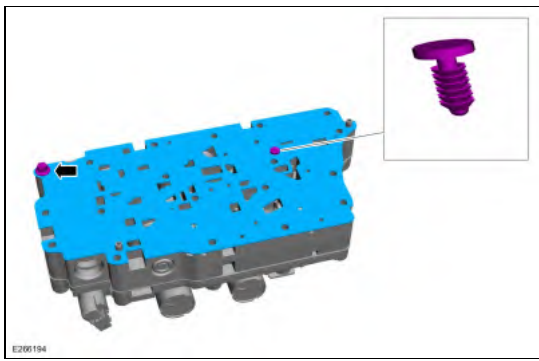
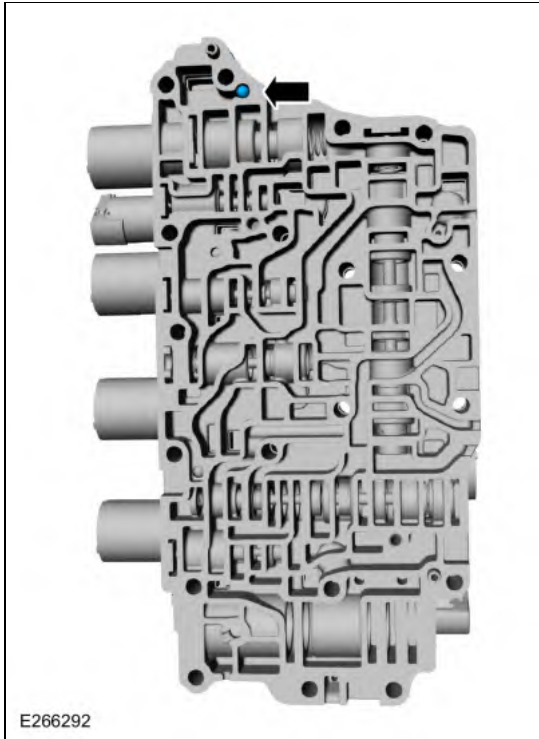
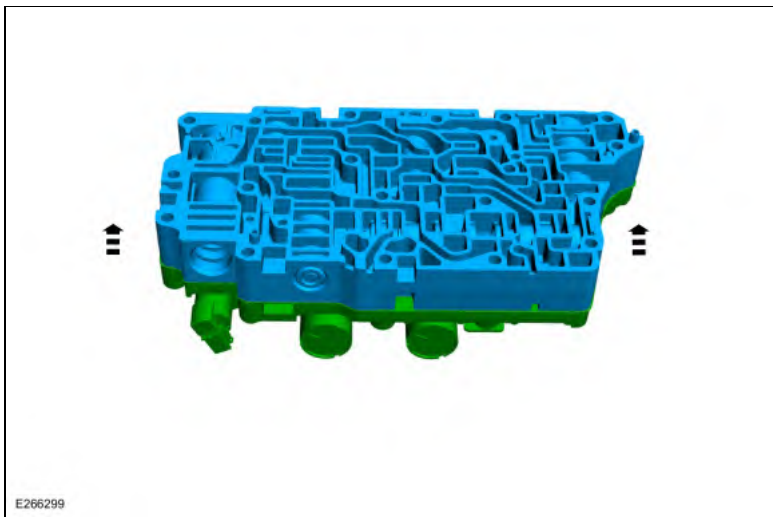




