

Transmission Fluid Heater Coolant Control Valve

Special Tool(s) / General Equipment

Flat Headed Screw Driver
Transmission Jack
Hose Clamp Remover/Installer
Tire Lever

Removal

All vehicles

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. Remove the LH wheel and tire.
Refer to: [Wheel and Tire](#) (204-04A Wheels and Tires, Removal and Installation).
3. Remove the LH fender splash shield.
Refer to: [Fender Splash Shield](#) (501-02 Front End Body Panels, Removal and Installation).
4. Remove the transmission fluid cooler.
Refer to: [Transmission Fluid Cooler](#) (307-02 Transmission Cooling - 10-Speed Automatic Transmission - 10R80, Removal and Installation).

4x4 Vehicles

5.
 1. Index-mark the driveshaft flange to the transmission flange to maintain alignment during installation.
 2. **NOTICE: The driveshaft flange fits tightly on the pinion flange pilots. To make sure that the driveshaft flanges seat squarely on the pinion flange pilots, tighten the driveshaft flange bolts evenly in a cross pattern or damage to the flanges can occur.**

Remove and discard the driveshaft flange to transmission flange bolts.

Torque: 81 lb.ft (110 Nm)

3. **NOTICE: The driveshaft flange fits tightly on the flange pilot. Never hammer on the driveshaft or any of its components to disconnect the driveshaft flange from the flange pilot.**

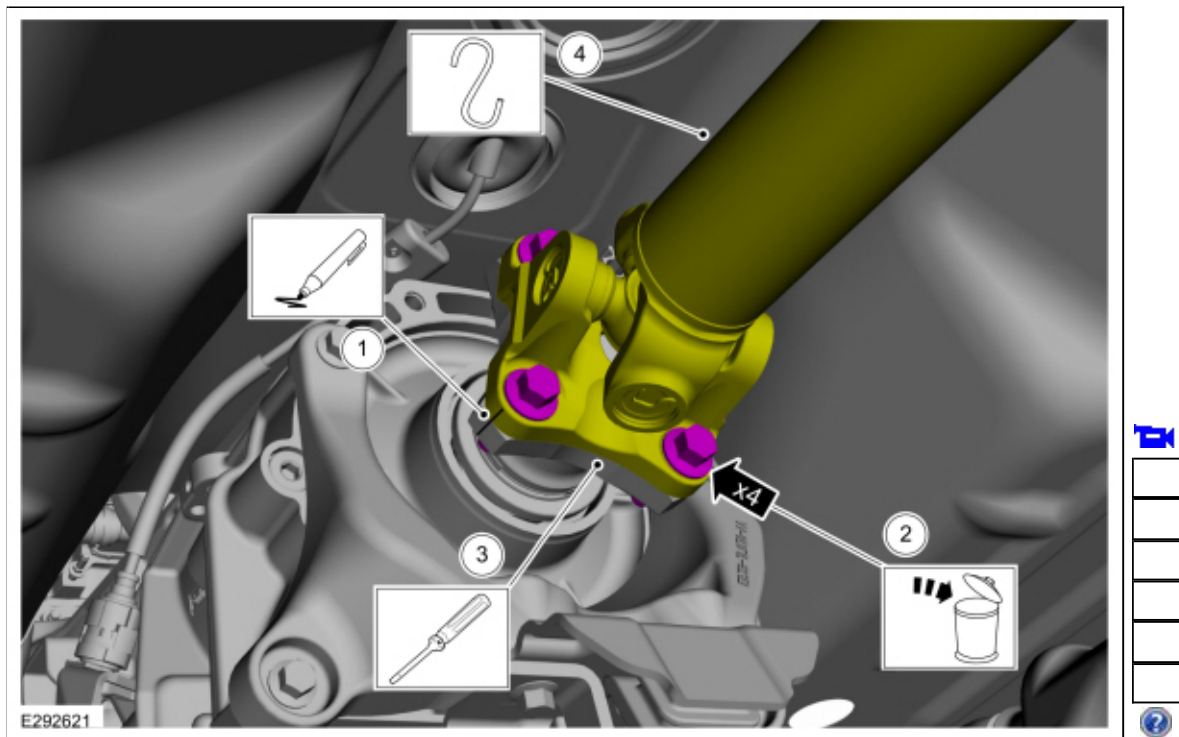
NOTE: *The driveshaft flange to transmission flange is a tight fit. It may be necessary to remove the center bearing bolts before the driveshaft flange will separate from the transmission flange.*

Using the general equipment, separate the driveshaft flange from the transmission flange.

