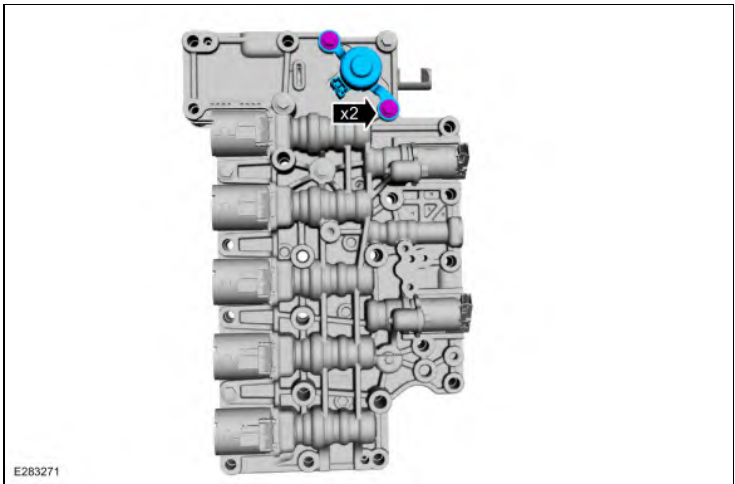
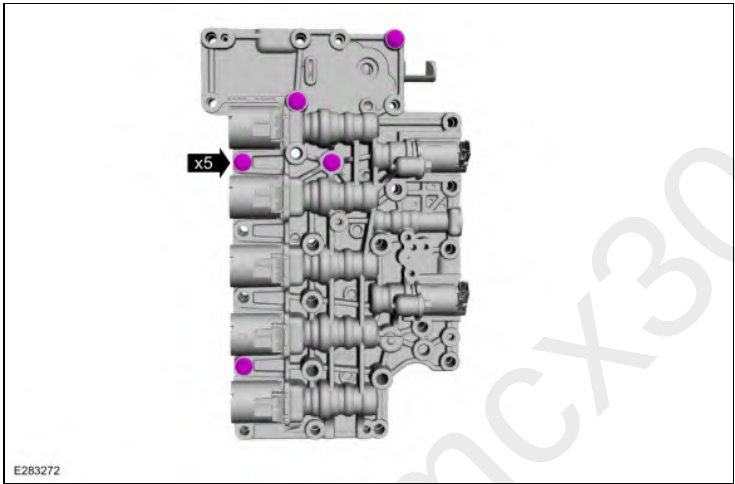
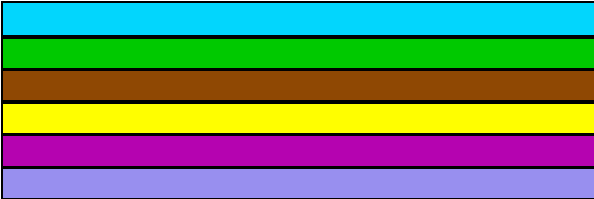
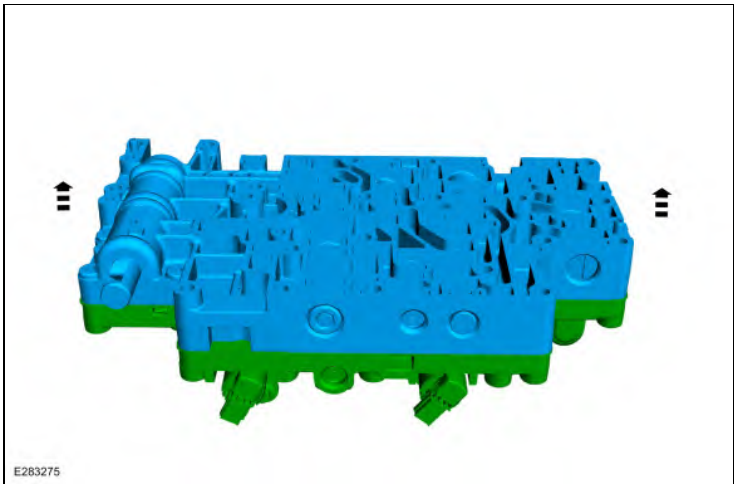




5. Remove the solenoid body-to-main control bolts.

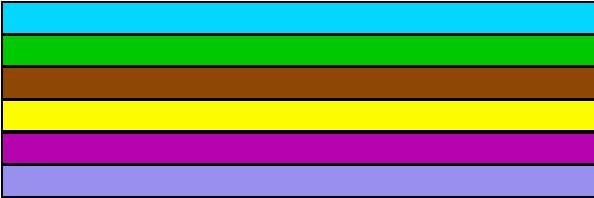
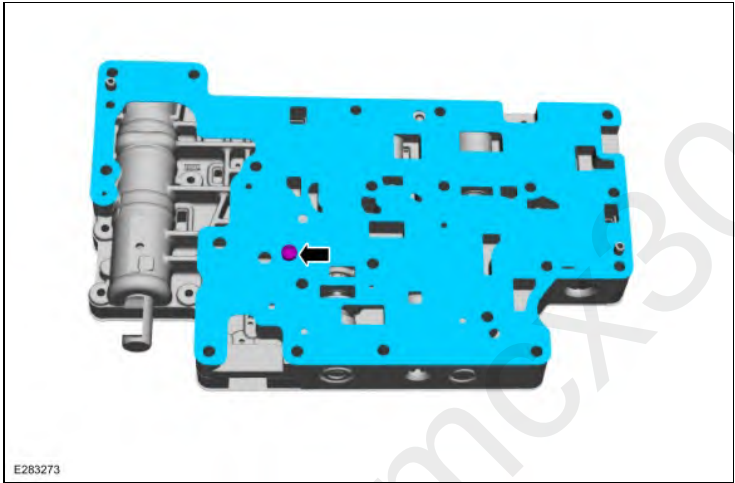


6. Remove the main control valve body from the solenoid body.

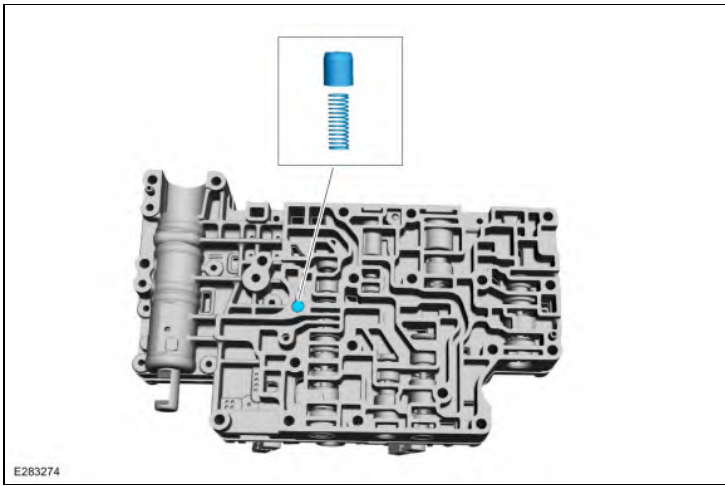


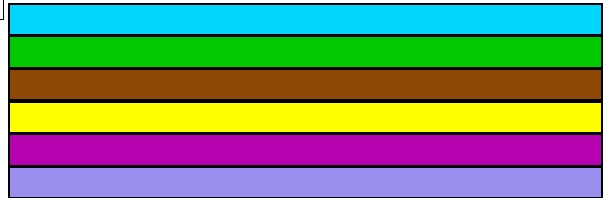
Main Control Valve Body and Solenoid Body

