal and Installation).

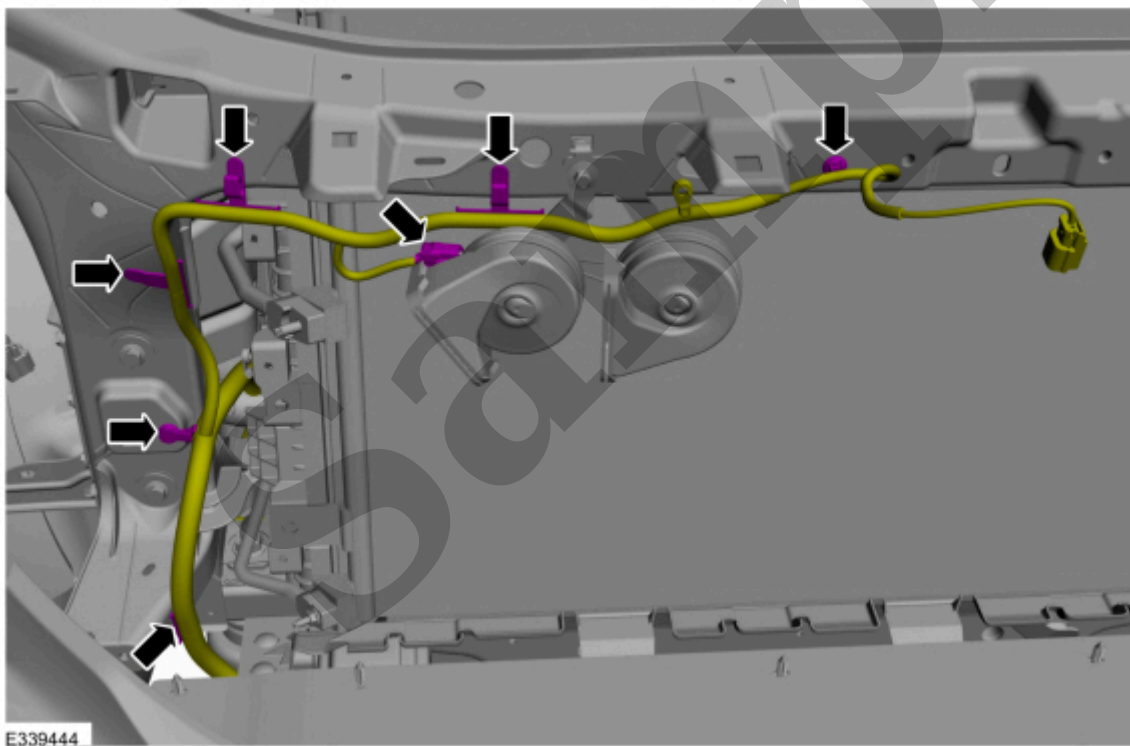
10.
 - Detach the hood latch cable retainer.
 - Remove the bolts and position the hood latch assembly aside.

Torque : 26 lb.ft (35 Nm)



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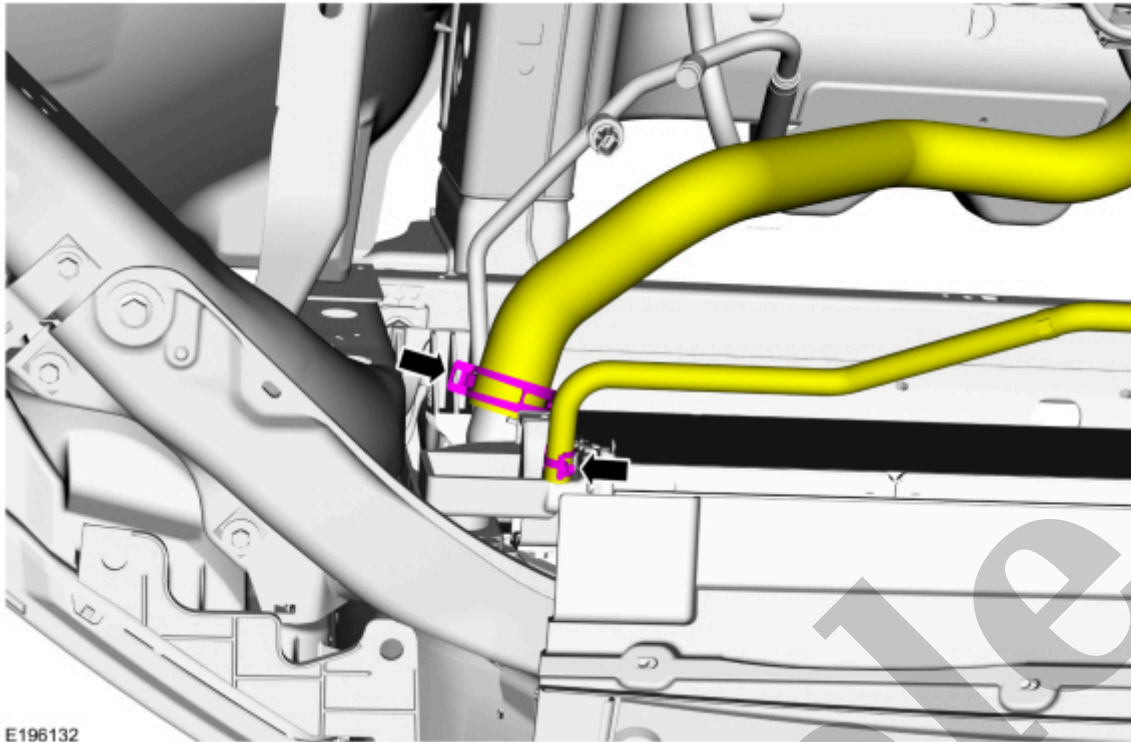
13. Disconnect the electrical connector. Detach the wiring harness retainers. Position the wiring harness between the radiator and the radiator grille support.



