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1990 FORD Sierra Sedan OEM Service and Repair Workshop Manual

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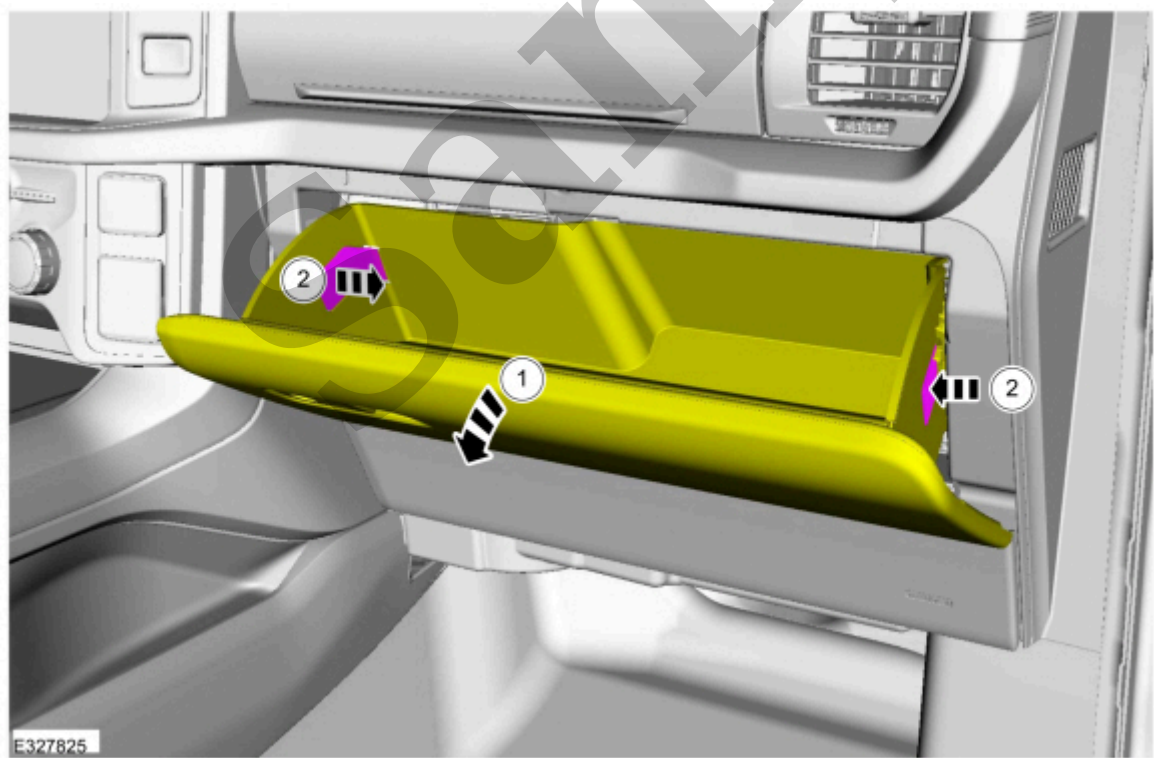
Cabin Air Filter

412-00 Climate Control System - General Information	2022 F-150
Removal and Installation	Procedure revision date: 10/2/2020

