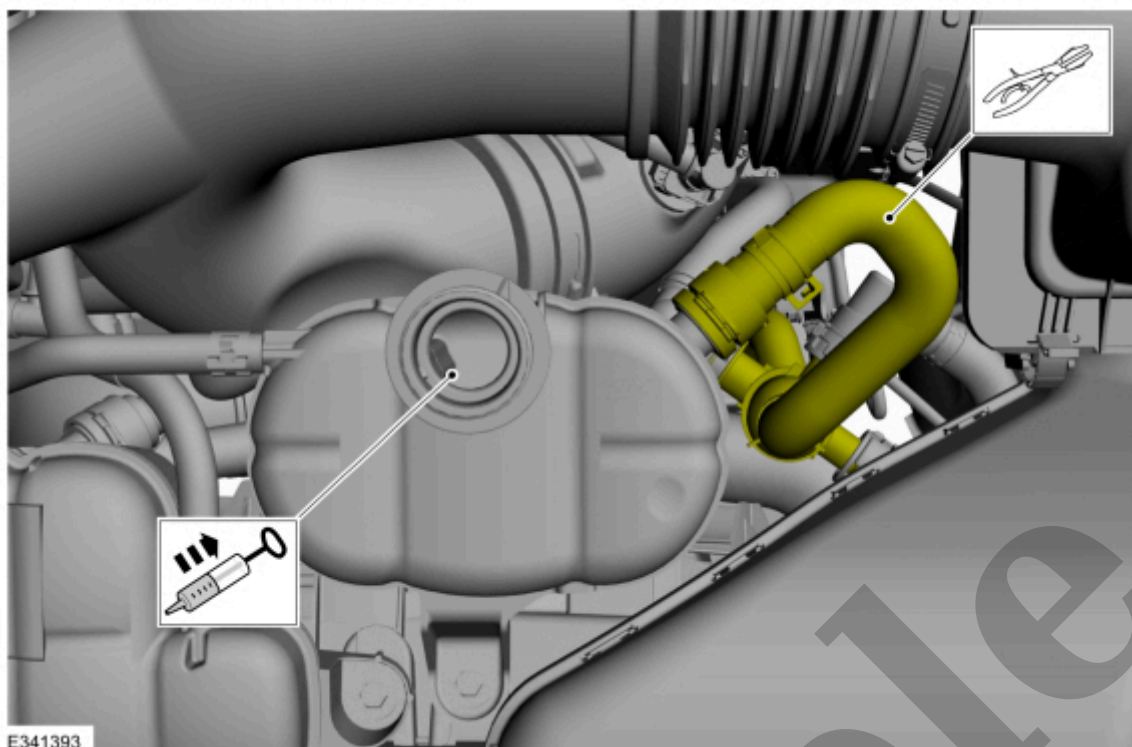


Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

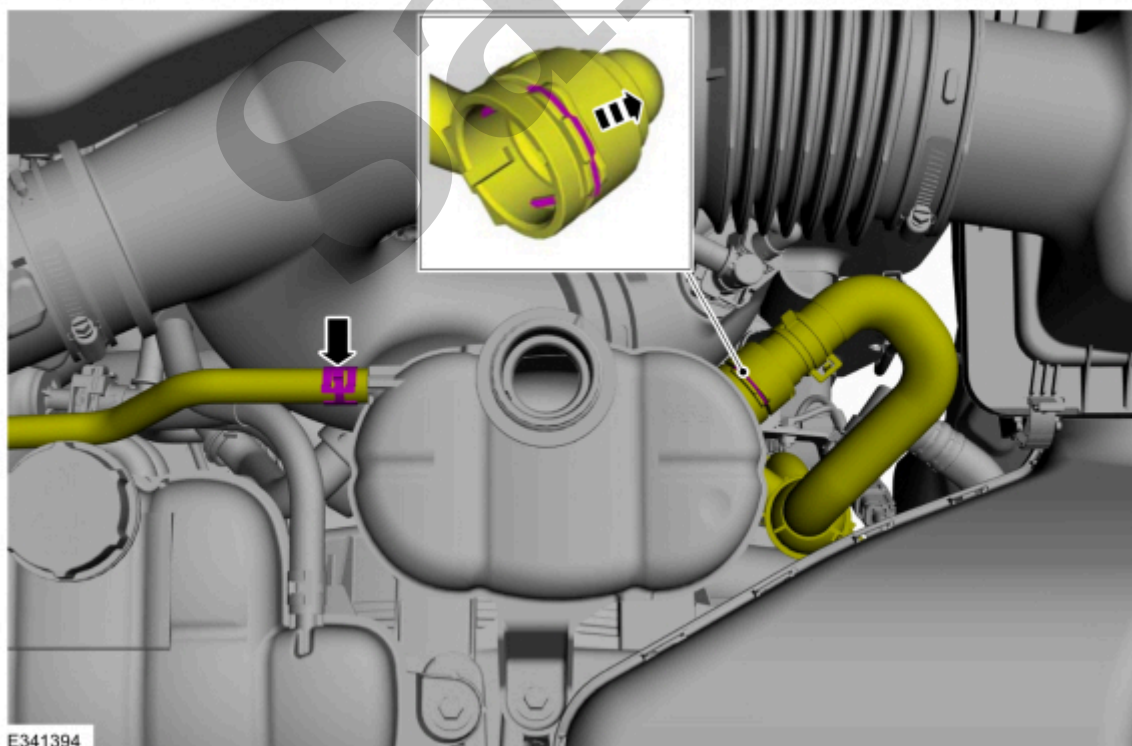
1990 FORD Orion OEM Service and Repair Workshop Manual

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3. • Release the clamps and disconnect the coolant hoses.
Use the General Equipment: Hose Clamp Remover/Installer
- Release the clip and disconnect the coolant hose.





Electric Motor Coolant Pump

