

TRANSMISSION VALVE BODY ASSY

4017W-01

REPLACEMENT

CAUTION:

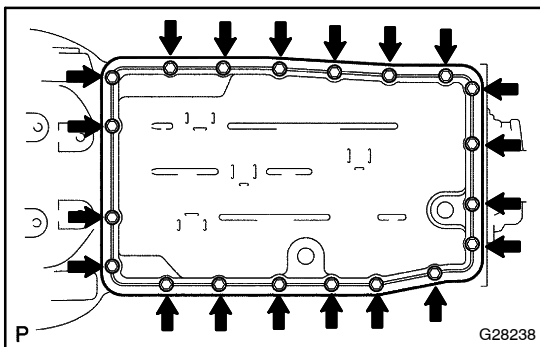
When working with FIPG material, perform the following:

- Using a razor blade and gasket scraper, remove all the old FIPG material from the gasket surfaces.
- Thoroughly clean all components to remove any loose material.
- Clean both sealing surfaces with a non-residue solvent.
- Apply FIPG in a continuous line width approximately 1 mm (0.04 in.) along the sealing surface.
- Parts must be assembled within 10 minutes of application. Otherwise, the FIPG material must be removed and reapplied.

1. **DISCONNECT BATTERY NEGATIVE TERMINAL**
2. **DRAIN AUTOMATIC TRANSMISSION FLUID**

- (a) Remove the drain plug, gasket and drain the ATF.
- (b) Install a new gasket and the drain plug.

Torque: 20 N·m (205 kgf·cm, 15 ft·lbf)

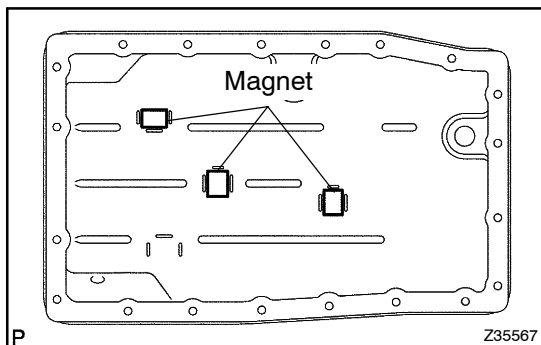


3. **REMOVE AUTOMATIC TRANSMISSION OIL PAN SUB-ASSY**

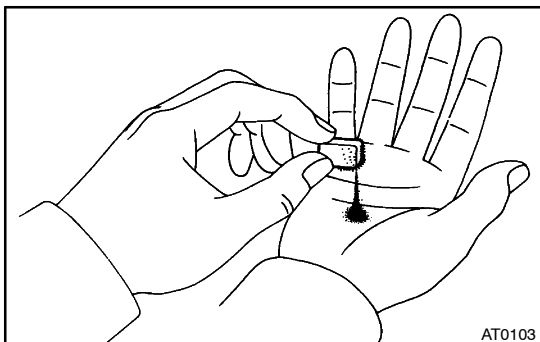
NOTICE:

Some fluid will remain in the oil pan.

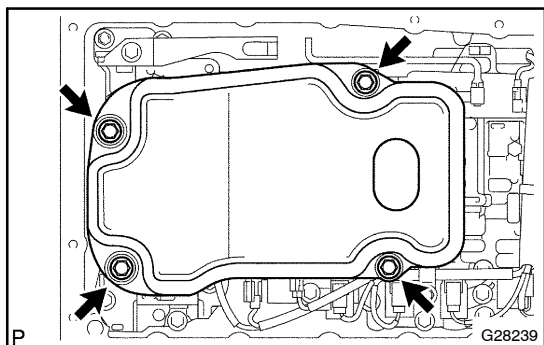
- (a) Remove the 20 bolts, oil pan and gasket.



- (b) Remove the 3 magnets from the oil pan.



- (c) Examine particles in the pan.
 - (1) Collect any steel chips with the removed magnets. Carefully look at the foreign objects and particles in the pan and on the magnets to guess at the type of wear which might be found in the transmission.
 - Steel (magnetic) ... bearing, gear and clutch plate wear
 - Brass (non-magnetic) ... bushing wear

