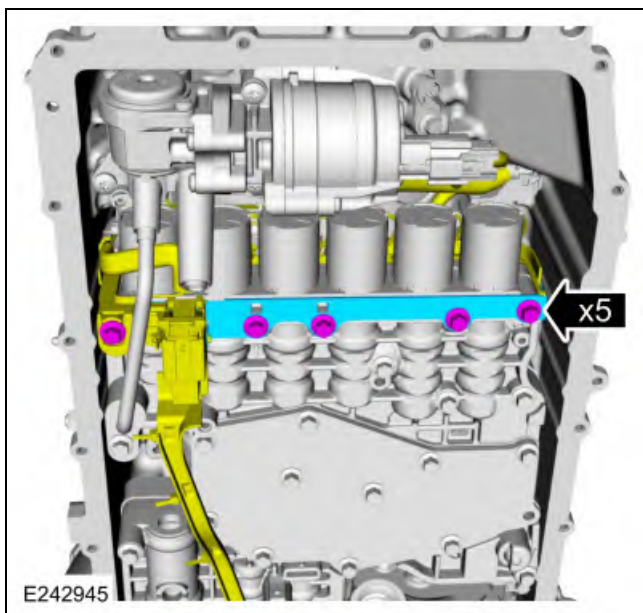
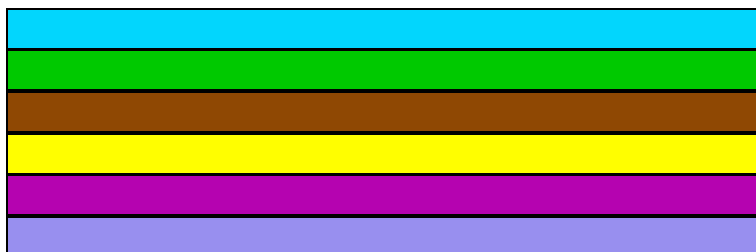
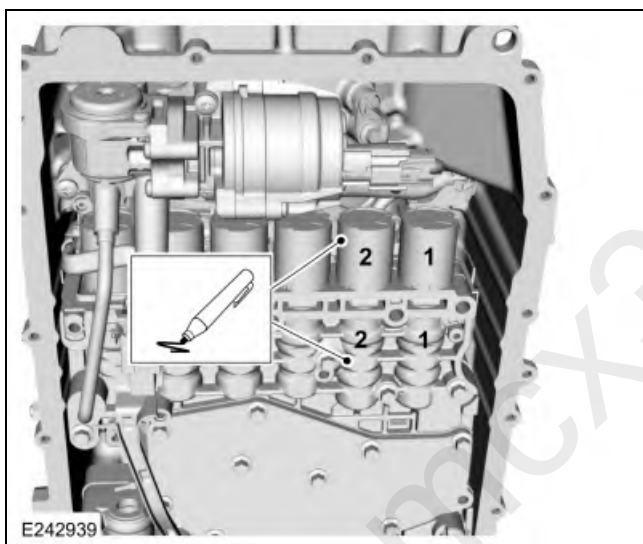
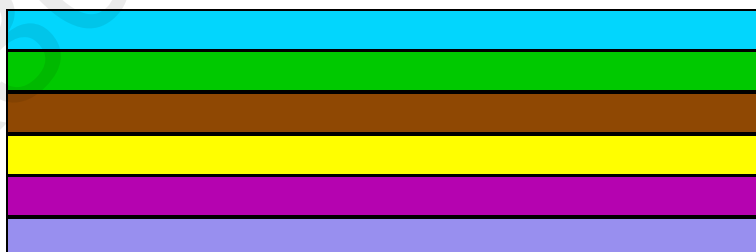




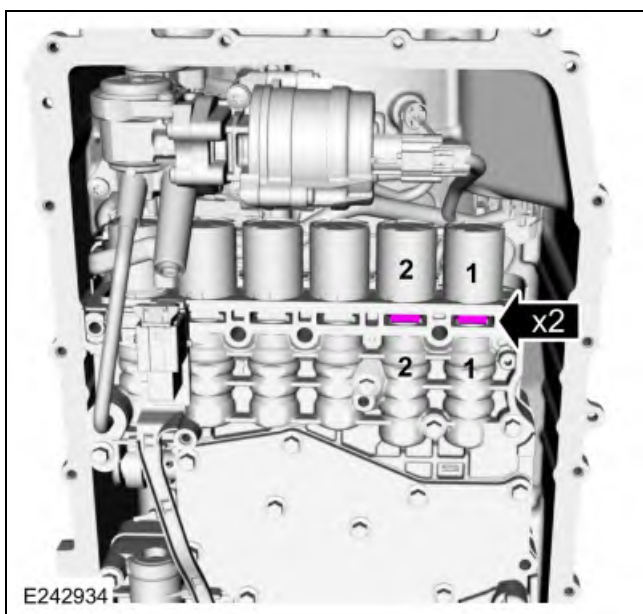


6. If replacing more than one solenoid, number the solenoids and number the main control valve body solenoid ports to correspond to the solenoid.