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14. NOTICE

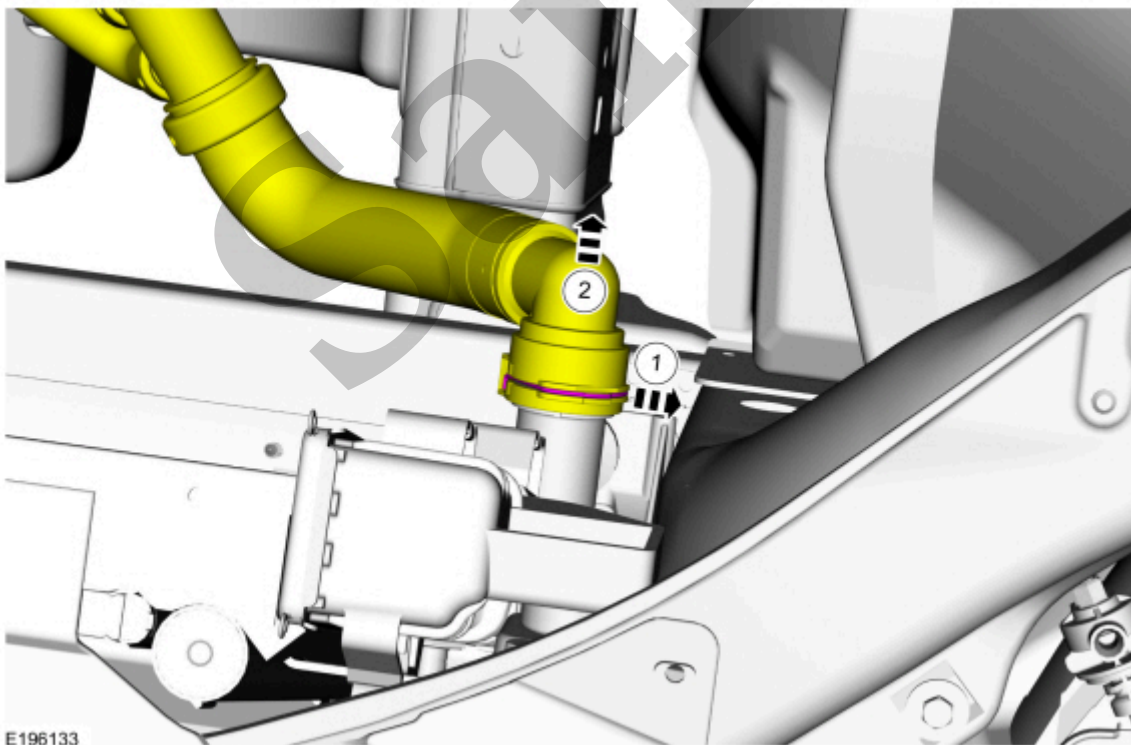
Make sure that all openings are sealed.



