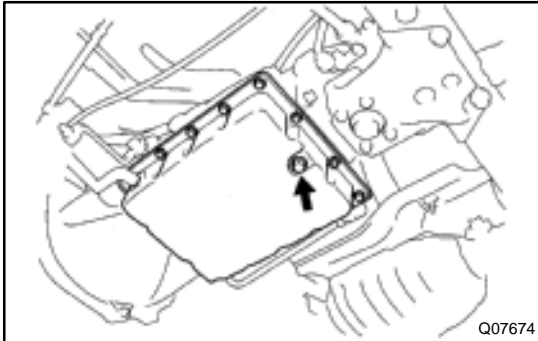


# VALVE BODY ASSEMBLY ON-VEHICLE REPAIR

AT01F-01

## 1. CLEAN TRANSMISSION EXTERIOR

To prevent contamination, clean the exterior of the transmission.



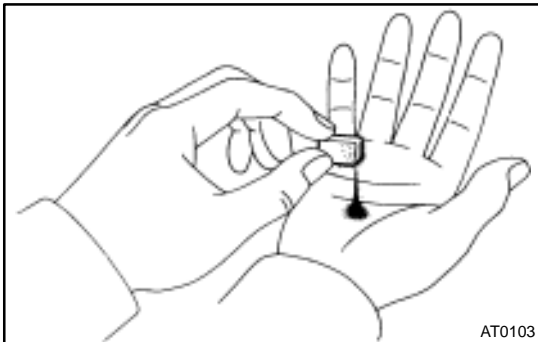
## 2. REMOVE DRAIN PLUG AND DRAIN ATF

## 3. REMOVE OIL PAN

### NOTICE:

- Some fluid will remain in the oil pan.
- Be careful not to damage the filler pipe.

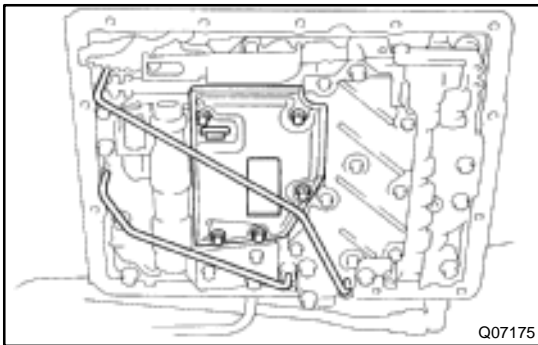
- Remove the 14 bolts, and carefully remove the oil pan.
- Remove the gasket.



## 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:

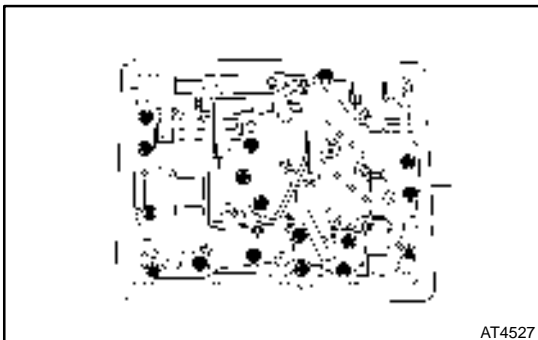
Be careful not to bend or damage the pipes.

## 6. REMOVE OIL STRAINER

Remove the 5 bolts, oil strainer and the gasket.

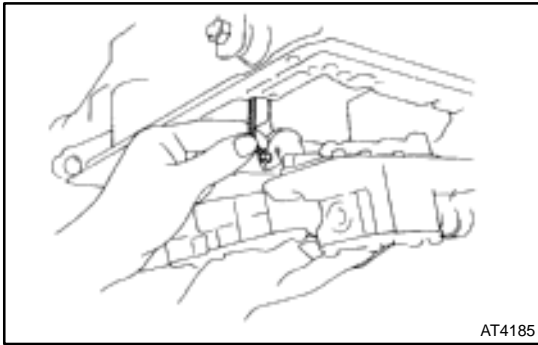
### NOTICE:

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



## 7. REMOVE VALVE BODY

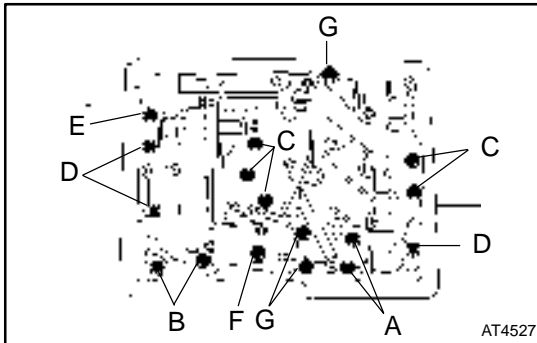
- Remove the 17 bolts.