7. Remove the bolts and the solenoid body to main control valve body separator plate.

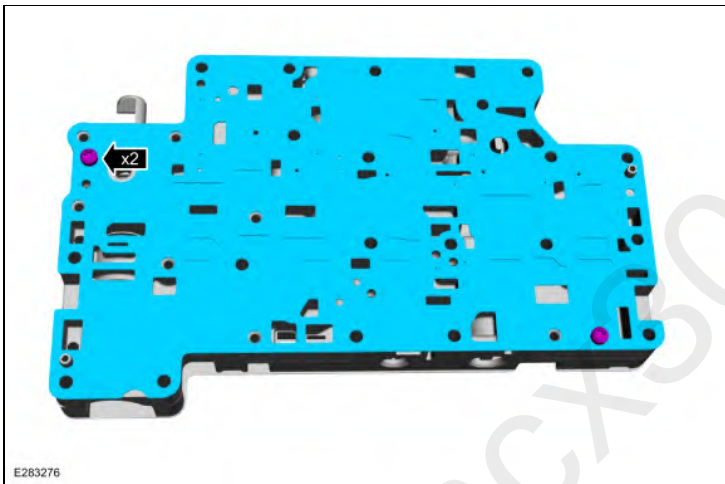


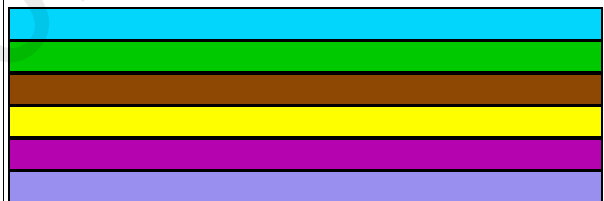
8. Remove the bypass valve and spring.



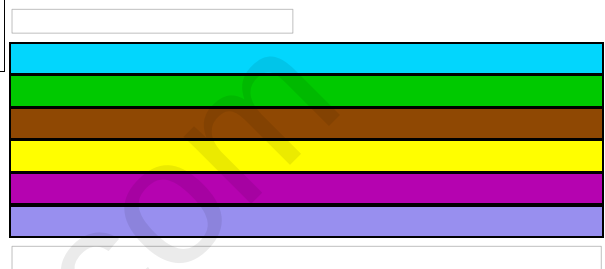
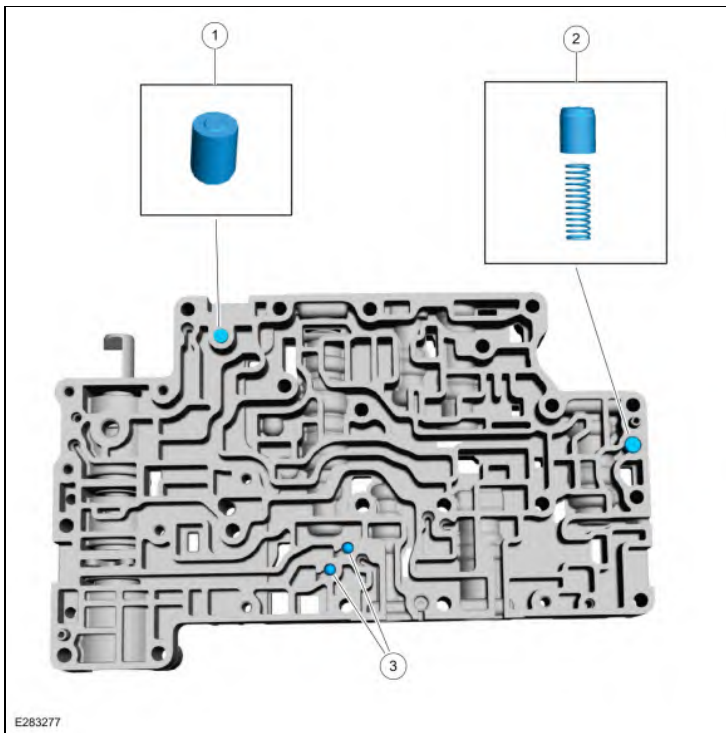


9. Remove the bolts and the solenoid body to main control valve body separator plate.





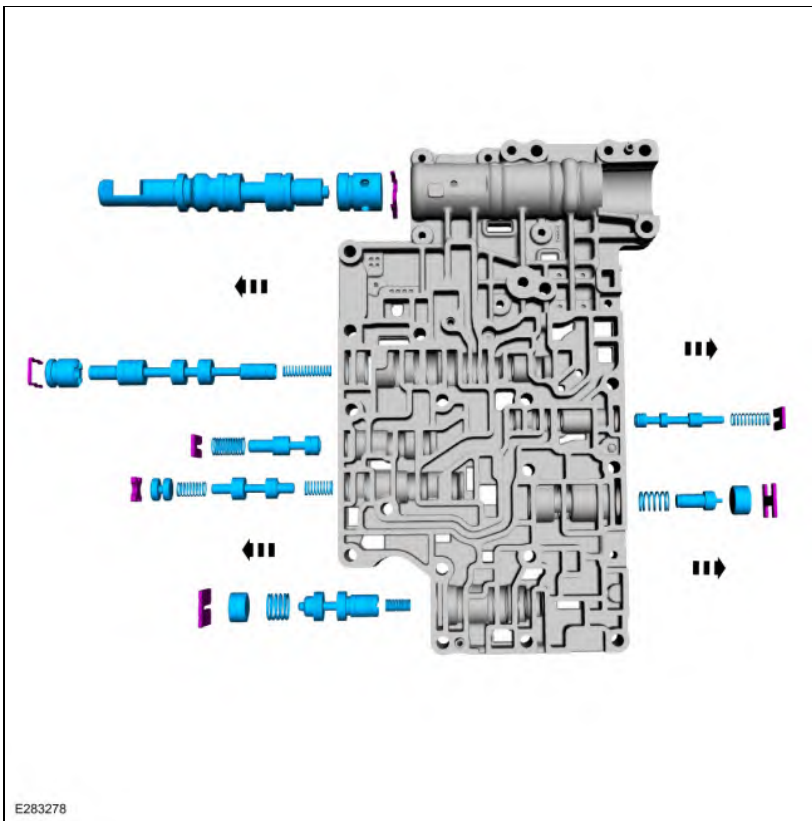
10. Remove the following items.
1. Solenoid damper
 2. Bypass valve and spring
 3. Check ball



11. **NOTICE:** Remove the valves by tapping the valve body on the palm of the hand to slide the valves out of the bores or by threading a 4-mm bolt into the valves and pulling them out. If it is necessary to use a pick, use extreme caution to prevent damaging the valves or valve bores. If necessary, disassemble parts of the main control valve body in small groups. Arrange the parts as they are removed to avoid mixing similar pieces.