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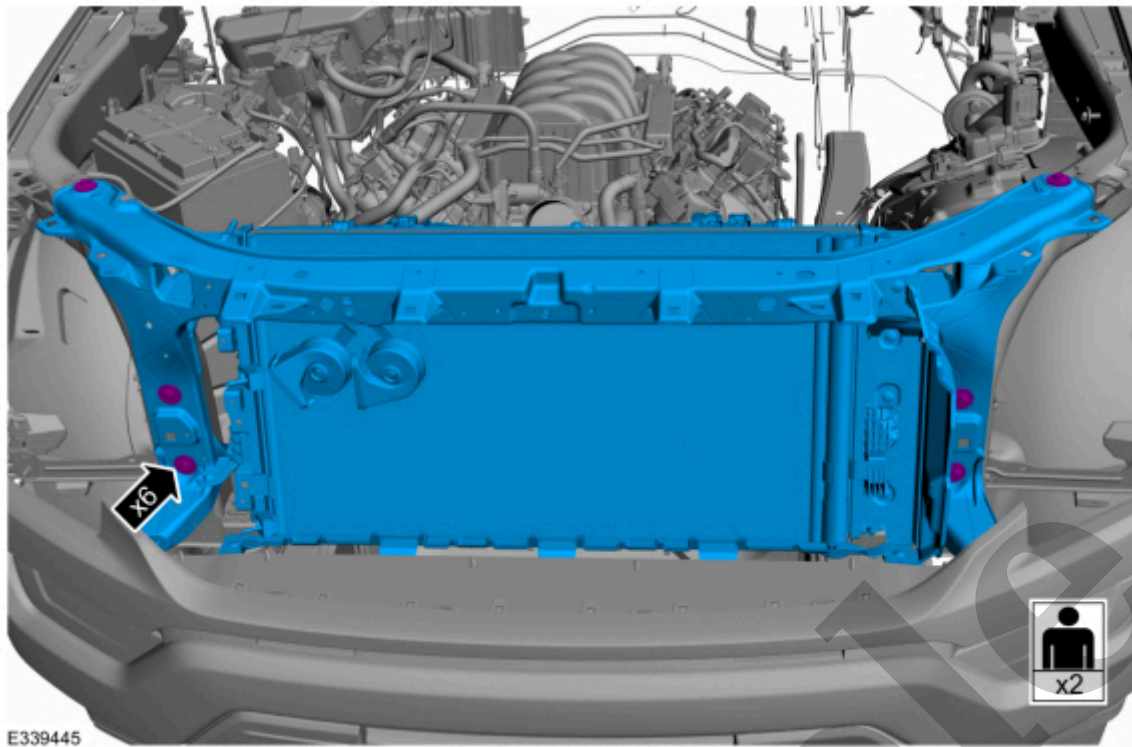
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16. Pull the lower radiator hose spring clip until the end of the clip is in the detent on the quick connect coupling and disconnect the lower radiator hose.



E196133

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

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.

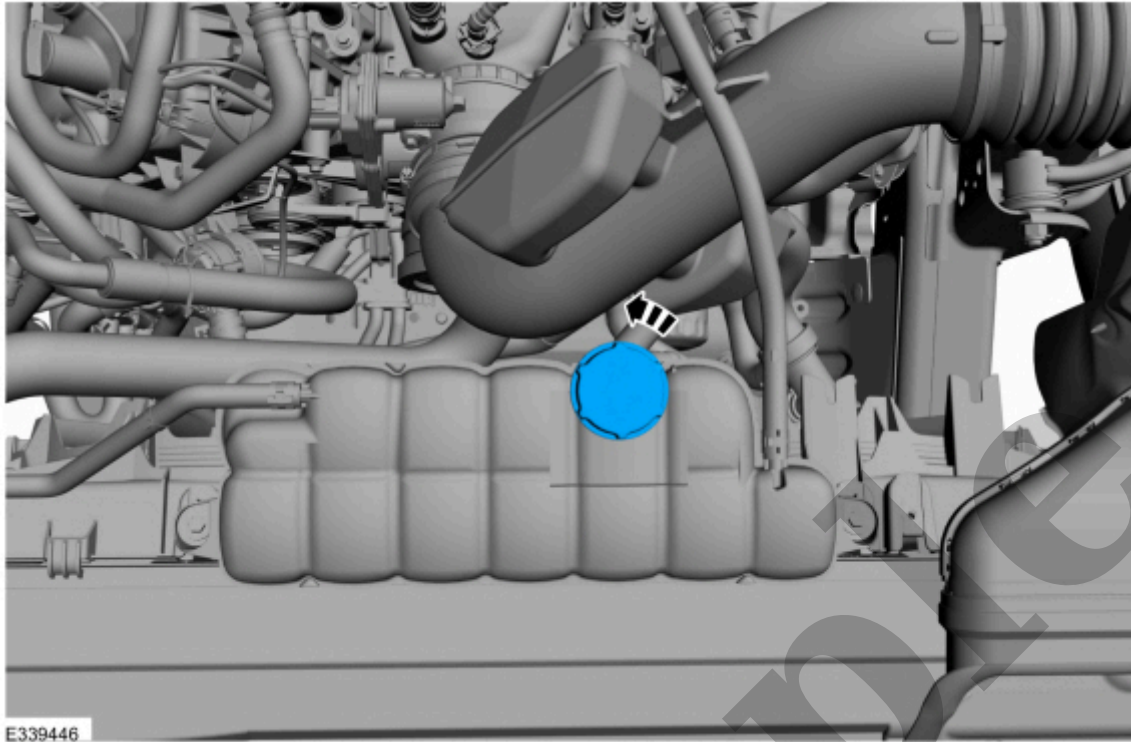
Refer to: [Specifications - Vehicles With: R1234YF Refrigerant](#)(412-00 Climate Control System - General Information, Specifications).