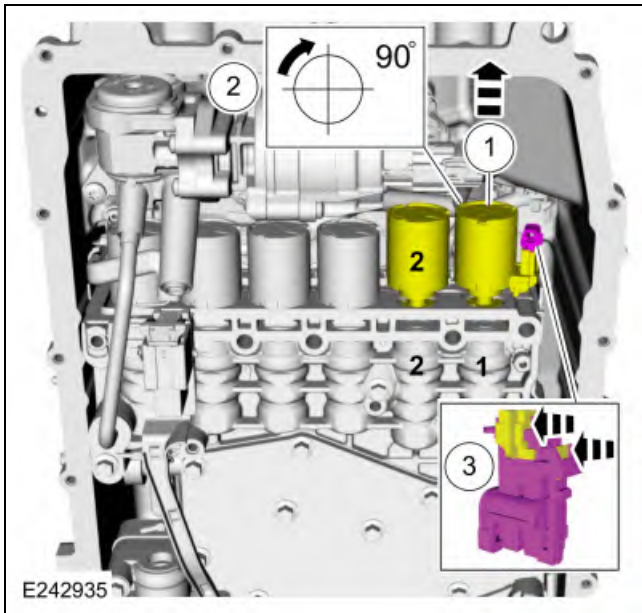
7. Remove the shift solenoid retainer(s).





8.

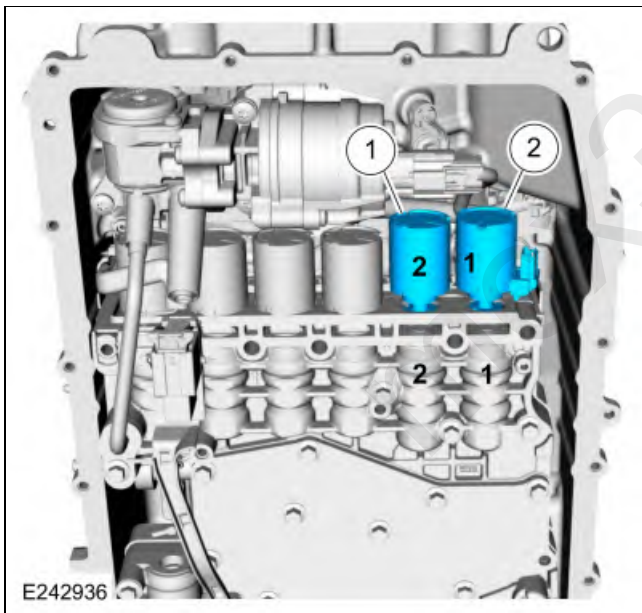
1. Slide the solenoid(s) out of the main control valve body bore.
2. Rotate the solenoid(s) in a clockwise direction.
3. Slide the plastic lock to the unlock position. While pressing the plastic tab, disconnect the electrical connector.



9.

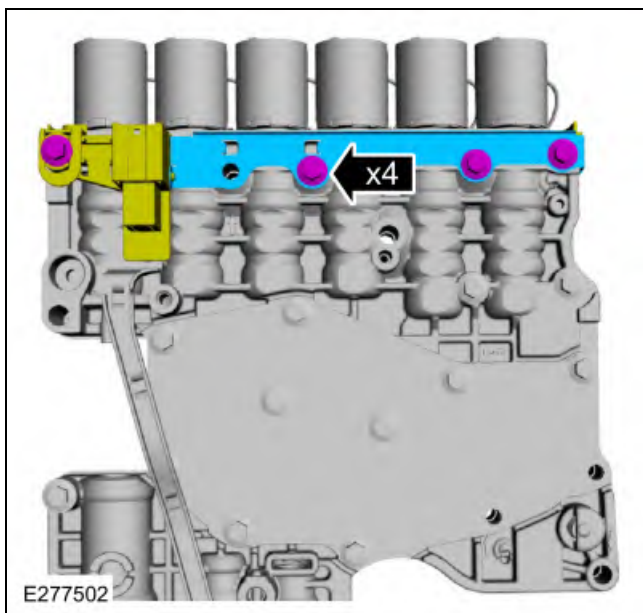
Remove the solenoid(s) from the main control valve body.