Use the General Equipment: Flat Headed Screw Driver

Use the General Equipment: Tire Lever

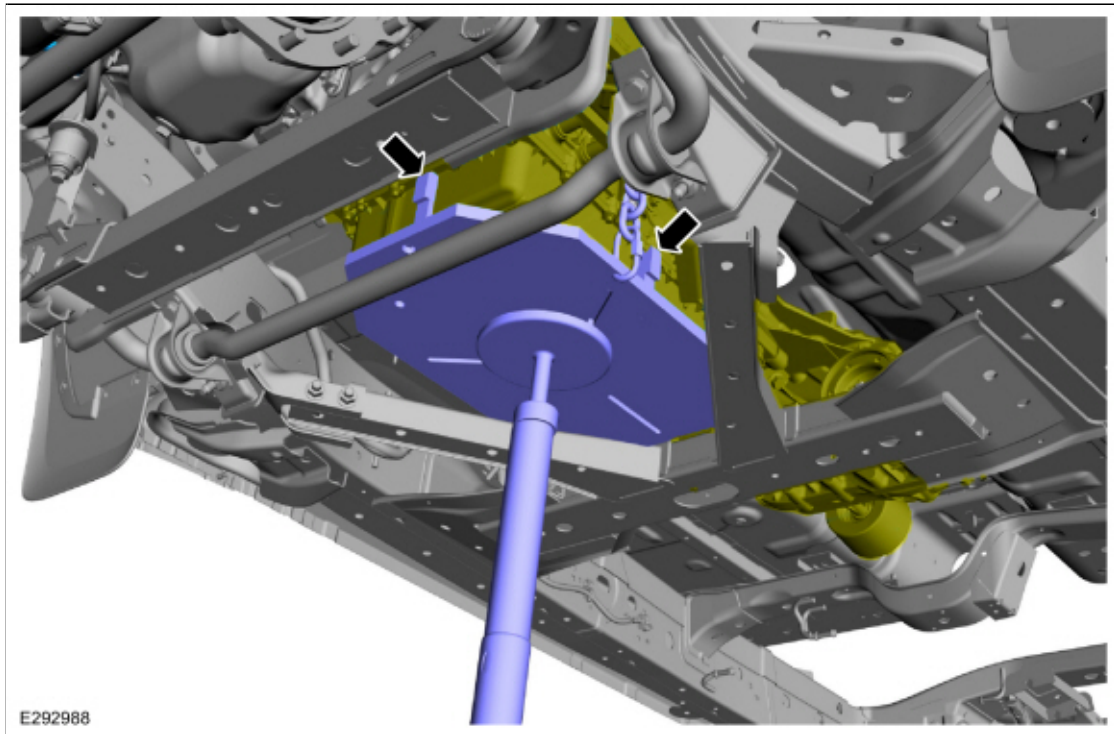
4. Support the driveshaft.