3. Fill and bleed the cooling system.

Refer to: [Engine Cooling System Draining, Vacuum Filling and Bleeding](#)(303-03E Engine Cooling - 5.0L 32V Ti-VCT, General Procedures).

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



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2. Using general tools, clamp the lower expansion tank hose and syphon the engine coolant from the expansion tank.

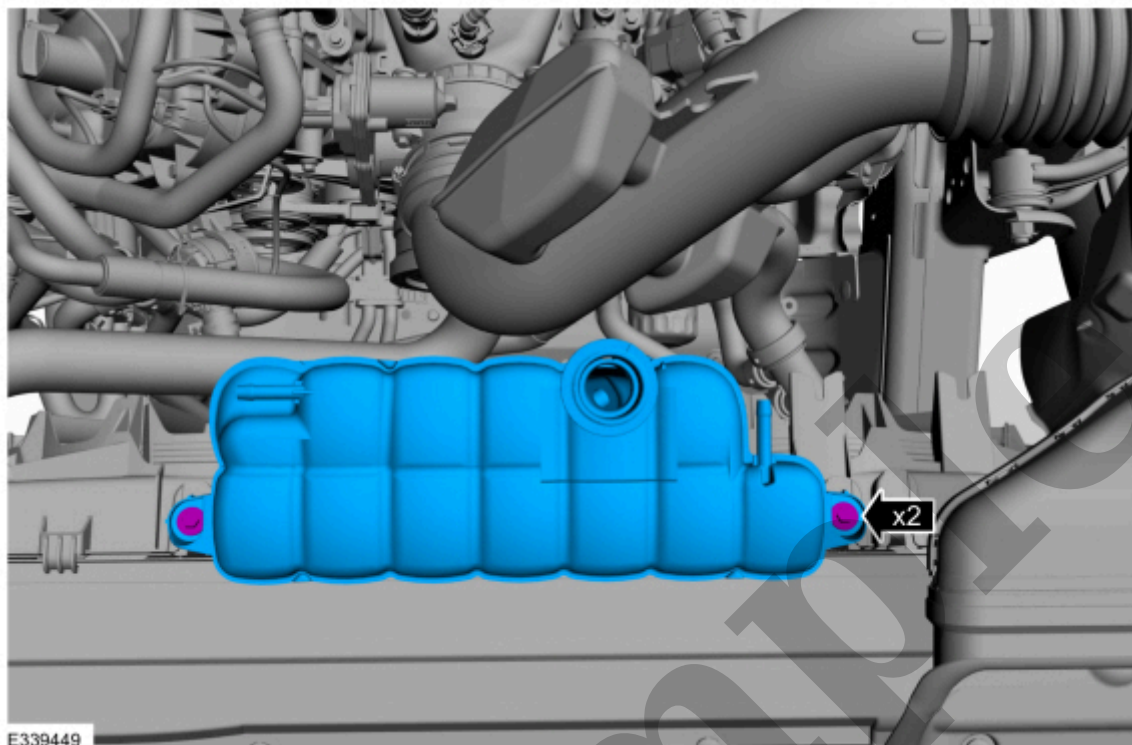
Use the General Equipment: Fluid Suction Gun

Use the General Equipment: Locking Pliers

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4. Remove the bolts and the degas bottle.