7. Remove the No. 6 check ball.

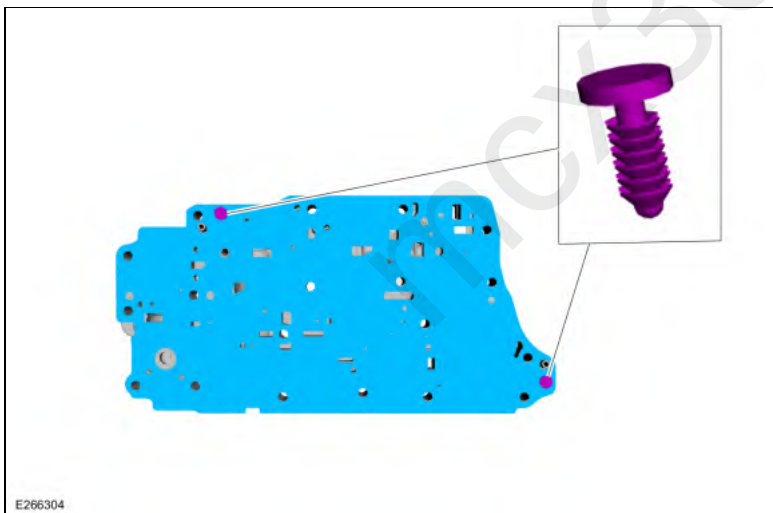


8. Separate the main control from the solenoid body.



Main Control Valve Body and Solenoid Body

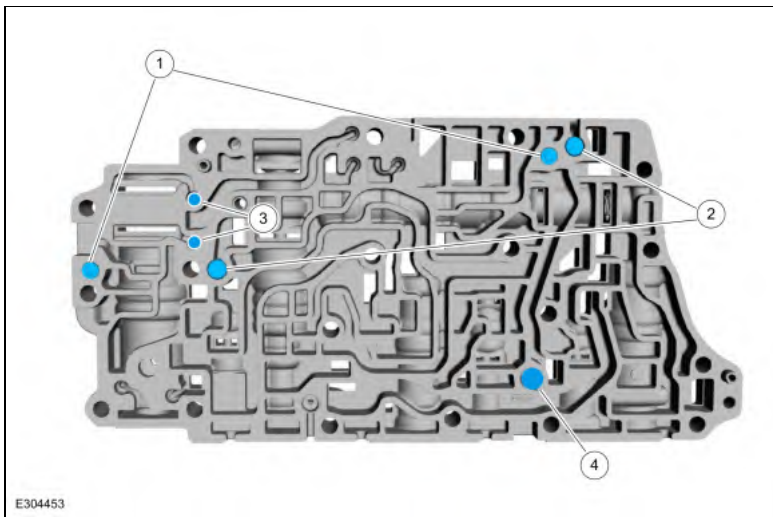
9. Remove the push pin retainers and the separator plate.



10.

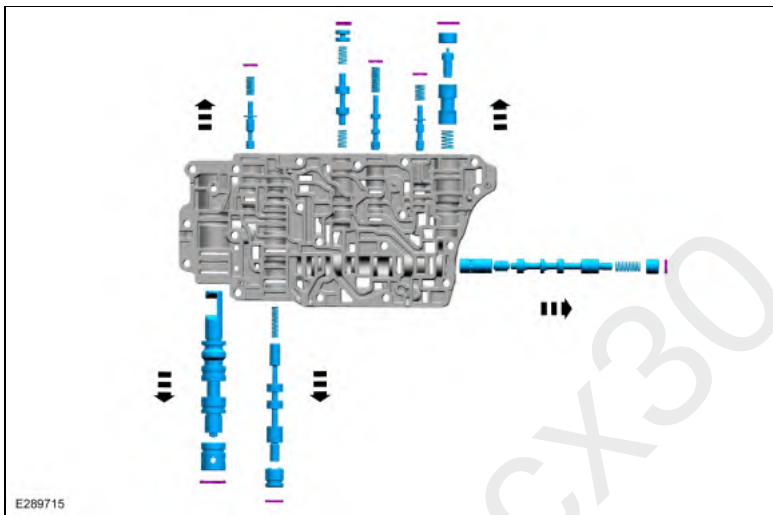
Remove the following items.

1. Solenoid damper
2. Bypass valve
3. Check ball (Park-by-wire vehicles)
4. Check ball



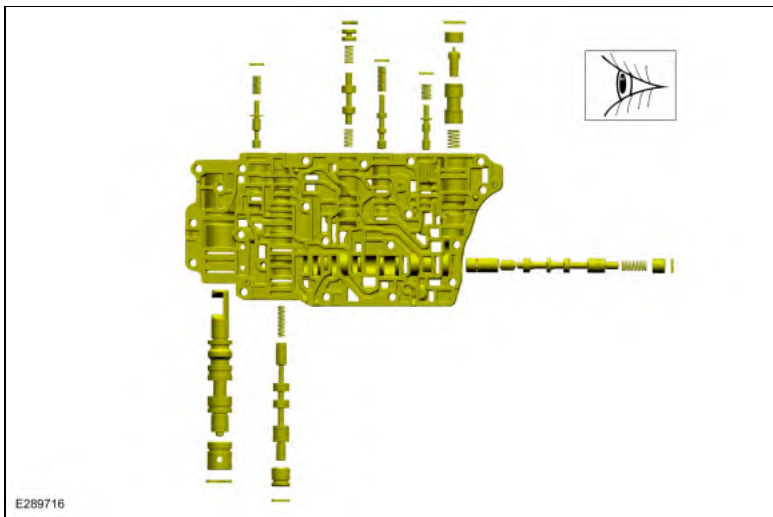
11. **NOTICE:** Remove the valves by tapping the valve body on the palm of the hand to slide the valves out of the bores or by threading a 4-mm bolt into the valves and pulling them out. If it is necessary to use a pick, use extreme caution to prevent damaging the valves or valve bores. If necessary, 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

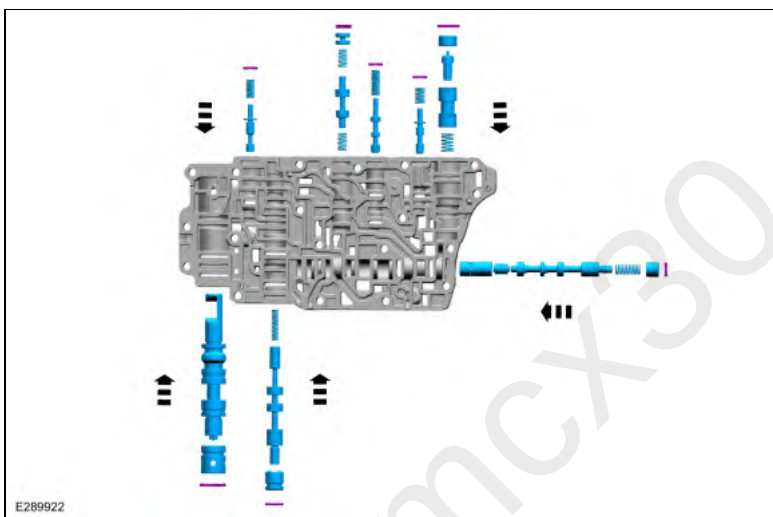


12. **NOTICE:** Do not stone or polish any valves or damage to the valves can occur. If the valves do not move freely, install a new assembly.

