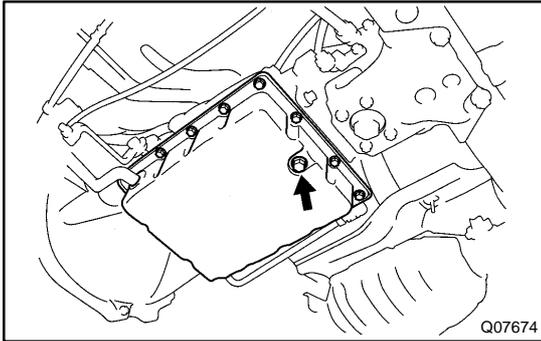


VALVE BODY ASSEMBLY ON-VEHICLE REPAIR

AT01F-03

1. CLEAN TRANSMISSION EXTERIOR

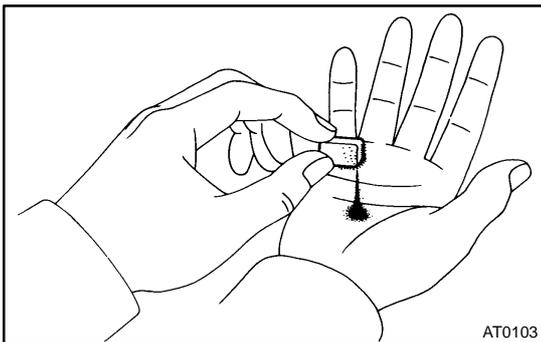
To prevent contamination, clean the exterior of the transmission.



2. REMOVE DRAIN PLUG AND DRAIN ATF
3. REMOVE OIL PAN

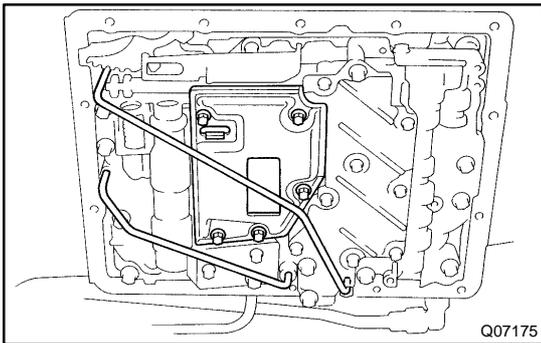
NOTICE:

- Some fluid will remain in the oil pan.
 - Be careful not to damage the filler pipe.
- (a) Remove the 14 bolts, and carefully remove the oil pan.
 - (b) Remove the gasket.



4. EXAMINE PARTICLES IN PAN

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



5. REMOVE OIL PIPES

Pry up both pipe ends with a large screwdriver and remove the 2 pipes.

NOTICE:

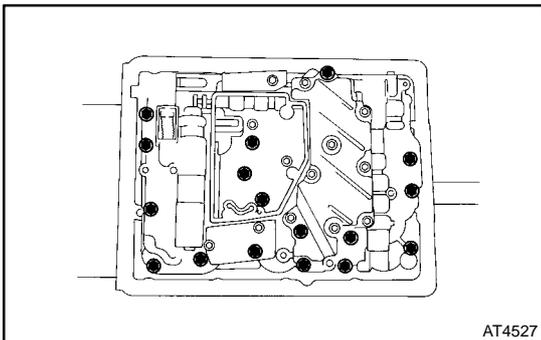
Be careful not to bend or damage the pipes.

6. REMOVE OIL STRAINER

Remove the 5 bolts, oil strainer and the gasket.

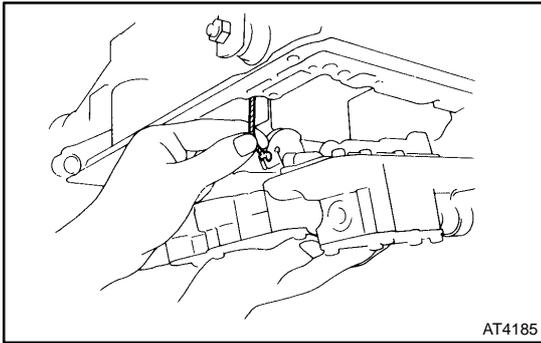
NOTICE:

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



7. REMOVE VALVE BODY

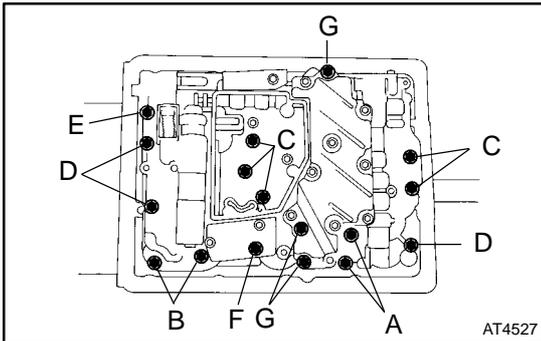
- (a) Remove the 17 bolts.