1. SSE (7J136)
2. SSD (7J136)

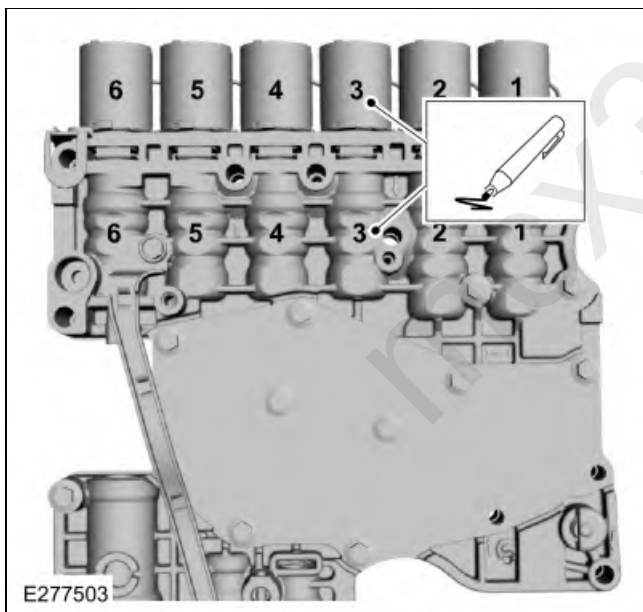


Solenoids A, B, C, and F

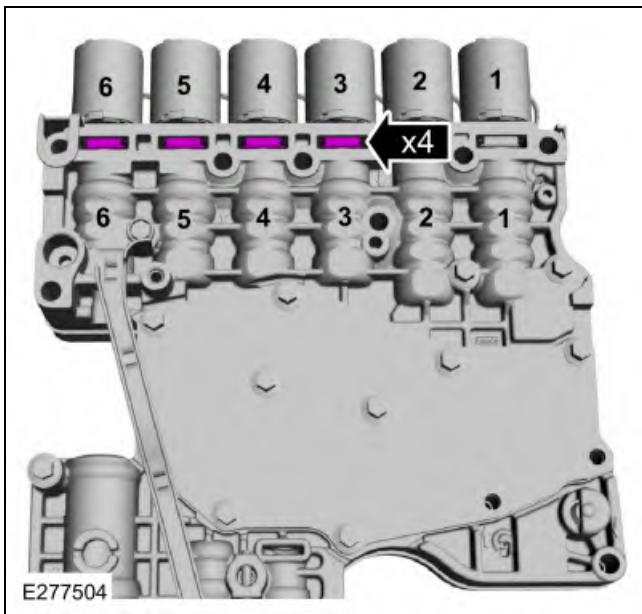
10. Remove the main control valve body.
Refer to: Main Control Valve Body (307-01B Automatic Transmission, Transfer Case and Power Transfer Unit - 10-Speed Automatic Transmission – 10R80, Removal and Installation).
11. Remove the bolts and the shift solenoid retaining plate.



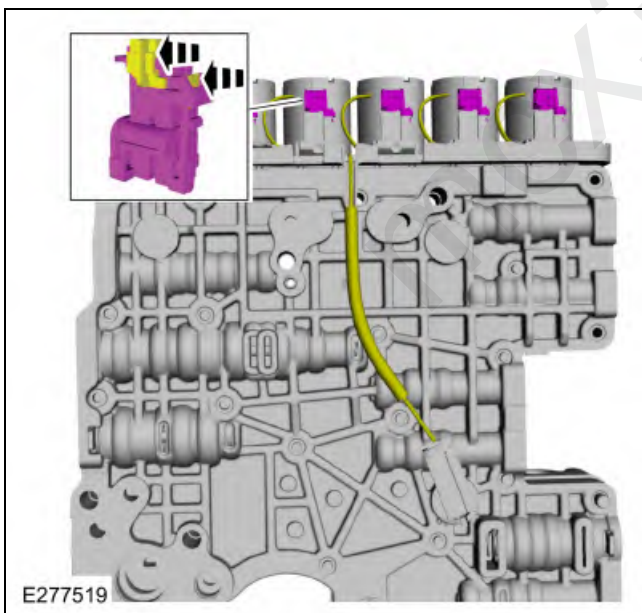
12. If replacing more than one solenoid, number the solenoids and number the main control valve body solenoid ports to correspond to the solenoid.



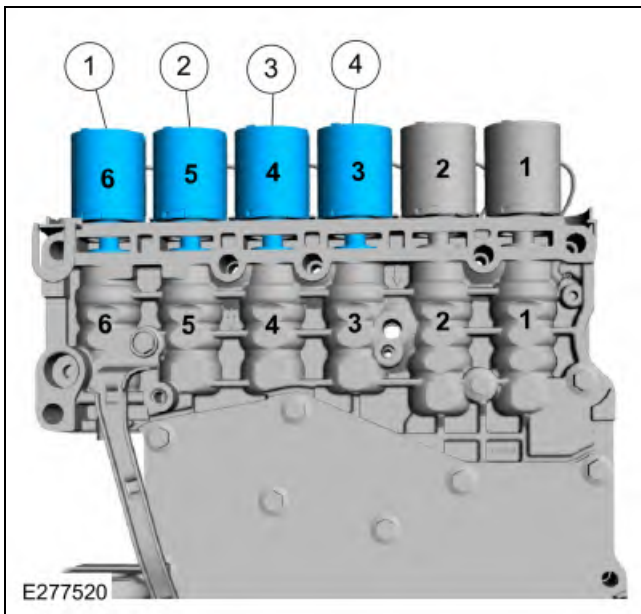
13. Remove the shift solenoid retainer(s).



14. Slide the plastic lock to the unlock position. While pressing the plastic tab, disconnect the electrical connector(s).



15. Remove the solenoid(s) from the main control valve body.
1. SSA (7J136)
 2. SSF (7J136)
 3. SSC (7J136)
 4. SSB (7J136)

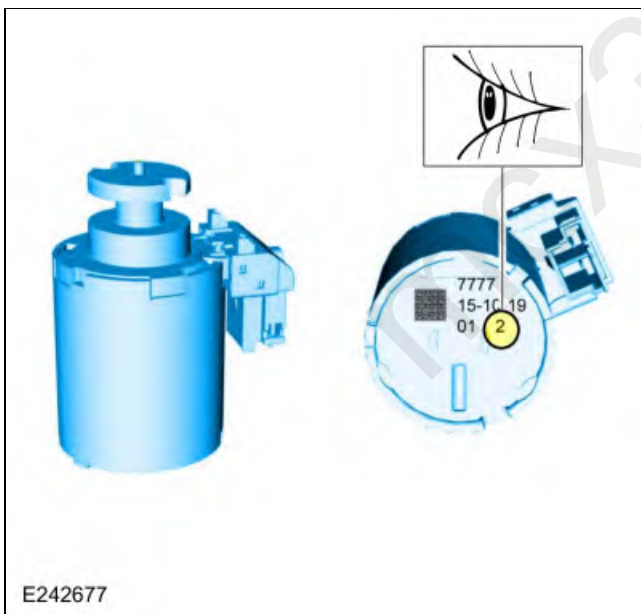


Installation

Solenoids A, B, C, and F

- NOTICE:** Solenoids are calibrated from the factory and are not all the same. To replace a solenoid, match the band number with the original solenoid or harsh shifts or damage to the transmission can occur.

