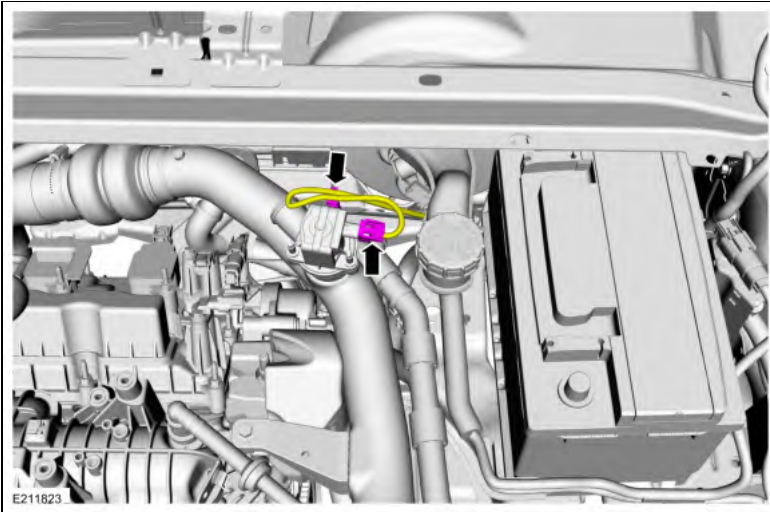
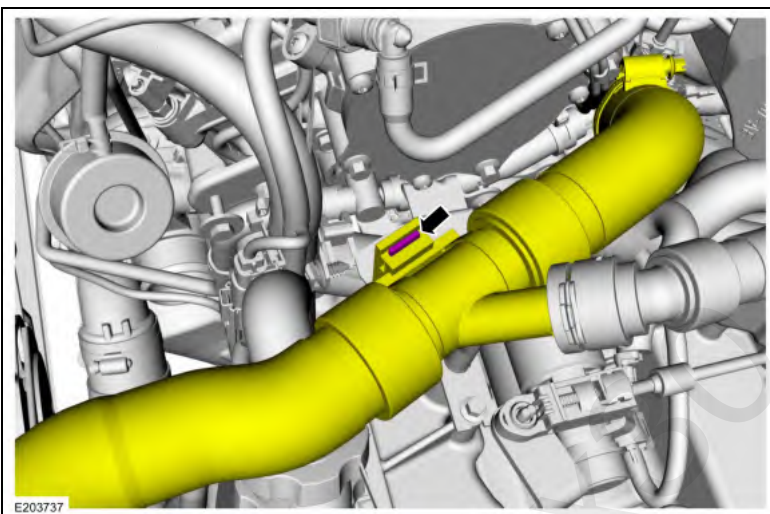




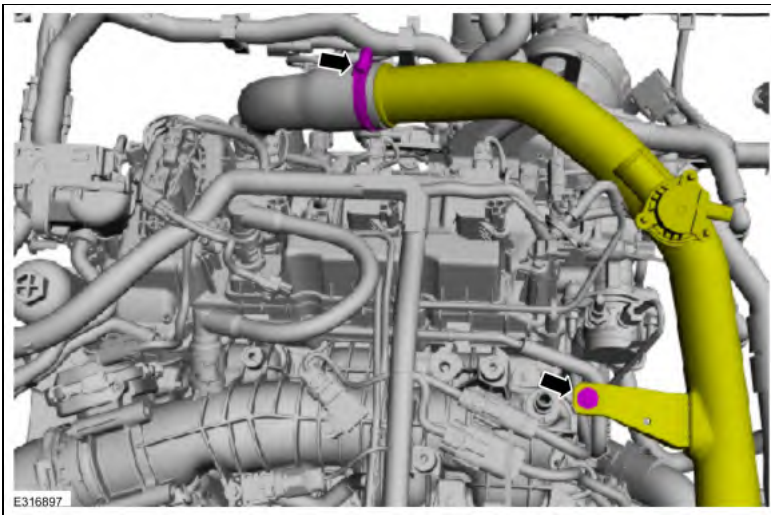
|  |
|--|
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

