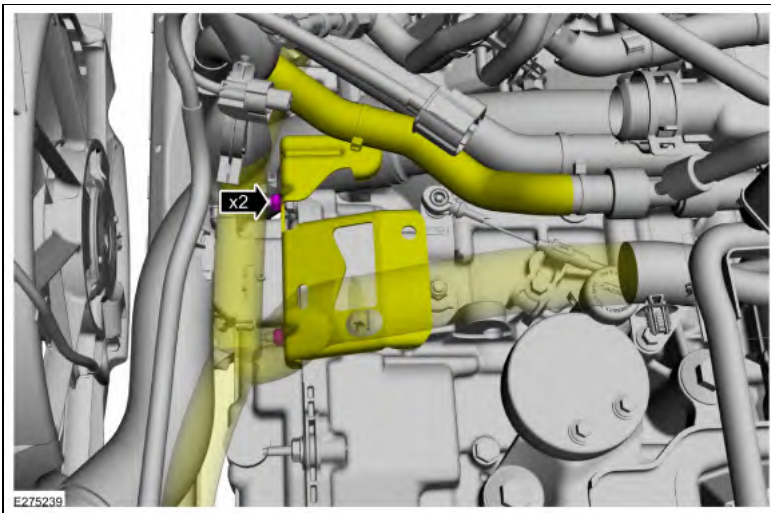
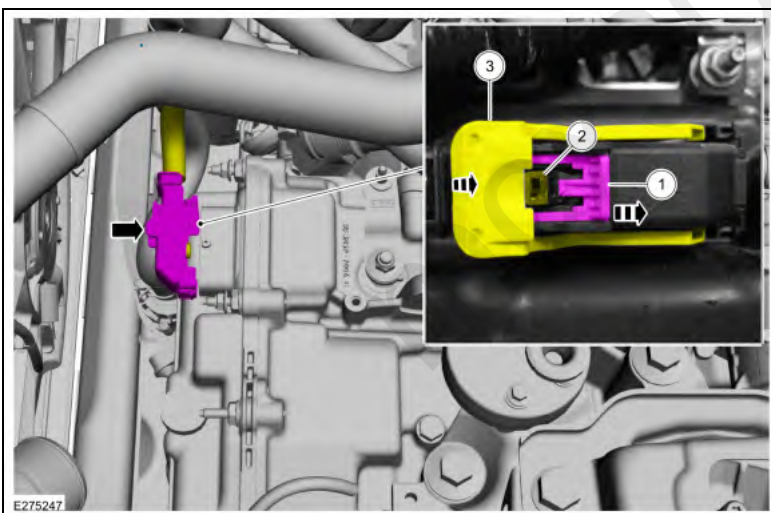
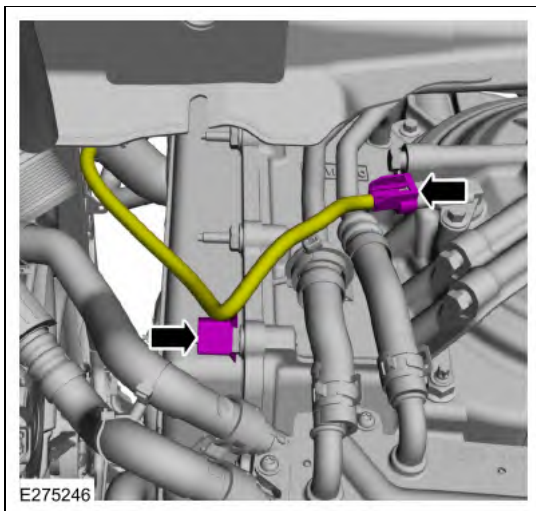




