

303-03 Engine Cooling - 2.3L EcoBoost (201kW/273PS)
Removal and Installation

2019 Ranger
Procedure revision date: 01/7/2019


Radiator

Base Part Number: 8005

Special Tool(s) / General Equipment

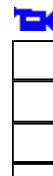
Hose Clamp Remover/Installer

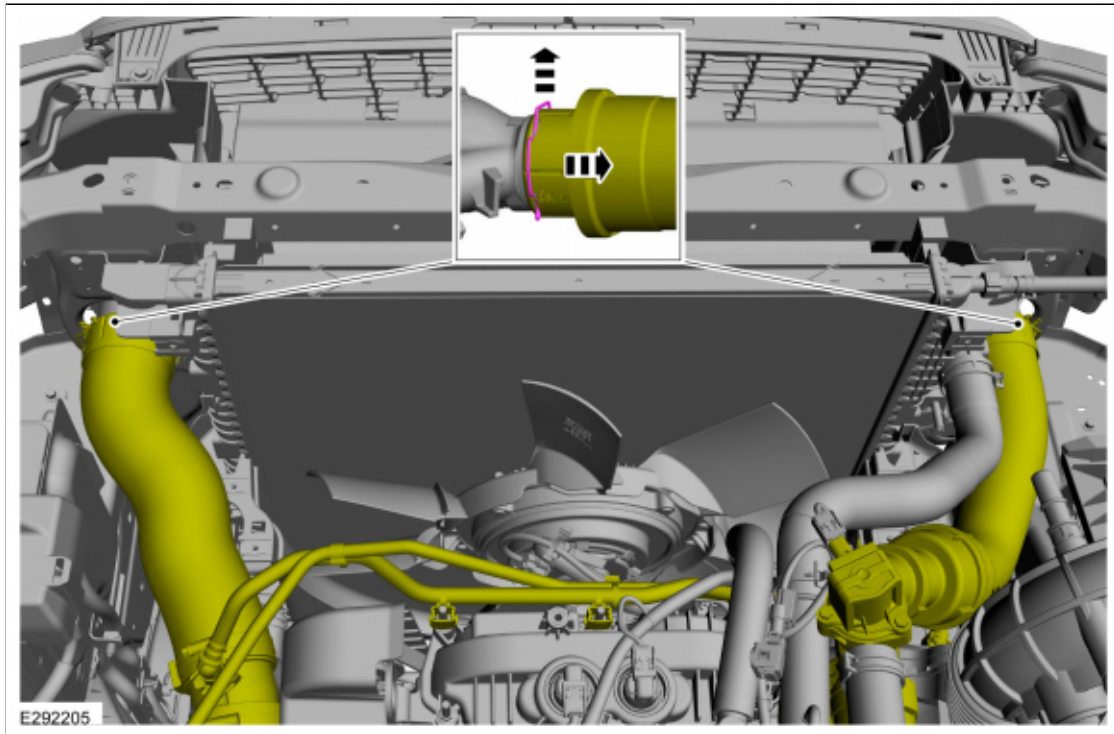
Removal

 **WARNING:** Always allow the engine to cool before opening the cooling system. Do not unscrew the **ant** 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.