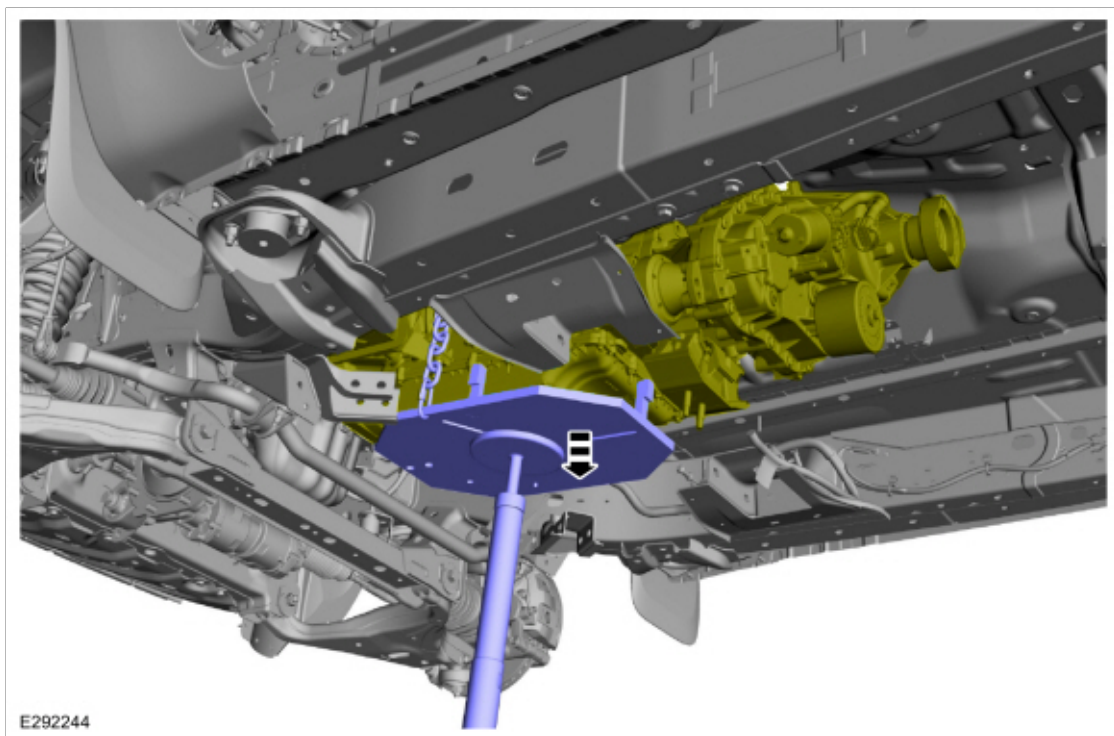
6. **NOTICE:** Secure the transmission to the transmission jack with a safety strap.

NOTICE: Make sure the transmission jack makes contact on the outer ribs of the transmission fluid pan.

Using a high-lift transmission jack, support the transmission.
Use the General Equipment: Transmission Jack

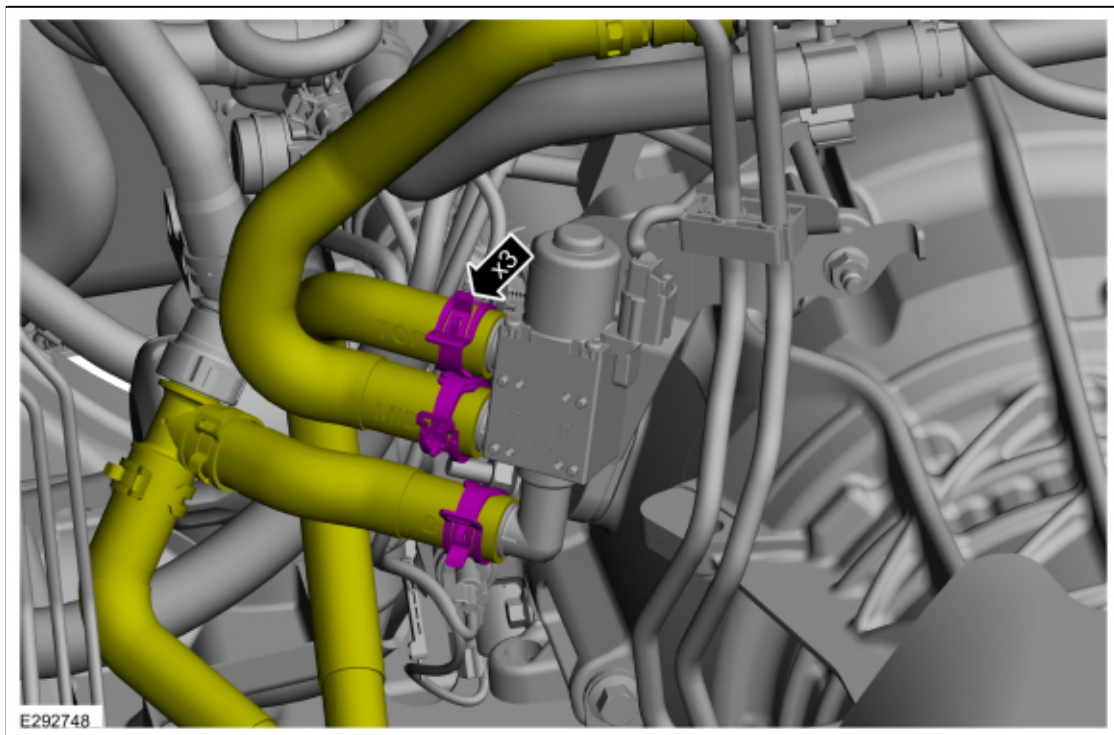


7. Remove the transmission support crossmember.
Refer to: [Transmission Support Crossmember](#) (502-02 Full Frame and Body Mounting, Removal and Installation).
8. Lower the transmission.