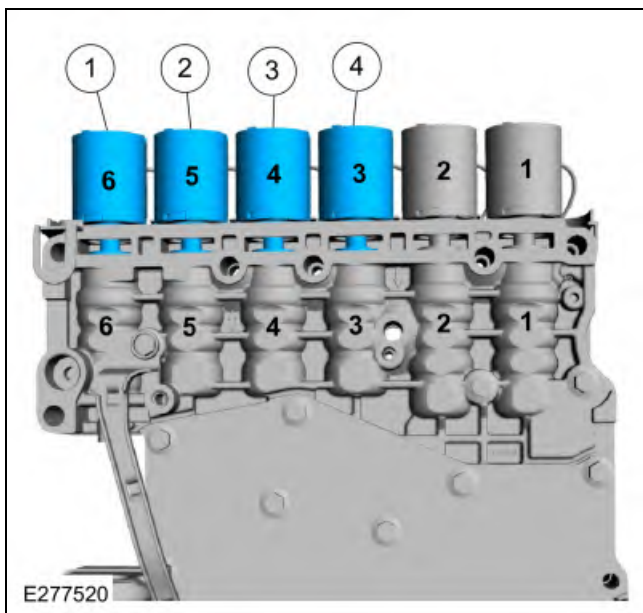
If new solenoids are needed, identify the solenoid band number.



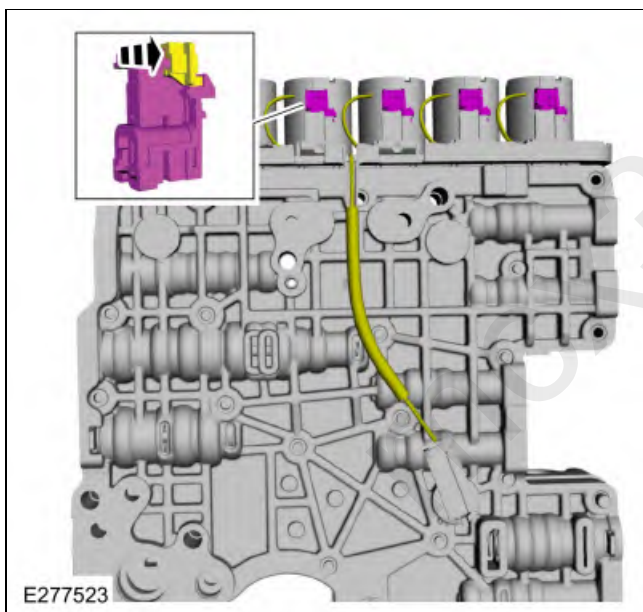
2.

Install the solenoid(s) in the main control valve body in the correct port(s) as marked during removal.

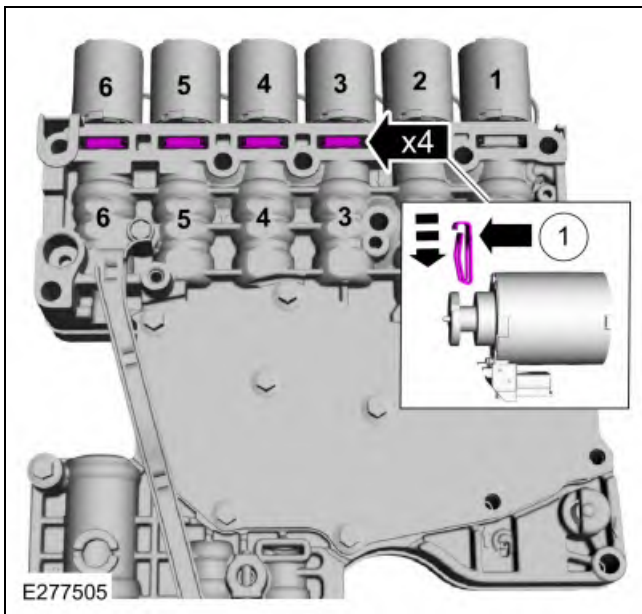
1. SSA (7J136)
2. SSF (7J136)
3. SSC (7J136)
4. SSB (7J136)



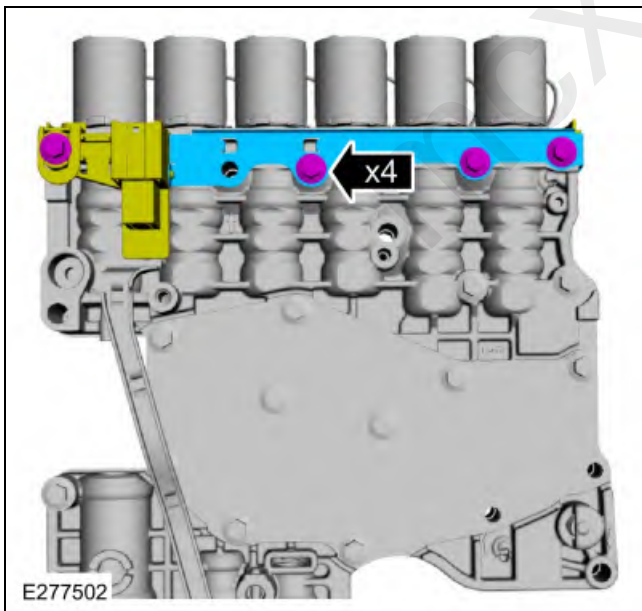
3. Connect the electrical connectors and slide the plastic lock to the locked position.