- (b) Disconnect the throttle cable from the cam and remove the valve body.

8. INSTALL VALVE BODY

- (a) While holding the cam down with your hand, connect the throttle cable.



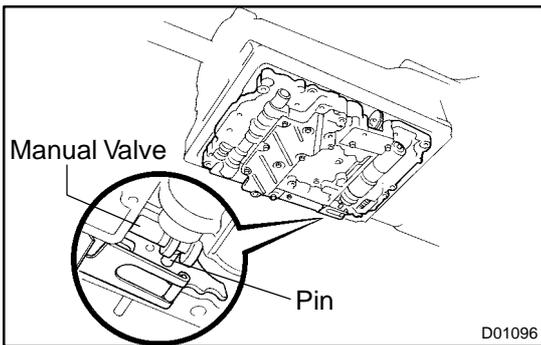
- (b) Install the 17 bolts as shown in the illustration.
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)

HINT:

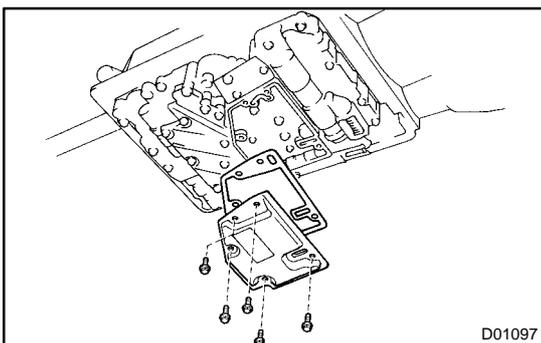
Each bolt length is indicated below.

Bolt length:

- A: 20 mm (0.79 in.)**
- B: 25 mm (0.98 in.)**
- C: 30 mm (1.18 in.)**
- D: 35 mm (1.42 in.)**
- E: 40 mm (1.57 in.)**
- F: 47 mm (1.85 in.)**
- G: 55 mm (2.17 in.)**

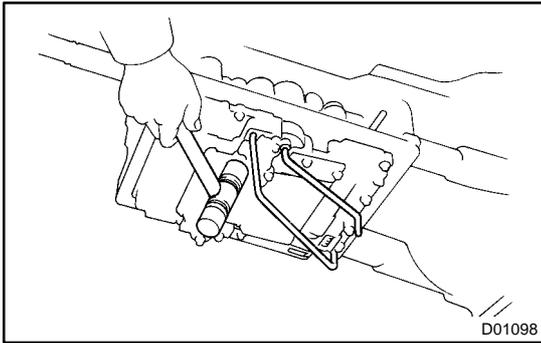


- (c) Align the groove of the manual valve to the pin of the lever.



9. INSTALL OIL STRAINER

- (a) Install a new gasket to the oil strainer.
- (b) Install the oil strainer to the valve body with the 5 bolts.
Torque: 5.4 N·m (55 kgf·cm, 48 in.-lbf)



10. INSTALL OIL PIPES

Using a plastic hammer, install the 2 pipes.

NOTICE:

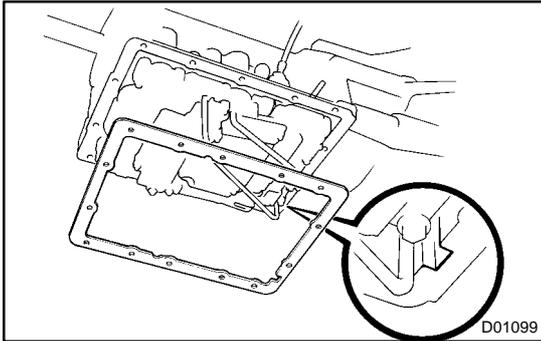
Be careful not to bend or damage the pipe.

11. INSTALL OIL PAN

(a) Install the 2 magnets in the oil pan.

NOTICE:

Make sure that the magnets do not interfere with the oil pipes.



(b) Install a new gasket to the transmission case.

HINT:

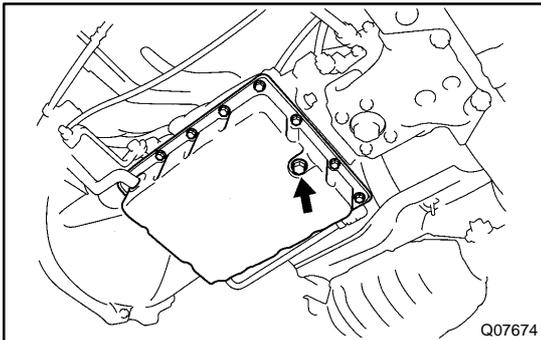
Align the cut part of the gasket and case.

(c) Install the oil pan with the 14 bolts.

Torque: 4.4 N·m (45 kgf-cm, 39 in.-lbf)

NOTICE:

Be careful not to damage the filler pipe.



12. INSTALL DRAIN PLUG

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

13. FILL ATF AND CHECK FLUID LEVEL (See page [AT-2](#))