303-03F Electric Powertrain Cooling - 3.5L V6 PowerBoost (CN)	2022 F-150
Removal and Installation	Procedure revision date: 02/17/2022

Electric Motor Coolant Pump

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. Drain the electric powertrain cooling system.

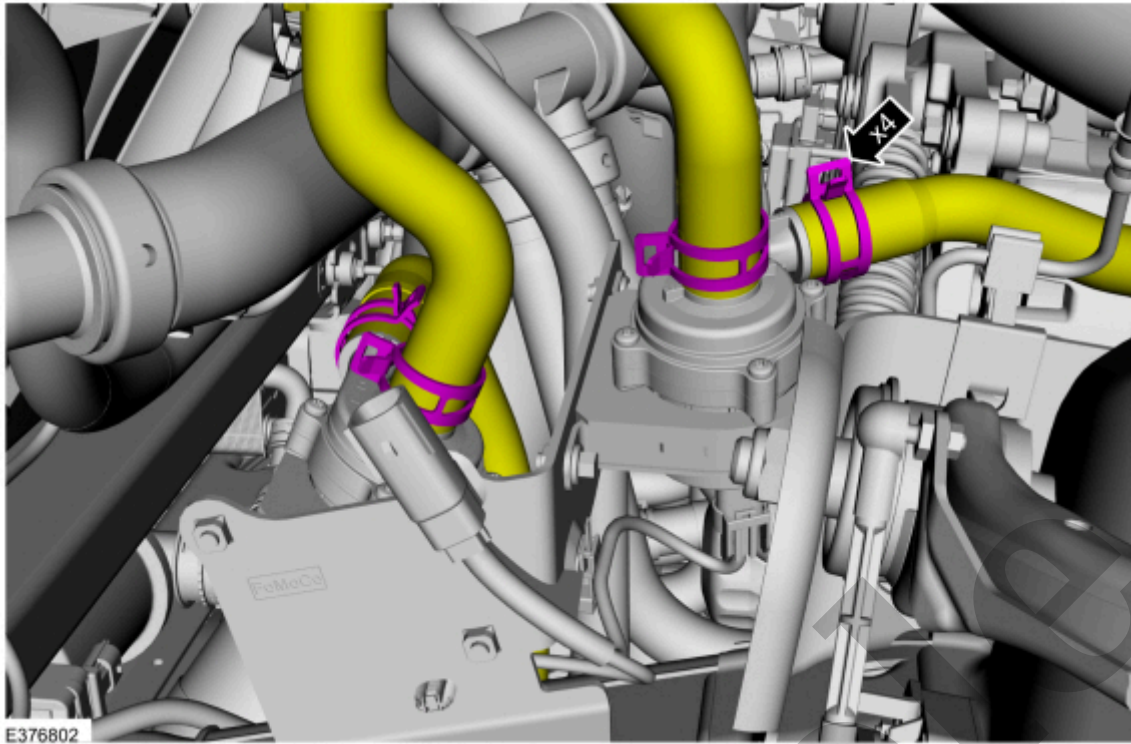
Refer to: [Cooling System Filling and Bleeding](#)(303-03F Electric Powertrain Cooling - 3.5L V6 PowerBoost (CN), General Procedures).