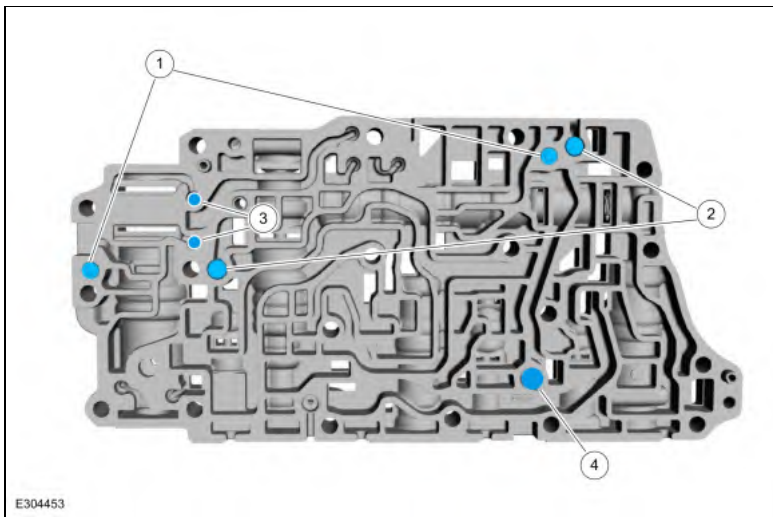
Clean the valves, springs and main control valve body.



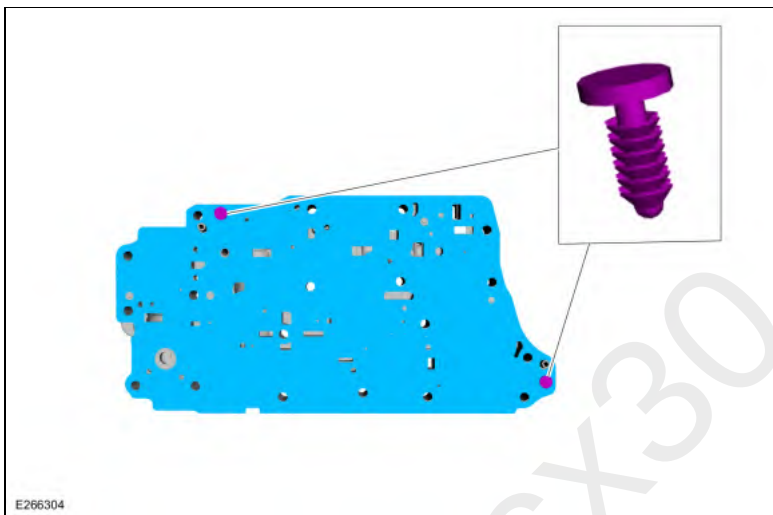
13. Install the valve body valves, springs and retaining clips in the main control valve body. For valve and spring locations.
 Refer to: Main Control Valve Body (307-01A Automatic Transmission - 8-Speed Automatic Transmission â€” 8F35/8F40, Description and Operation).



14. Install the following items.
1. Solenoid damper
 2. Bypass valve
 3. Check ball (Park-by-wire vehicles)
 4. Check ball

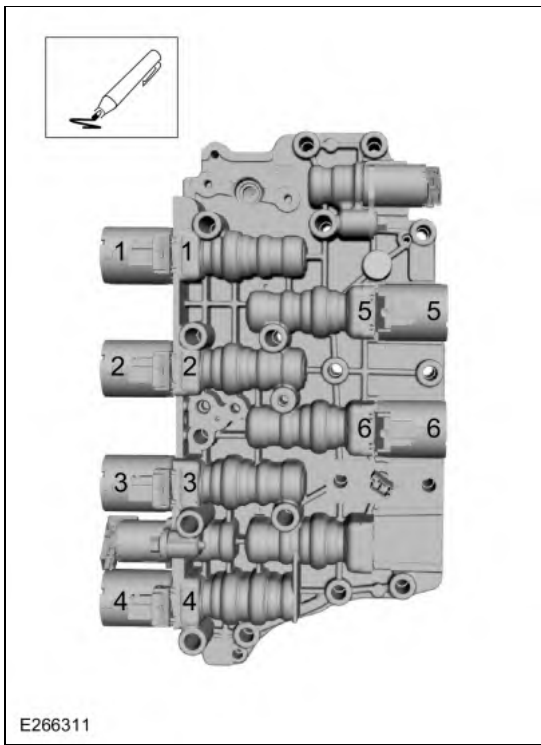


15. Install the separator plate and the push pin retainers.

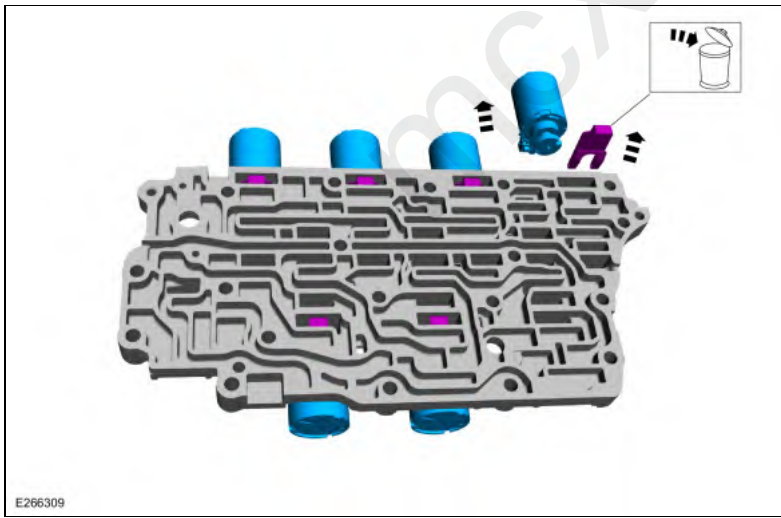


Solenoid Body

16. 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.

