

Main Control Valve Body

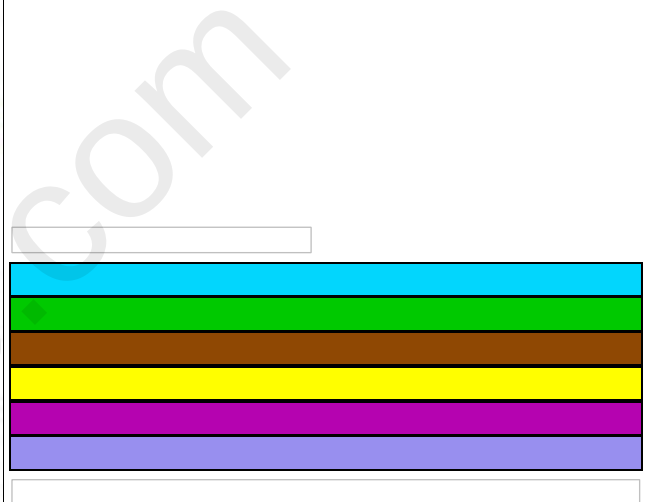
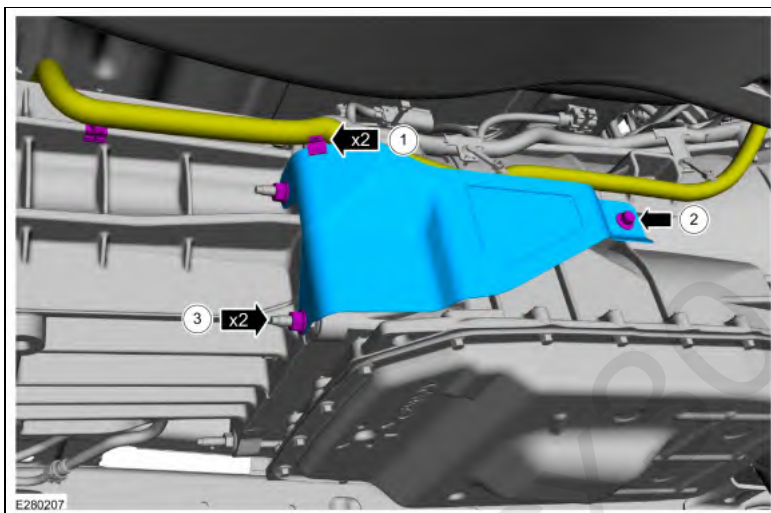
Special Tool(s) / General Equipment



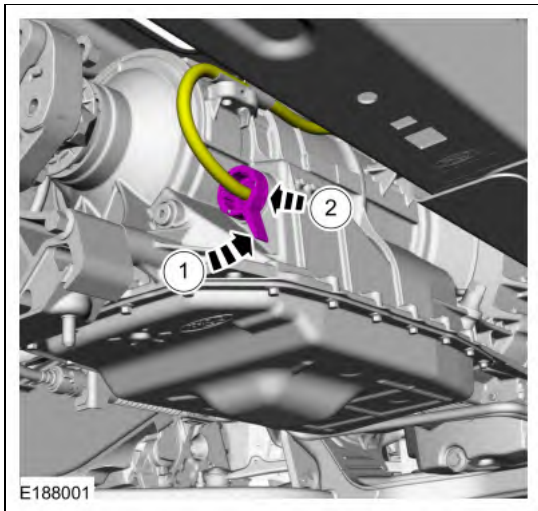
Removal

NOTE: The Solenoid Body Strategy Data Download procedure must be performed if a new main control assembly is installed.