2. LH (left-hand) side only.

Remove the fender splash shield.

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

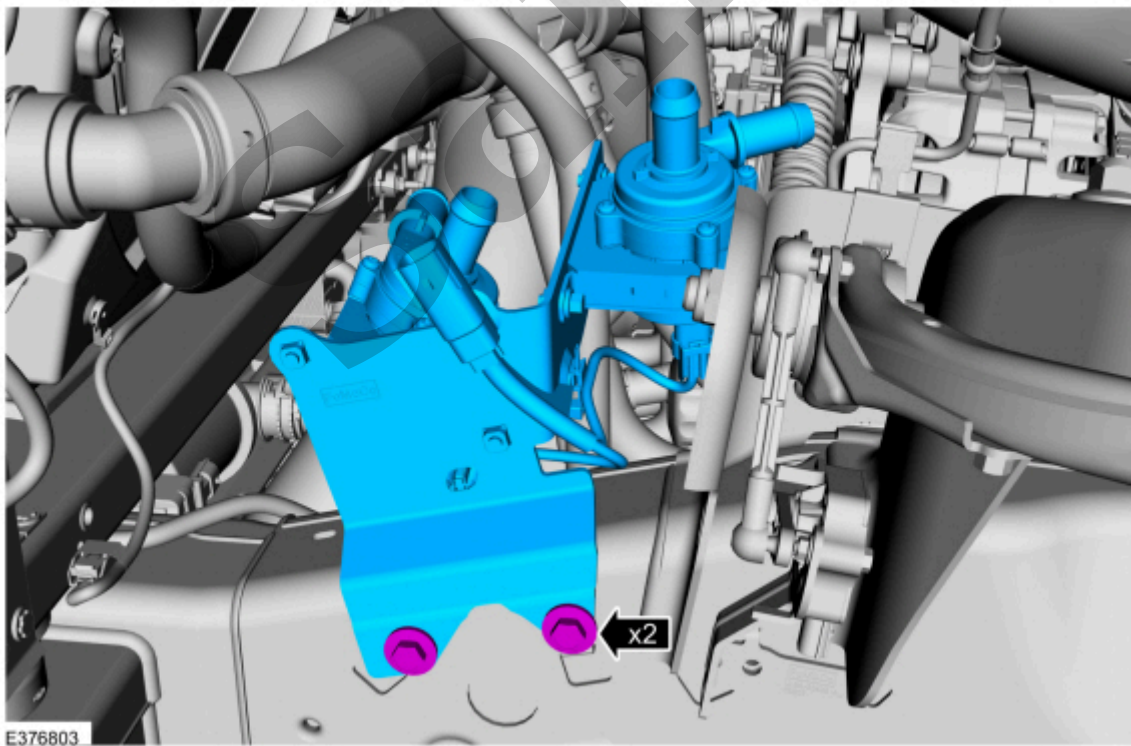
3. Disconnect the electrical connector.



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5. Remove the bolts and the electric motor coolant pump.

Torque : 22 lb.ft (30 Nm)



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Electric Motor Electronics Radiator

<i>303-03F Electric Powertrain Cooling - 3.5L V6 PowerBoost (CN)</i>	<i>2022 F-150</i>
<i>Removal and Installation</i>	<i>Procedure revision date: 10/2/2020</i>

Electric Motor Electronics Radiator

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. Drain the electric powertrain cooling system.