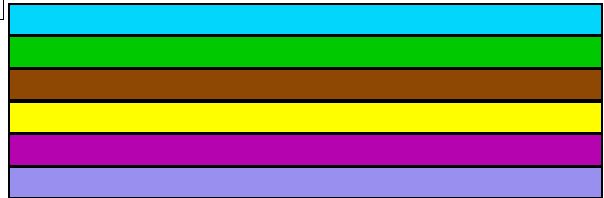
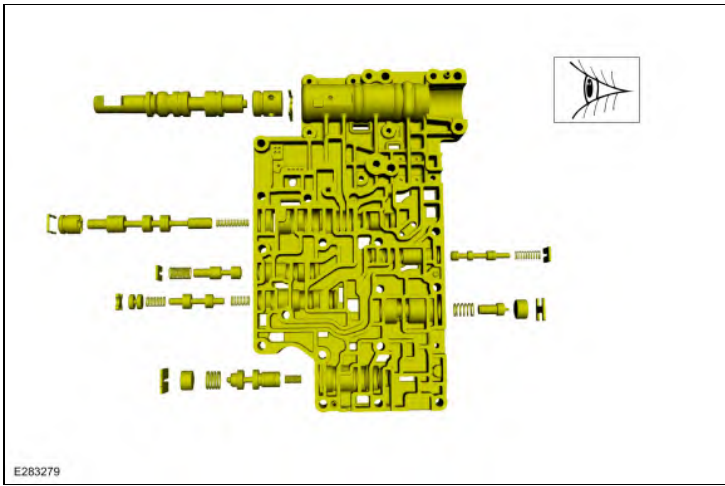
Compress the valve springs with a screwdriver and remove the retainers with a magnet. Use a pick to remove the bypass valve retainer. Remove the individual valves and springs from the main control valve body by tapping the valve body on the palm of the hand to slide the valves out of the bores.

Use the General Equipment: Flat Headed Screw Driver

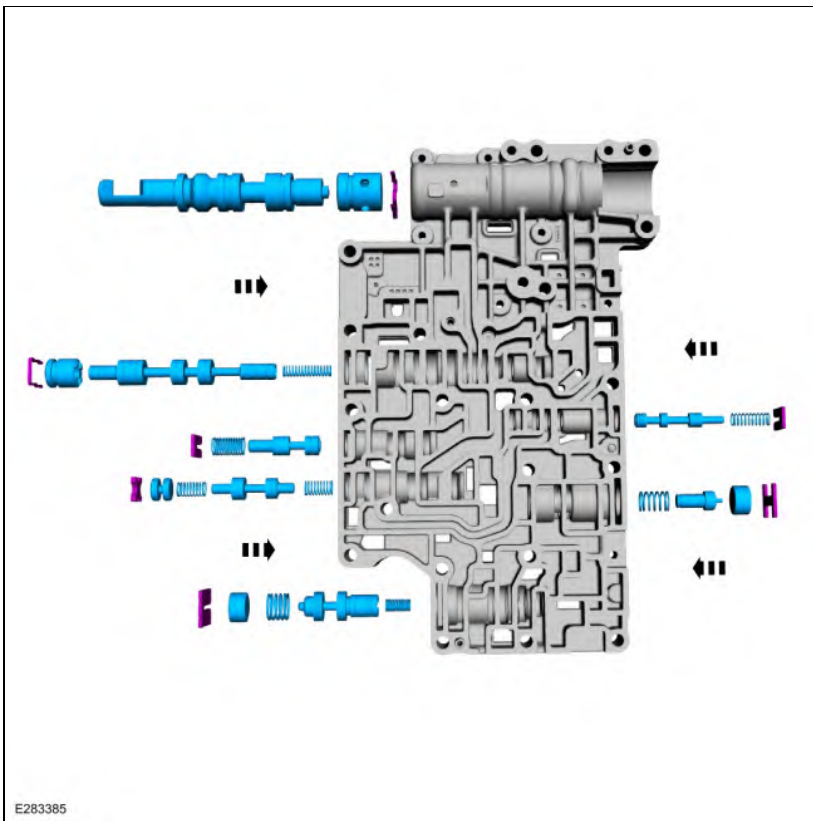


12. **NOTICE:** Do not stone or polish any valves or damage to the valves can occur. If the valves do not move freely, install a new assembly.

Clean the valves, springs and main control valve body.



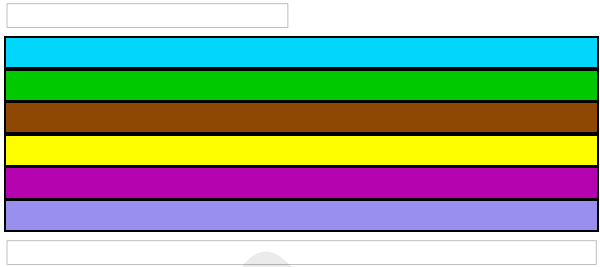
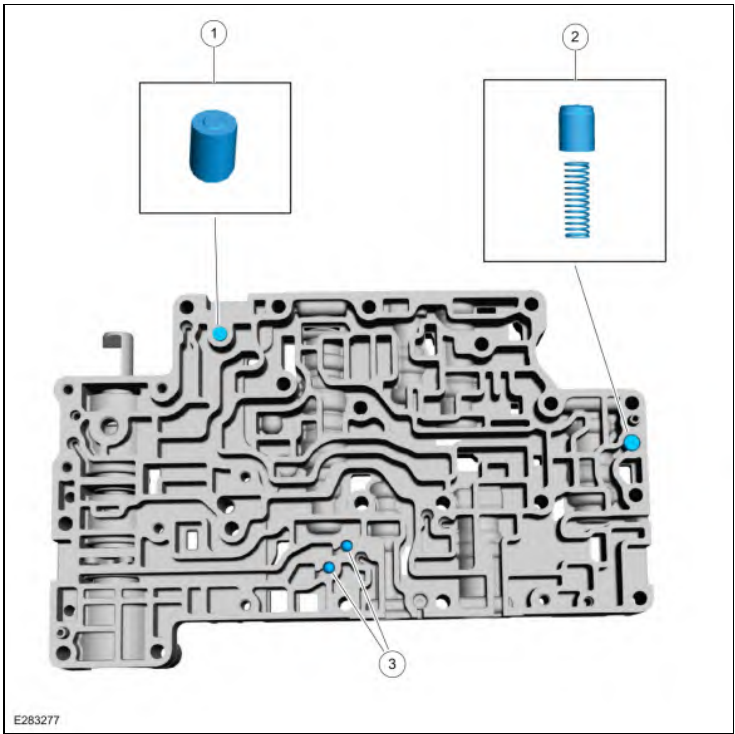
13. Install the valve body valves, springs and retaining clips in the main control valve body. For valve and spring locations.
Refer to: Main Control Valve Body (307-01B Automatic Transmission - 8-Speed Automatic Transmission 8F57, Description and Operation).



