

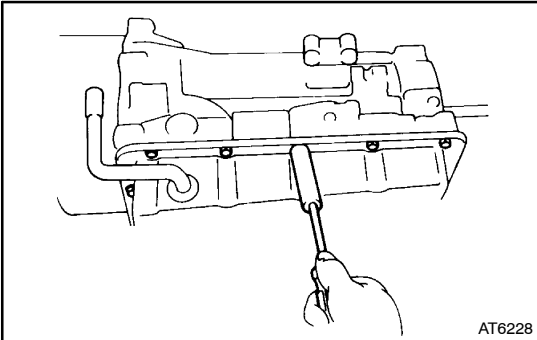
## VALVE BODY ASSEMBLY (A45DE)

### ON-VEHICLE REPAIR

ATOG5-01

#### 1. DRAIN ATF

- Remove the drain plug and gasket.
- Drain the ATF into a suitable container.



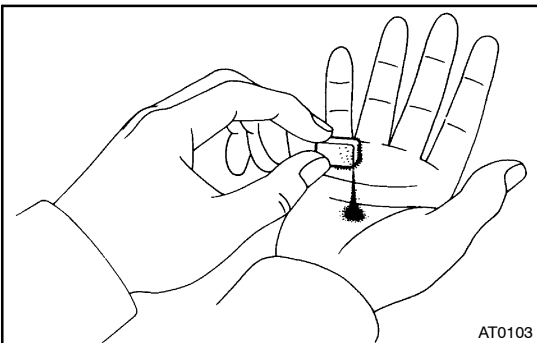
#### 2. REMOVE OIL PAN

Remove the 14 bolts, gasket and oil pan.

#### NOTICE:

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

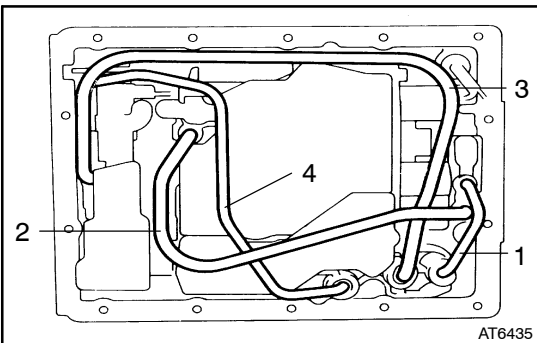
#### 3. REMOVE 2 MAGNETS FROM OIL PAN



#### 4. 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 plate wear
- Brass (non-magnetic): bushing wear



#### 5. TURN TRANSMISSION OVER AND REMOVE OIL TUBES

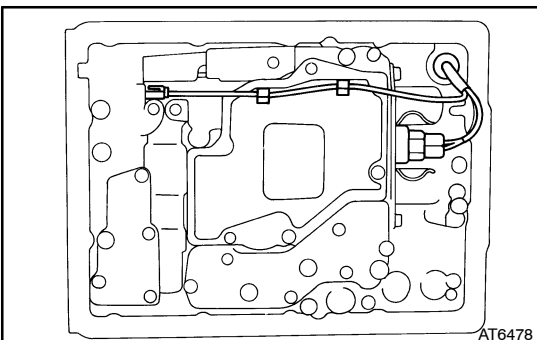
Pry up both oil tube ends with a large screwdriver and remove the 4 oil tubes.

#### HINT:

Remove the tubes in the order shown in the illustration.

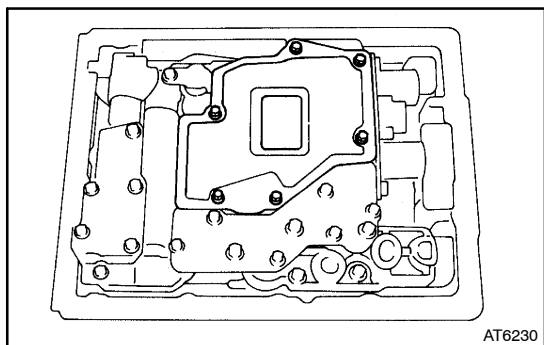
#### NOTICE:

Be careful not to bend or damage the oil tubes.