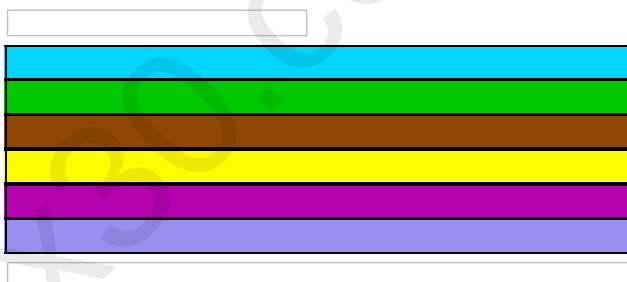
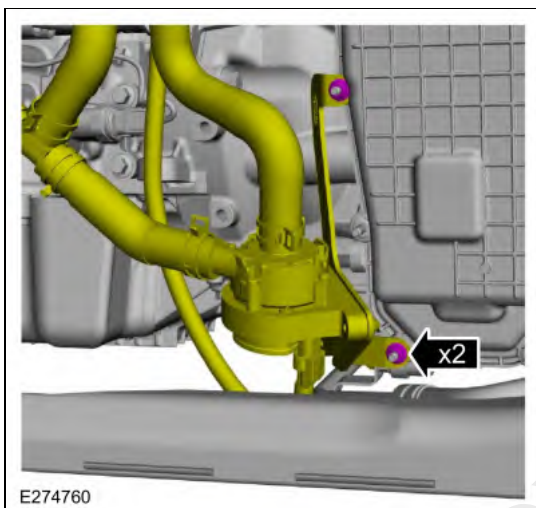
7. Disconnect transmission connector.
1. Slide the locking clip.
 2. Press the tab.
 3. While pressing the tab, rotate the connector latch.



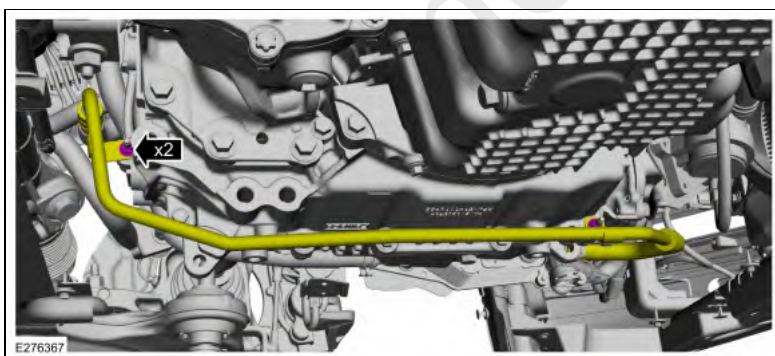
8. Disconnect the retainer and the turbine shaft speed sensor/intermediate speed sensor A (ISSA) electrical connector.