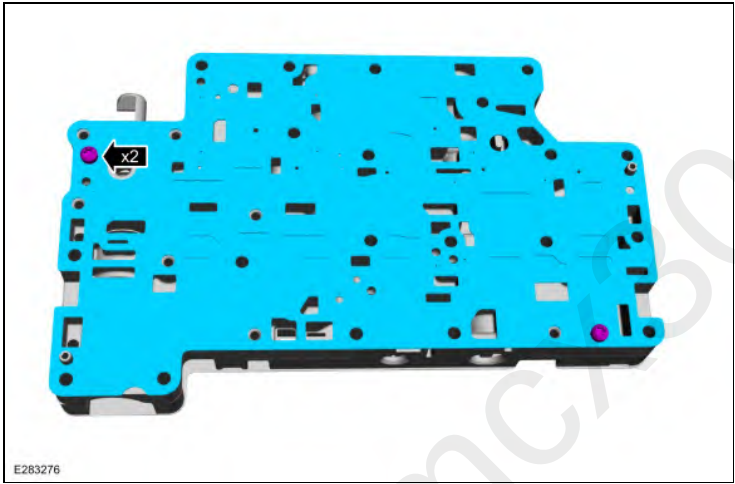
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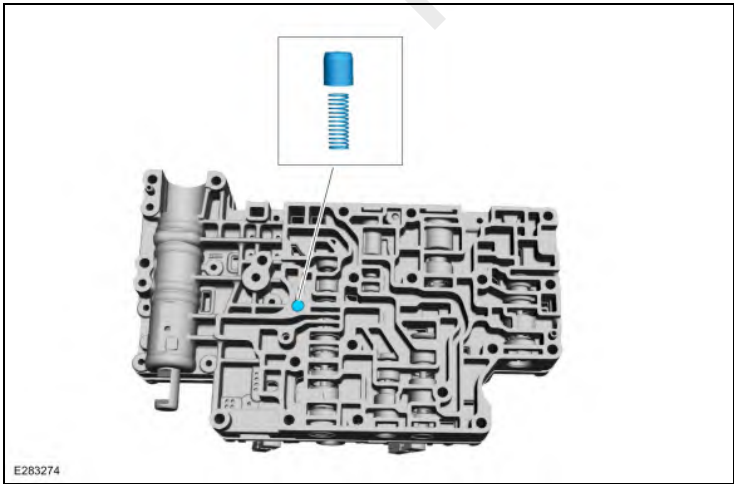
- 14.
- Install the following items.
1. Solenoid damper
 2. Bypass valve and spring
 3. Check ball



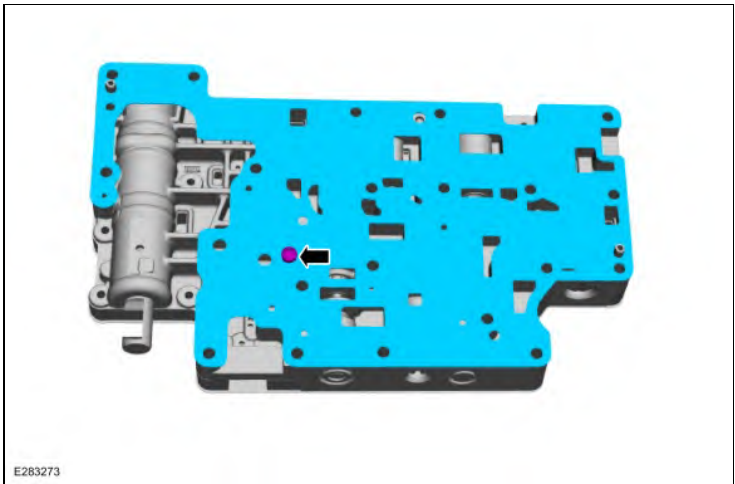
15. Install the seperator plate and the bolts.
Torque: 80 lb.in (9 Nm)