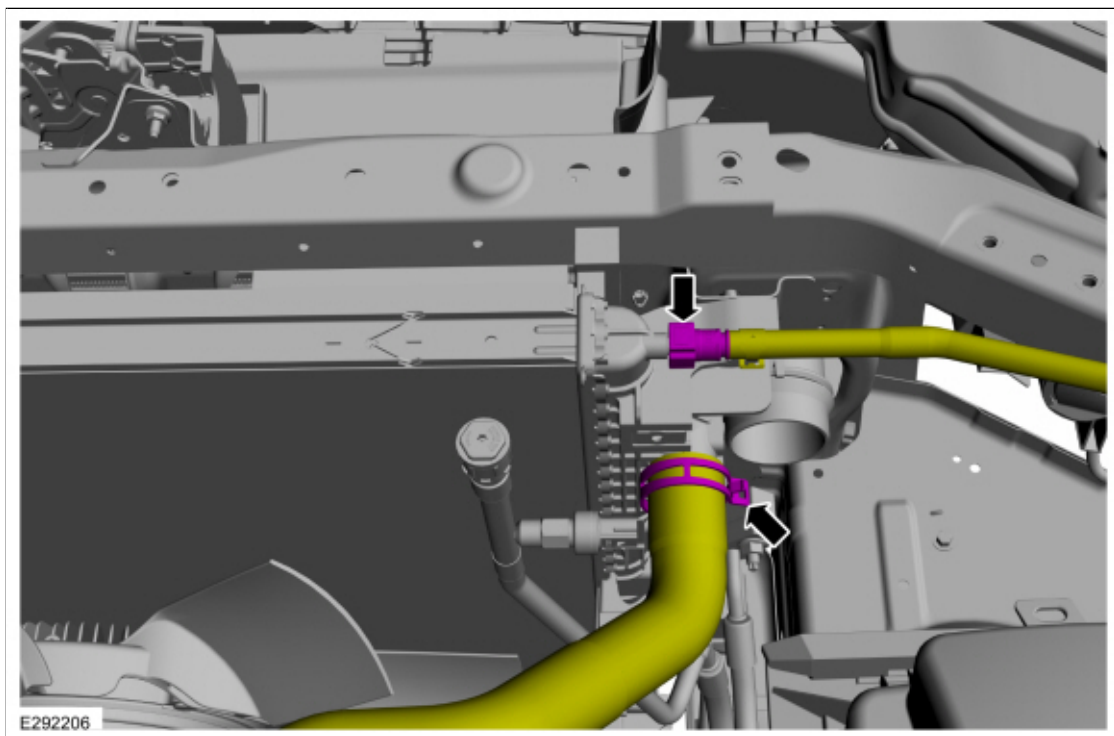
1. Drain the cooling system.
Refer to: [Cooling System Draining, Vacuum Filling and Bleeding](#) (303-03 Engine Cooling - 2.3L EcoBoost (201kW/273PS), General Procedures).
2. Recover the refrigerant.
Refer to: [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging](#) (412-00 Climate Control System - General Information, General Procedures).
3. Remove the cooling fan upper shroud.
Refer to: [Cooling Fan Upper Shroud](#) (303-03 Engine Cooling - 2.3L EcoBoost (201kW/273PS), Removal and Installation).
4. Release the clip and disconnect CAC outlet pipe and inlet pipe.





5.

- Disconnect the quick release coupling.
- Release the clamp and disconnect the upper radiator hose.
Use the General Equipment: Hose Clamp Remover/Installer