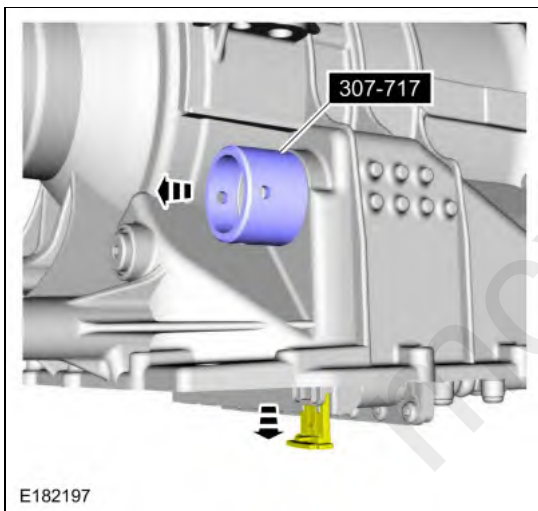
1. Remove the transmission fluid pan and filter.
Refer to: Transmission Fluid Pan, Gasket and Filter (307-01 Automatic Transmission - 6-Speed Automatic Transmission - 6R100) .
2.
 1. Detach the retainers and position the wiring harness aside.
 2. Remove the heat shield bolt.
 3. Remove the nuts and the heat shield.



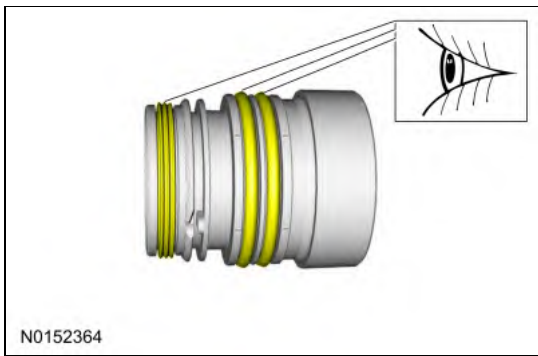
3. **NOTICE: Do not pull on the wiring harness to disconnect the electrical connector or damage to the electrical connector will occur.**
 1. Rotate the transmission electrical connector counterclockwise.
 2. Pull the transmission electrical connector out to disconnect.



4. Pull the transmission bulkhead connector sleeve retainer down to release it. Using the special tool, pull the outer shell of the bulkhead connector sleeve out of the transmission.
Use Special Service Tool: 307-717 Remover, Kostal Sleeve.

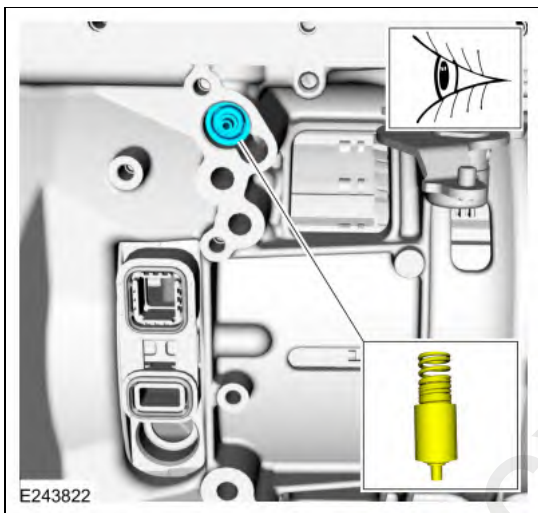


5. Inspect the bulkhead connector sleeve seals and install new seals if damage is found.



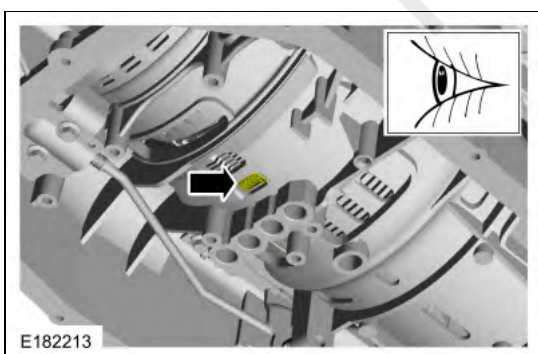
6. **NOTICE:** During removal of the main control assembly, the thermal bypass valve or blank plug can fall out of the transmission case. Damage to the valve or plug can occur if the valve or plug falls out.