9. Remove the nuts and position aside the start/stop coolant pump.

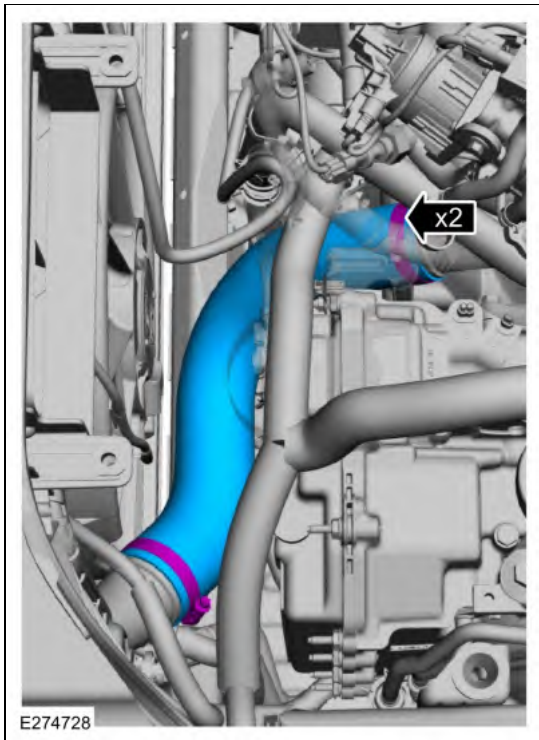


10. Remove the nuts and position aside the coolant tube.



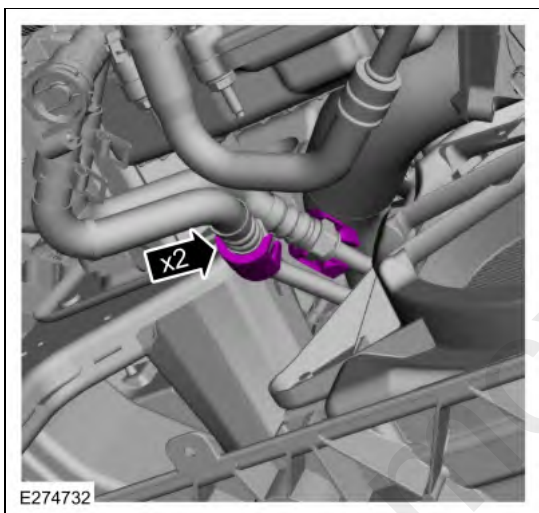
11. **NOTICE:** When removing any turbocharger air intake system components, make sure to cover any open ports to prevent debris from entering the system. The turbocharger compressor vanes can be damaged by even the smallest particles. All components need to be inspected and cleaned prior to installation or reassembly.

- Loosen the clamps and remove the CAC tube.
- Cover all open ports.

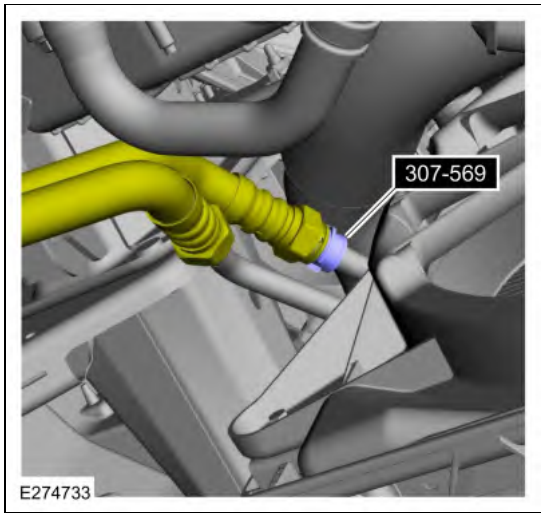


Vehicles With: Trailer Tow

12. Remove the transmission fluid cooler tube secondary latches.

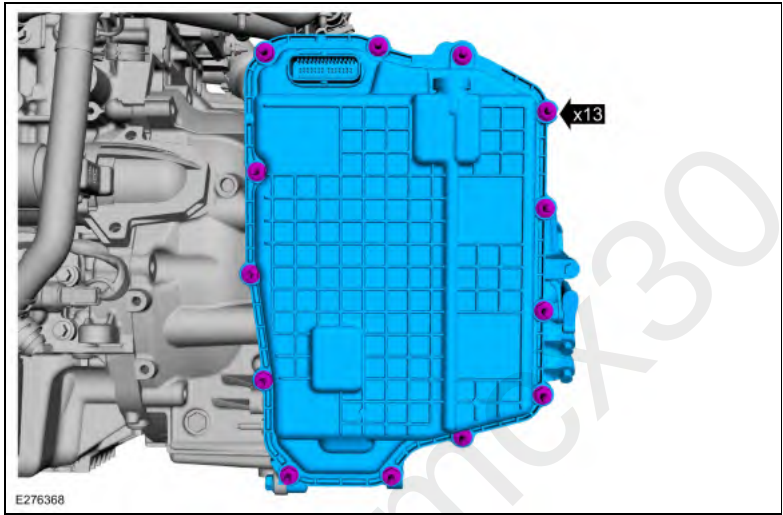


13. Using the special tool, disconnect the transmission fluid cooler tubes.
Use Special Service Tool: 307-569 Disconnect Tool TOC Line (1/2).



All vehicles

14. Remove the studbolts and remove the main control cover.



Installation

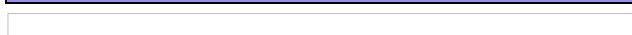
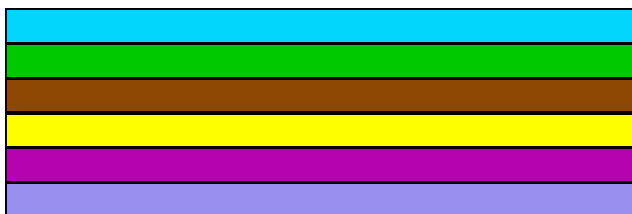
All vehicles