16. Install the spring and bypass valve

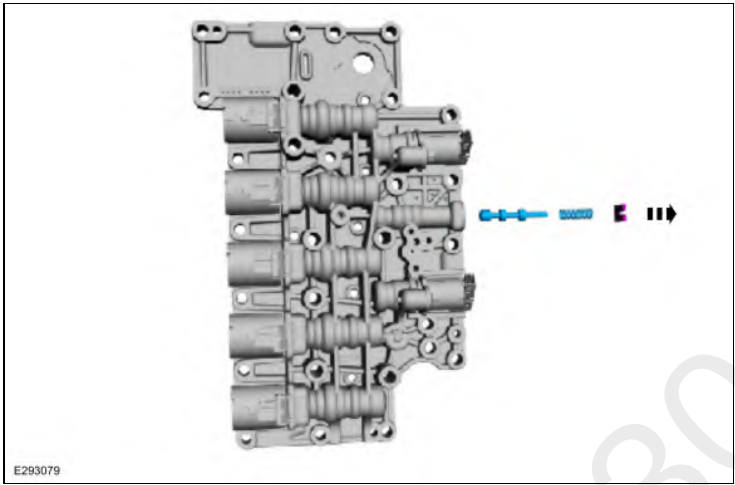


17. Install the solenoid body to main control valve body separator plate and the bolt.
Torque: 80 lb.in (9 Nm)

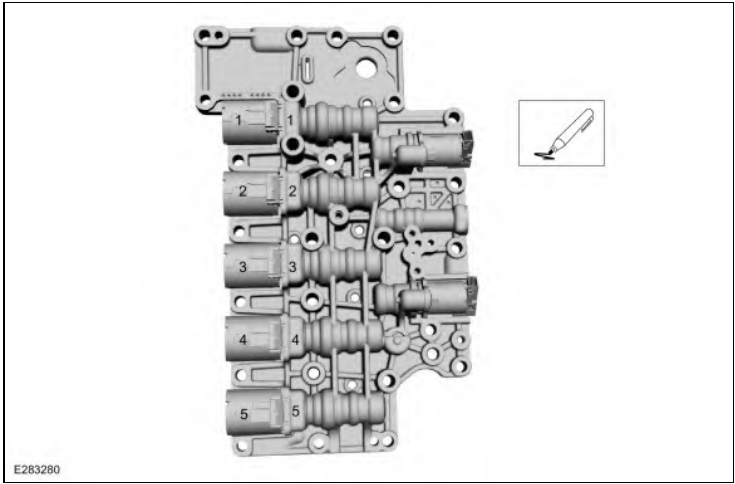


Solenoid Body

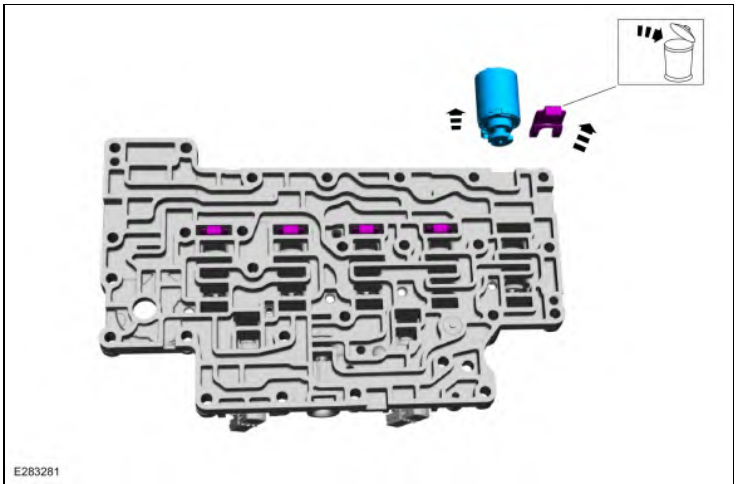
18. Compress the valve spring with a screwdriver and remove the retainer with a magnet. Remove the valve and spring from the solenoid body by tapping the solenoid body on the palm of the hand to slide the valve out of the bore.



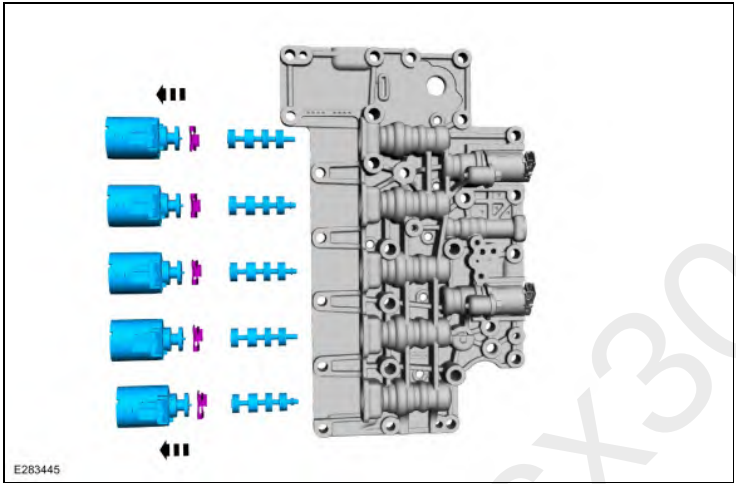
19. Using a paint marker, number the solenoids and the solenoid body to correspond with the ports from which the solenoids are located in the solenoid body.



20. Remove and discard the transmission shift solenoid clip and remove the transmission shift solenoid.

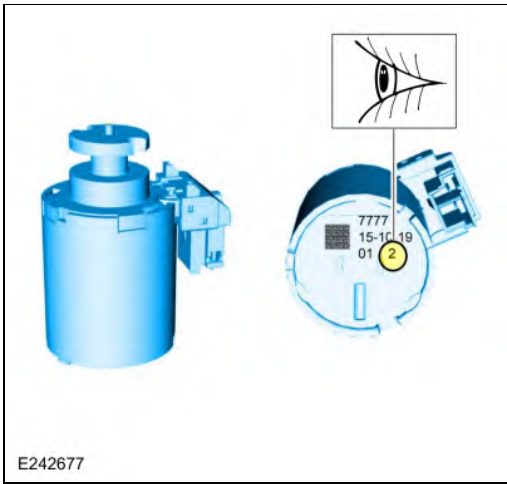


21. Remove the shift solenoids and valves.

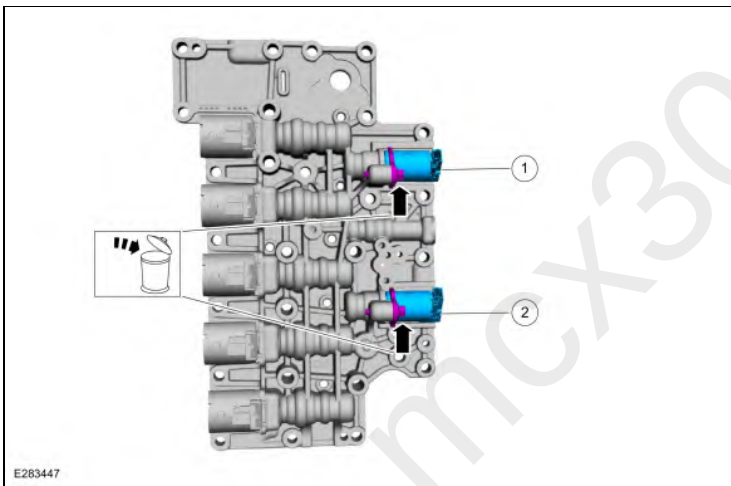


22. **NOTE:** Failure to install the components in the correct location will result in harsh/soft or no shifts or damage to the transmission.

If new solenoids are needed, identify the solenoid band number.



23. Remove and discard the transmission solenoid hold down clamp bolts, remove the clamps and transmission solenoids.
1. The TCC solenoid is identified by the green electrical connector.
 2. The LPC solenoid is identified by the blue electrical connector.



24. Inspect the solenoid screens for debris that may restrict fluid flow through the screen.



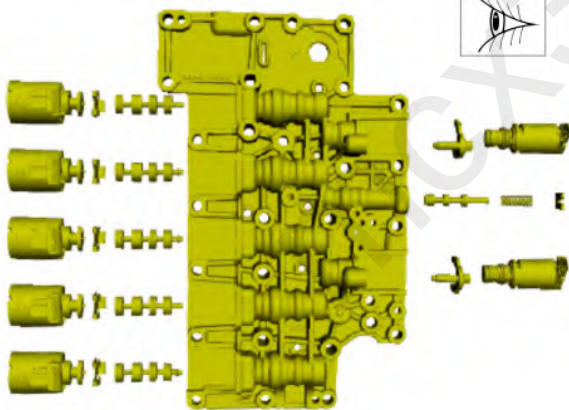
E266310



25. **NOTICE:** Be careful not to wash the numbers from the solenoids or the solenoid body. Failure to install the solenoids in the ports they were originally in can result in damage to the transmission or a harsh shift.

NOTICE: Do not stone or polish any valves or damage to the valves can occur. If the valves do not move freely during assembly, install a new solenoid body.