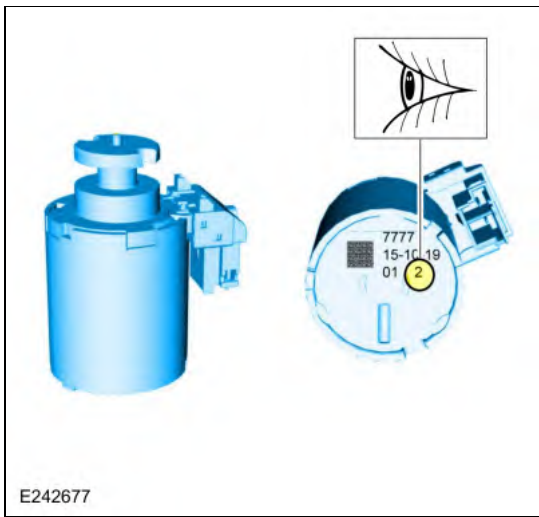


17. Remove and discard the transmission shift solenoid clip and remove the transmission shift solenoid.

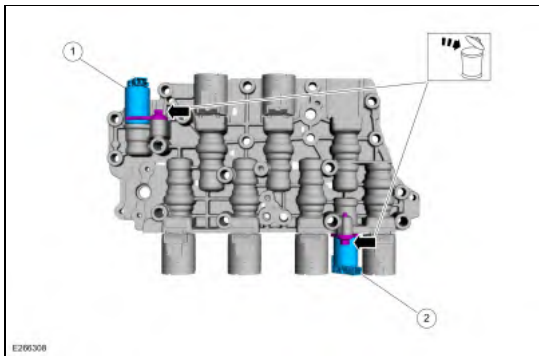


18. **NOTE:** Failure to install the components in the correct location will result in harsh/soft or no shifts or damage to the transmission.

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



19. 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.



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



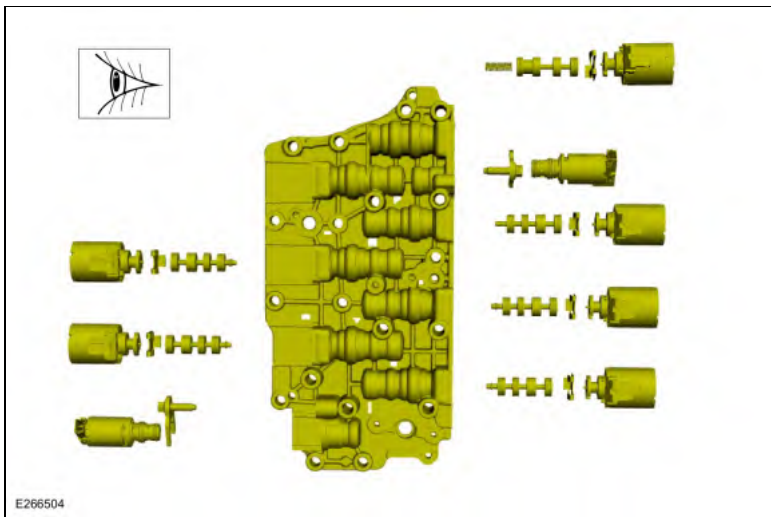
E266310

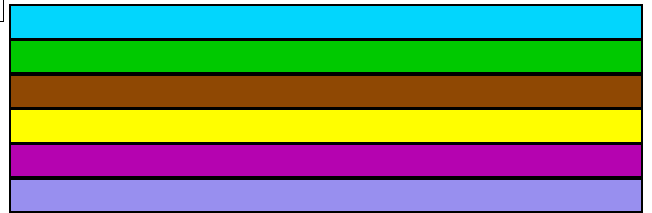


21. **NOTICE:** Be careful not to wash the numbers from the solenoids or the solenoid body. Failure to install the solenoids in the ports they were originally in can result in damage to the transmission or a harsh shift.

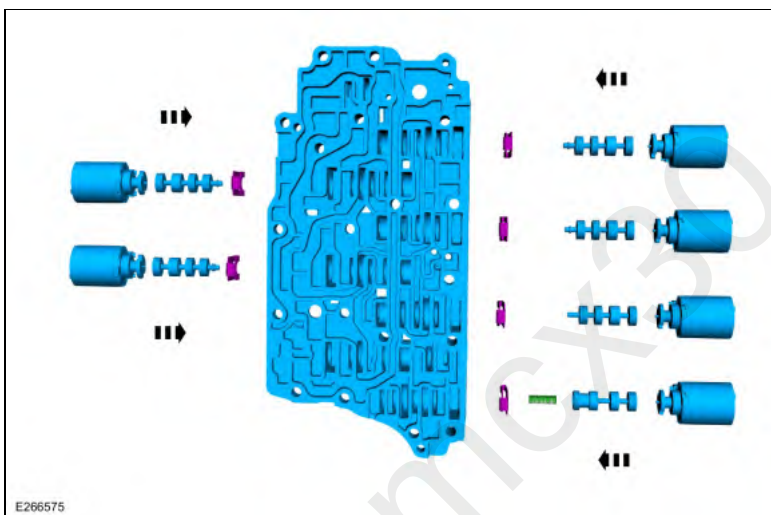
NOTICE: Do not stone or polish any valves or damage to the valves can occur. If the valves do not move freely during assembly, install a new solenoid body.