12. Detach the coolant hose from the starter motor bracket.

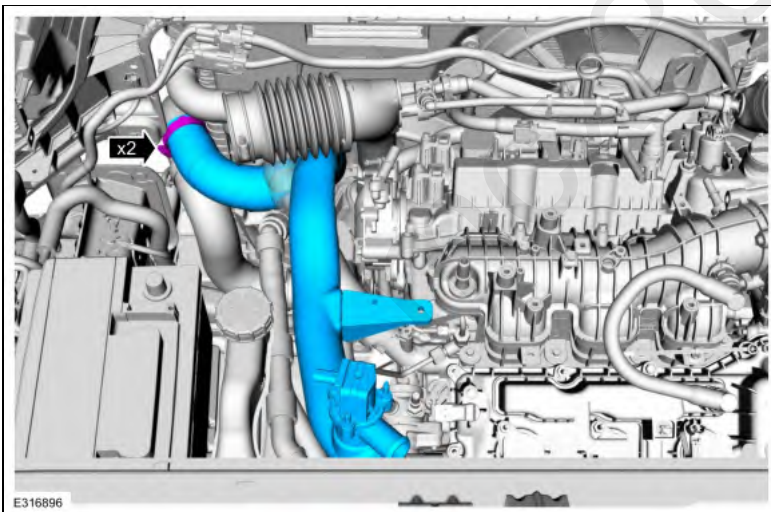


|  |
|--|
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

13. Remove the bolt and loosen the clamp, position the RH CAC intake pipe.



14. Loosen the clamp and remove the RH CAC intake pipe.



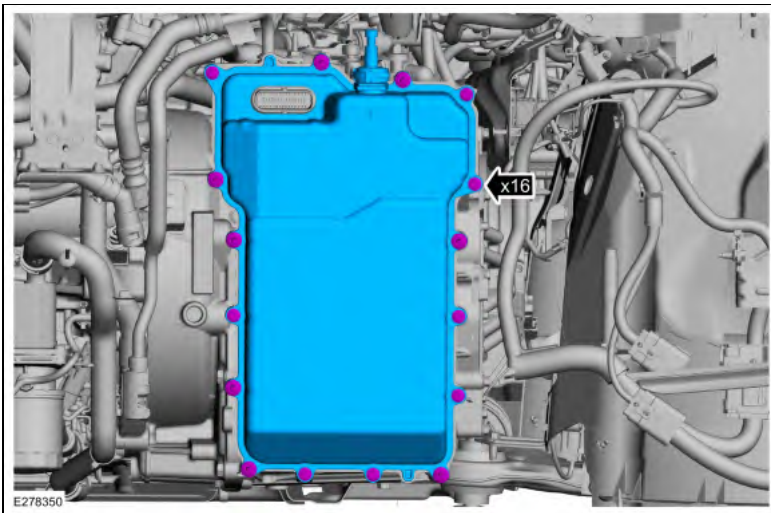
15. Disconnect the transmission electrical connector.
1. Slide the locking clip.
  2. Press the tab.
  3. While pressing the tab, rotate the connector latch.



A horizontal bar chart consisting of six stacked rectangular segments of equal width. From top to bottom, the segments are colored blue, green, brown, yellow, purple, and light blue. Each segment is outlined in black. The chart is positioned between two empty rectangular boxes, one above and one below it.

