

## VALVE BODY ASSEMBLY ON-VEHICLE REPAIR

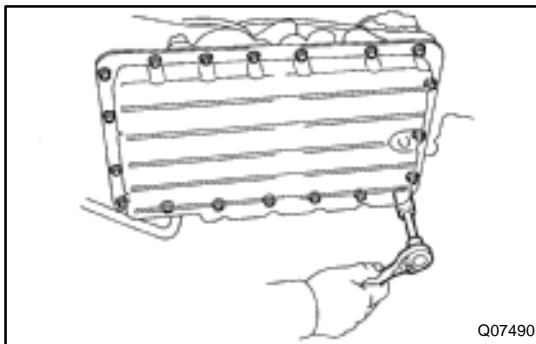
AT00U-02

### CAUTION:

When working with FIPG material, you must observe the followings.

- 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

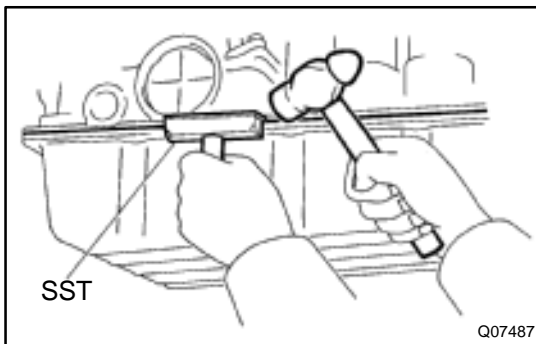


### 2. REMOVE OIL PAN

#### NOTICE:

Some fluid will remain in the oil pan.

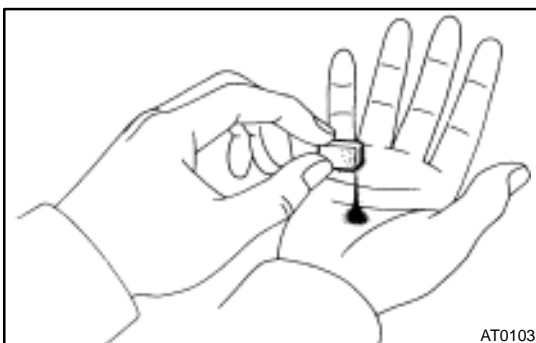
- (a) Remove the 19 bolts.



- (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.

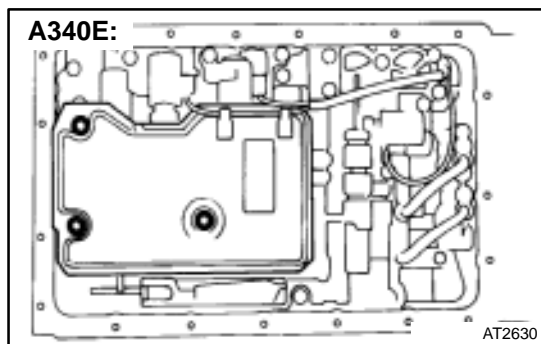


### 3. EXAMINE PARTICLES IN PAN

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

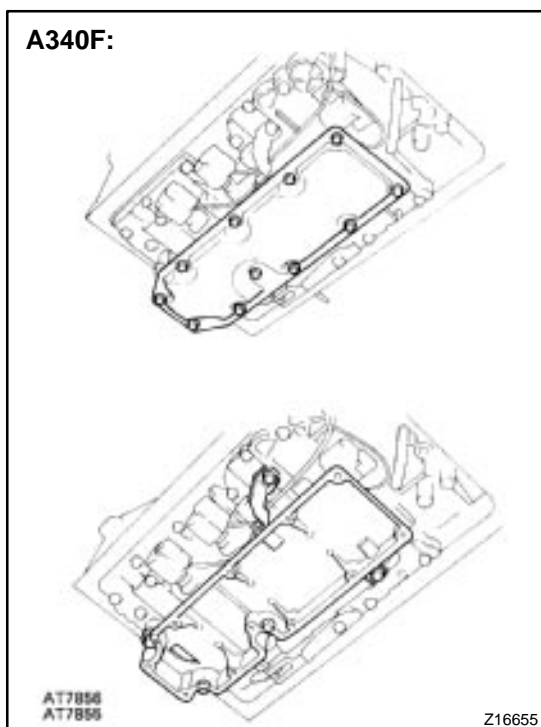


**4. A340E:  
REMOVE OIL STRAINER**

**NOTICE:**

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

- (a) Separate the solenoid wire.
- (b) Remove the 3 bolts, oil strainer and 2 gaskets.