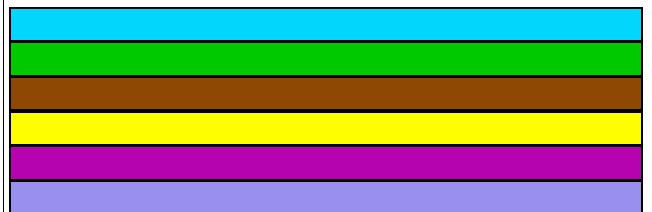
Clean and inspect the solenoid body, solenoids and valve assemblies for damage.





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





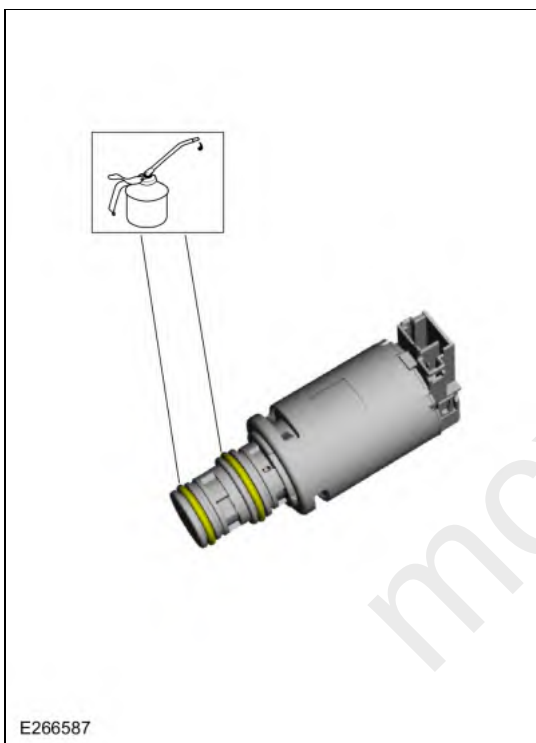
23. **NOTE:** The A-F clutches use linear force solenoids, the CIDAS are all normally low solenoids.

1. SSA (CB12345) solenoid part number 7J136
2. SSF (CB28) solenoid part number 7J136
3. SSB (C46R) solenoid part number 7J136
4. SSD (SOWC) solenoid part number 7J136
5. SSE (C5678) solenoid part number 7J136
6. SSC (CB37) solenoid part number 7J136



24. Lubricate the transmission solenoid O-rings with clean transmission fluid.

Material: Motorcraft® MERCON® ULV Automatic Transmission Fluid / XT-12-QULV (WSS-M2C949-A,) (MERCON® ULV)

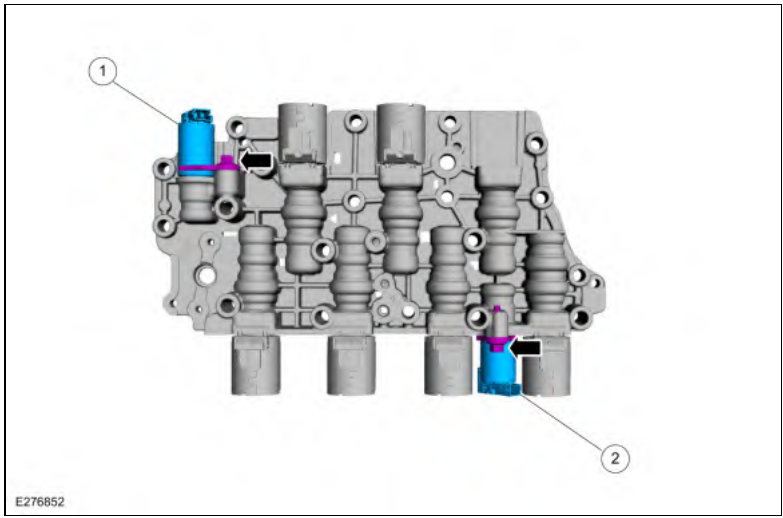


25. **NOTE:** If installing a new Variable Force Solenoid (VFS), determine the base part number of the solenoid(s). The TCC solenoid is a normally low pressure solenoid. The LPC solenoid is a normally high pressure solenoid.

