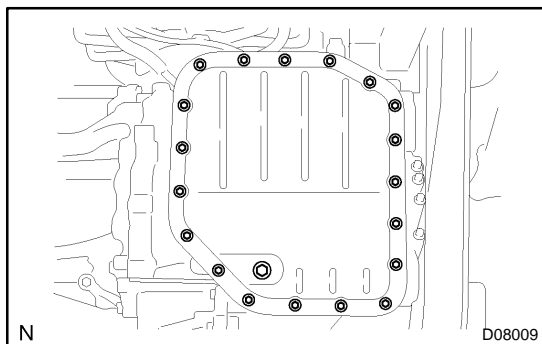


VALVE BODY ASSEMBLY ON-VEHICLE REPAIR

AX0D2-06

1. REMOVE LH ENGINE UNDER COVER



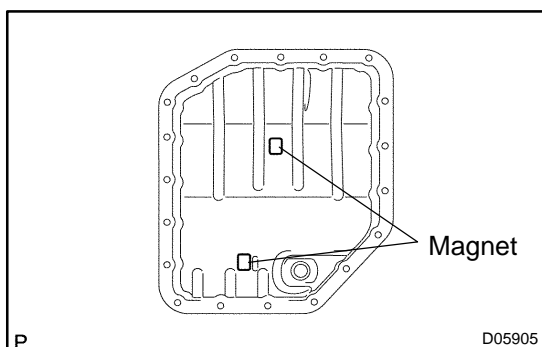
2. REMOVE DRAIN PLUG AND DRAIN ATF

3. REMOVE OIL PAN AND GASKET

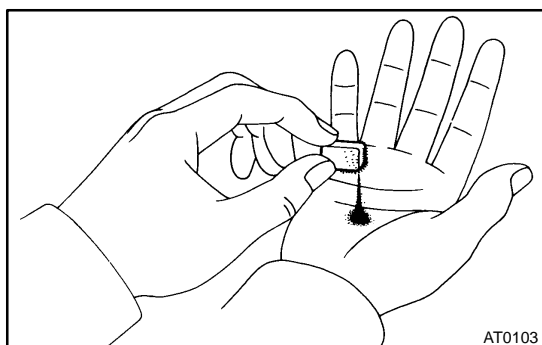
Remove the 19 bolts, oil pan and gasket.

NOTICE:

Some fluid will remain in the oil pan. Remove all pan bolts, and carefully remove the oil pan assembly. Discard the gasket.

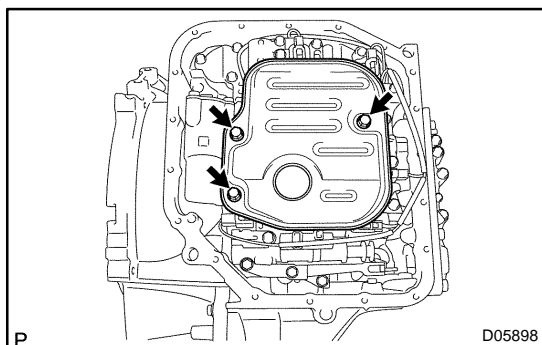


4. REMOVE 2 MAGNETS FROM OIL PAN



5. EXAMINE PARTICLES IN PAN

Remove the magnets and use them to collect any steel chips. Look carefully at the chips and particles in the pan and the magnet to anticipate what type of wear you will find in the transaxle. Steel (magnetic): bearing, gear and plate wear
Brass (non-magnetic): bearing wear