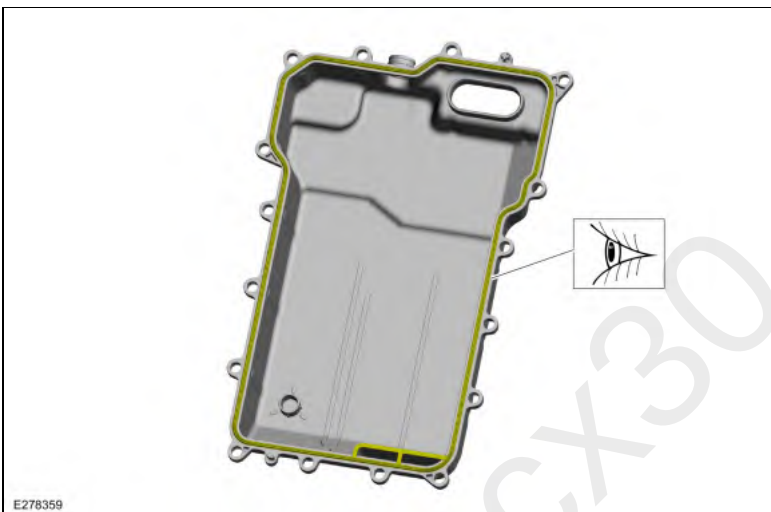


18. Remove the bolts and the main control cover.

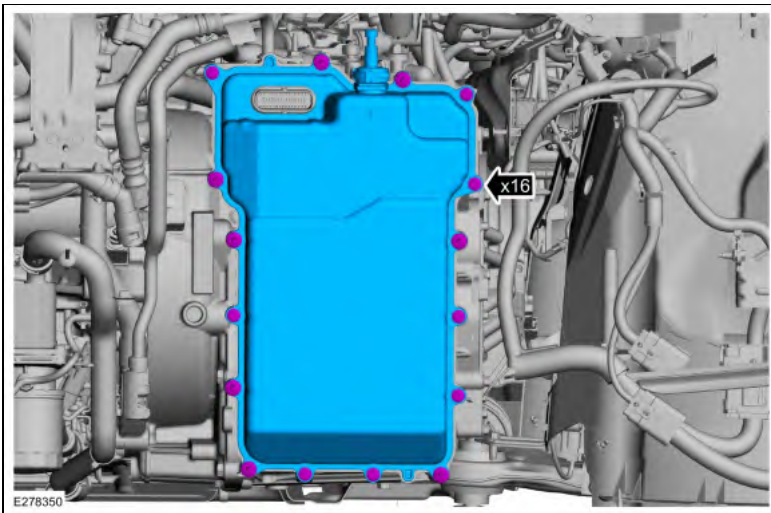


## Installation

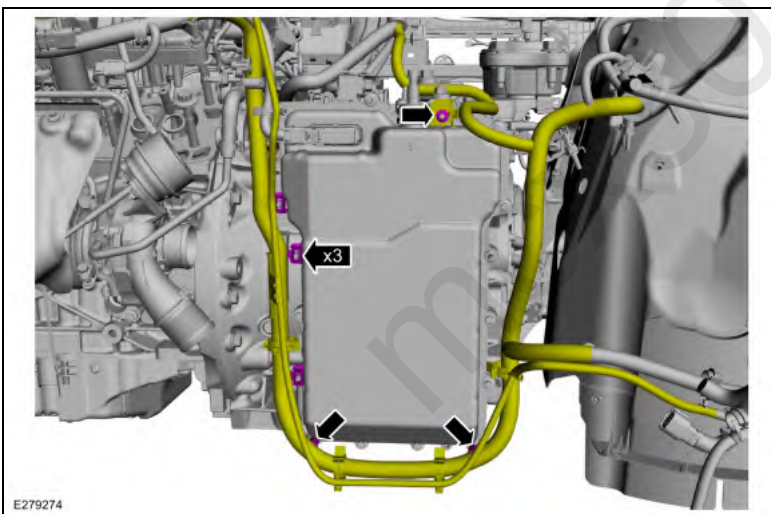
1. Inspect the main control cover seal for damage and install new if necessary.



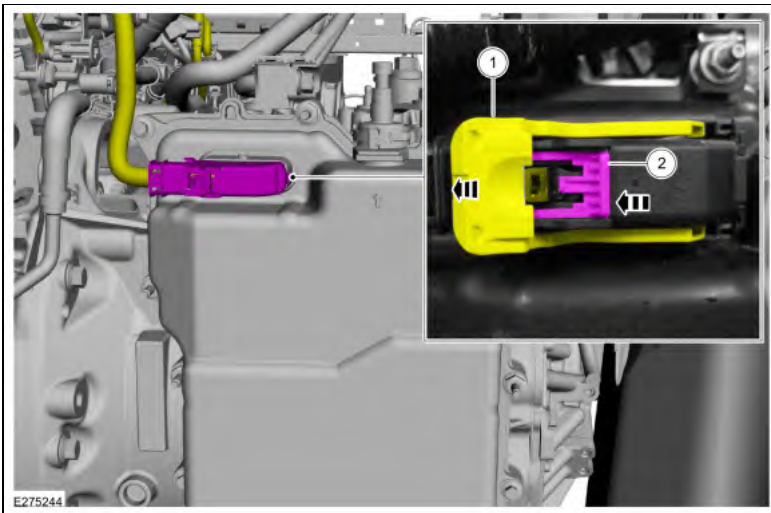
2. Install the main control cover and the stud bolts.  
*Torque: 106 lb.in (12 Nm)*