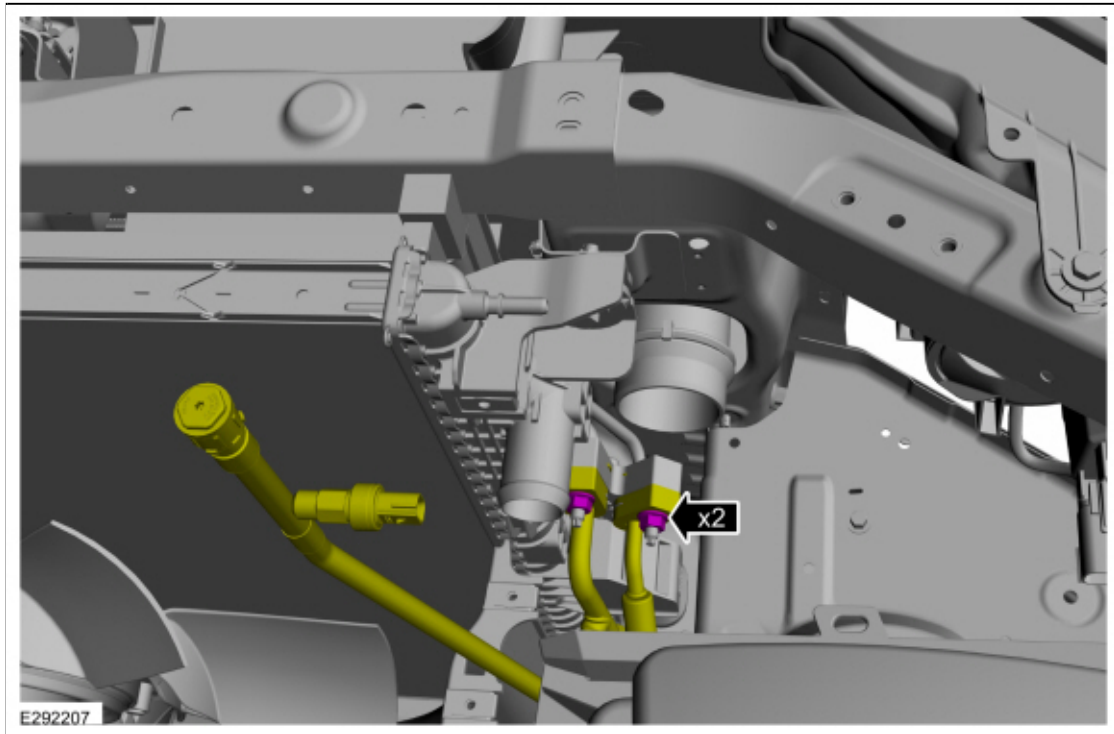


6. **NOTE:** Take extra care not to damage the A/C refrigerant filling pipe.

NOTE: Make sure to cover any open ports to prevent debris from entering the system.

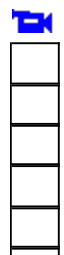
Remove the condenser inlet, outlet nuts and disconnect the fittings.

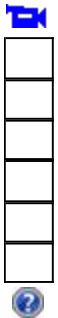
Torque: 155 lb.in (17.5 Nm)



7.

- Release the clamp and disconnect the lower radiator hose.
Use the General Equipment: Hose Clamp Remover/Installer
- Remove the lower cooling fan shroud.