- (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.)**

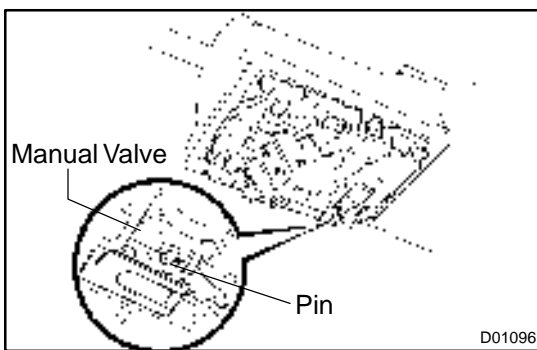
**C: 30 mm (1.18 in.)**

**D: 35 mm (1.42 in.)**

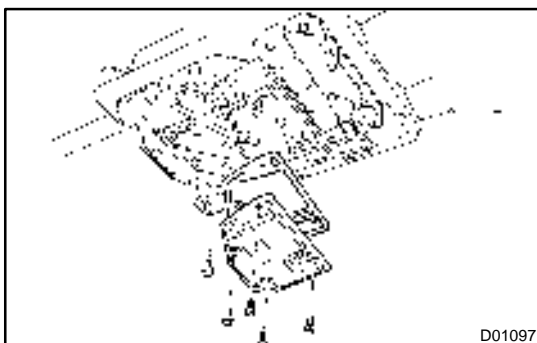
**E: 40 mm (1.57 in.)**

**F: 47 mm (1.85 in.)**

**G: 55 mm (2.17 in.)**

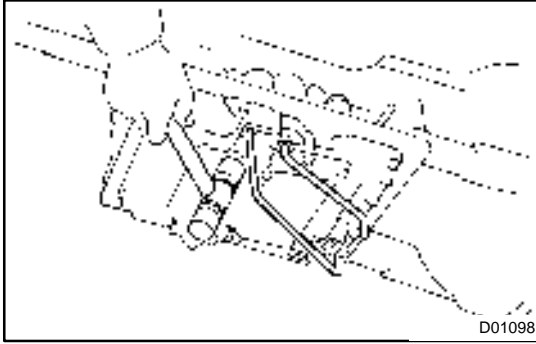


- (c) Align the groove of the manual valve to the pin of the lever.



### 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:**

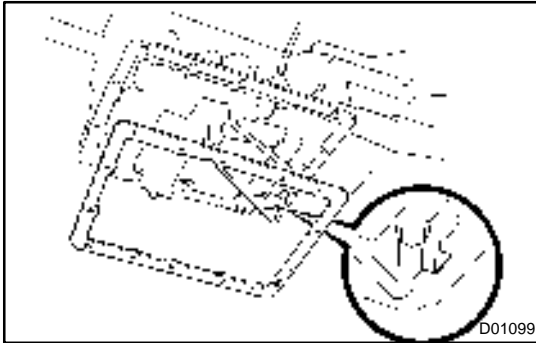
**Be careful not to bend or damage the pipe.**

**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:**

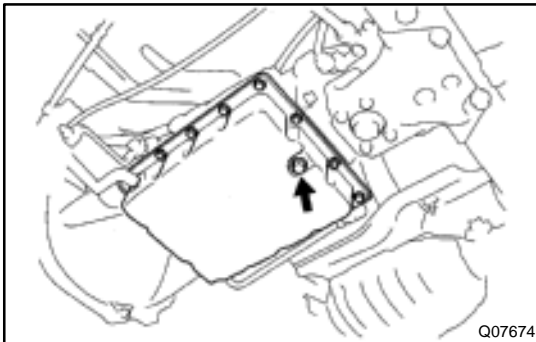
Align the cut part of the gasket and case.

- (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](#))