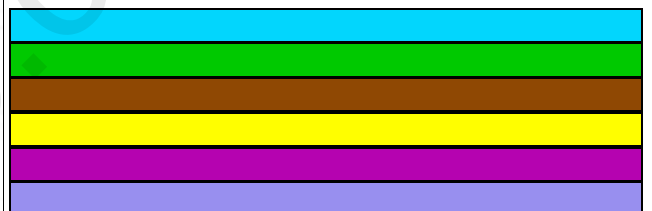
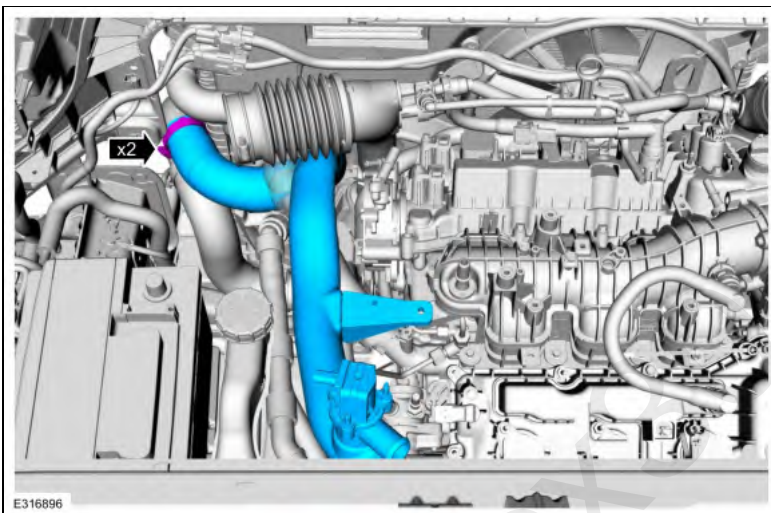
3. Position back the wiring harness, install the wiring harness retainers and the nut.  
Torque: 80 lb.in (9 Nm)



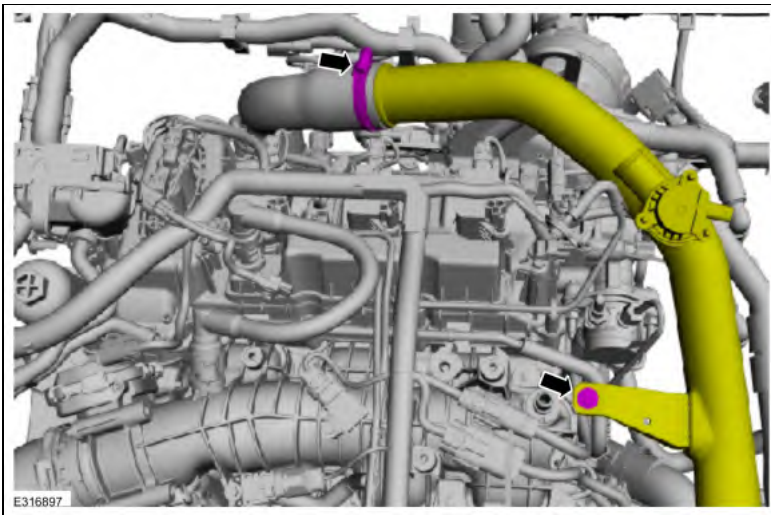
4. Connect the transmission electrical connector.
  1. Rotate the connector latch until it locks in place.
  2. Slide the locking clip back to its original position.



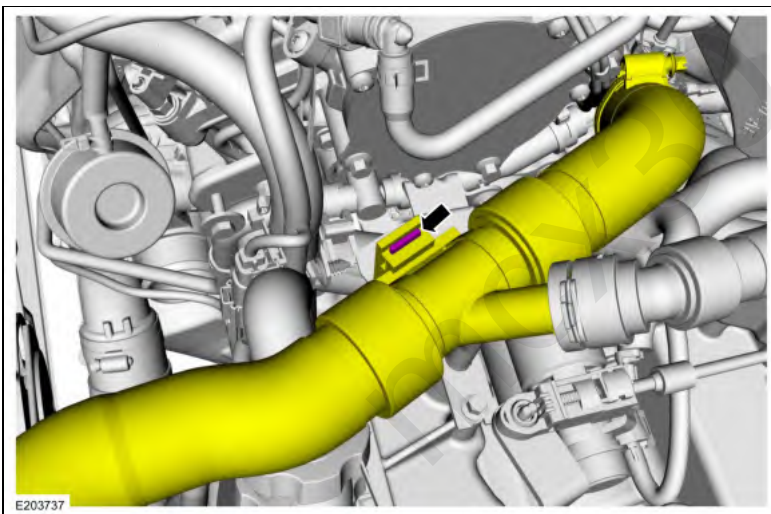
5. Install the RHCAC intake pipe and tighten the clamp.  
*Torque: 44 lb.in (5 Nm)*