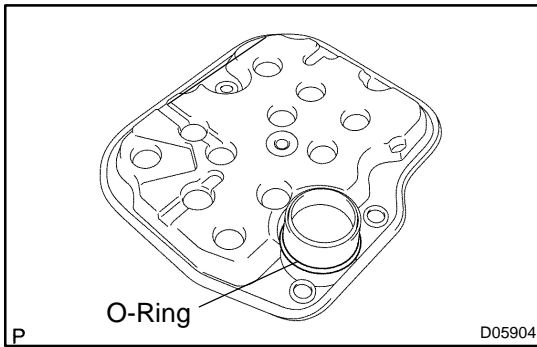


6. REMOVE OIL STRAINER

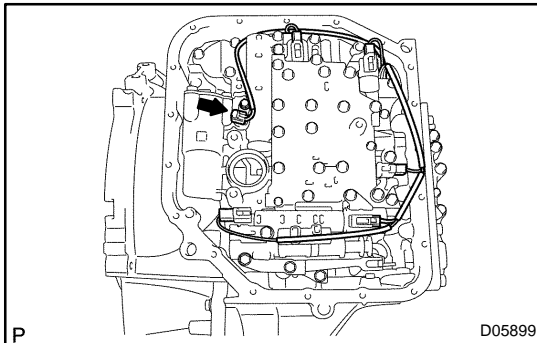
NOTICE:

Be careful as some fluid will come out with the oil strainer.

(a) Remove the 3 bolts and oil strainer.



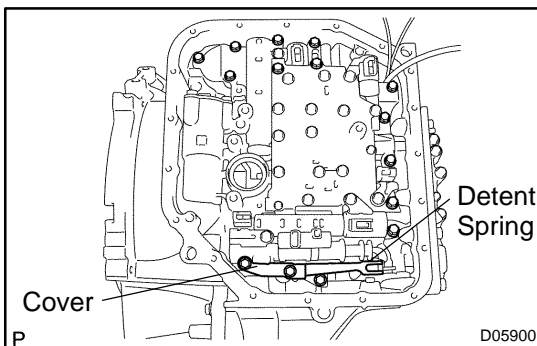
- (b) Remove the O-ring from the oil strainer.



7. DISCONNECT 5 SHIFT SOLENOID VALVE CONNECTORS

8. DISCONNECT ATF TEMPERATURE SENSOR

Remove the bolt and lock plate, and remove the ATF temperature sensor.



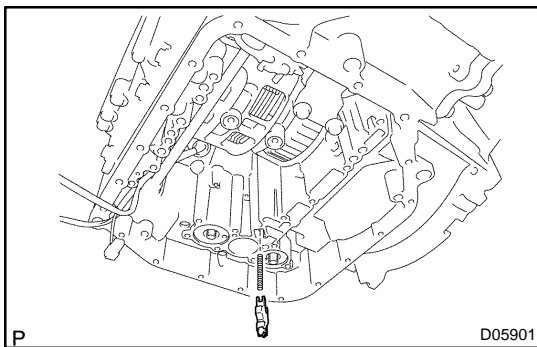
9. REMOVE VALVE BODY

- (a) Remove the 2 bolts, cover and detent spring.

- (b) Remove the 12 bolts and valve body.

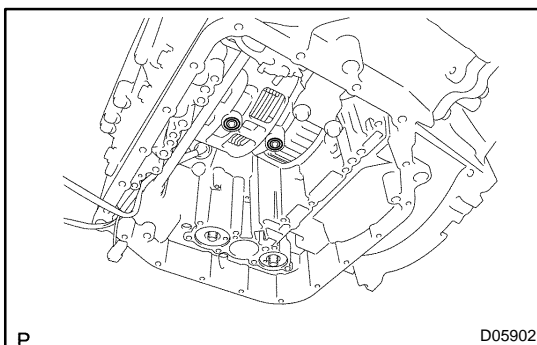
NOTICE:

Be careful not to drop the check valve body, spring and accumulator piston.

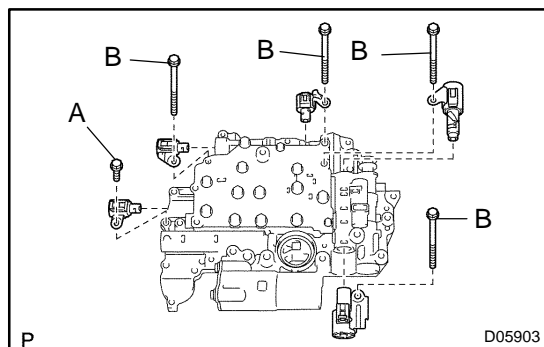


10. REMOVE CHECK BALL BODY

Remove the check ball body and spring.



