VALVE BODY ASSEMBLY

AT11I–01

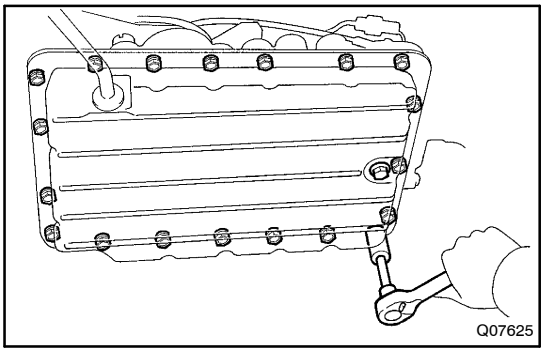
ON–VEHICLE REPAIR

CAUTION:

When working with FIPG material, you must observe the following items.

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

1. REMOVE DRAIN PLUG AND DRAIN ATF

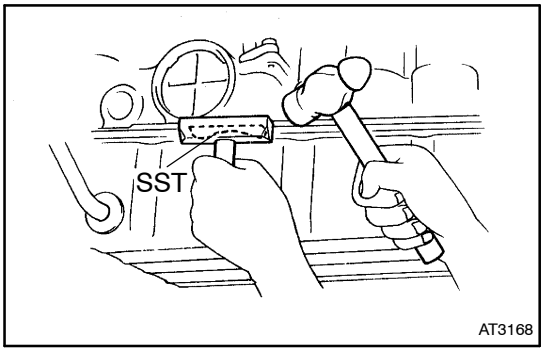

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2. REMOVE OIL PAN

NOTICE:

Some fluid will remain in the oil pan.

(a) Remove the 19 bolts.

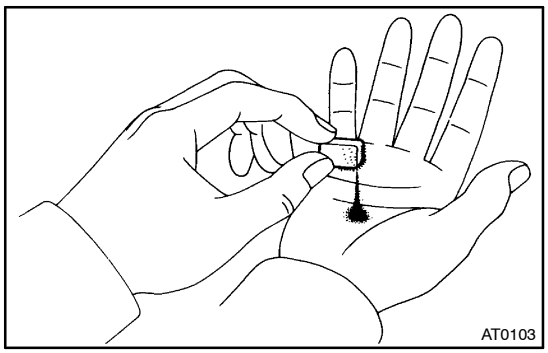


AT3168

(b) Install the blade of SST between the transmission case and oil pan, cut off applied sealer, and remove the oil pan.
SST 09032–00100

NOTICE:

When removing the oil pan, be careful not to damage the oil pan flange.


AT0103

3. EXAMINE PARTICLES IN PAN

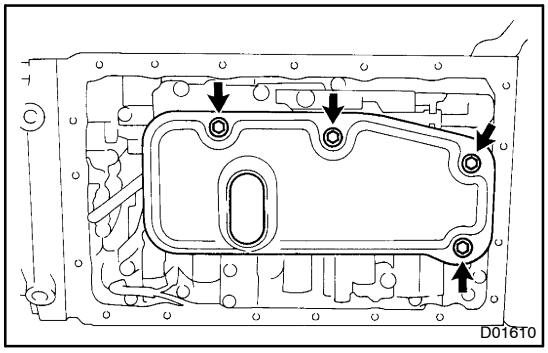
Remove the magnets and use them to collect steel particles. Carefully look at the foreign matter and particles in the pan and on the magnets to anticipate the type of wear you will find in the transmission.

Steel (magnetic) ... bearing, gear and clutch plate wear

Brass (non–magnetic) ... bushing wear

NOTICE:

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



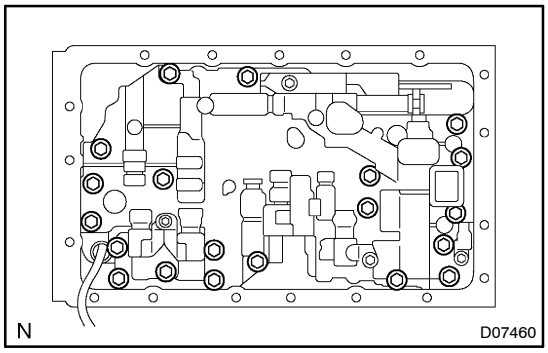
4. REMOVE OIL STRAINER

NOTICE:

