

## 6 Speed Transmission mechatronic sleeve replacement

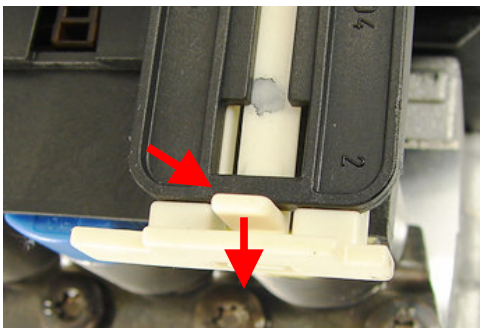
1. **Drain the transmission fluid and remove the transmission oil pan.**  
On applications with steel oil pan also remove the oil filter.
2. **Unlock and disconnect the vehicle electrical connector from the transmission.**



The Mechatronic (electronic valve body) located within the transmission is an electrostatic sensitive device, avoid touching any electrical pins to prevent ESD (electrostatic discharge) damage.



3. **Pull the sealing sleeve locking mechanism to the unlocked position.**  
The locking tab is located on the bottom of the mechatronic below the sealing sleeve.



4. **Pull out the sealing sleeve without twisting or rotating motion.**  
The sleeve has a locating tab that might come in touch with the connector pins and cause damage.

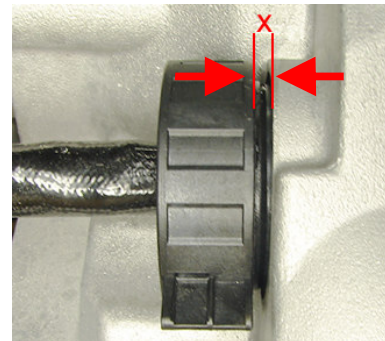
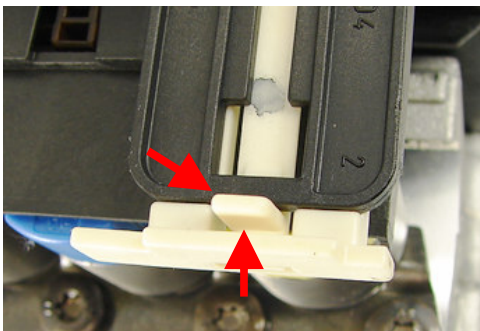


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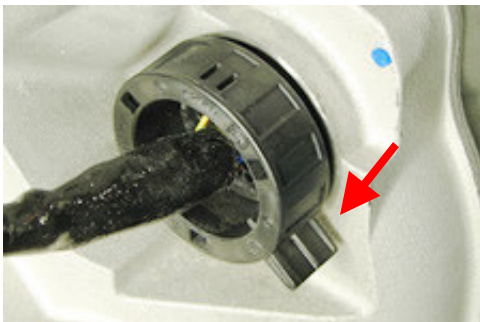
5. Lubricate the sealing sleeve o.-rings with Vaseline and push the sealing sleeve back into place. Avoid twisting or rotating of the sleeve as this may cause damage to the connector pins. Do not force the sleeve in place and pay close attention to the proper alignment of the locking tab.



6. Push the sealing sleeve locking mechanism up into the locked position. Do not force the locking mechanism, if hard to lock, check that the sleeve is pushed in far enough with gap x smaller 3.0mm.



7. Install the oil pan and adjust the fluid level as described in the appropriate transmission fluid level procedure.
8. Reconnect and lock the vehicle electrical connector to the transmission.

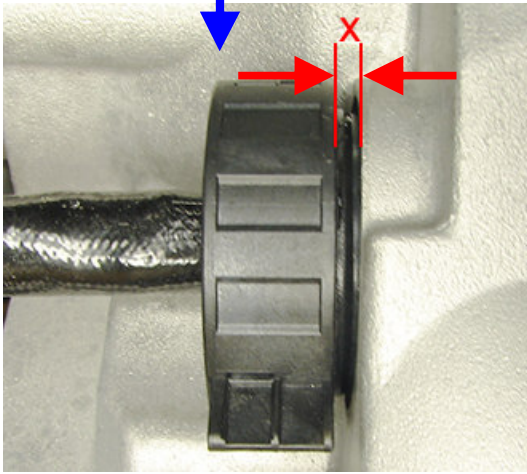


IF THE VEHICLE IS IN FAILSAFE AFTER THE SLEEVE REPLACEMENT,  
TROUBLE SHOOT AS OUTLINED ON THE NEXT PAGE.  
THESE ARE THE MOST COMMON ISSUES.

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FAILSAFE, NO COMMUNICATION WITH TRANSMISSION POSSIBLE

ANY MECHATRONIK SLEEVE REPAIRS ? CHECK GAP X BETWEEN HOUSING AND CONNECTOR.



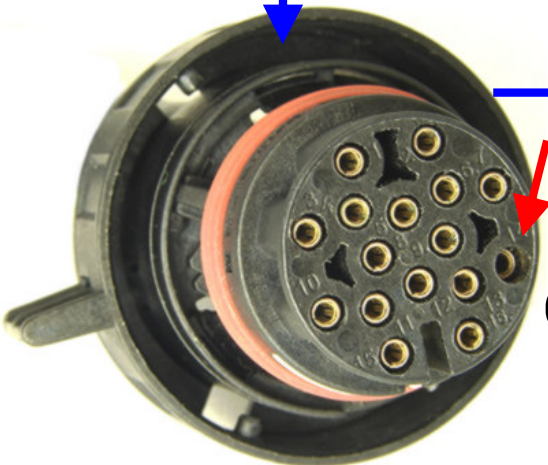
IS THE GAP X LARGER THAN 3.0mm ?

YES

NO

WITH PROPERLY SEATED SLEEVE THE GAP IS APP. 3.0mm. IF LARGER THEN THE SLEEVE IS NOT PROPERLY SEATED IN THE MECHATRONIK. REINSTALL SLEEVE PROPERLY

CHECK FOR PUSHED BACK PINS AT THE VEHICLE ELECTRICAL CONNECTOR TO THE TRANSMISSION



PINS PUSHED BACK ?

YES

NO

REPAIR AS NECESSARY

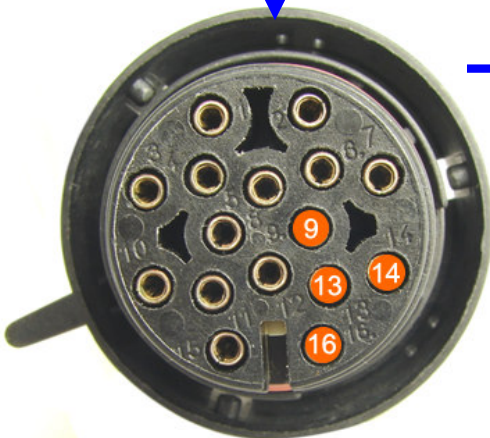
ARE YOU ABLE TO ACCESS ALL OTHER SYSTEMS ?

YES

NO

TROUBLESHOOT COMMUNICATION PATH

WITH VEHICLE CONNECTOR DISCONNECTED AND IGNITION ON CHECK VOLTAGE ON THE FOLLOWING PINS.



PIN 13 TO PIN 14 – RECORD VOLTAGE  
PIN 13 TO PIN 9 – RECORD VOLTAGE  
PIN 16 TO PIN 14 – RECORD VOLTAGE  
PIN 16 TO PIN 9 – RECORD VOLTAGE

IS VOLTAGE BETWEEN ALL PINS BATTERY VOLTAGE ?

YES

NO

RECOMMEND MECHATRONIK REPLACEMENT

TROUBLESHOOT POWER PATH - FUSES