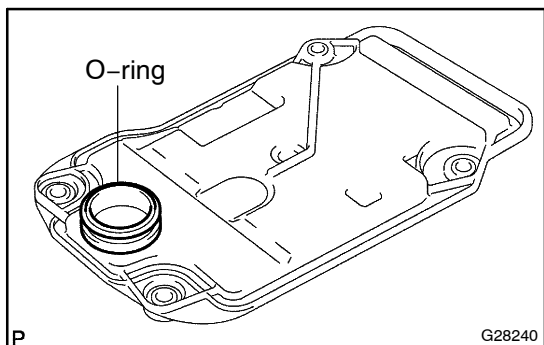


4. REMOVE VALVE BODY OIL STRAINER ASSY

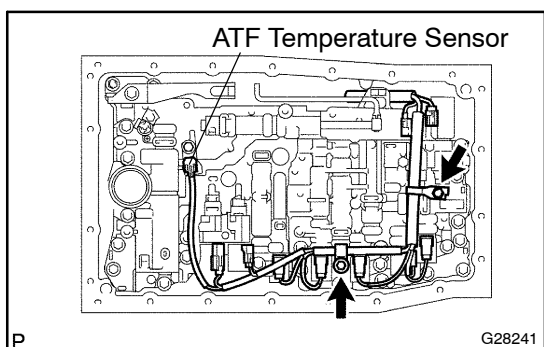
- (a) Remove the 4 bolts and oil strainer.

NOTICE:

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

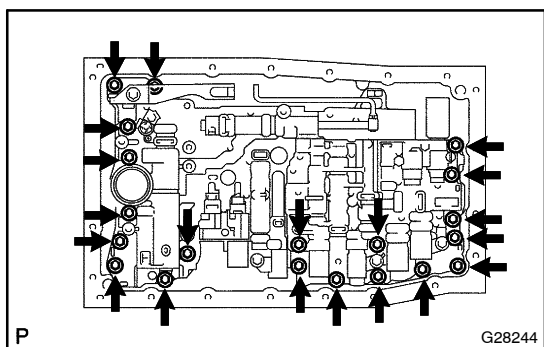


- (b) Remove the O-ring from the oil strainer.



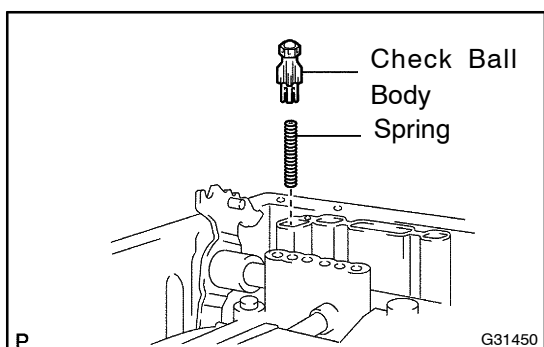
5. DISCONNECT TRANSMISSION WIRE

- (a) Remove the bolt and lock plate, and separate the ATF temperature sensor.
- (b) Remove the 2 bolts and 2 clamps.
- (c) Separate the 9 connectors from the solenoid valves.



6. REMOVE TRANSMISSION VALVE BODY ASSY

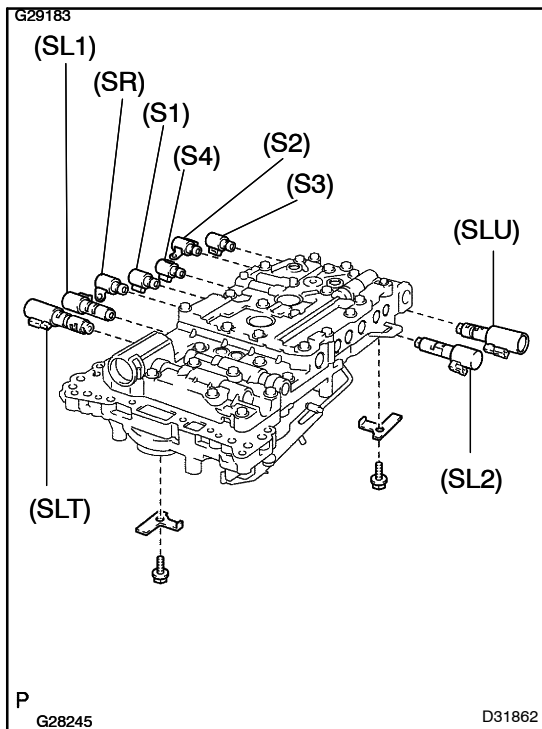
- (a) Remove the 20 bolts and valve body.