#### 6. REMOVE SOLENOID WIRING

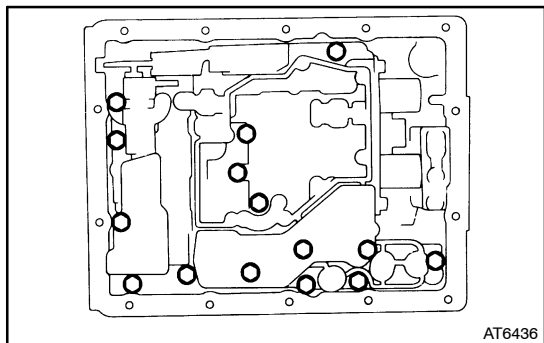
- Disconnect the connectors from the No. 1, No. 2 and No. 3 solenoids.
- Remove the bolt, lock plate and the grommet from the transmission case.
- Pull the wiring out of the transmission case.

**7. REMOVE OIL STRAINER**

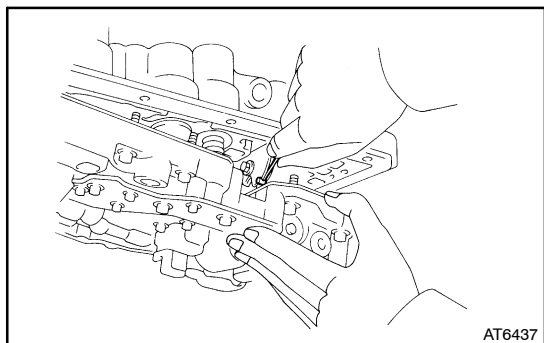
Remove the 6 bolts, gasket and the oil strainer.

**NOTICE:**

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

**8. REMOVE VALVE BODY**

- (a) Remove the 15 bolts.



- (b) Disconnect the throttle cable from the cam.

- (c) Remove the valve body.

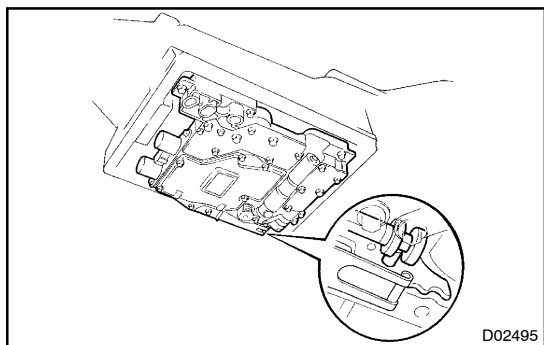
**NOTICE:**

**Be careful not to drop the check ball and spring.**

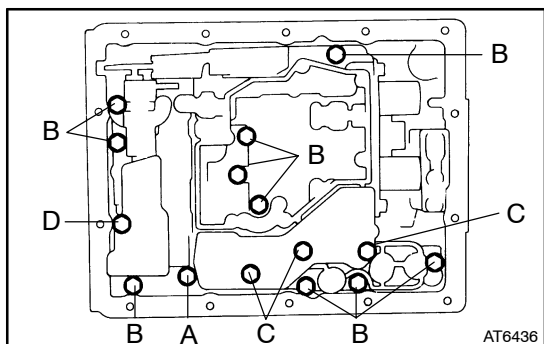
**9. INSTALL VALVE BODY**

- (a) Install the valve body.

- (b) Connect the throttle cable to the cam.



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



- (d) Install the 15 bolts.

**HINT:**

Each bolt length is indicated below.