Remove the bolts from the main control assembly and remove the main control assembly and the thermal bypass valve or blank plug. Inspect the thermal bypass valve for damage and discard the valve if damage is found.



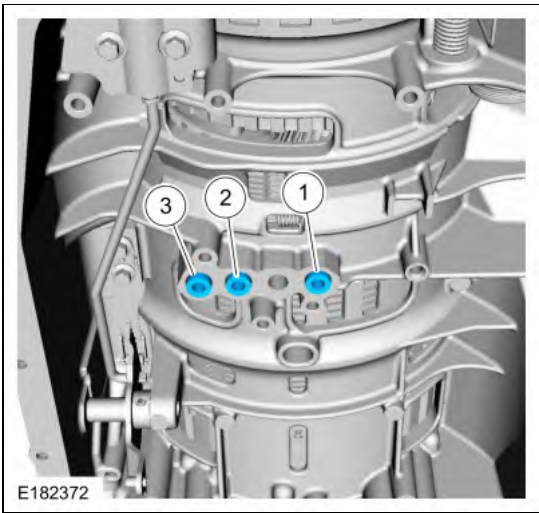
Installation

1. Inspect the bias spring to make sure it is positioned correctly in the transmission case.

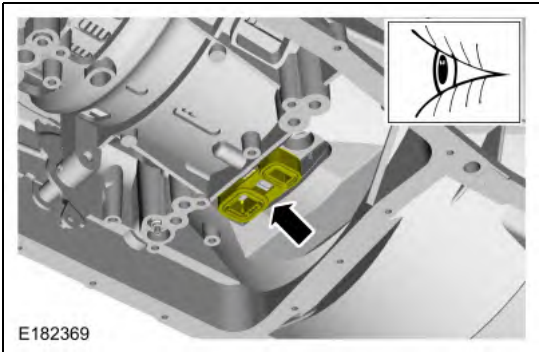


2. **NOTE:** Before installing the main control assembly into the transmission case, verify the presence and orientation of the center support feed tube seals. Also note that one or more of the center support feed tube seals may have remained in the main control assembly during removal and should be installed into the transmission case at this time.

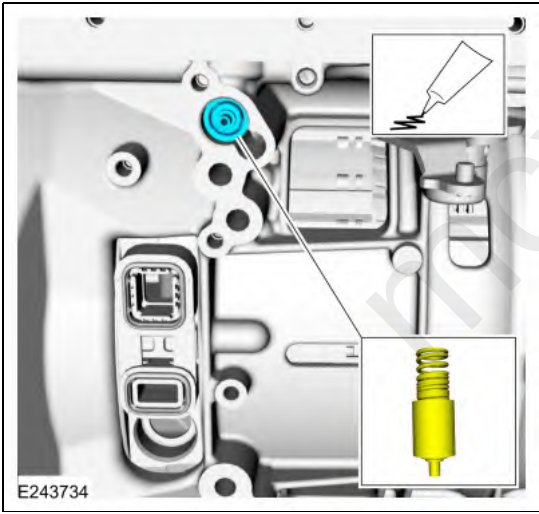
1. Center support feed tube seal (7G199 Black)
2. Center support feed tube seal (7G087 Green or Orange)
3. Center support feed tube seal (7G084 Blue)