Cabin Air Filter

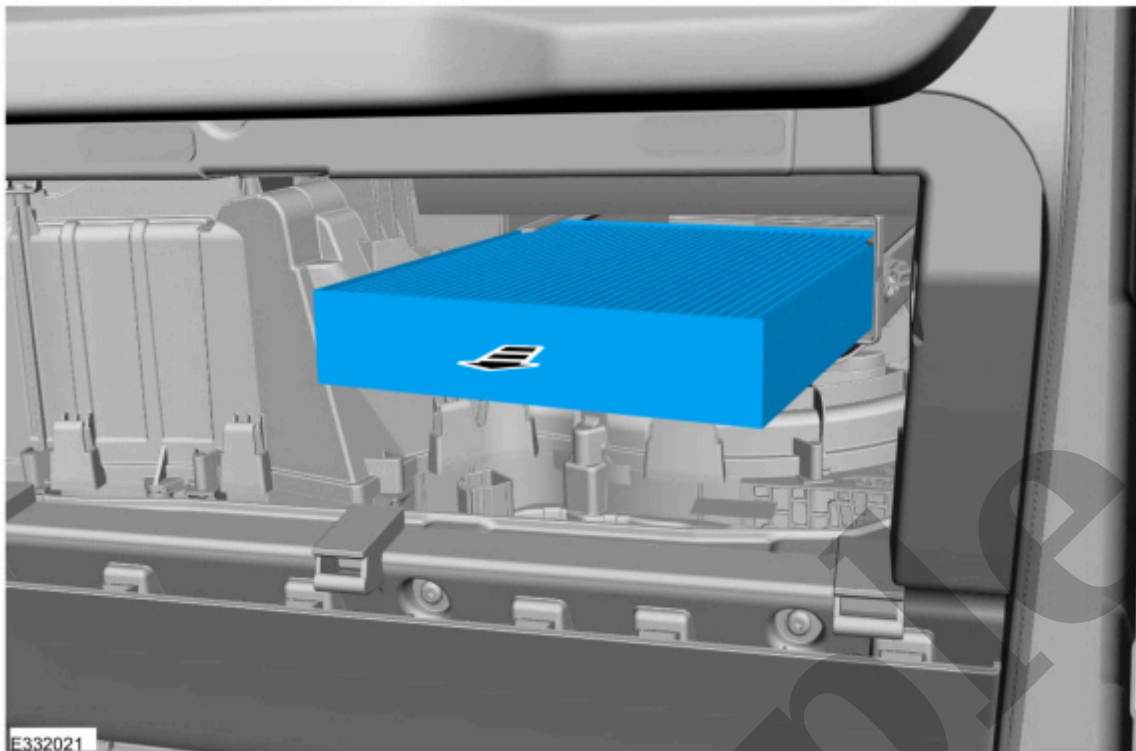
Removal

- 1. 1. Open the glove compartment.
- 2. 2. Depress the stop tabs inward.



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

4. Remove the cabin air filter.



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

Installation

1. To install, reverse the removal procedure.

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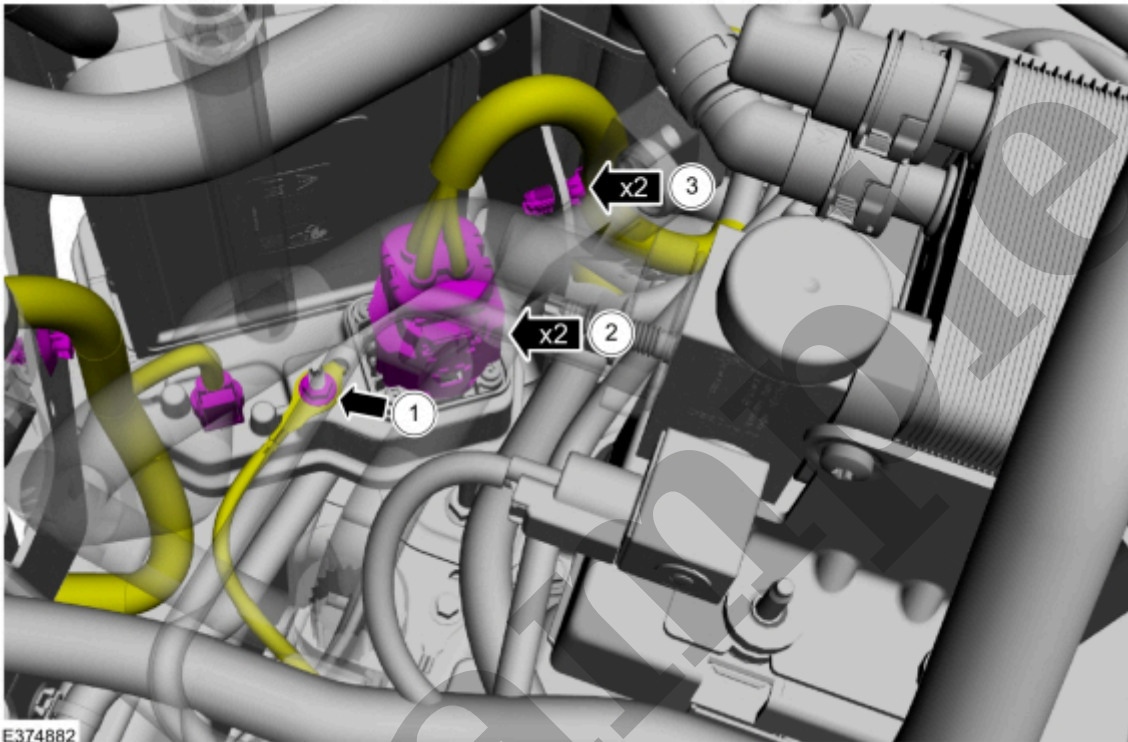
Refer to: Electrified Drivetrain Cooling System Draining, Vacuum Filling and Bleeding (302-03A Electrified Drivetrain Cooling, General Procedures).