11. REMOVE 2 APPLY GASKETS

**12. REMOVE SHIFT SOLENOID VALVE**

Remove the 5 bolts and 5 shift solenoid valves.

13. INSTALL 5 SOLENOID VALVES

Install the 5 shift solenoid valves with the 5 bolts.

Torque:

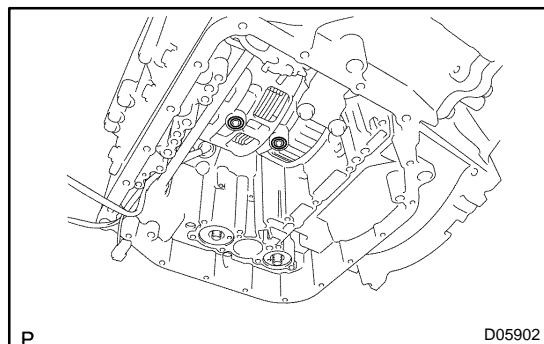
Bolt A: 11 N·m (110 kgf-cm, 8 ft·lbf)

Bolt B: 11 N·m (110 kgf-cm, 8 ft·lbf)

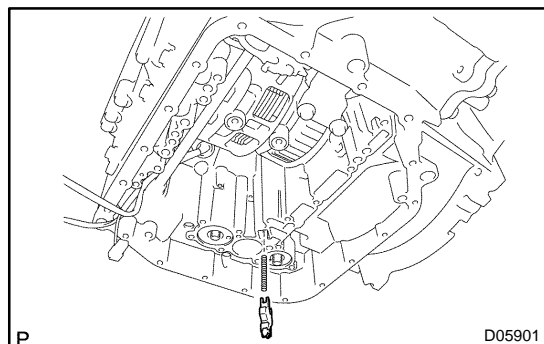
Bolt length:

Bolt A: 12 mm (0.47 in.)

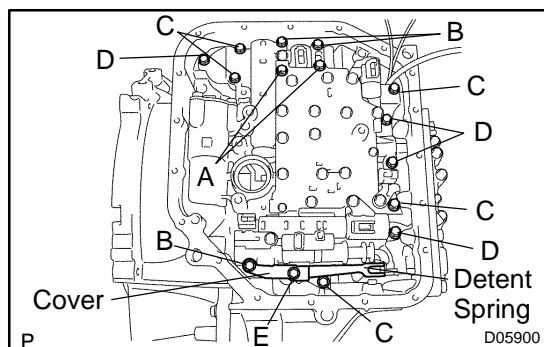
Bolt B: 45 mm (1.77 in.)

**14. INSTALL APPLY GASKET**

- (a) Coat 2 new apply gaskets with ATF.
- (b) Install the gaskets to the transaxle case.

**15. INSTALL CHECK BALL BODY**

Install the spring and check ball body.

**16. INSTALL VALVE BODY**

- (a) Align the groove of the manual valve with the pin of the manual valve lever.

- (b) Temporarily install the valve body with the 12 bolts.

Bolt length:

Bolt A: 55 mm (2.17 in.)

Bolt B: 45 mm (1.77 in.)

Bolt C: 32 mm (1.26 in.)

Bolt D: 22 mm (0.87 in.)

- (c) Temporarily install the detent spring and cover with the 2 bolts.

Bolt length:

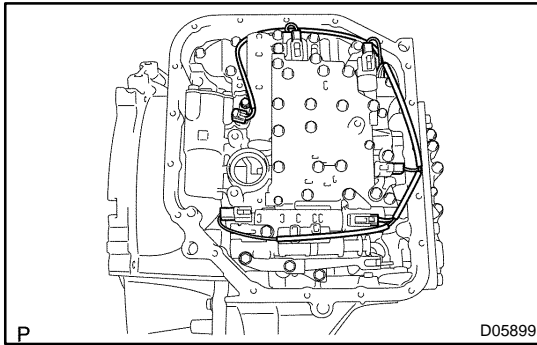
Bolt B: 45 mm (1.77 in.)