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

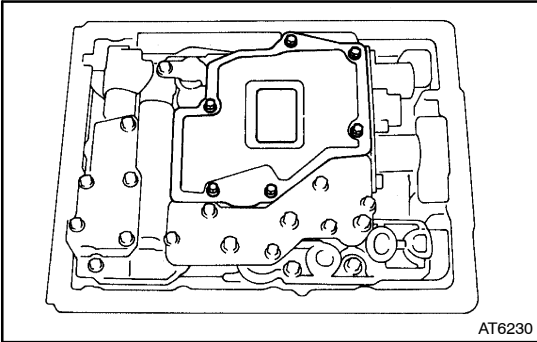
**Bolt length:**

**Bolt A: 25 mm (0.98 in.)**

**Bolt B: 30 mm (1.18 in.)**

**Bolt C: 47 mm (1.85 in.)**

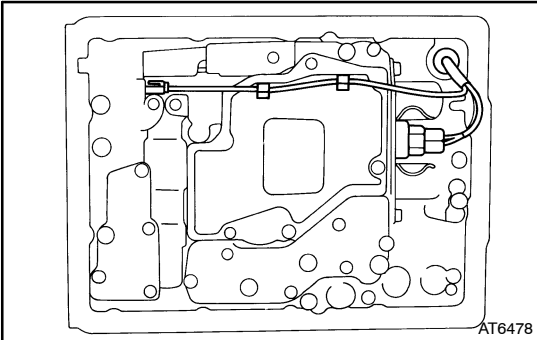
**Bolt D: 60 mm (2.36 in.)**



### 10. INSTALL OIL STRAINER

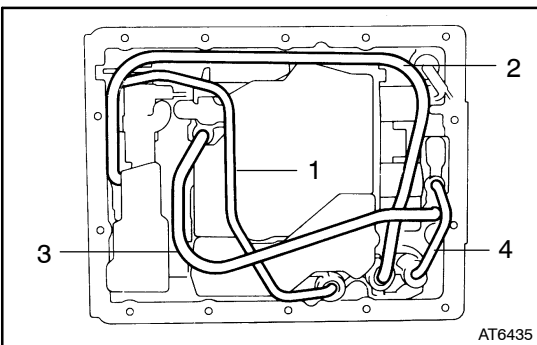
- Install a new gasket to the oil strainer.
- Install the oil strainer to the valve body.
- Install and tighten the 6 bolts.

**Torque: 5.4 N·m (55 kgf·cm, 48 in·lbf)**



### 11. INSTALL SOLENOID WIRING

Connect the connectors to the No. 1, No. 2 and No. 3 solenoids.

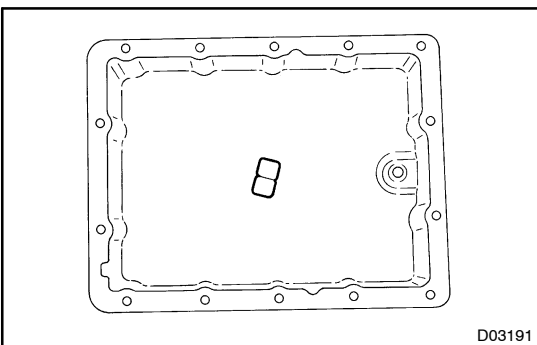


### 12. INSTALL OIL TUBES

Using a plastic hammer, install 4 tubes into position.

#### NOTICE:

- Be careful not to drop the check ball body and spring.
- Install the tubes in the order shown in the illustration.

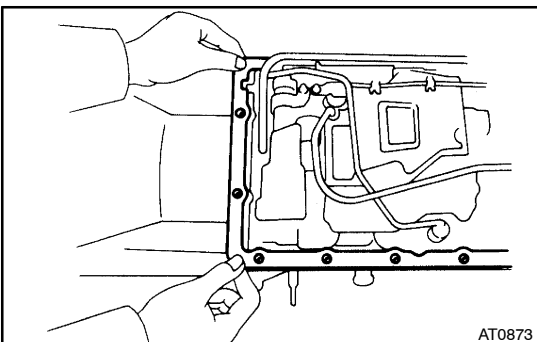


### 13. INSTALL OIL PAN

- Install the 2 magnets in the oil pan, as shown in the illustration.

#### NOTICE:

**Make sure that the magnets do not interfere with the oil tubes.**



- Install a new gasket to the transmission case.

#### HINT:

Align the cut part of the gasket and case.

- Install and tighten the 4 bolts.

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

### 14. INSTALL DRAIN PLUG

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

### 15. FILL ATF AND CHECK FLUID LEVEL

(See page DI-3)