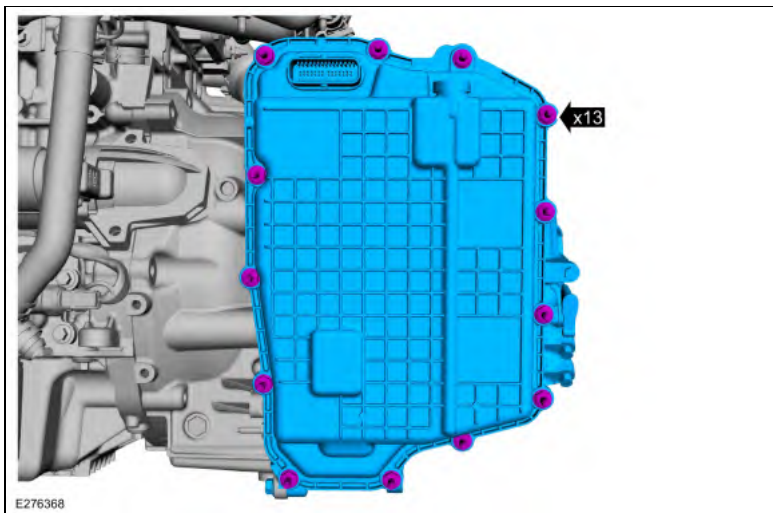
1. Clean and inspect the main control cover seal for damage, install new if necessary.



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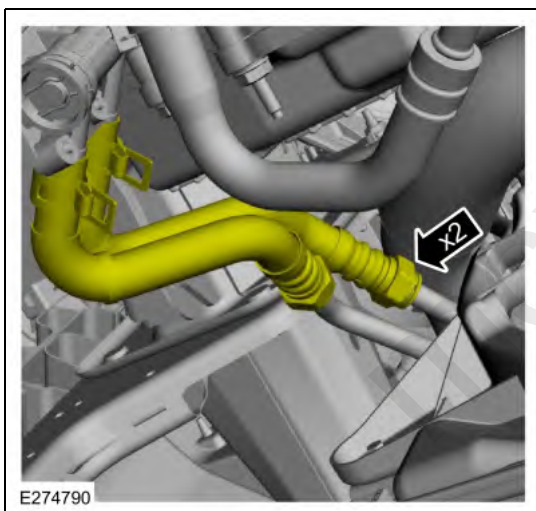
2. Install the main control cover and the stud bolts.
Torque: 80 lb.in (9 Nm)