Refer to: [Electric Powertrain Cooling](#)(303-03F Electric Powertrain Cooling - 3.5L V6 PowerBoost (CN), Diagnosis and Testing).
2. Remove the radiator grille.

Refer to: [Radiator Grille](#)(501-08 Exterior Trim and Ornamentation, Removal and Installation).
3. Follow the directions to release quick release coupling type 3.

Disconnect the coolant tube.

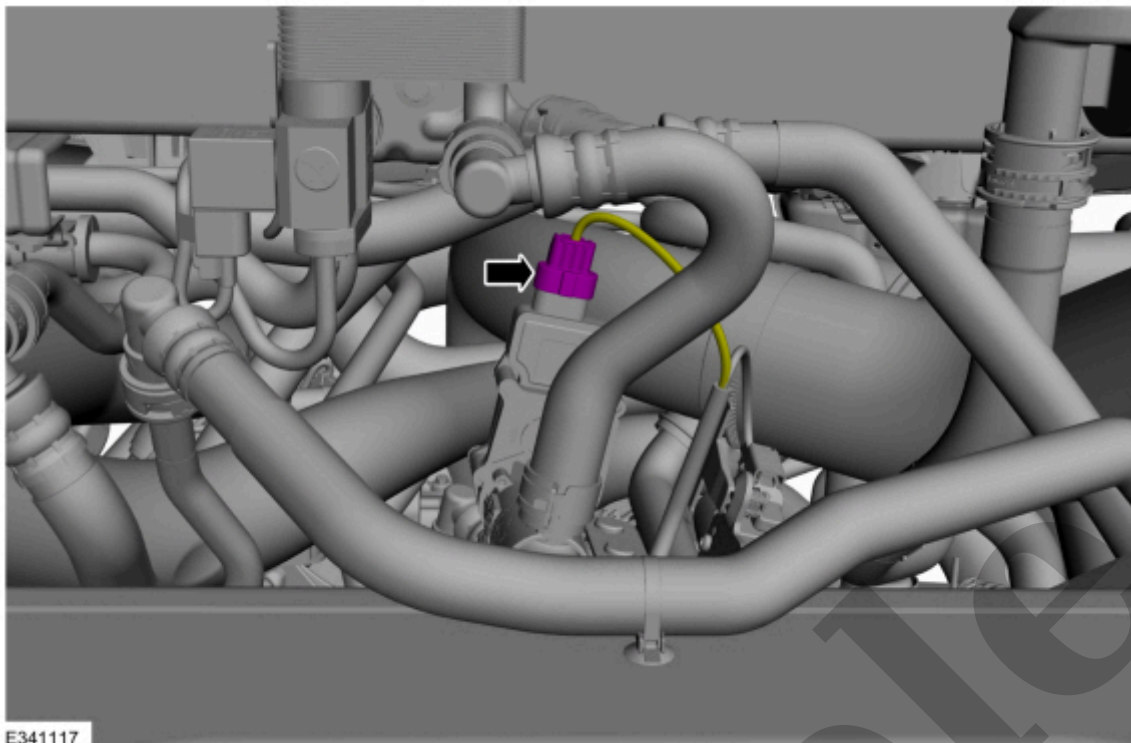
Refer to: [Quick Release Coupling](#)(310-00D Fuel System - General Information - 3.5L V6 PowerBoost (CN), General Procedures).

Installation

1. To install, reverse the removal procedure.
2. Fill and bleed the electric powertrain cooling system.

Refer to: [Cooling System Filling and Bleeding](#)(303-03F Electric Powertrain Cooling - 3.5L V6 PowerBoost (CN), General Procedures).