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

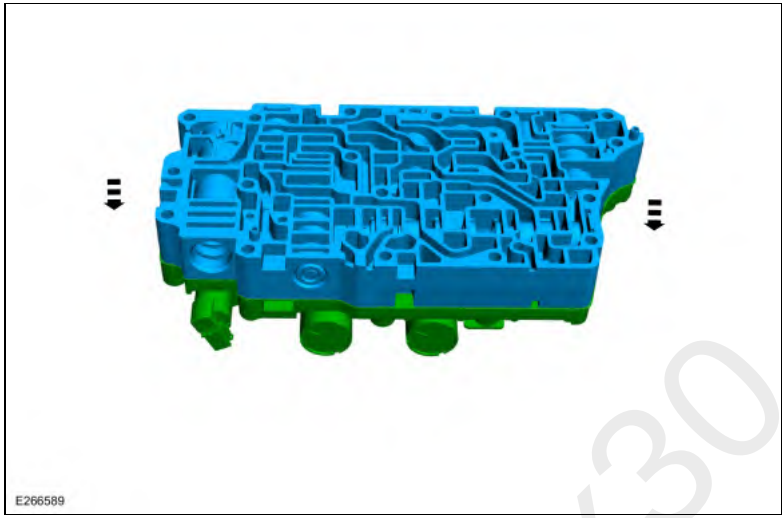
1. The TCC solenoid is identified by the green electrical connector. The TCC solenoid part number 7G136.
2. The LPC solenoid is identified by the blue electrical connector. The LPC solenoid part number 7G383.

Torque: 89 lb.in (10 Nm)



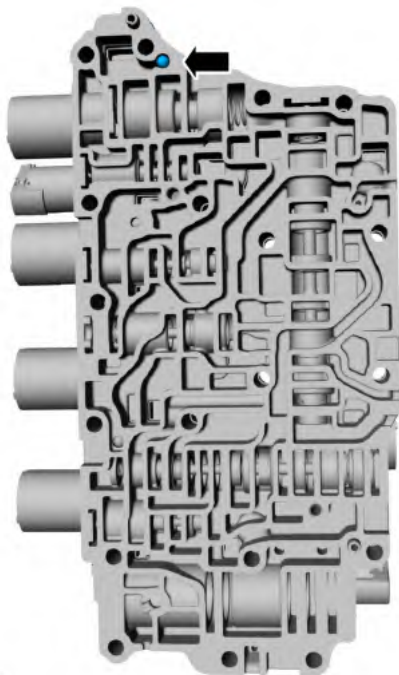
Main Control Valve Body and Solenoid Body

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

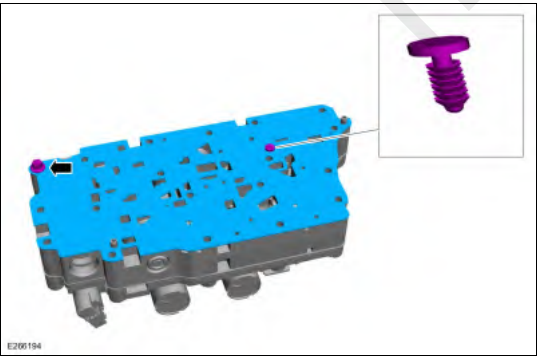


27. Install the No. 6 check ball.

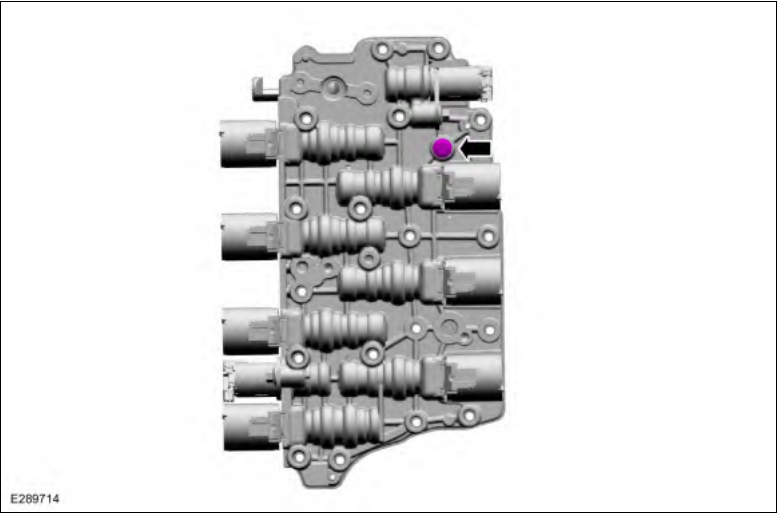
E266292



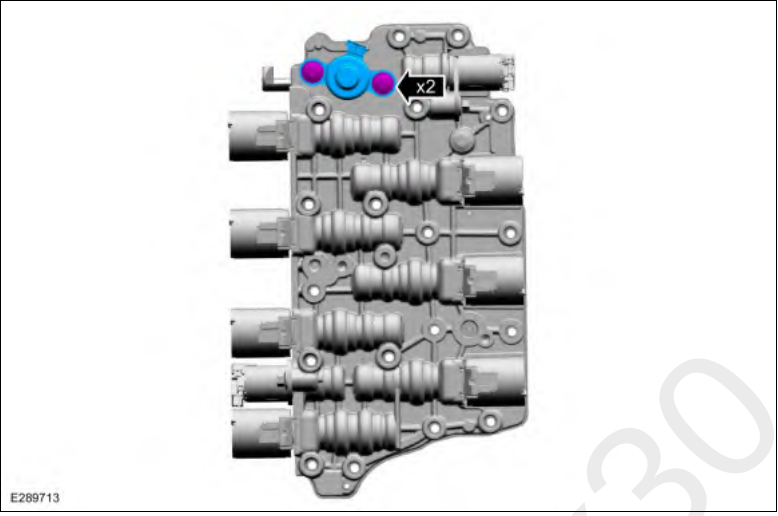
28. Install the seperator plate, the push pin retainer and the bolt.
Torque: 62 lb.in (7 Nm)