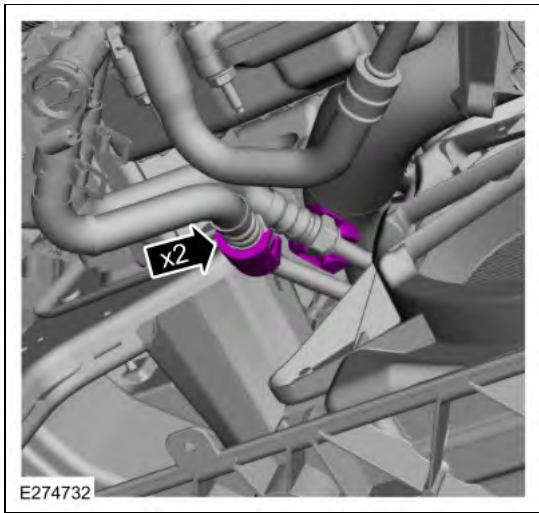


Vehicles With: Trailer Tow

3. Connect the transmission fluid cooler tubes.



4. Install the transmission fluid cooler tube secondary latches.

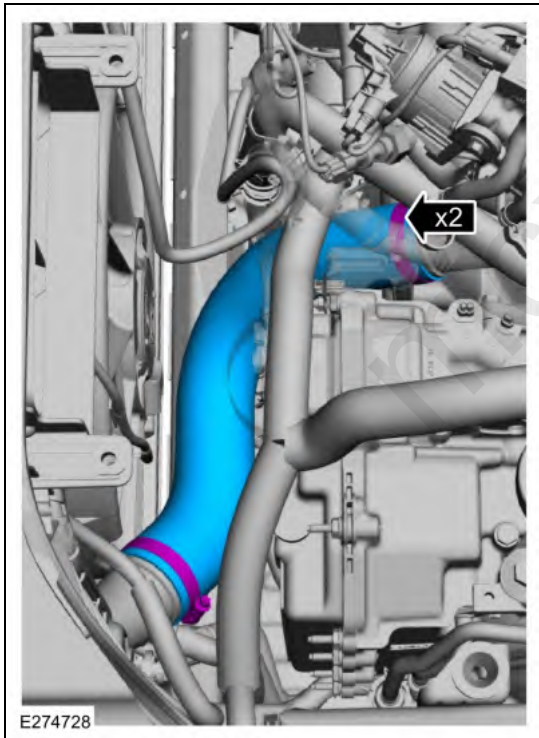


All vehicles

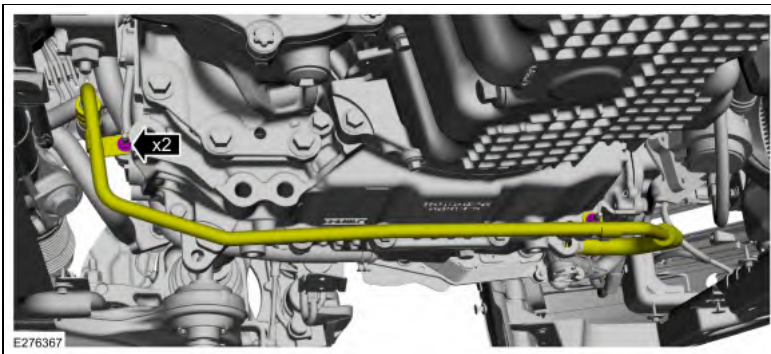
5. **NOTICE:** When removing any turbocharger air intake system components, make sure to cover any open ports to prevent debris from entering the system. The turbocharger compressor vanes can be damaged by even the smallest particles. All components need to be inspected and cleaned prior to installation or reassembly.

- Uncover, clean and inspect all open ports.
- Install the CAC tube and tighten the clamps.

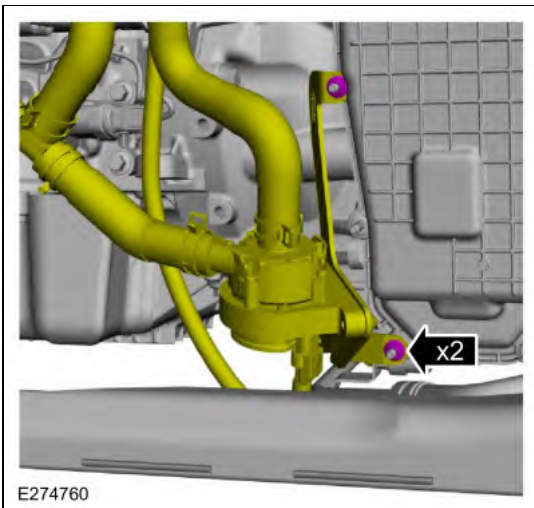
Torque: 39 lb.ft (53 Nm)



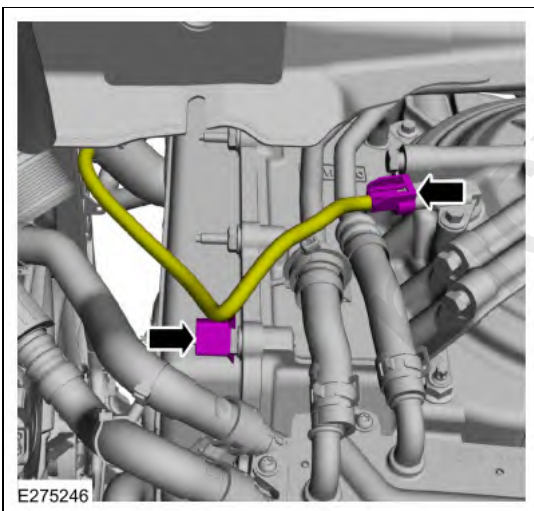
6. Position back the coolant tube and install the nuts.
Torque: 106 lb.in (12 Nm)