3. Verify the rubber adapter is in place.



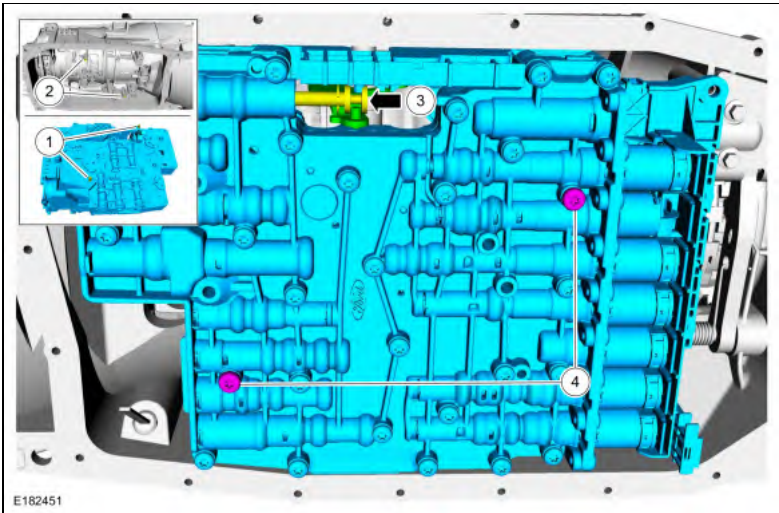
4. Material: Petroleum Jelly
Coat the thermal bypass valve or plug with petroleum jelly to hold it in place and install the thermal bypass valve or plug into the transmission case.



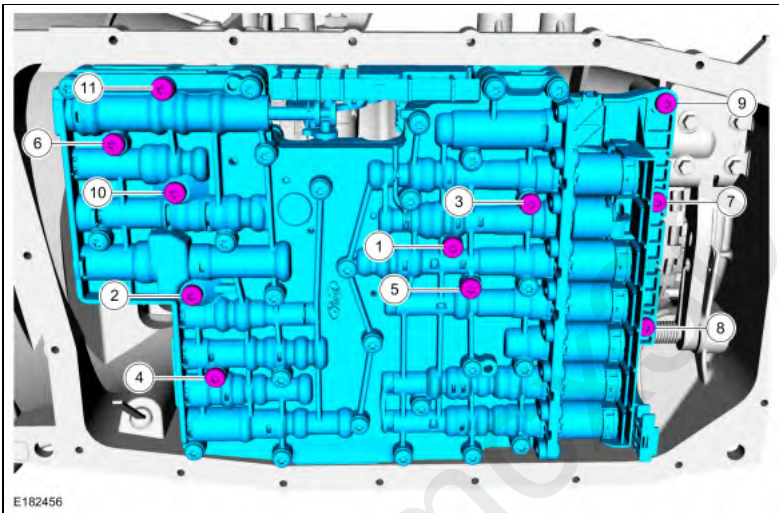
5. **NOTE:** The main control will not rest flush on the on the transmission case, this is a normal condition with the rubber feed tubes, the bolts will pull the main

control assembly to the case.

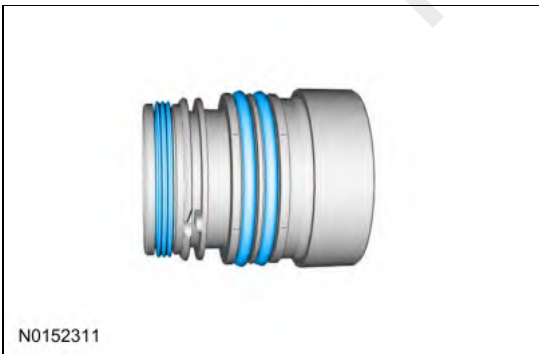
- 1. Align the guide pins on the main control with the alignment holes in the transmission case.
- 2. Alignment holes.
- 3. Align the manual valve with the manual valve pin.
- 4. Loosely install the 2 bolts.



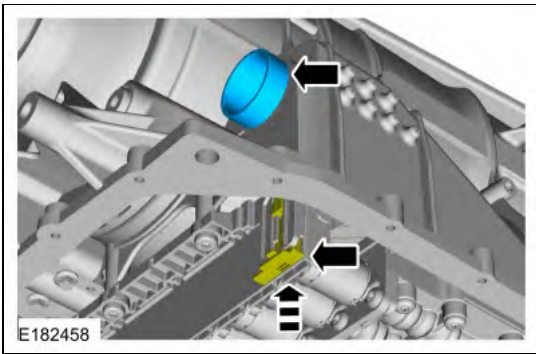
6. Install the main control valve body bolts and tighten in the sequence shown.
Torque: 71 lb.in (8 Nm)