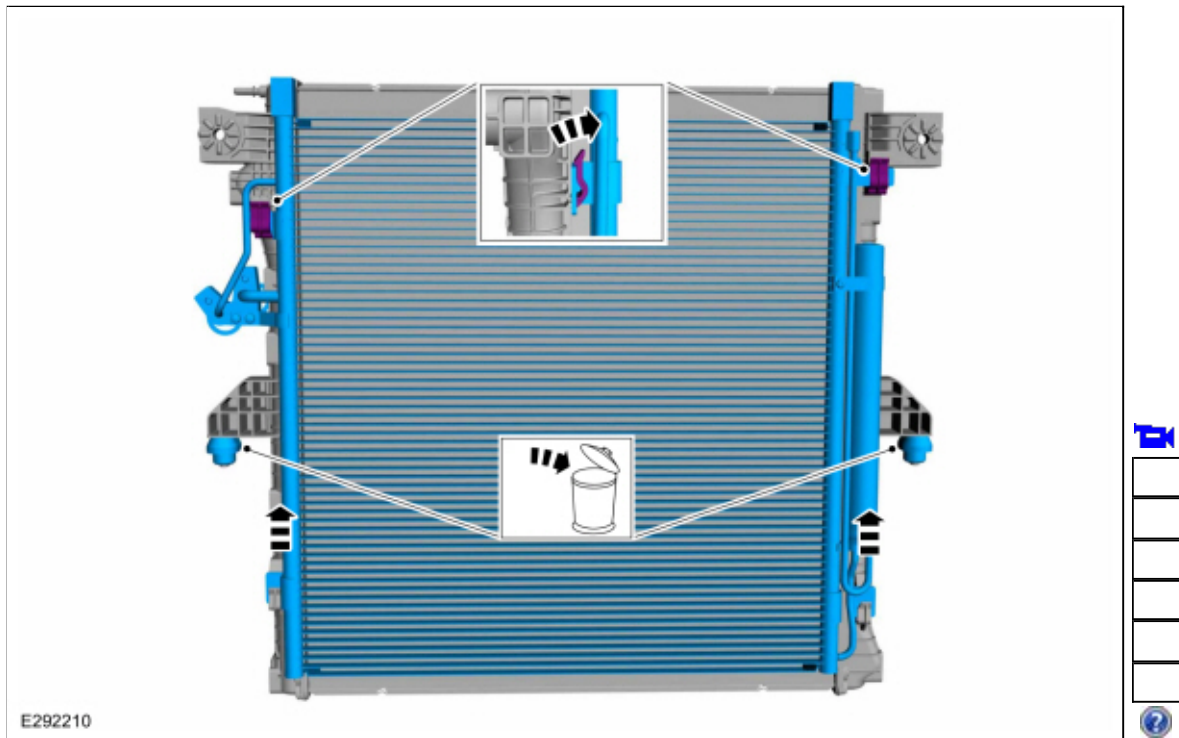




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Release the tabs and separate the condenser assembly from the radiator. Discard the radiator isolators.

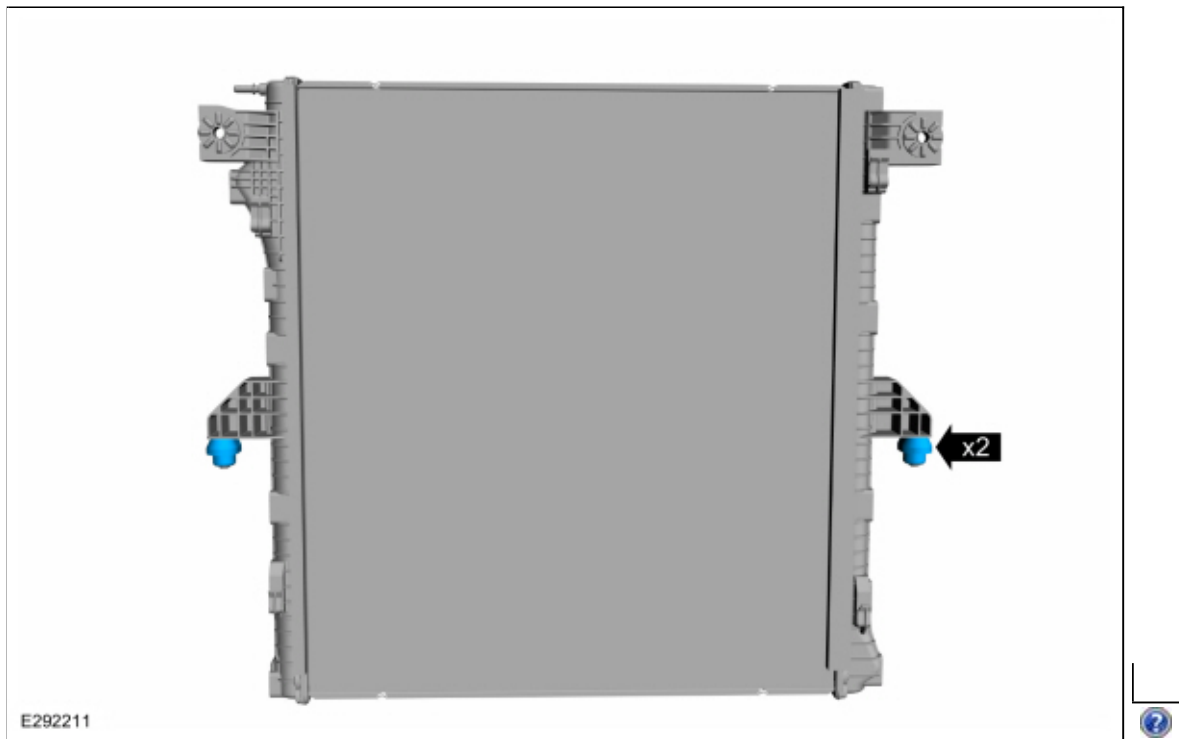


Installation

1. **NOTE:** Take extra care not to damage the radiator during installation.

NOTE: Radiator insulators are to be reused unless damaged.

Install the new radiator isolators.



2. **NOTE:** *Make sure that no components catch when installing the radiator.*

To install, reverse the removal procedure.

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