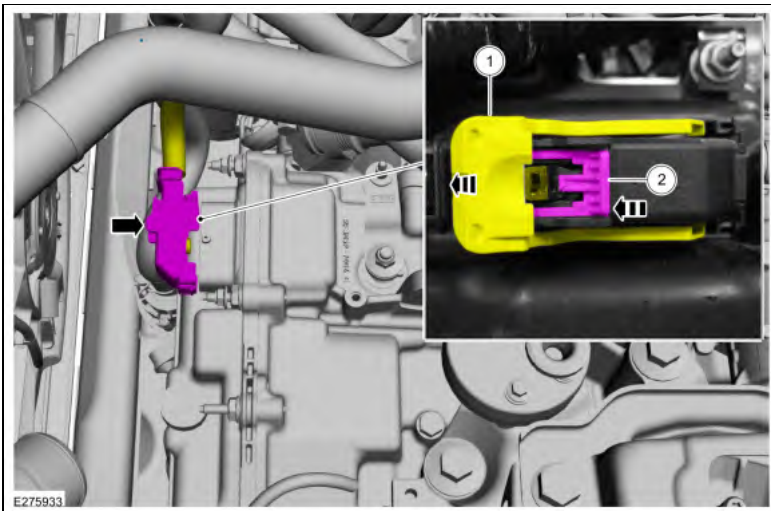
7. Position back the start/stop coolant pump and install the nuts.
Torque: 80 lb.in (9 Nm)



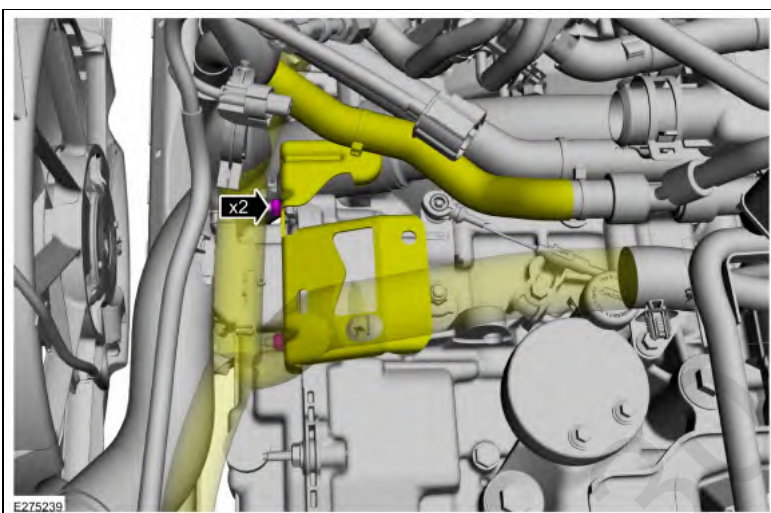
8. Connect the turbine shaft speed sensor/intermediate speed sensor A (ISSA) electrical connector and install the wiring harness retainer.



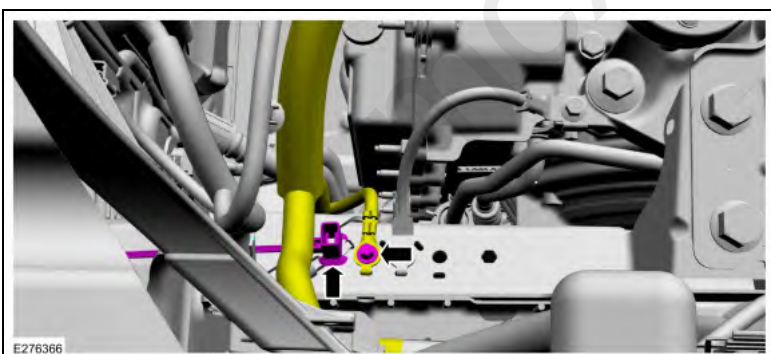
9. Connect the transmission connector.
 1. Rotate the connector latch until it locks in place.
 2. Slide the locking clip back to its original position.