4. Install the shift solenoid retainer(s) with the flat side towards the solenoids.
 1. Retainer flat side



5. Install and the shift solenoid retaining plate and the bolts.
Torque: 106 lb.in (12 Nm)

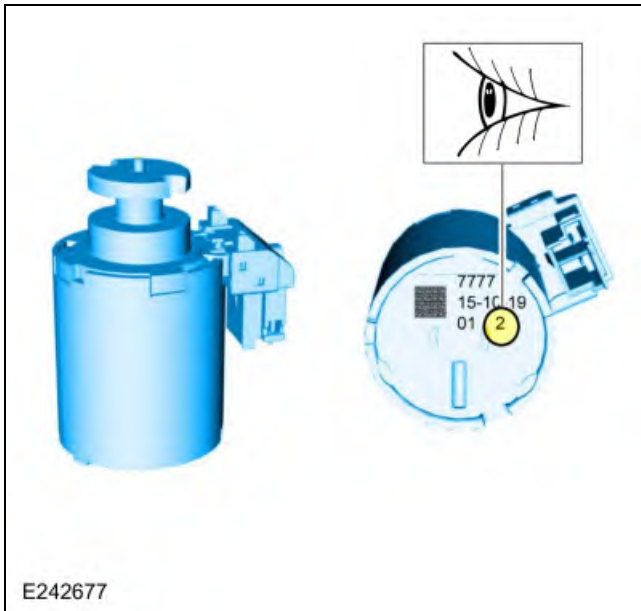


6. Install the main control valve body.
Refer to: Main Control Valve Body (307-01B Automatic Transmission, Transfer Case and Power Transfer Unit - 10-Speed Automatic Transmission â€” 10R80, Removal and Installation).

Solenoids D and E

7. **NOTICE:** Solenoids are calibrated from the factory and are not all the same. To replace a solenoid, match the band number with the original solenoid or harsh shifts or damage to the transmission can occur.

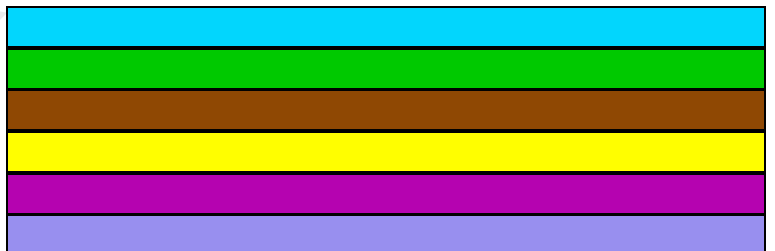
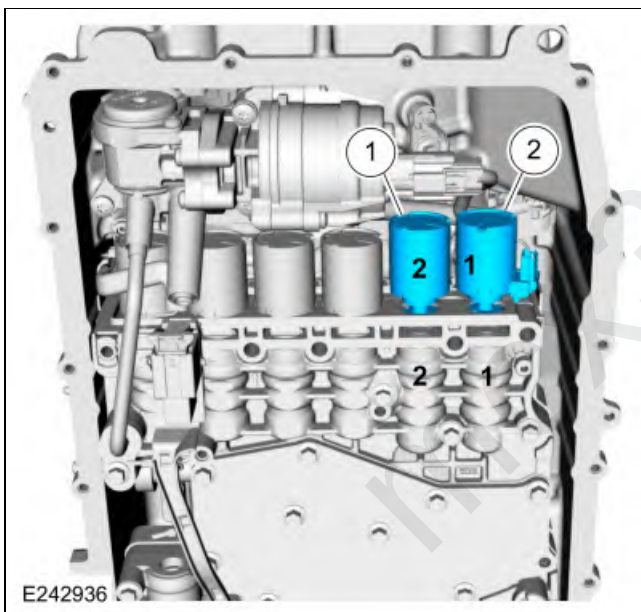
If new solenoids are needed, identify the solenoid band number.



8.

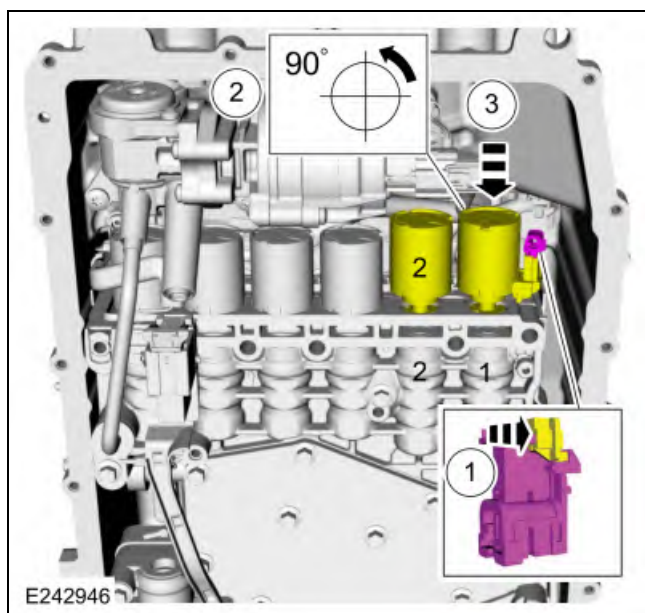
Install the solenoid(s) in the main control valve body in the correct port(s) as marked during removal.