4. 1. Remove the ground wire retainer.

Torque : 80 lb.in (9 Nm)

2. Disconnect the electrical connectors.

3. Detach the wiring harness routing clips and position aside the wiring harness.



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

5. NOTE

Be prepared to collect escaping fluid.

Clamp the coolant hoses and disconnect the inlet and outlet coolant hoses.

Use the General Equipment: Fluid Container

Use the General Equipment: Hose Clamp(s)

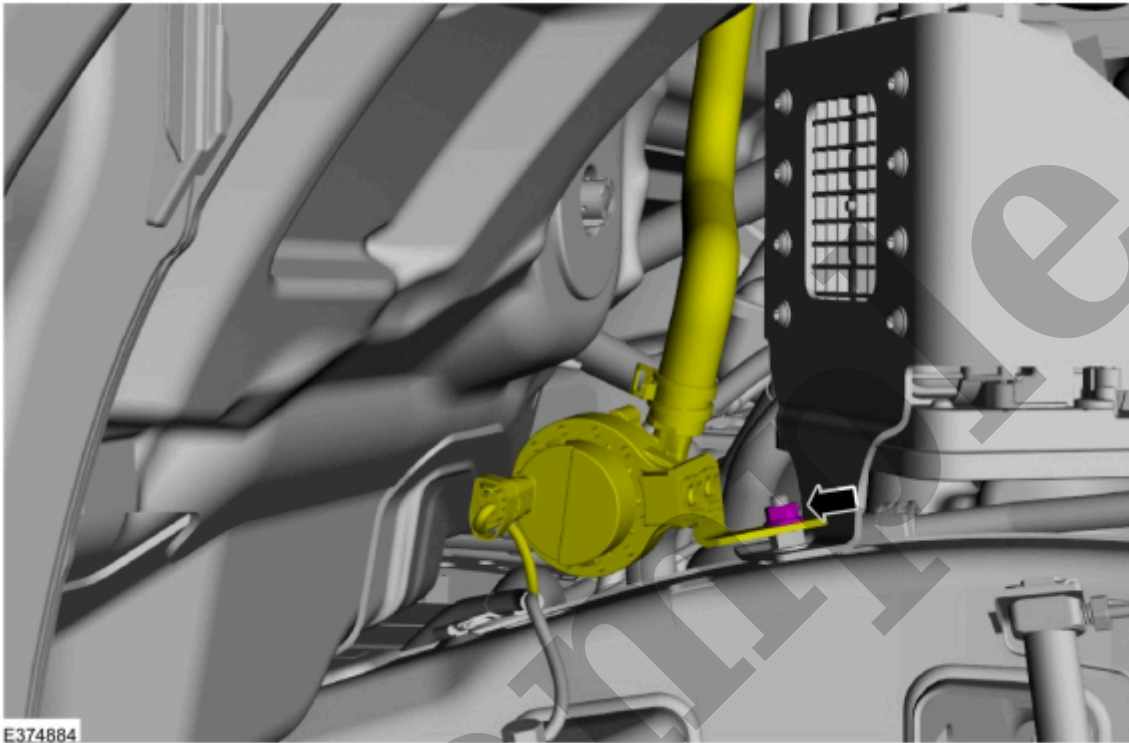
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7. Remove the RHF (right-hand front) fender splash shield.

Refer to: [Fender Splash Shield](#)(501-02 Front End Body Panels, Removal and Installation).

8. Remove the retainer and the position the cabin heater coolant pump aside.

Torque : 18 lb.ft (25 Nm)



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

9. Remove the retainer and the cabin coolant heater.

Torque : 18 lb.ft (25 Nm)



Cabin Heater Coolant Pump - 2.7L EcoBoost (238kW/324PS)

<i>412-00 Climate Control System - General Information</i>	<i>2022 F-150</i>
<i>Removal and Installation</i>	<i>Procedure revision date: 10/5/2020</i>

Cabin Heater Coolant Pump - 2.7L EcoBoost (238kW/324PS)

Removal

NOTE

Removal steps in this procedure may contain installation details.