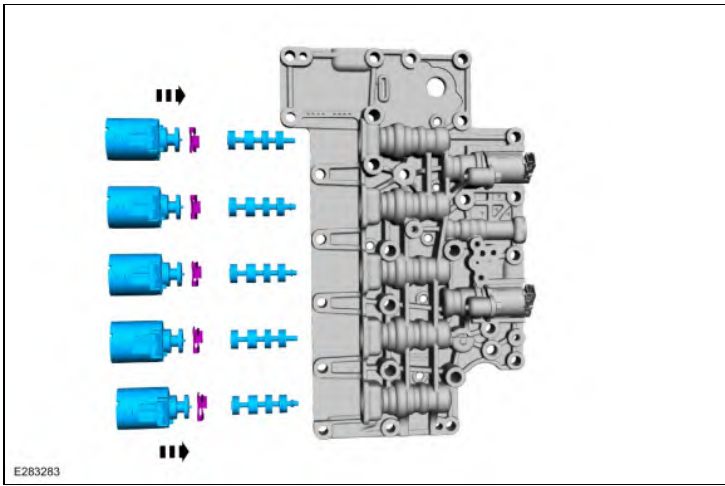
Clean and inspect the solenoid body, solenoids and valve assemblies for damage.



E293081

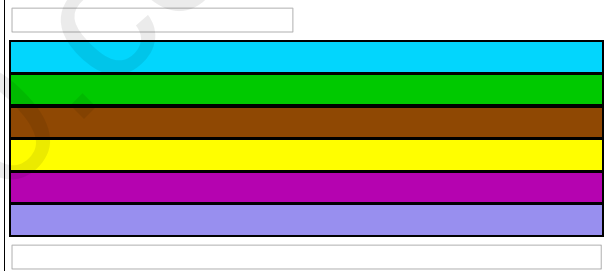
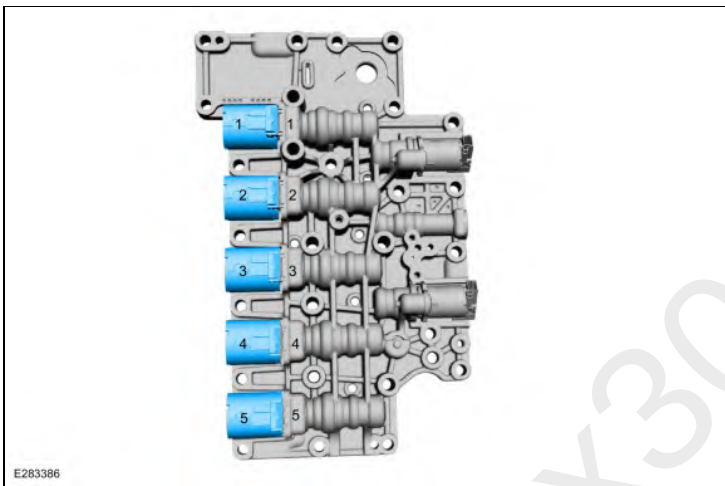


26. Install the transmission shift control valves and the transmission shift control solenoids and new clips.

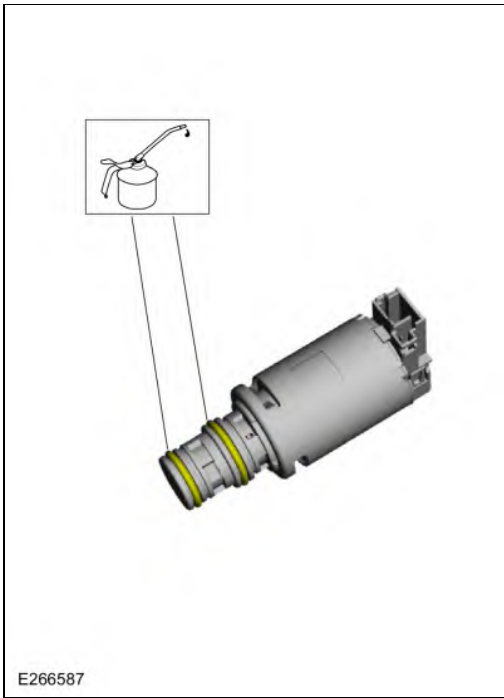


27. **NOTE:** The A-F clutches use linear force solenoids, the CIDAS are all normally low solenoids.

1. SSF solenoid part number 7J136
2. SSE solenoid part number 7J136
3. SSA solenoid part number 7J136
4. SSC solenoid part number 7J136
5. SSB solenoid part number 7J136



28. Lubricate the transmission solenoid O-rings with clean transmission fluid.
 Material: Motorcraft® MERCON® ULV Automatic Transmission Fluid / XT-12-QLV (WSS-M2C949-A,) (MERCON® ULV)

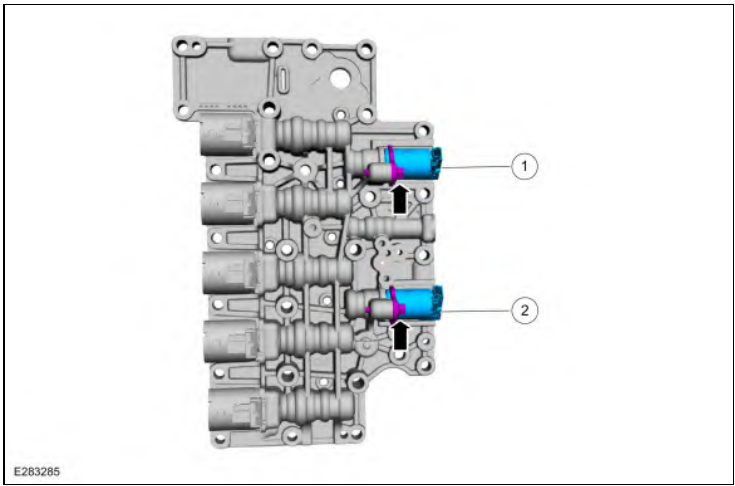


29. **NOTE:** If installing a new Variable Force Solenoid (VFS), determine the base part number of the solenoid(s). The TCC solenoid is a normally low pressure solenoid. The LPC solenoid is a normally high pressure solenoid.

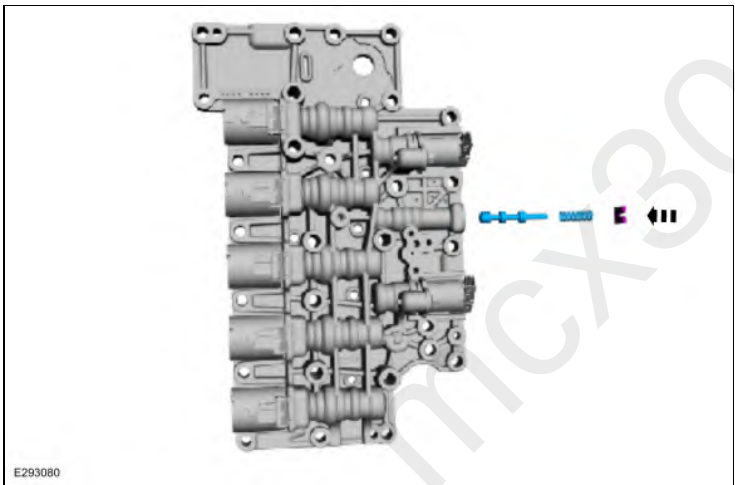
Install the transmission solenoids, hold down clamps and new bolts.