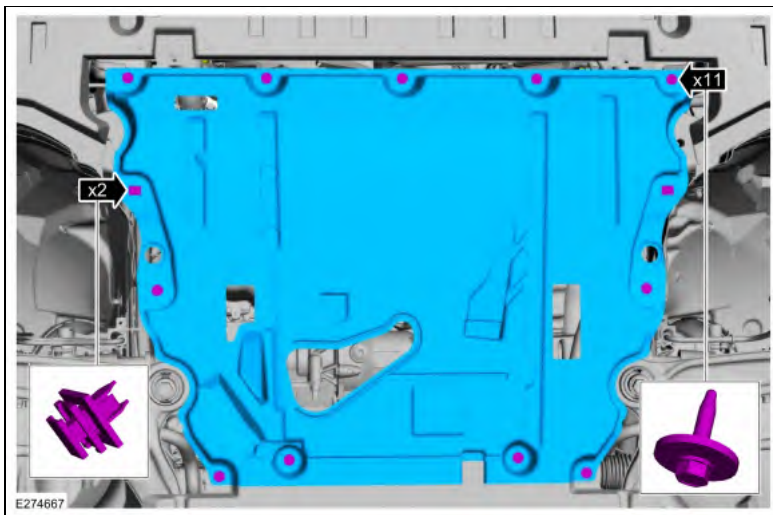
10. Position back the wiring harness and install the nuts.
Torque: 80 lb.in (9 Nm)



11. Install the ground strap bolt and wiring harness retainer.
Torque: 106 lb.in (12 Nm)



12. Install the air cleaner.
 Refer to: Air Cleaner (303-12A Intake Air Distribution and Filtering - 2.0L EcoBoost (184kW/250PS) â€” MI4, Removal and Installation).
13. Install the underbody shield and the retainers.



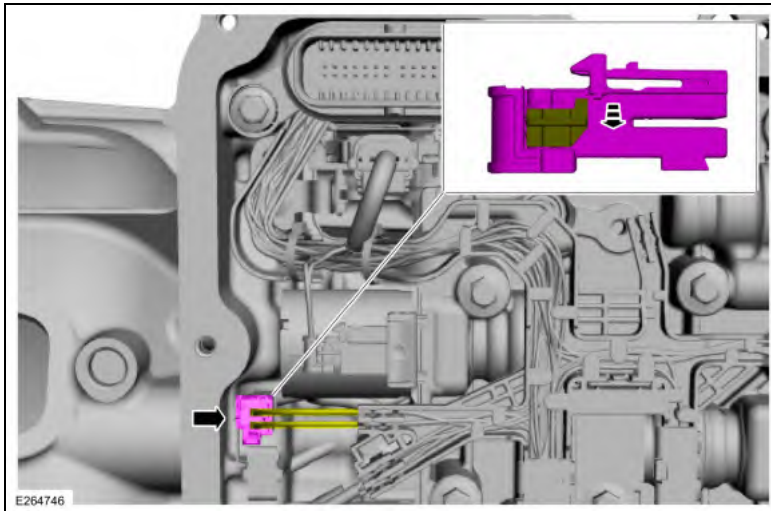
14. Fill the transmission with transmission fluid.
Refer to: Transmission Fluid Drain and Refill (307-01A Automatic Transmission - 8-Speed Automatic Transmission 8F35/8F40, General Procedures).

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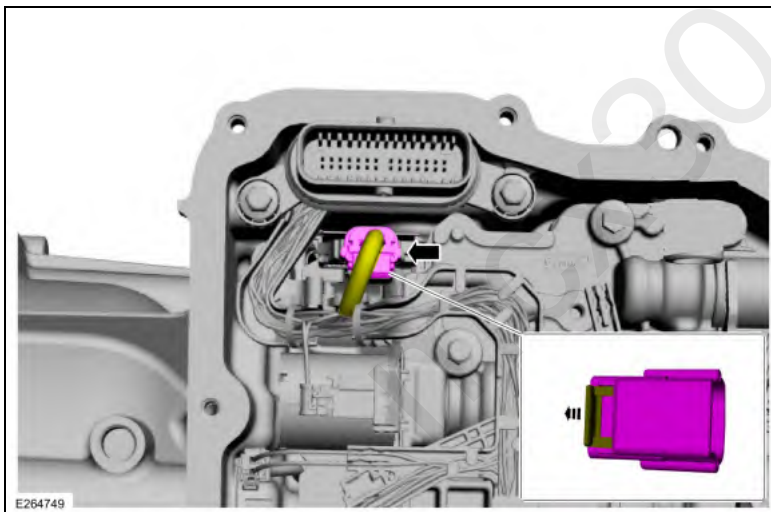
Main Control Valve Body