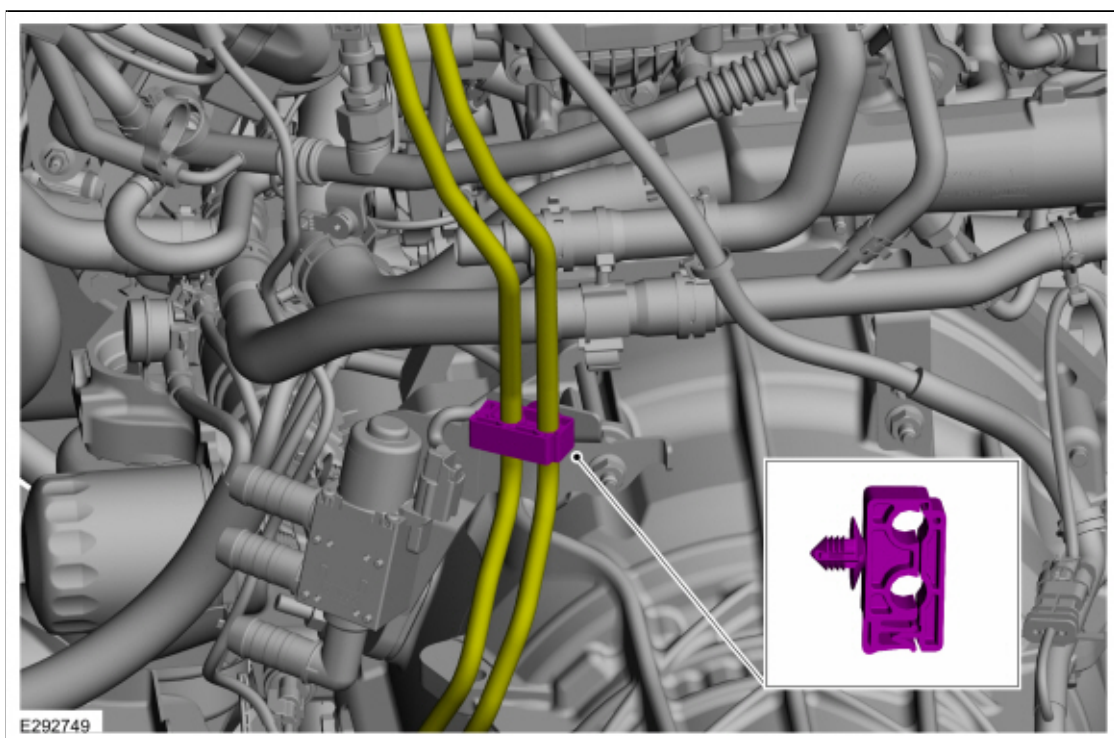


All vehicles

9. Release the clamps and disconnect the coolant hoses.
Use the General Equipment: Hose Clamp Remover/Installer

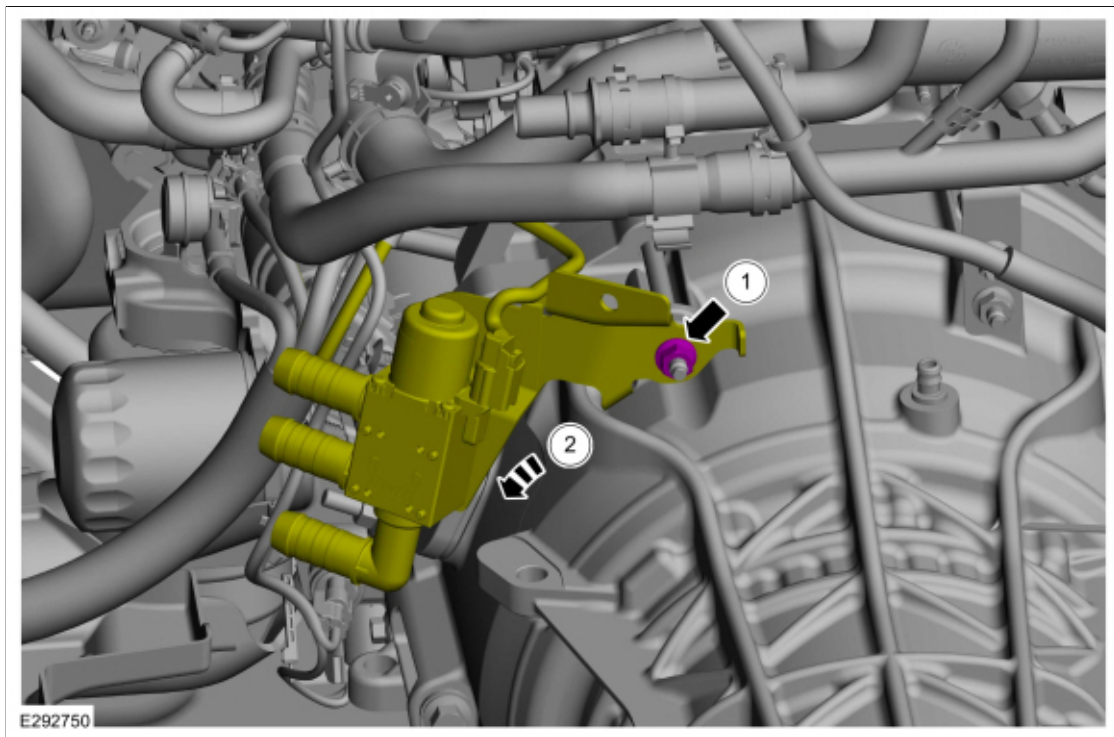


10. Detach the fuel line clip push-pin.

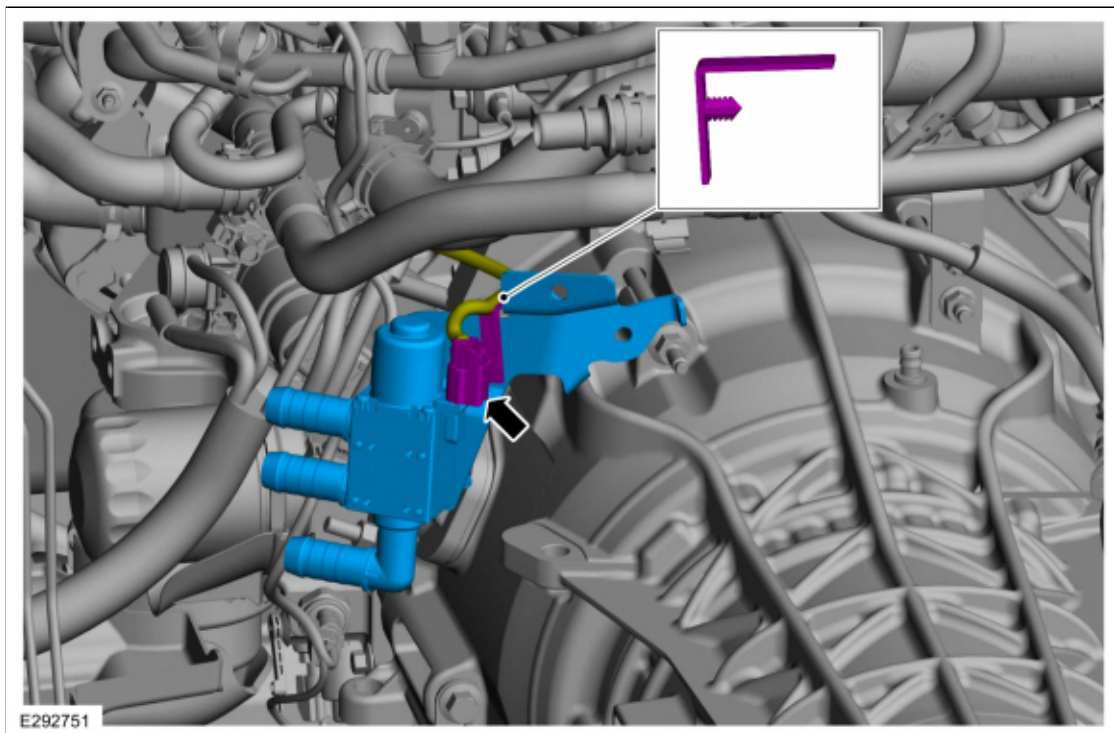


11.

1. Remove the nut.
Torque: 155 lb.in (17.5 Nm)
2. Position the transmission fluid heater coolant control valve aside.



12. Disconnect the electrical connector and detach the fuel line push-pin.



Installation

1. To install, reverse the removal procedure.

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