1. The TCC solenoid is identified by the green electrical connector. The TCC solenoid part number 7G136.
2. The LPC solenoid is identified by the blue electrical connector. The LPC solenoid part number 7G383.

Torque: 89 lb.in (10 Nm)

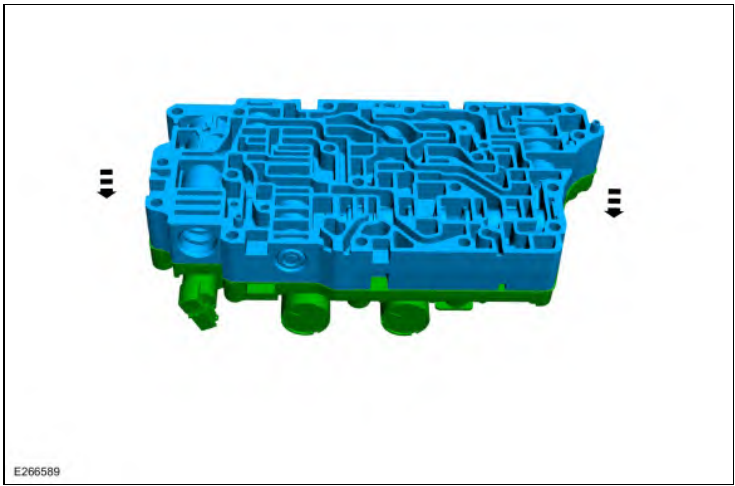


30. Install the valve, spring and retainer in the solenoid body

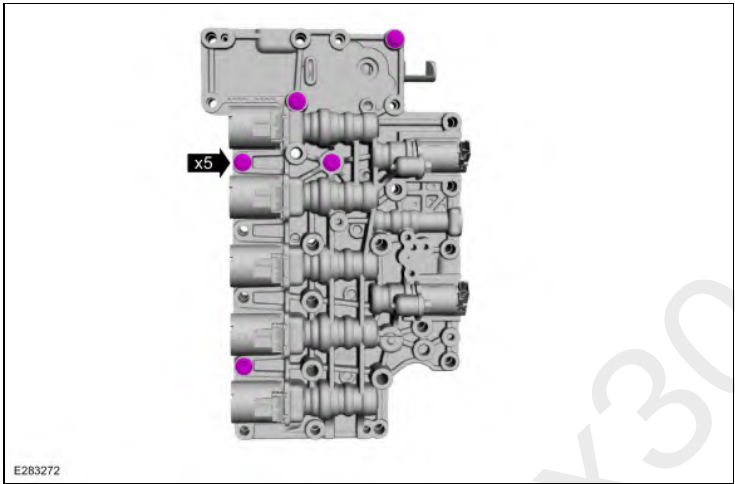


Main Control Valve Body and Solenoid Body

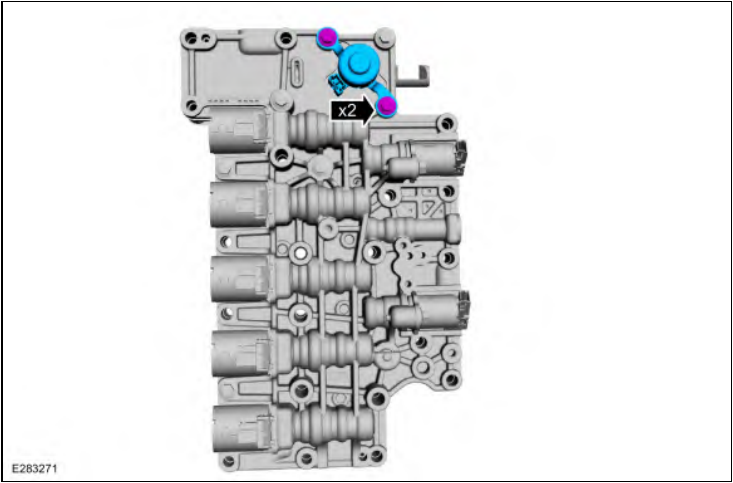
31. Install the main control body to the solenoid body.



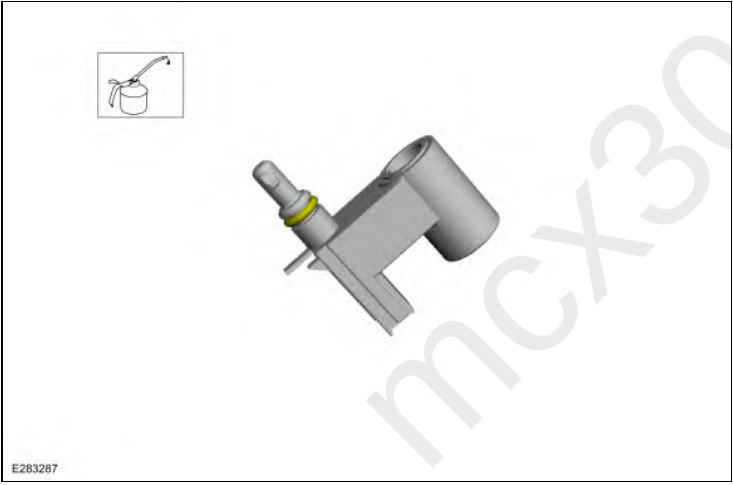
32. Install the solenoid body-to-main control bolts.
Torque: 89 lb.in (10 Nm)



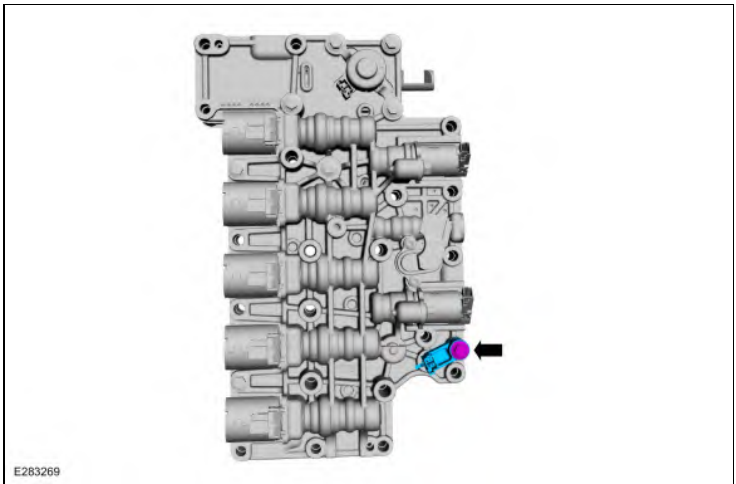
33. Install the park lock pawl solenoid and bolts.
Torque: 89 lb.in (10 Nm)