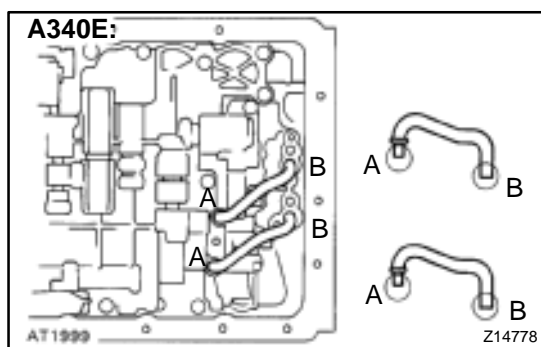


**5. A340F:  
REMOVE OIL STRAINER**

**NOTICE:**

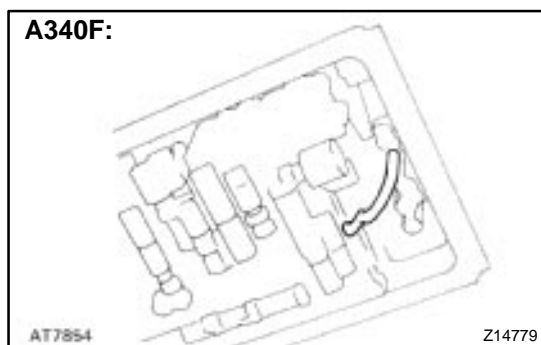
**Be careful as some fluid will come out of the oil strainer.**

- (a) Remove the 11 bolts, oil strainer from the oil strainer case.
- (b) Remove the 3 gaskets from the oil strainer.
- (c) Remove the 5 bolts and oil strainer case.



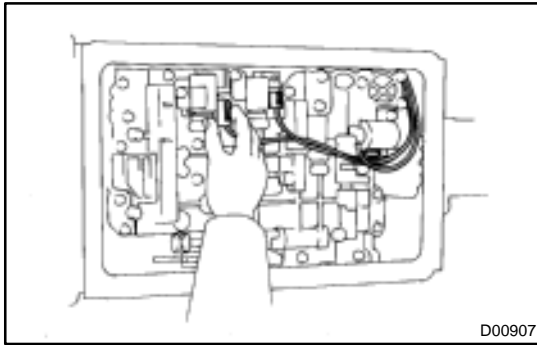
**6. A340E:  
REMOVE OIL PIPE**

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

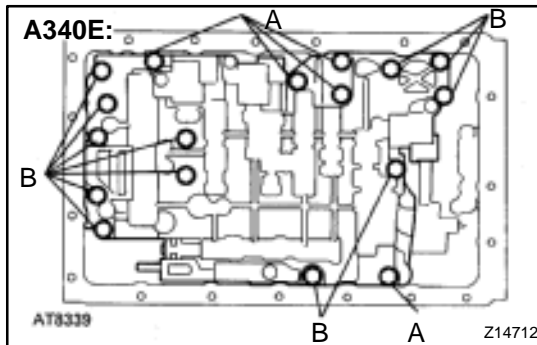


**7. A340F:  
REMOVE OIL PIPE**

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



## 8. DISCONNECT 3 CONNECTORS FROM EACH SOLENOID VALVES



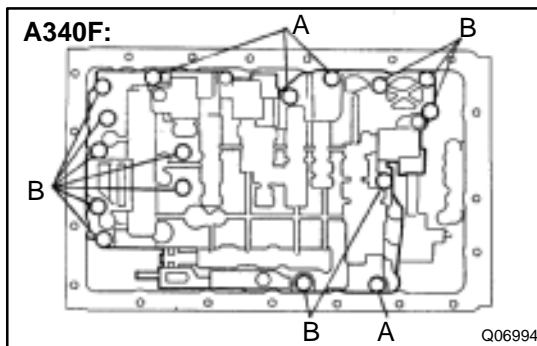
## 9. REMOVE VALVE BODY

- (a) A340E:  
Remove the 17 bolts.