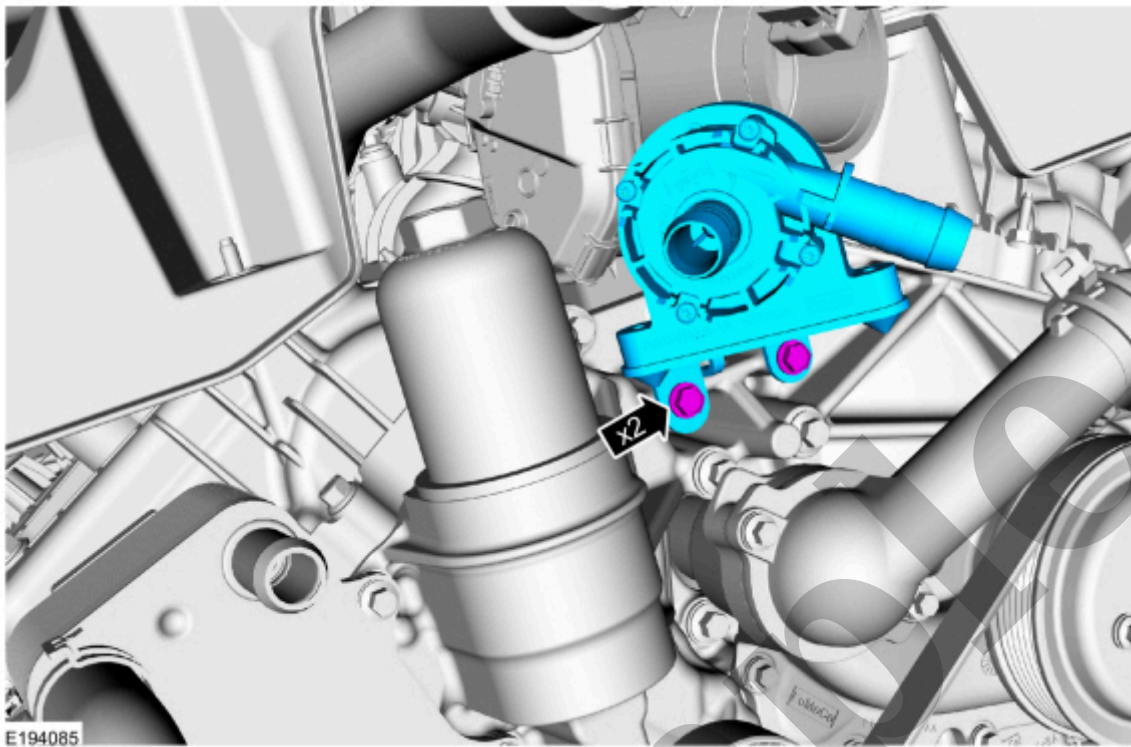
1. WARNING

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.

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

4. Remove the bolts and the cabin heater coolant pump.

Torque : 62 lb.in (7 Nm)

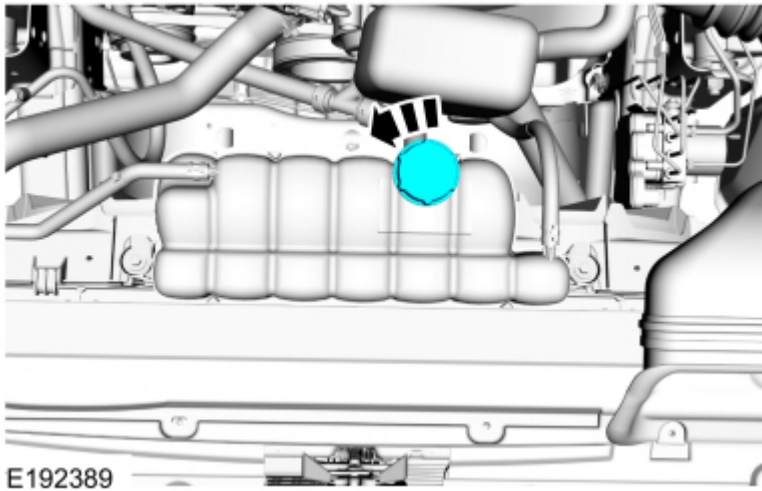


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Installation

1. To install, reverse the removal procedure.
2. Fill and bleed the cooling system. Refer to the appropriate procedure in Group 303.