34. Lubricate transmission temperature sensor O-ring with clean transmission fluid.
Material: Motorcraft® MERCON® ULV Automatic Transmission Fluid / XT-12-QULV (WSS-M2C949-A,) (MERCON® ULV)



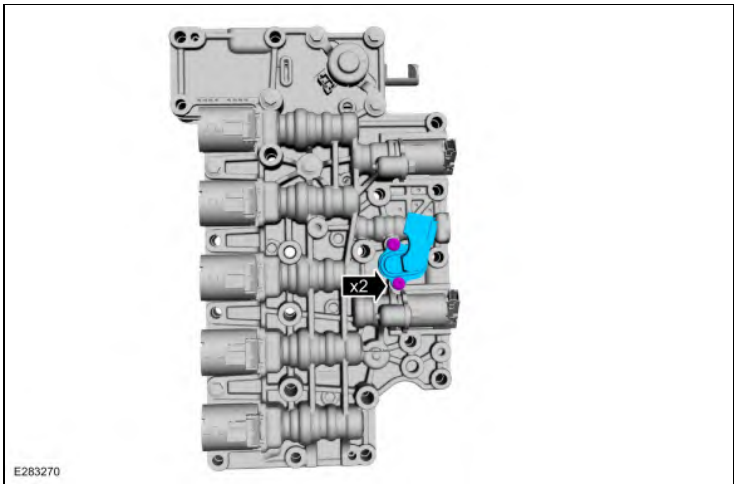
35. Install the TFT sensor and bolt.
Torque: 89 lb.in (10 Nm)



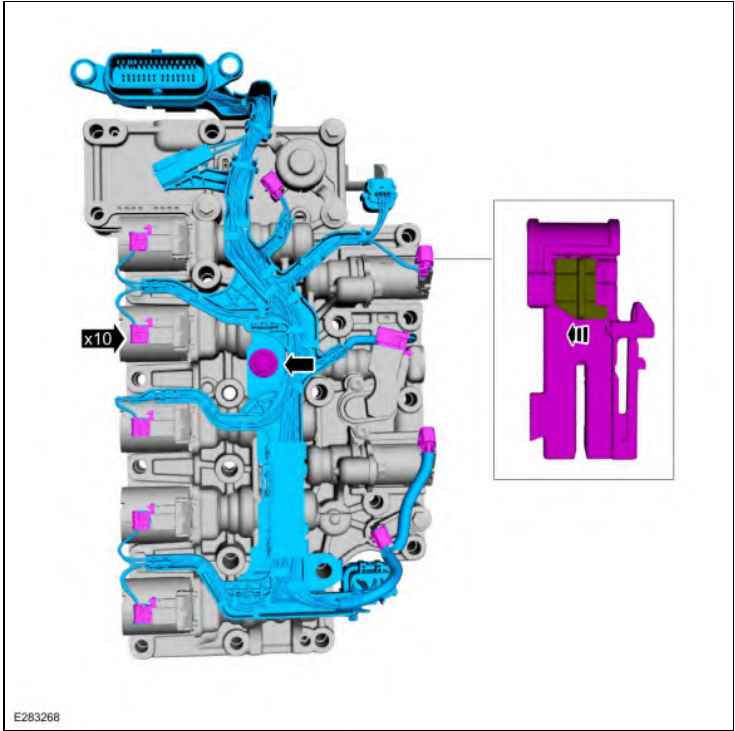
36. Lubricate transmission fluid pressure sensor O-rings with clean transmission fluid.
Material: Motorcraft® MERCON® ULV Automatic Transmission Fluid / XT-12-QULV (WSS-M2C949-A,) (MERCON® ULV)



37. Install the transmission fluid pressure sensor and bolts.
Torque: 89 lb.in (10 Nm)



38. Install the transmission wiring harness assembly and install the bolt. Connect the transmission shift solenoid electrical connectors and the TFT sensor electrical connector and lock the connectors. Connect the transmission fluid pressure sensor electrical connector.
Torque: 89 lb.in (10 Nm)

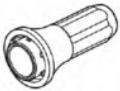


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Transmission

Special Tool(s) / General Equipment

 E129694	100-001 (T50T-100-A) Slide Hammer
 E139373	100-002 (TOOL-4201-C) Holding Fixture with Dial Indicator Gauge
 E133913	205-153 (T80T-4000-W) Handle
	303-D020 (D80L-100-R) Collet, 7/8 to 1
 E142010	307-091 Handle, Torque Converter TKIT-2009TC-F
 17055	307-300 Gauge Bar, Shim Selection TKIT-1994-LMH/MH2 TKIT-1994-F TKIT-1994-FLM/FM
 307-346	307-346 (T97T-7902-A) Retainer, Torque Converter TKIT-1998-LM (Navigator) TKIT-1997-F/FLM/LT
	307-575 Converter Seal Installer TKIT-2006UF-FLM TKIT-2006UF-ROW
 E216407	307-578 Input Shaft Support Seal Installer (Back Plate, Multiple rings) TKIT-2006UF-FLM TKIT-2006UF-ROW
	307-579 Support Solid seal installer (single seal) TKIT-2006UF-FLM TKIT-2006UF-ROW
 E216417	307-581 Manual lever seal installer TKIT-2006UF-FLM TKIT-2006UF-ROW
 E231409	307-582A Cover Axle Seal Installer TKIT-2008AS-FLM
 E216419	307-584 2-6 Spring Compressor TKIT-2006UF-FLM TKIT-2006UF-ROW
	307-585 Support seal installer TKIT-2006UF-FLM TKIT-2006UF-ROW

 E321855	307-588 Reverse clutch piston and retaining ring set TKIT-2006UF-FLM TKIT-2006UF-ROW
 E216420	307-589 Overdrive clutch and balance piston service set TKIT-2006UF-FLM TKIT-2006UF-ROW
 E274944	307-589-01 Adapter for 307-589/1
 E239703	307-691 Tester, Torque Converter Leak
 E233333	307-732 Tool Kit, Torque Converter Flusher
 E274928	307-753 Tester, Electric One Way Clutch
 E274929	307-758 Installer, Axle Seal -FWD
 E274945	307-773 Bench Mount Fixture
Flat Headed Screw Driver	
Hydraulic Press	
Puller	
Wooden Block	
Caliper Gauge	

Materials

Name	Specification
Motorcraft® Ultra Silicone Sealant TA-29	-
Motorcraft® MERCON® ULV Automatic Transmission Fluid XT-12-QULV	WSS-M2C949-A, MERCON® ULV
Petroleum Jelly	-

All vehicles

- Using the special tool, install the transmission onto the bench.
Use Special Service Tool: 307-773 Bench Mount Fixture.