1. SSE (7J136)
2. SSD (7J136)

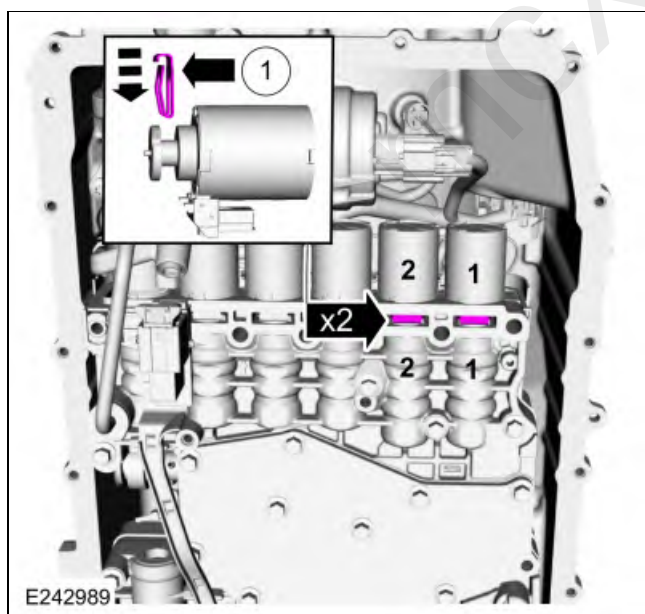


9.

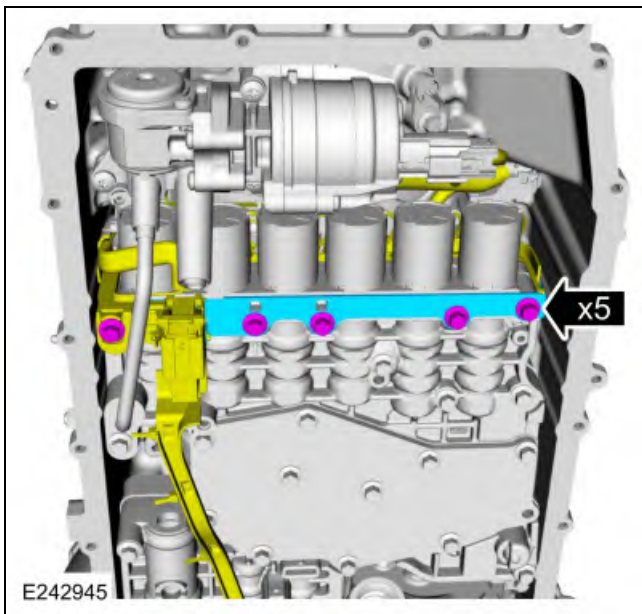
1. Connect the electrical connectors and slide the plastic lock to the locked position.
2. Rotate the solenoid(s) in a counter-clockwise direction.
3. Slide the solenoid(s) into the main control valve body bore.