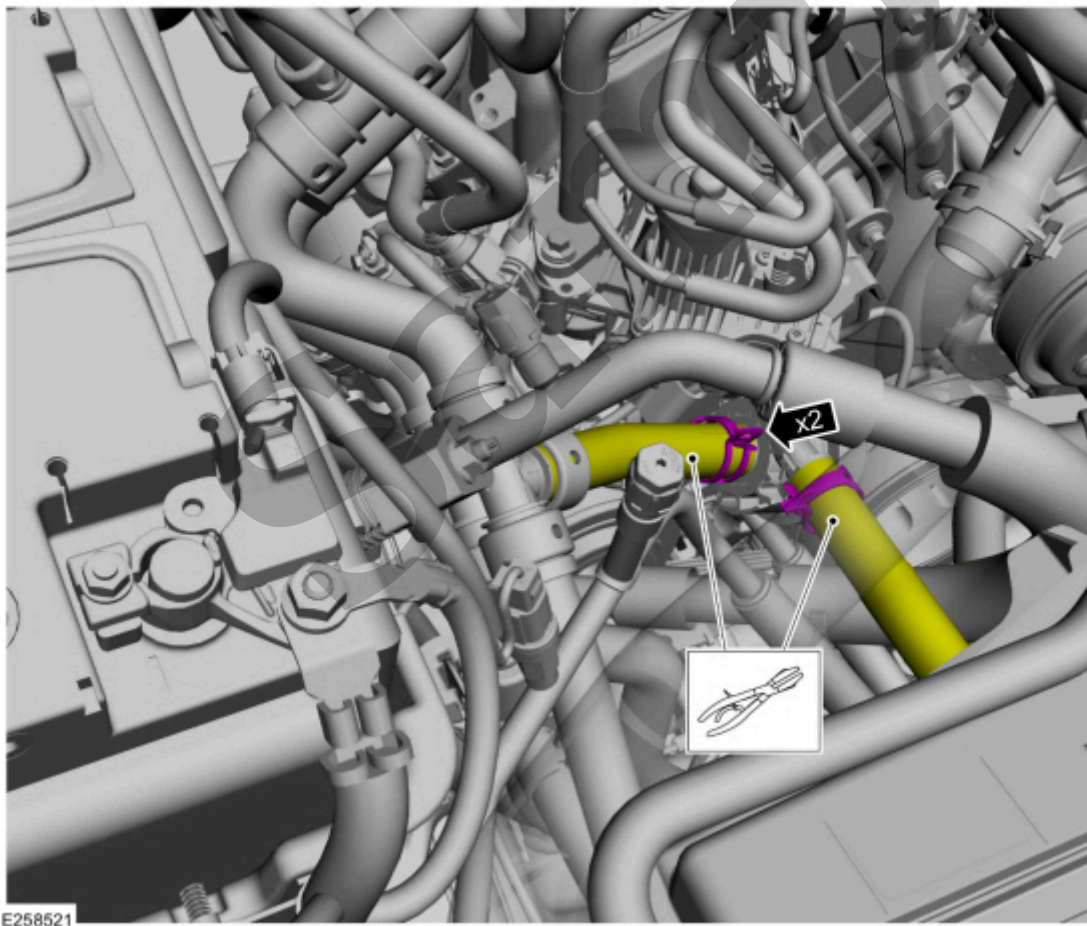
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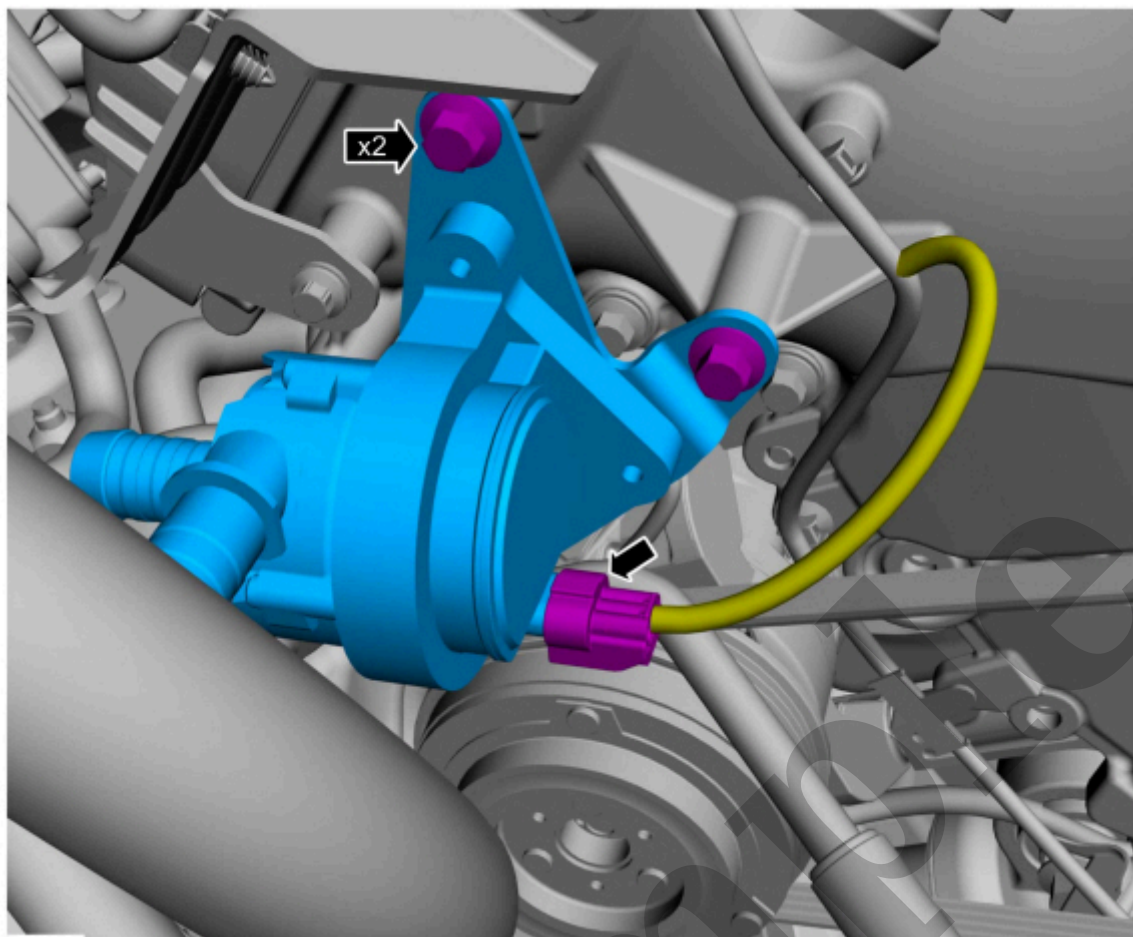
[Click here to learn about symbols, color coding, and icons used in this manual.](#)