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

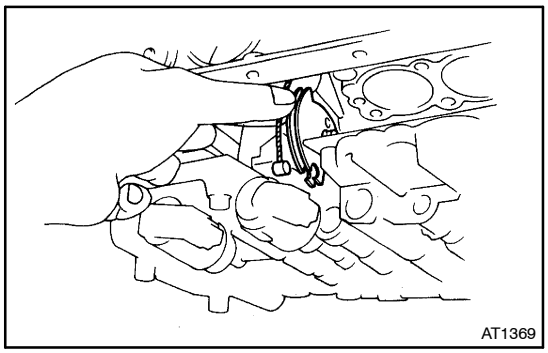
Remove the 4 bolts, oil strainer and gaskets.

5. DISCONNECT 3 CONNECTORS FROM EACH SHIFT SOLENOID VALVE



6. REMOVE VALVE BODY

(a) Remove the 20 bolts.

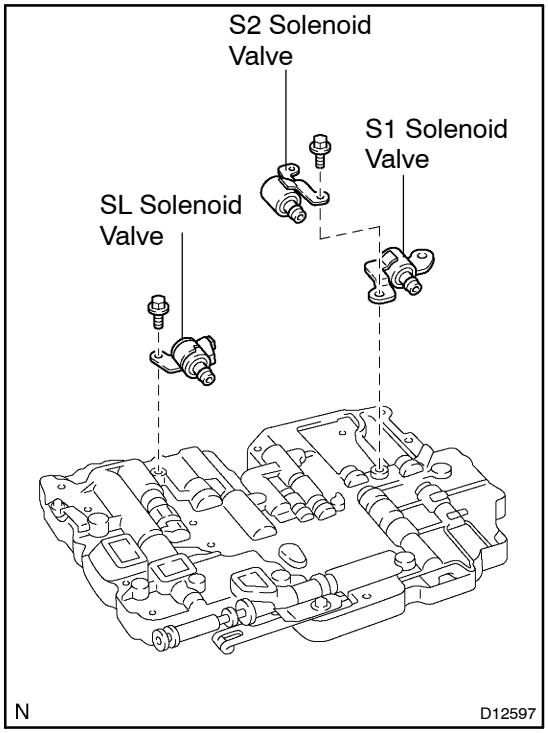


(b) Disconnect the throttle cable from the cam.

(c) Remove the valve body.

NOTICE:

Be careful not to drop the check ball body and spring



7. REMOVE SHIFT SOLENOID VALVE

(a) Remove the 2 bolts and 3 solenoid valves.

(b) Turn the valve body, remove the bolt, lock plate and solenoid valve.

(c) Remove the 3 O–rings from the 3 solenoid valves.

8. REMOVE DETENT SPRING

9. REMOVE MANUAL VALVE

10. INSTALL MANUAL VALVE

11. INSTALL DETENT SPRING

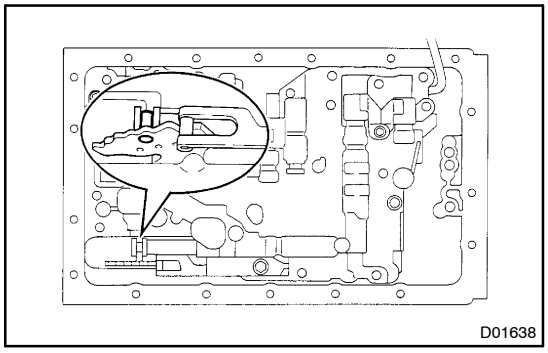
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)

12. INSTALL SOLENOID VALVE

(a) Install 3 new O–rings to 3 solenoid valves.

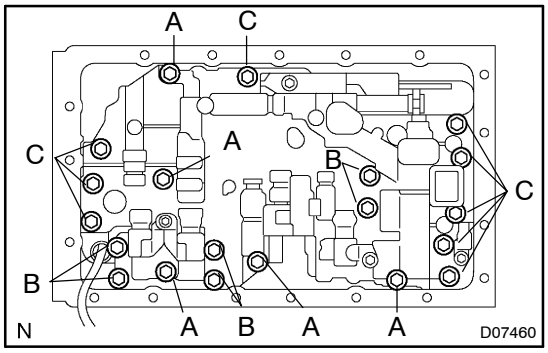
(b) Install the 3 solenoid valves with the 2 bolts.

Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)



13. INSTALL VALVE BODY

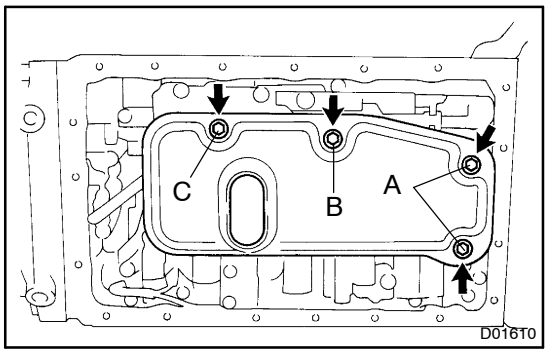
(a) Align the groove of the manual valve with the pin of the lever.



(b) Install the valve body with the 20 bolts.
Torque: 11 N·m (110 kgf·cm, 8 ft·lbf)
Bolt length:
Bolt A: 23 mm (0.91 in.)
Bolt B: 28 mm (1.10 in.)
Bolt C: 36 mm (1.42 in.)

(c) Connect the throttle cable to the cam.

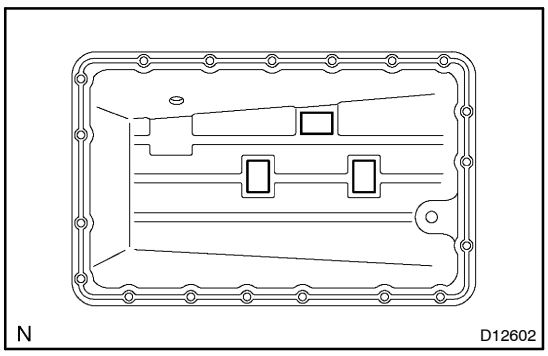
14. CONNECT 3 CONNECTORS TO SHIFT SOLENOID VALVES



15. INSTALL OIL STRAINER

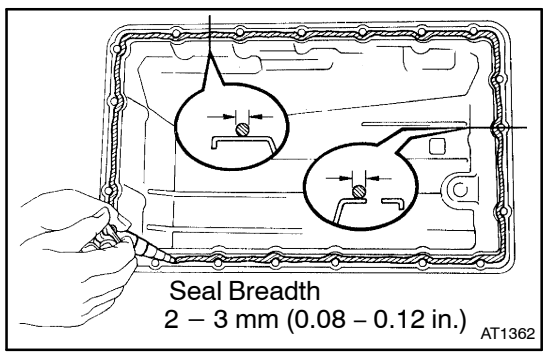
(a) Install 3 new gaskets.

(b) Install the oil strainer with the 4 bolts.
Torque: 11 N·m (100 kgf·cm, 7 ft·lbf)
Bolt length:
Bolt A: 14 mm (0.55 in.)
Bolt B: 20 mm (0.79 in.)
Bolt C: 23 mm (0.91 in.)



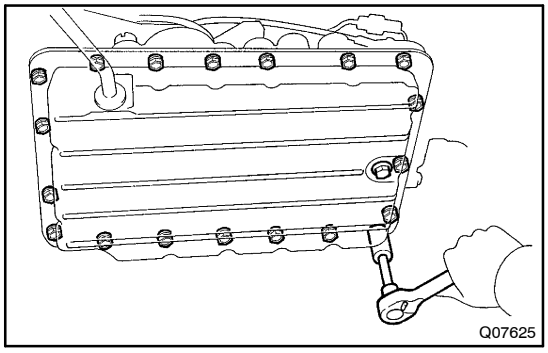
16. INSTALL OIL PAN

(a) Install the 3 magnets in the indications of the oil pan.



(b) Remove any FIPG material and be careful not to drop oil on the contacting surfaces of the transmission case and oil pan.

(c) Apply FIPG to the oil pan.
FIPG:
Part No. 08826–00090, THREE BOND 1281 or equivalent



(d) Install the oil pan with the 19 bolts.
Torque: 7.4 N·m (75 kgf·cm, 65 in.·lbf)

17. INSTALL DRAIN PLUG
Torque: 20 N·m (205 kgf·cm, 15 ft·lbf)

18. FILL AND CHECK ATF (See page DI–4)