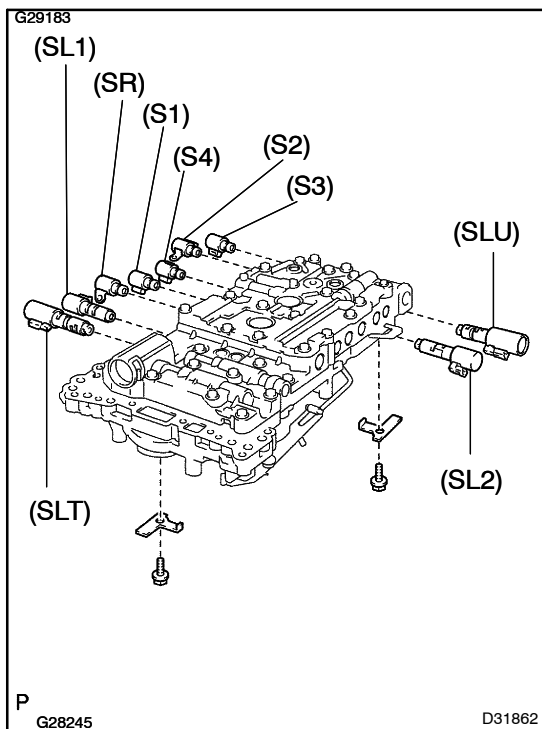
- (b) Remove the check ball body and spring.

NOTICE:

Do not drop the check ball body and spring.

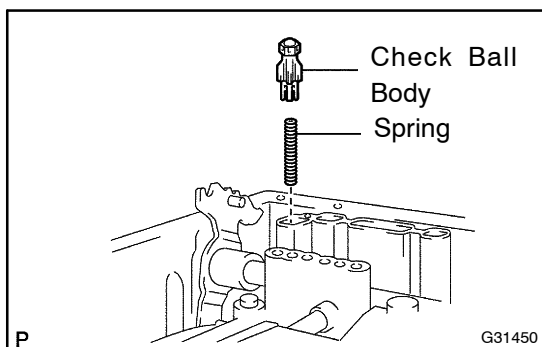


- (c) Remove the bolt, lock plate and lock up control solenoid (SLU) and clutch control solenoid (SL2).
- (d) Remove the bolt and automatic transmission 3-way solenoid assy (S3).
- (e) Remove the bolt and automatic transmission 3-way solenoid (S2) and automatic transmission 3-way solenoid (S4).
- (f) Remove the bolt and automatic transmission 3-way solenoid (S1).
- (g) Remove the bolt and automatic transmission 3-way solenoid (SR).
- (h) Remove the bolt, lock plate and clutch control solenoid No.1 (SL1) and line pressure control solenoid (SLT).



7. INSTALL TRANSMISSION VALVE BODY ASSY

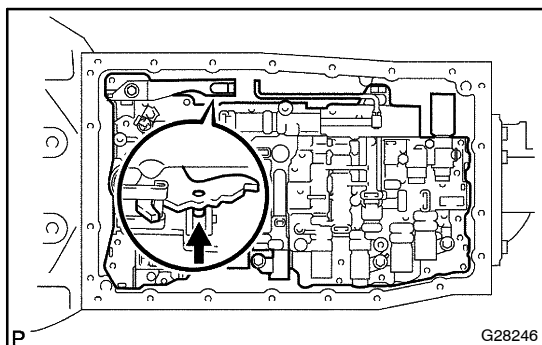
- (a) Install the clutch control solenoid No.1 (SL1) and line pressure control solenoid (SLT) with the lock plate and bolt.
Torque: 6.4 N·m (65 kgf·cm, 56 in·lbf)
- (b) Install the automatic transmission 3-way solenoid (SR) with the bolt.
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)
- (c) Install the automatic transmission 3-way solenoid (S1) with the bolt.
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)
- (d) Install the automatic transmission 3-way solenoid (S2) and automatic transmission 3-way solenoid (S4) with the bolt.
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)
- (e) Install the automatic transmission 3-way solenoid (S3) with the bolt.
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)
- (f) Install the lock up control solenoid (SLU) and clutch control solenoid (SL2) with the lock plate and bolt.
Torque: 6.4 N·m (65 kgf·cm, 56 in·lbf)



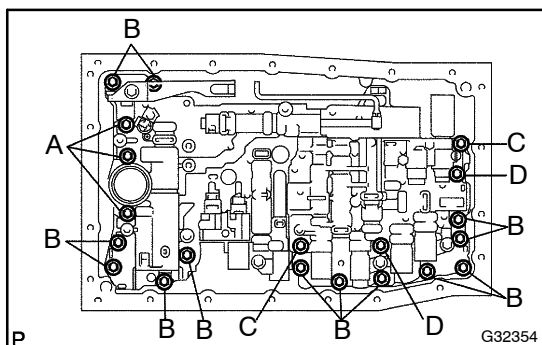
(g) Install the check ball body and spring.

NOTICE:

Do not drop the check ball body and spring.



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



(i) Install the 20 bolts.