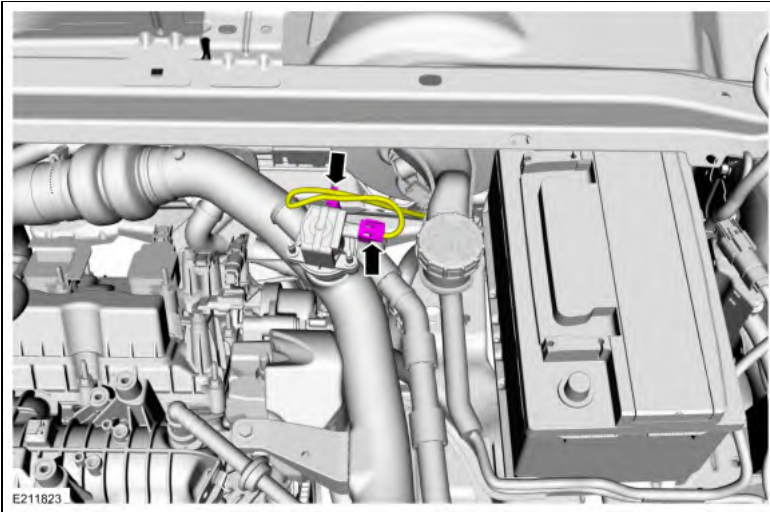
6. Position the RH CAC intake pipe.
- Install the bolt.  
*Torque: 71 lb.in (8 Nm)*
  - Tighten the clamp.  
*Torque: 35 lb.in (4 Nm)*



7. Attach the coolant hose to the starter motor bracket.

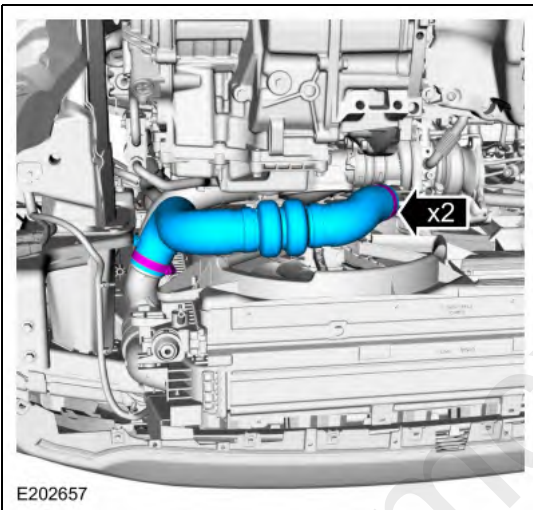


8. Connect the turbocharger bypass valve electrical connector and attach the wire harness to the mounting stud.



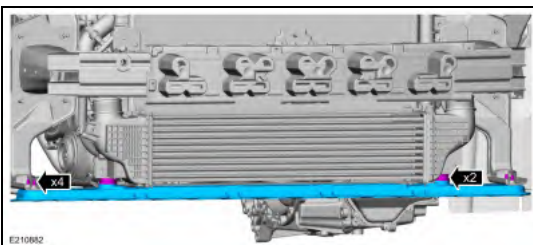
|  |
|--|
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

9. Install the LH CAC intake pipe, tighten the clamps.  
*Torque: 42 lb.in (4.8 Nm)*



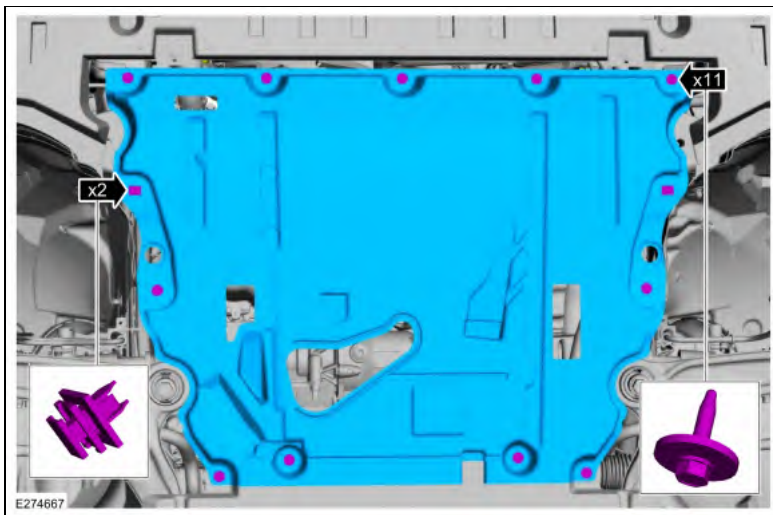
|  |
|--|
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