2. Release the clamps and disconnect the heater inlet and outlet hoses.

Use the General Equipment: Hose Clamp(s)



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



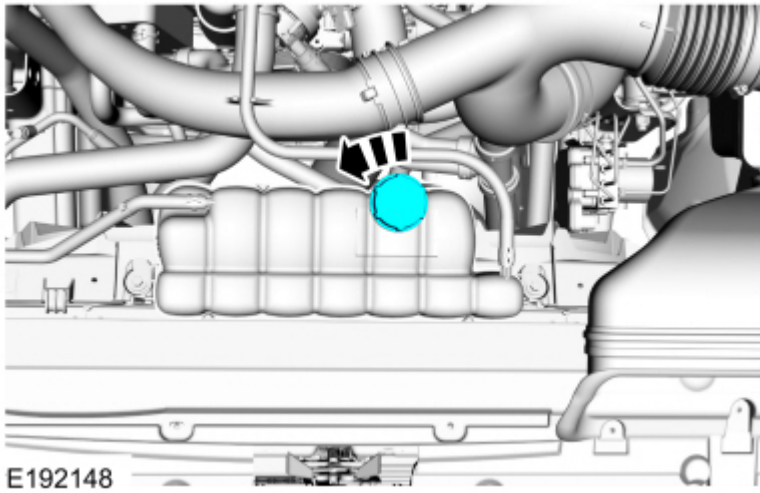
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Installation

1. To install, reverse the removal procedure.
2. Fill and bleed the cooling system. Refer to the appropriate procedure in Group 303.

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2. Remove the air cleaner outlet pipe RH (right-hand) .

Refer to: [Air Cleaner Outlet Pipe RH\(303-12A Intake Air Distribution and Filtering - 2.7L EcoBoost \(238kW/324PS\), Removal and Installation\)](#).

3. 1. Release hose clamps and disconnect inlet and outlet coolant hoses.

Use the General Equipment: Locking Pliers

Use the General Equipment: Hose Clamp Remover/Installer

2. Disconnect electrical connector.

3. Remove the bolts and the cabin heater coolant pump.

Torque : 62 lb.in (7 Nm)