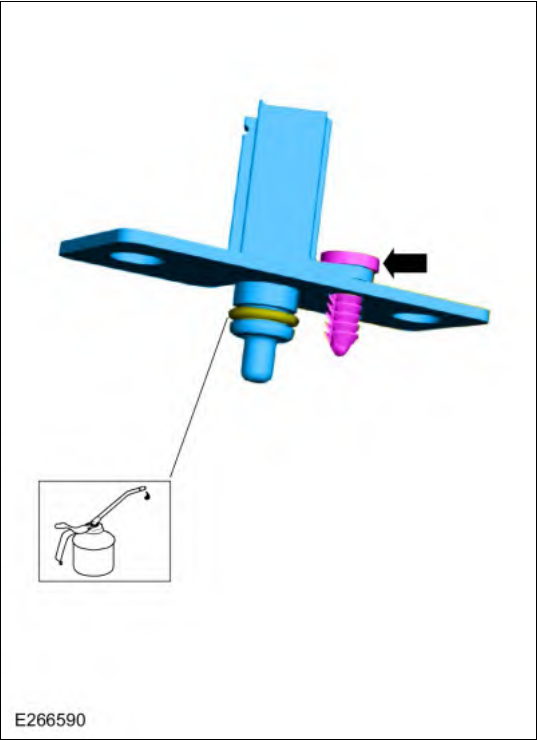
29. Install the solenoid body-to-main control bolt.
Torque: 89 lb.in (10 Nm)



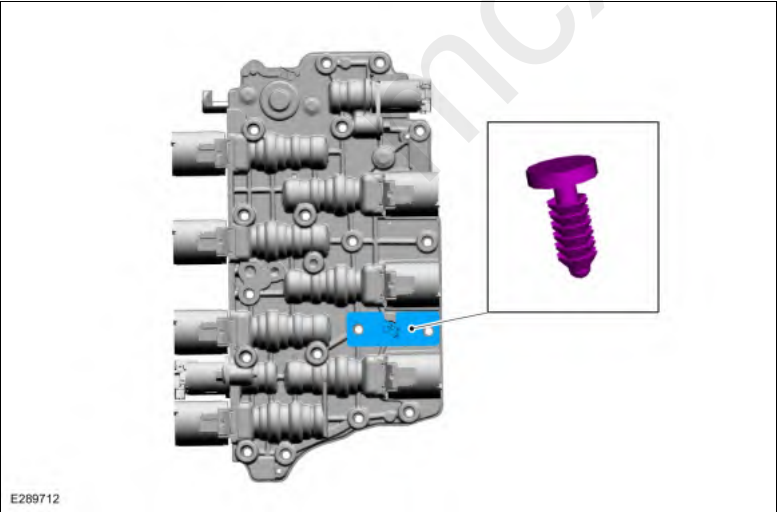
30. Install the park lock pawl solenoid and the bolts.
Torque: 53 lb.in (6 Nm)



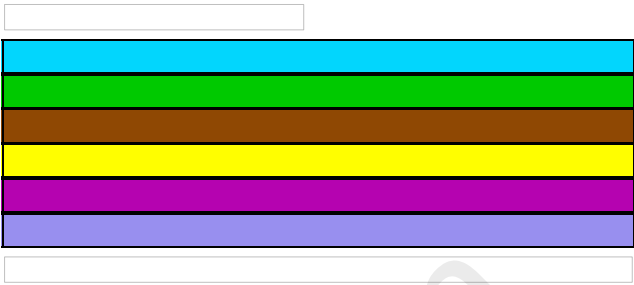
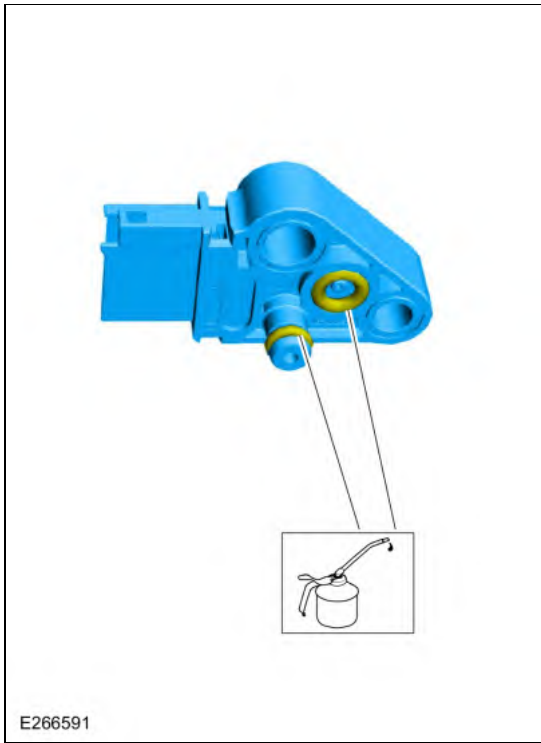
31. Lubricate the TFT sensor O-ring with clean transmission fluid.
Material: Motorcraft® MERCON® ULV Automatic Transmission Fluid / XT-12-QULV (WSS-M2C949-A,) (MERCON® ULV)