10. Install the lower radiator support and the bolts.  
*Torque: 18 lb.ft (24 Nm)*

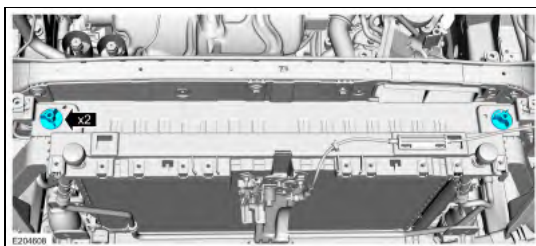


|  |
|--|
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

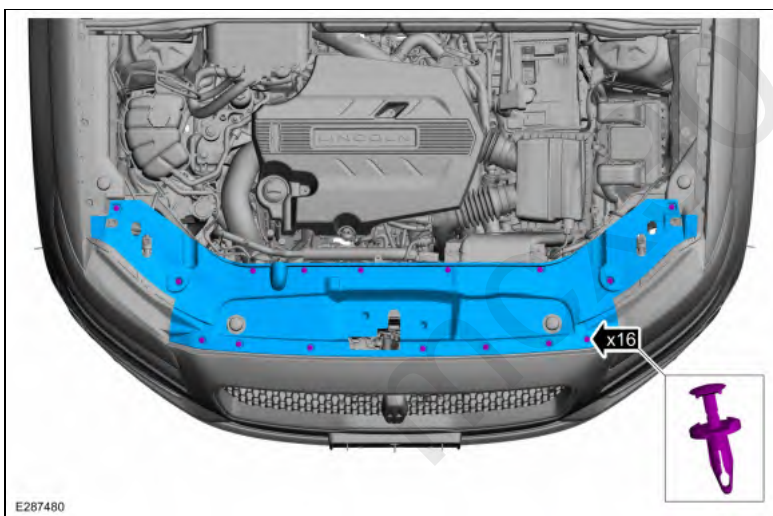
11. Install the underbody shield and the retainers.



12. Remove the tie straps and install the radiator guide pins.



13. Install the radiator sight shield and the push pins.



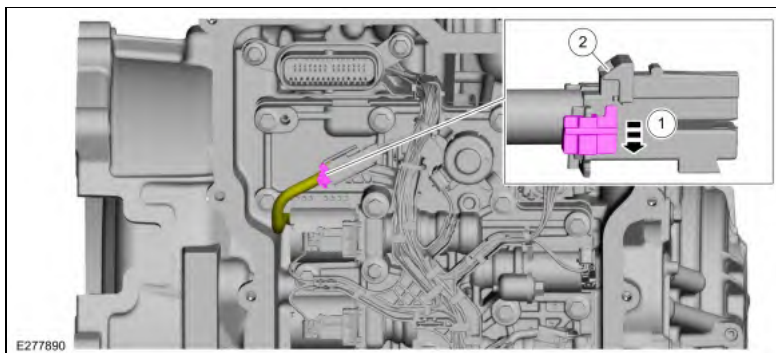
14. Install the battery.  
Refer to: Battery (414-01 Battery, Mounting and Cables, Removal and Installation).
15. Install the LH air cleaner outlet pipe.
16. Install the RH air cleaner outlet pipe.
17. Install the air cleaner.  
Refer to: Air Cleaner (303-12B Intake Air Distribution and Filtering - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
18. Fill the transmission with transmission fluid.  
Refer to: Transmission Fluid Level Check (307-01B Automatic Transmission - 8-Speed Automatic Transmission 8F57, General Procedures).