10. Install the shift solenoid retainer(s) with the flat side towards the solenoids.
1. Retainer flat side

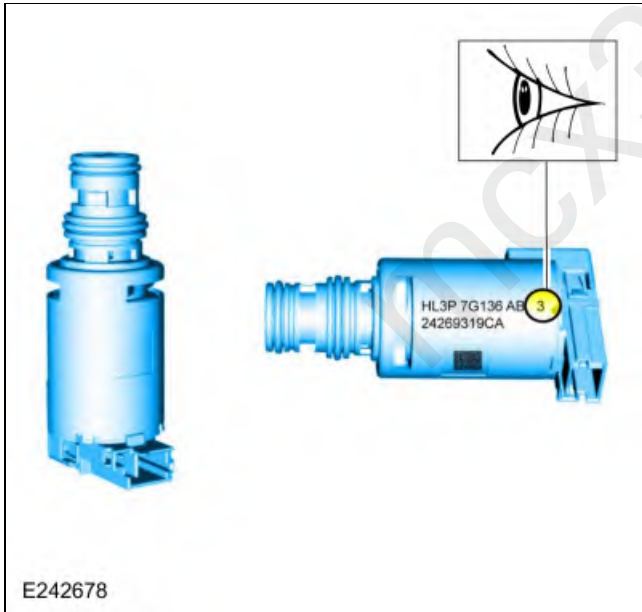


11. Install and the shift solenoid retaining plate and the bolts.
Torque: 106 lb.in (12 Nm)

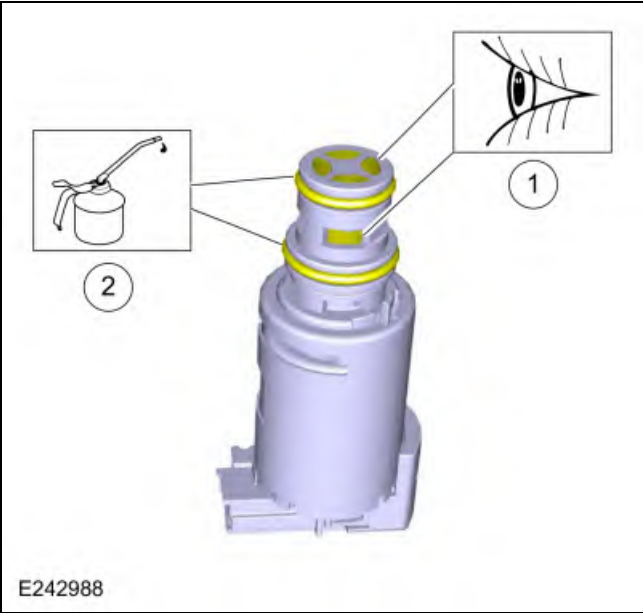


LPC (line pressure control) and TCC (torque converter clutch) Solenoids

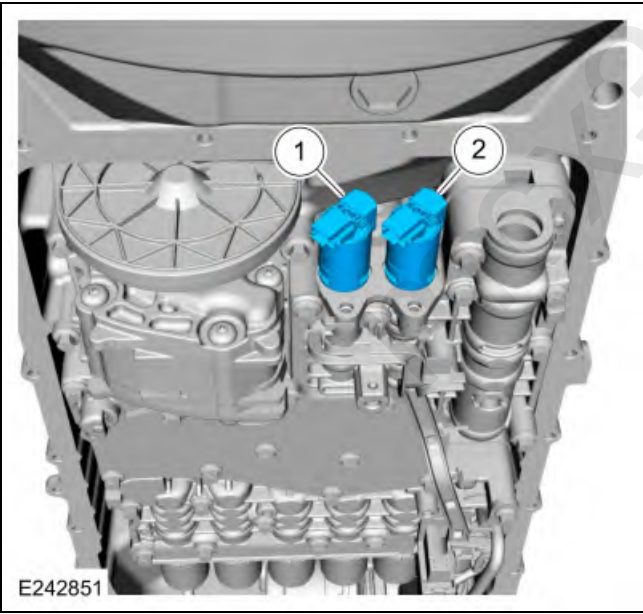
12. **NOTICE:** Solenoids are calibrated from the factory and are not all the same. To replace a solenoid, match the replacement solenoid type (normally high/normally low) and the band number with the original solenoid or harsh shifts or damage to the transmission can occur.
- If new solenoids are needed, identify which type (normally high/normally low) of solenoid it is and the solenoid band number.



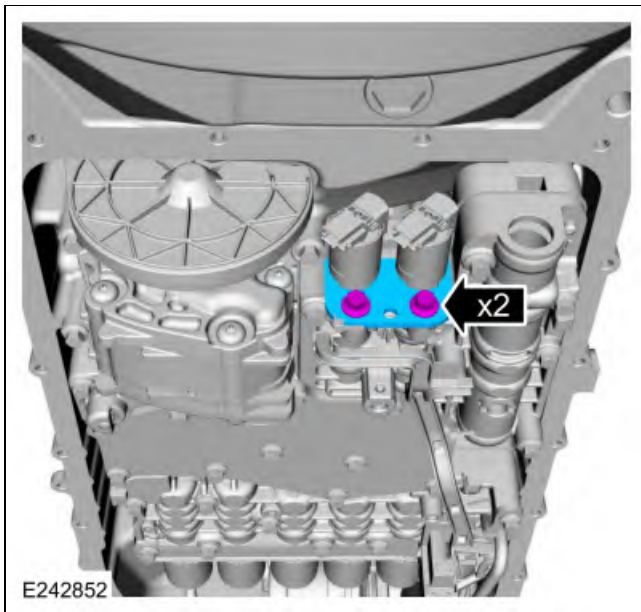
- 13.
1. Inspect the solenoid screens for debris that may restrict fluid flow.
 2. Lubricate the solenoid O-ring seals.
Material: Motorcraft® MERCON® ULV Automatic Transmission Fluid / XT-12-QULV (WSS-M2C949-A,) (MERCON® ULV)



14. Install the solenoid(s) in the main control valve body.
1. LPC solenoid (7G383)
 2. TCC solenoid (7G136)

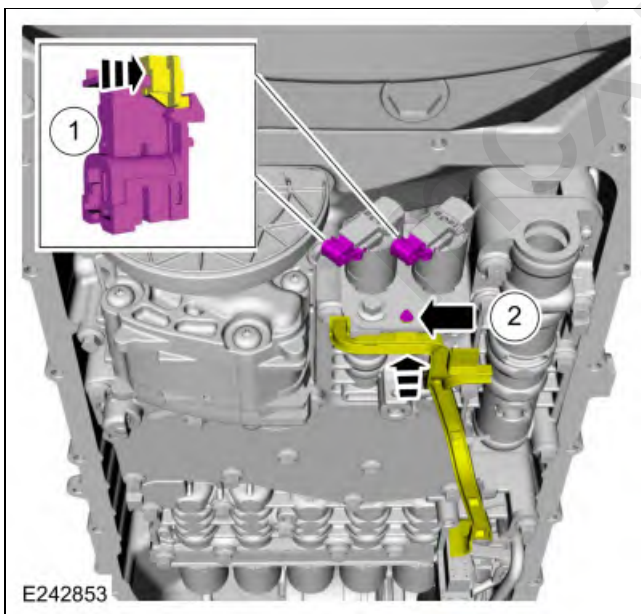


15. Install the solenoid retaining plate and the new bolts.
- Torque: 80 lb.in (9 Nm)*



16.

1. Connect the electrical connectors and slide the plastic lock to the locked position.
2. Connect the internal wiring harness retainer.