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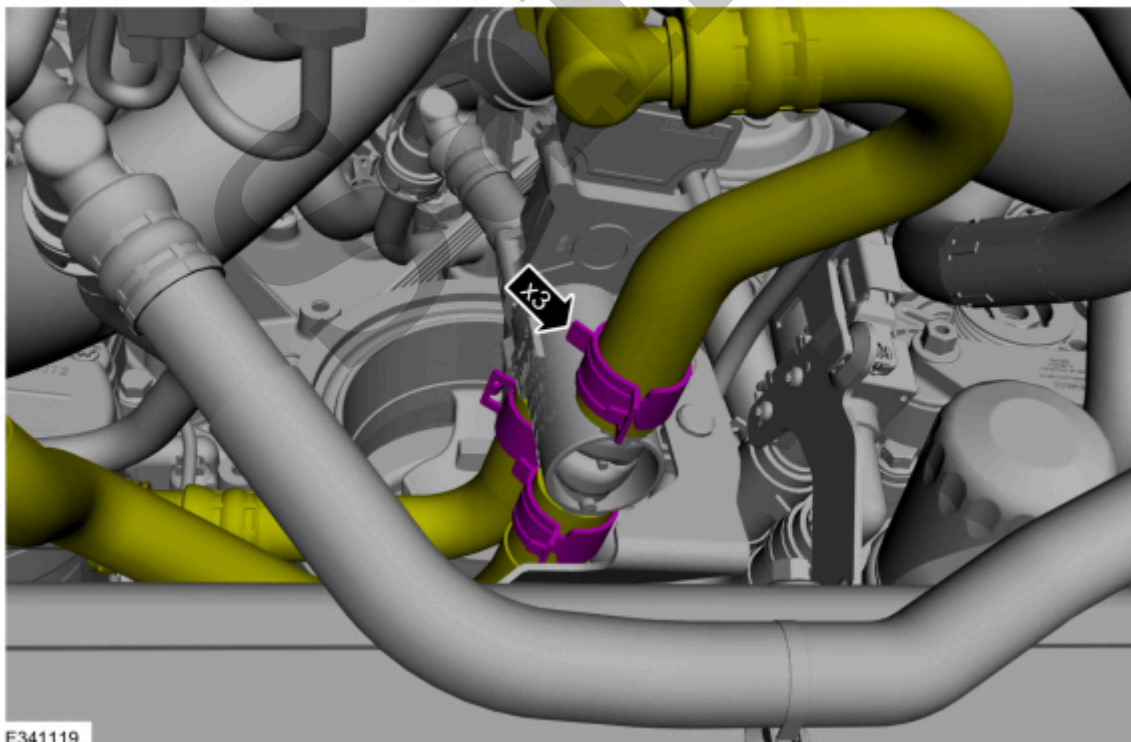


E341117

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4. Release the clamps and disconnect the coolant hoses.

Use the General Equipment: Hose Clamp Remover/Installer



E341119

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High Voltage Battery Radiator

303-03F Electric Powertrain Cooling - 3.5L V6 PowerBoost (CN)	2022 F-150
Removal and Installation	Procedure revision date: 10/2/2020

High Voltage Battery Radiator

Removal

NOTE

Removal steps in this procedure may contain installation details.

1. Drain the electric powertrain cooling system.

Refer to: [Electric Powertrain Cooling](#)(303-03F Electric Powertrain Cooling - 3.5L V6 PowerBoost (CN), Diagnosis and Testing).

2. Remove the radiator grille.

Refer to: [Radiator Grille](#)(501-08 Exterior Trim and Ornamentation, Removal and Installation).

3. Follow the directions to release quick release coupling type 3.

Disconnect the coolant tube.

Refer to: [Quick Release Coupling](#)(310-00D Fuel System - General Information - 3.5L V6 PowerBoost (CN), General Procedures).

Installation

1. To install, reverse the removal procedure.
2. Fill and bleed the electric powertrain cooling system.

Refer to: [Cooling System Filling and Bleeding](#)(303-03F Electric Powertrain Cooling - 3.5L V6 PowerBoost (CN), General Procedures).

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Electric powertrain cooling system without battery radiator	6.45 qt (6.1 L)
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Cooling System Pressure

Complete cooling system maximum pressure	21.0 psi (145 kPa)
Pressure relief cap	21.0 psi (145 kPa)
Radiator pressure test (removed from the vehicle)	20.0 psi (138 kPa)

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