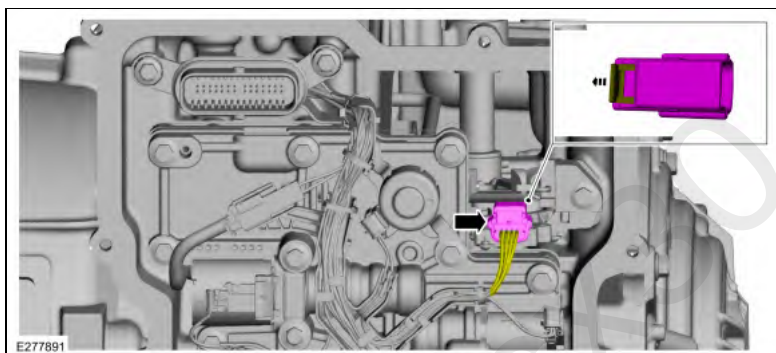
## Main Control Valve Body

### Removal

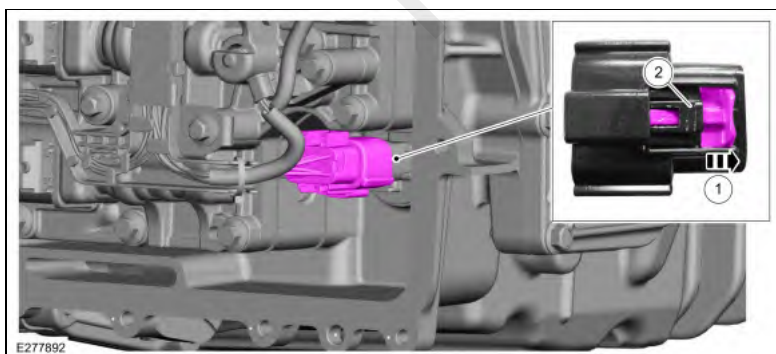
1. Remove the main control cover.  
Refer to: Main Control Cover (307-01B Automatic Transmission - 8-Speed Automatic Transmission â€” 8F57, Removal and Installation).
2. Disconnect the OSS sensor electrical connector.
  1. Slide the locking tab.
  2. While pressing the tab disconnect the OSS electrical connector.



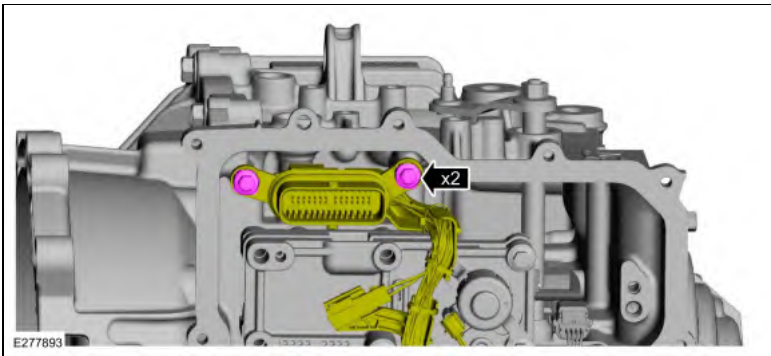
3. Unlock and disconnect the TR sensor electrical connector.



4. Disconnect the bulkhead electrical connector.
  1. Slide the locking tab.
  2. While pressing the tab disconnect the bulkhead electrical connector.

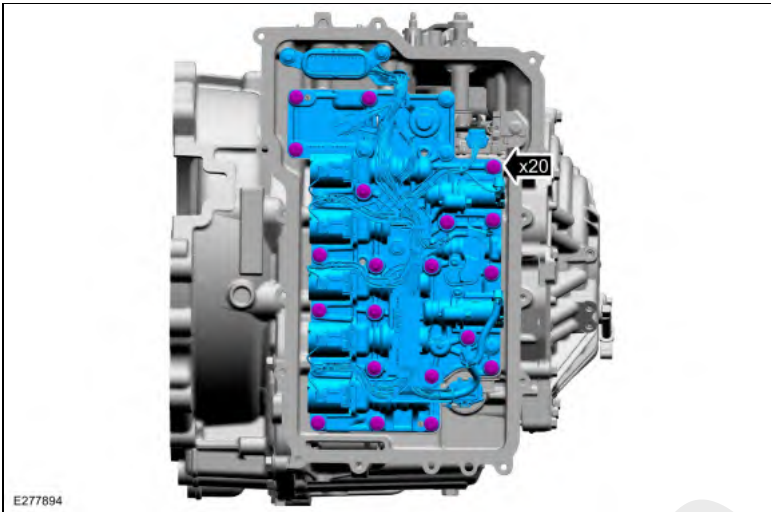


5. Remove the transmission wiring harness bolts.



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

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

Torque: 89 lb.in (10 Nm)