Torque: 11 N·m (110 kgf·cm, 8 ft·lbf)

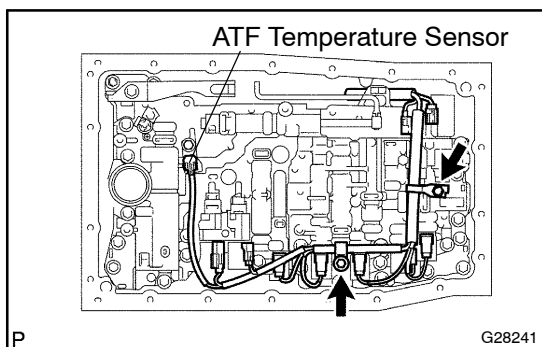
Bolt length:

Bolt A: 36 mm (1.42 in.)

Bolt B: 25 mm (0.98 in.)

Bolt C: 45 mm (1.77 in.)

Bolt D: 50 mm (1.97 in.)



8. INSTALL TRANSMISSION WIRE

(a) Coat a new O-ring of the ATF temperature sensor with ATF.

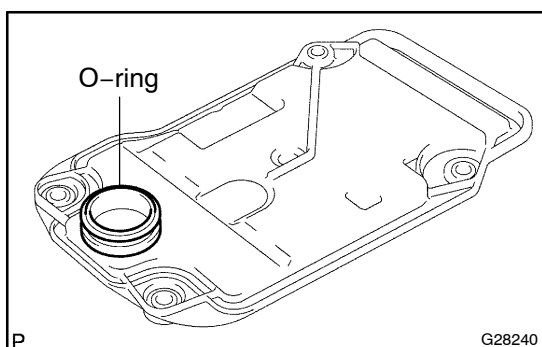
(b) Connect the 9 connectors to the solenoid valves.

(c) Install the 2 clamps with the 2 bolts.

Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)

(d) Install the ATF temperature sensor and lock plate with the bolt.

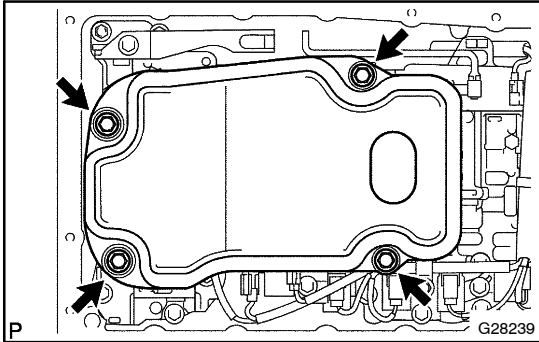
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)



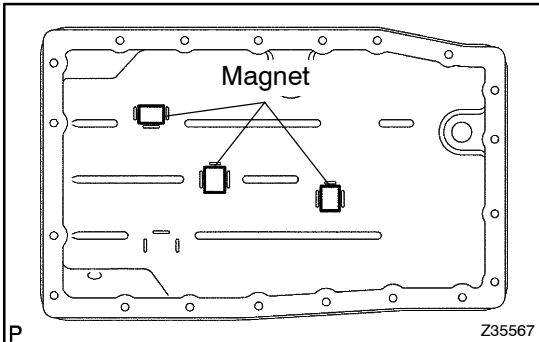
9. INSTALL VALVE BODY OIL STRAINER ASSY

(a) Coat a new O-ring with ATF.

(b) Install the O-ring.

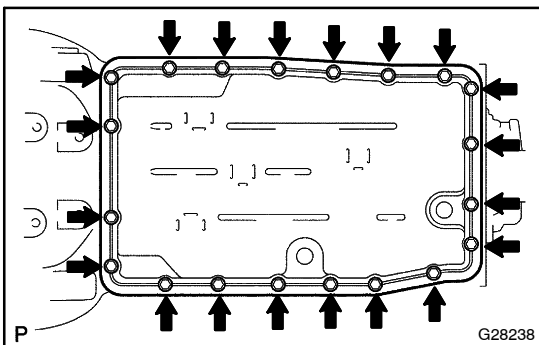


- (c) Install the oil strainer with the 4 bolts.
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)



10. INSTALL AUTOMATIC TRANSMISSION OIL PAN SUB-ASSY

- (a) Install the 3 magnets in the oil pan.



- (b) Using a new gasket, install the oil pan with the 20 bolts to the transmission case.

Torque: 4.4 N·m (44 kgf·cm, 39 in·lbf)

11. CONNECT BATTERY NEGATIVE TERMINAL

12. ADD AUTOMATIC TRANSMISSION FLUID (SEE PAGE 40-2)

Fluid type: Auto Fluid WS

Capacity: 4.3 liters (4.5 US qts, 3.8 Imp. qts)

13. RESET MEMORY (SEE PAGE 05-535)

14. PERFORM INITIALIZATION (SEE PAGE 01-20)