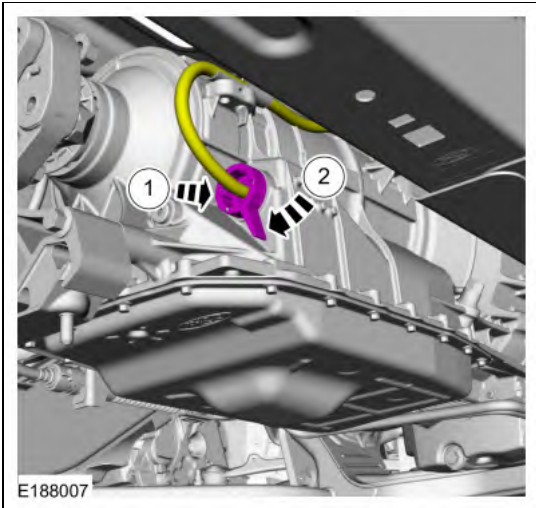
7. If removed, install the bulkhead connector sleeve seals.



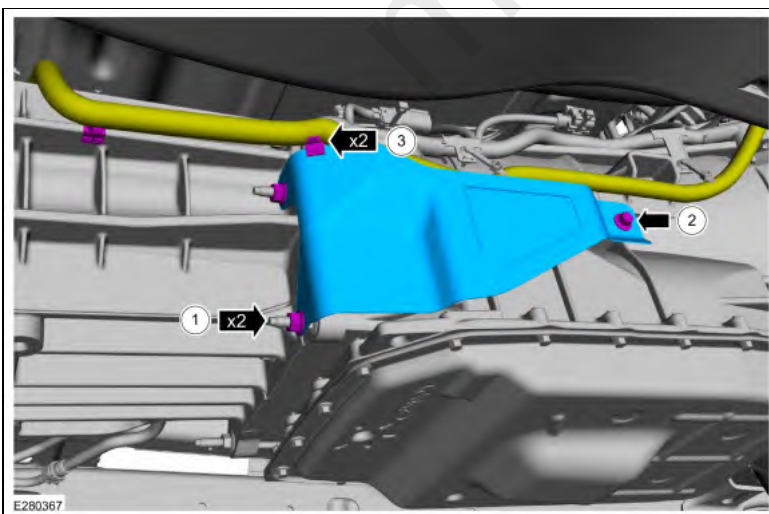
8. With the release tab down and unlocked, push the outer shell of the bulkhead electrical connector into the transmission. Make sure the bulkhead connector is fully seated into the molded leadframe. Push up on the tab and lock the outer shell of the bulkhead electrical connector in place. Make sure the locking tab is securely locked.



- 9.
1. Connect the transmission electrical connector.
 2. Rotate the transmission electrical connector clockwise to lock it.



- 10.
1. Install the heat shield and the nuts.
Torque: 18 lb.ft (25 Nm)
 2. Install the heat shield bolt.
Torque: 18 lb.ft (25 Nm)
 3. Attach the wiring harness retainers.



11. Install the transmission fluid pan and filter.
Refer to: Transmission Fluid Pan, Gasket and Filter (307-01 Automatic Transmission - 6-Speed Automatic Transmission - 6R100) .
12. **NOTE:** *If an individual solenoid was replaced clear the adaptive strategy.*

If any of the solenoids were replaced, Perform a Road Test "Adaptive Drive Cycle" after the adaptive strategy is cleared.
Refer to: Adaptive Learning Drive Cycle (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission "6R100, General Procedures).

13. **NOTE:** *The solenoid body strategy data file and solenoid body identification must be updated anytime a new solenoid body is installed. A new solenoid body service tag must be installed over the current solenoid body service tag on top of the transmission case.*

If a new main control was installed, download a new transmission strategy.

Refer to: Transmission Strategy Download (307-01A Automatic Transmission, Transfer Case and Power Transfer Unit - 6-Speed Automatic Transmission â€“ 6R100, General Procedures).

mcx30.com