Torque : 62 lb.in (7 Nm)



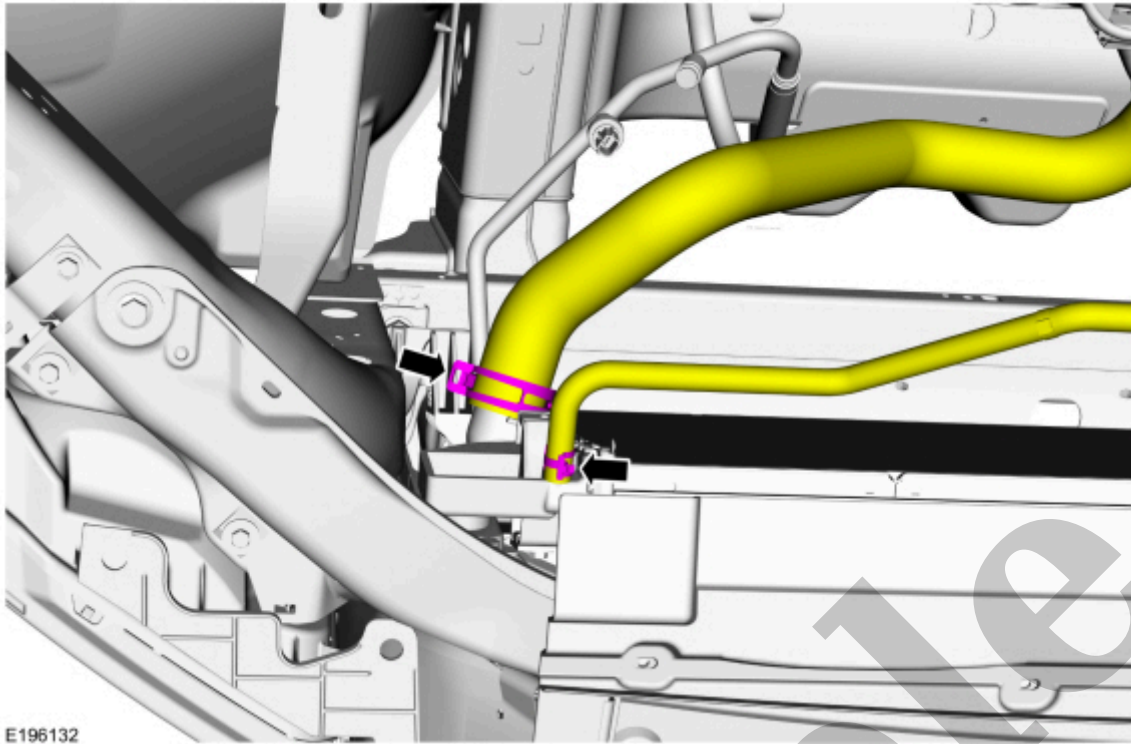
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Installation

1. To install, reverse the removal procedure.
2. Fill the degas bottle with the recommended coolant mixture and fill level.

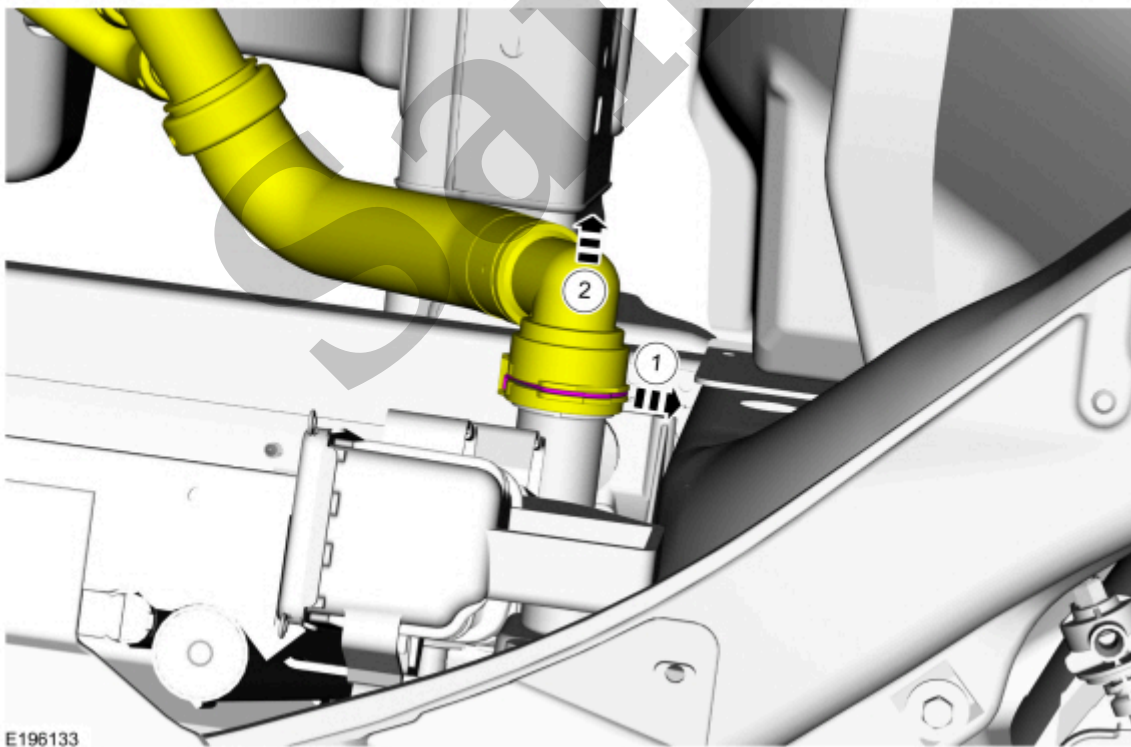
Refer to: [Specifications](#)(303-03E Engine Cooling - 5.0L 32V Ti-VCT, Specifications).