Bolt E: 14 mm (0.55 in.)

- (d) Check that the manual valve lever contacts the center of the roller at the tip of the detent spring.

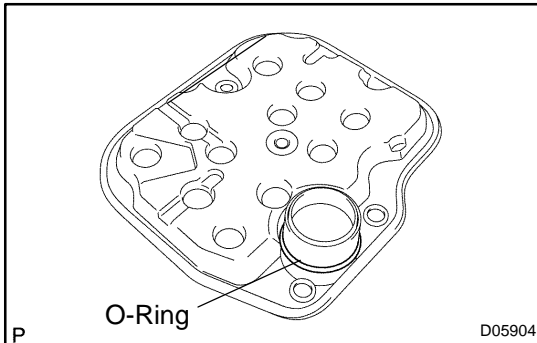
- (e) Tighten the 15 bolts.

Torque: 11 N·m (110 kgf-cm, 8 ft·lbf)

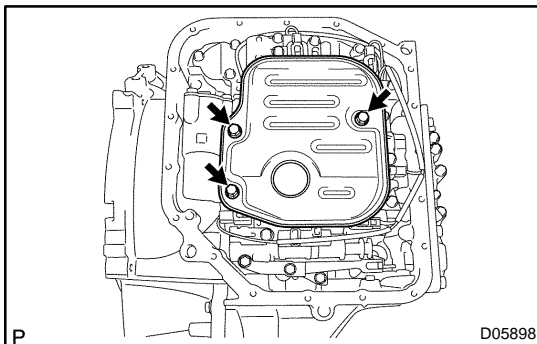
**17. INSTALL ATF TEMPERATURE SENSOR**

Install the ATF temperature sensor with the lock plate and bolt.

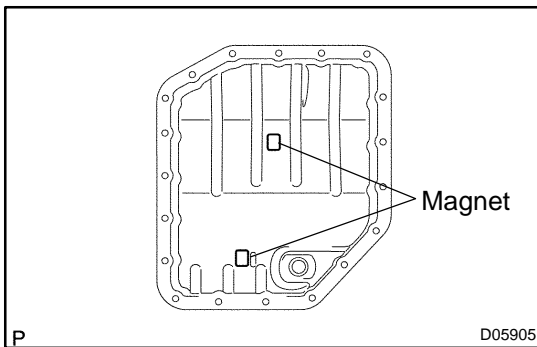
Torque: 11 N·m (110 kgf·cm, 8 ft·lbf)

18. CONNECT 5 SHIFT SOLENOID VALVE CONNECTORS**19. INSTALL OIL STRAINER**

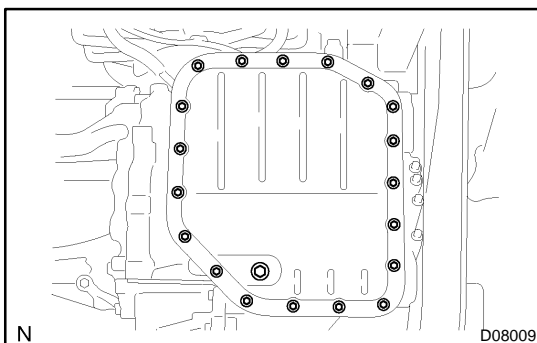
- (a) Coat a new O-ring with ATF.
- (b) Install the O-ring to the oil strainer.



- (c) Install the oil strainer with the 3 bolts.
- Torque: 11 N·m (110 kgf·cm, 8 ft·lbf)**

**20. INSTALL 2 MAGNETS IN OIL PAN****21. INSTALL OIL PAN AND GASKET**

- (a) Install a new gasket to the oil pan.



- (b) Install the oil pan and a new gasket with the 19 bolts.

Torque: 7.8 N·m (80 kgf·cm, 69 in·lbf)

22. INSTALL DRAIN PLUG

Install a new gasket and drain plug.

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

23. FILL ATF AND CHECK ATF LEVEL (See page [DI-149](#))**24. INSTALL LH ENGINE UNDER COVER**