All Solenoids

17. Install the transmission fluid pan gasket and filter.
Refer to: Transmission Fluid Pan, Gasket and Filter (307-01B Automatic Transmission, Transfer Case and Power Transfer Unit - 10-Speed Automatic Transmission â€” 10R80, Removal and Installation).

Special Tool(s) / General Equipment

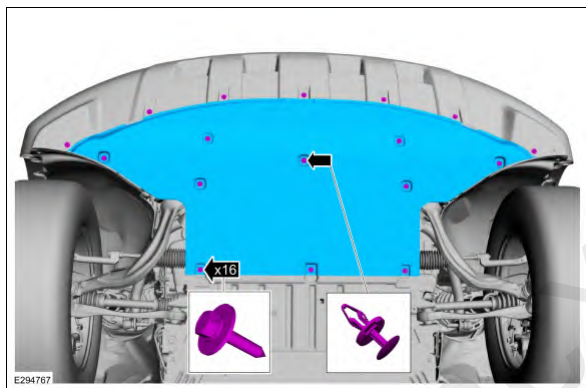
	307-346 (T97T-7902-A) Retainer, Torque Converter TK1T-1998-LM (Navigator) TK1T-1997-F/FLM/LT
Magnetic Socket	
Transmission Jack	
Vehicle/Axle Stands	
Wooden Block	

Materials

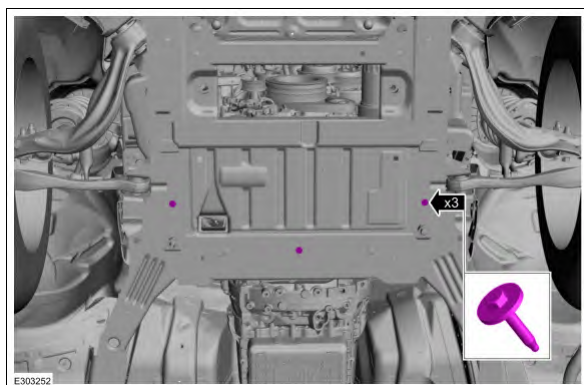
Name	Specification
Motorcraft® Multi-Purpose Grease Spray XL-5-A	ESB-M1C93-B
Motorcraft® MERCON® ULV Automatic Transmission Fluid XT-12-QULV	WSS-M2C949-A, MERCON® ULV

Removal

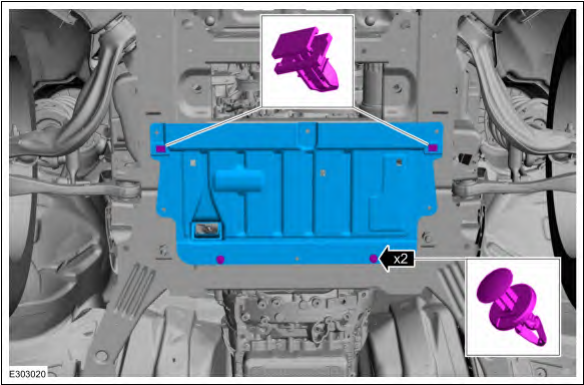
1. With the vehicle in NEUTRAL, position it on a hoist.
Refer to: Jacking and Lifting - Overview (100-02 Jacking and Lifting, Description and Operation).
2. Disconnect the battery ground.
Refer to: Battery Disconnect and Connect (414-01 Battery, Mounting and Cables, General Procedures).
3. Remove the HO2S from the catalytic converter.
Refer to: Heated Oxygen Sensor (HO2S) (303-14A Electronic Engine Controls - 2.3L EcoBoost (201kW/273PS), Removal and Installation).
4.
 1. Remove pin-type retainer.
 2. Remove the bolts and the underbody shield.



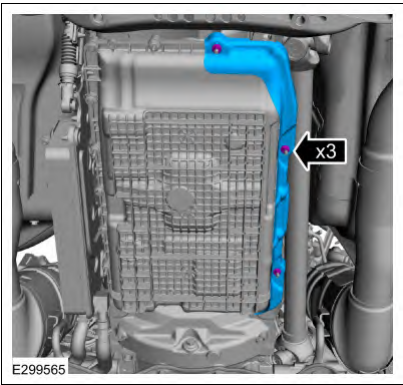
5. Remove the bolts.



- 6.
- Remove the retainers.
 - Remove the push pins and the engine rear shield.



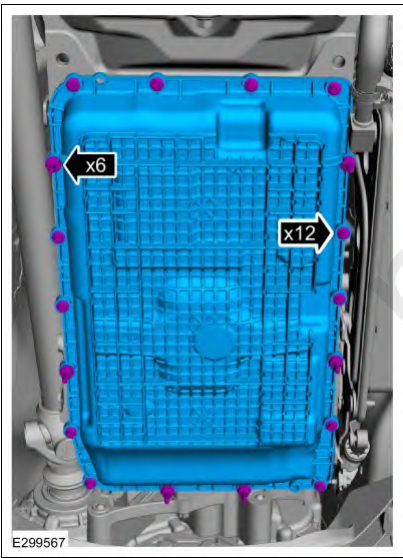
7. Remove the retainers and the heatshield.



8. **NOTE:** If transmission disassembly or installation of a new transmission is necessary, drain the transmission fluid.

NOTE: Note the location of the bolts and studbolts for assembly.

Remove the bolts, studbolts and the transmission fluid pan.



9. **NOTE:** It is not necessary to torque transmission fluid pan bolts at this time.

Install the transmission fluid pan and the bolts.