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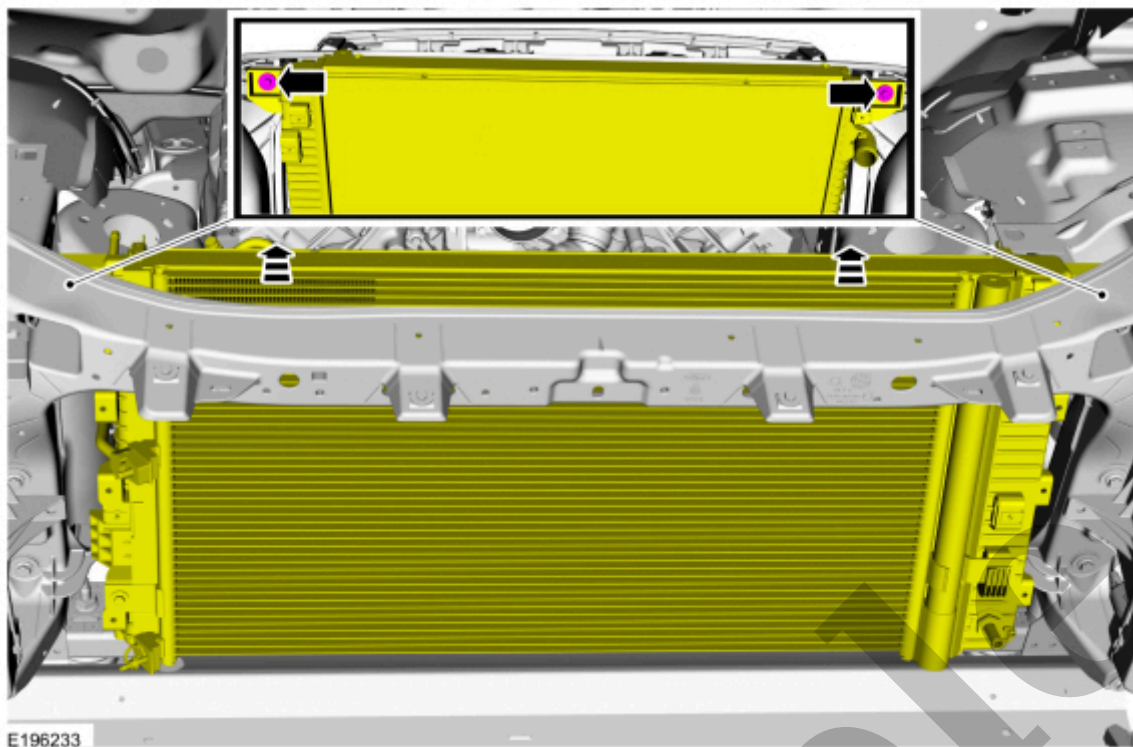


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4. Pull the lower radiator hose spring clip until the end of the clip is in the detent on the quick connect coupling and disconnect the lower radiator hose.



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8. **NOTE**

Components not shown for clarity.

Remove the condenser retainers.

Torque : 62 lb.in (7 Nm)