Removal

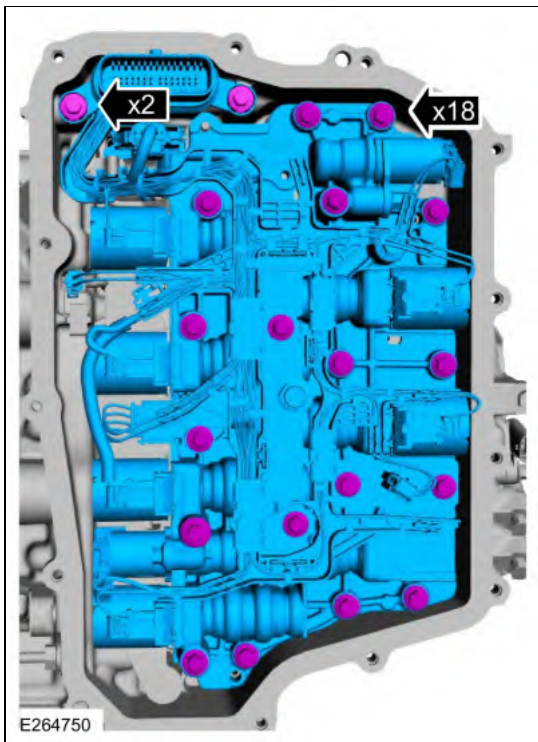
1. Remove the main control cover.
Refer to: Main Control Cover - 2.0L EcoBoost (177kW/240PS) â€” MI4 (307-01B) .
Refer to: Main Control Cover - 1.5L EcoBoost (132kW/180PS) â€” I4 (307-01B) .
2. Unlock and disconnect the OSS sensor electrical connector.



3. Unlock and disconnect the TR sensor electrical connector.

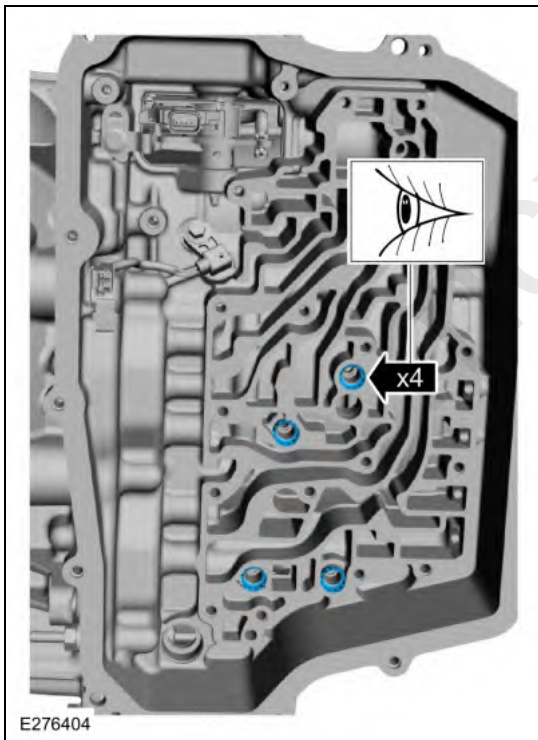


4. **NOTE:** Note the location of the short and long main control valve body bolts for assembly.
Remove the main control valve body bolts. Remove the main control valve body and transmission wiring harness assembly.



Installation

1. Verify the A (1, 2, 3, 4, 5), C (3, 7), F (2, 8), and the D (SOWC) clutch main control valve body case seals are in place.



2. **NOTE:** Note the location of the short and long main control valve body case bolts. Tighten the main control valve body bolts in the sequence shown.

NOTE: Verify the manual lever is positioned in the main control valve.

Install the main control, the transmission wiring harness and the main control bolts.

Torque:

Stage 1: 44 lb.in (5 Nm)

Stage 2: 62 lb.in (7 Nm)