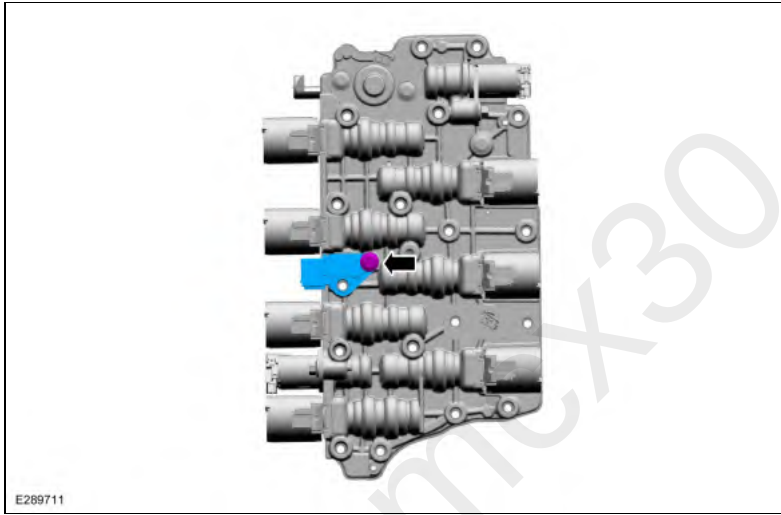
32. Install the TFT sensor and push pin retainer.



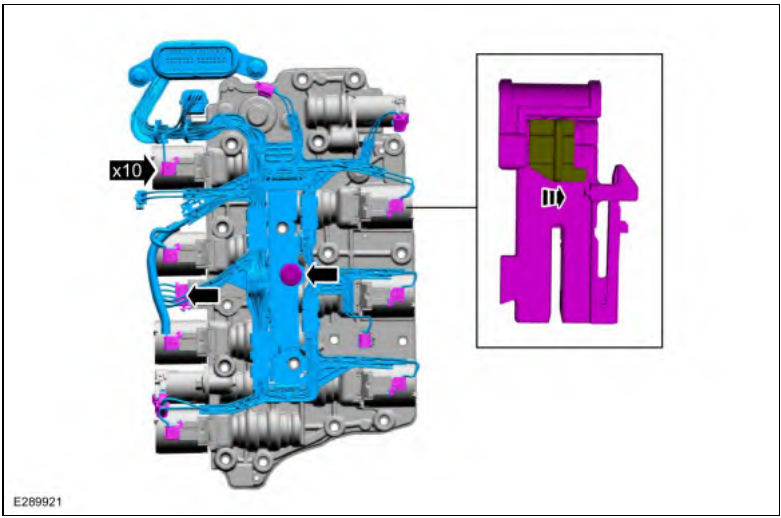
33. Lubricate the transmission fluid pressure sensor O-rings with clean transmission fluid.
Material: Motorcraft® MERCON® ULV Automatic Transmission Fluid / XT-12-QULV (WSS-M2C949-A,) (MERCON® ULV)



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



35. 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, the park lock solenoid electrical connector and lock the connectors.
Torque: 89 lb.in (10 Nm)



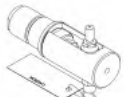
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Transmission

Special Tool(s) / General Equipment

 E139373	100-002 (TOOL-4201-C) Holding Fixture with Dial Indicator Gauge
 E133913	205-153 (T80T-4000-W) Handle
 E216593	205-199 (T83T-3132-A1) Installer, Spindle/Axle Shaft T83-4000-A TKIT-1983-F TKIT-1983-FLM TKIT-1983-FX
 307-003	307-003 (T57L-500-B) Holding Fixture, Transmission
 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
 1705501	307-300-01 Adapter for 307-300 TKIT-1994-LMH/MH2 TKIT-1994-F TKIT-1994-FLM/FM
 E216392	307-566 Retainer, Torque Converter TKIT-2006C-FFMFLM TKIT-2006C-LM TKIT-2006C-ROW
 E216393	307-574 Forward Clutch Spring Compressor TKIT-2006UF-FLM TKIT-2006UF-ROW
 E216407	307-578 Input Shaft Support Seal Installer (Back Plate, Multiple rings) TKIT-2006UF-FLM TKIT-2006UF-ROW
 E216417	307-581 Manual lever seal installer TKIT-2006UF-FLM TKIT-2006UF-ROW
 E216419	307-584 2-6 Spring Compressor TKIT-2006UF-FLM TKIT-2006UF-ROW

 E216420	307-589 Overdrive clutch and balance piston service set TKIT-2006UF-FLM TKIT-2006UF-ROW
 E239703	307-691 Tester, Torque Converter Leak
 E233333	307-732 Tool Kit, Torque Converter Flusher
 E274929	307-758 Installer, Axle Seal -FWD
 E274931	307-760 Installer, Converter Seal
 E274932	307-761 Installer,Turbine Seal
 E274933	307-762 Staking Tool, Turbine Seal
 E274934	307-763 Tool, Turbine Seal Deburring
 E274935	307-764 Installer/Sizer, Stator Teflon Seal
 E274936	307-765 Protector, Turbine Seal
 E274937	307-766 Installer, Input Shaft Snap Ring
 E274938	307-767 Compressor, 3-8 Spring
 E274940	307-769 Fixture, Bench Mount
 E274941	307-770 Compressor,1-5_2-8 Piston Spring