**Bolt length:**

**Bolt A: 23 mm (0.91 in.)**

**Bolt B: 32 mm (1.26 in.)**

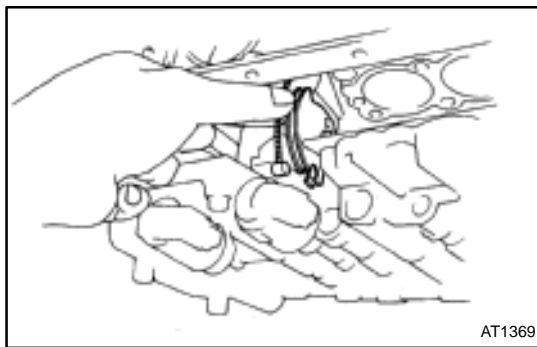


- (b) A340F:  
Remove the 16 bolts.

**Bolt length:**

**Bolt A: 23 mm (0.91 in.)**

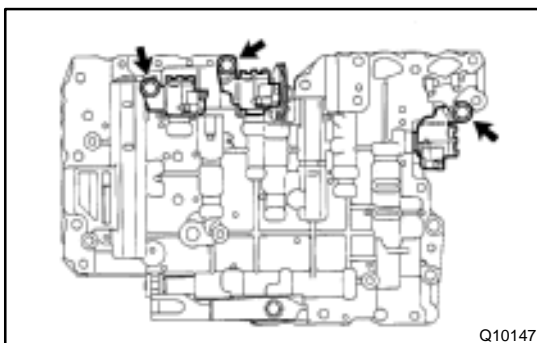
**Bolt B: 32 mm (1.26 in.)**



- (c) Disconnect the throttle cable from the cam.  
(d) Remove the valve body.

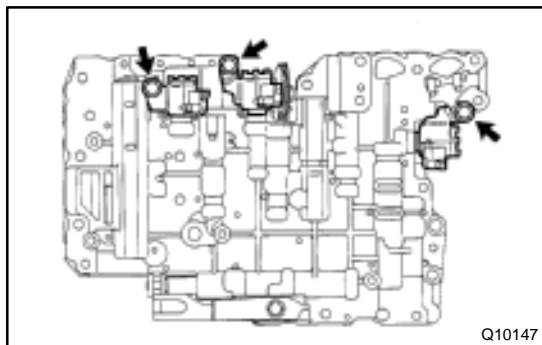
**NOTICE:**

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



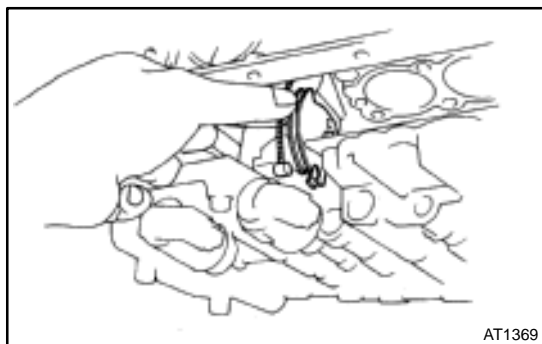
## 10. REMOVE SHIFT SOLENOID VALVE

- (a) Remove the solenoid valve mounting bolts.  
(b) Remove the 3 solenoid valves.  
(c) Remove the 3 O-rings from the solenoid valves.

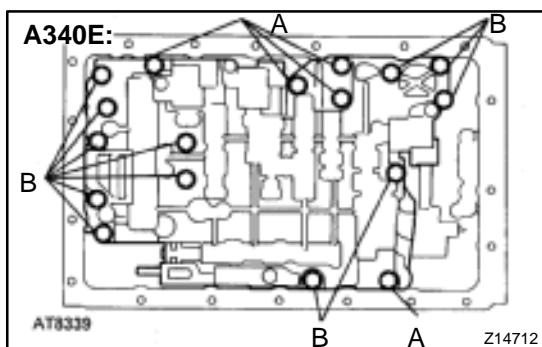
**11. INSTALL SHIFT SOLENOID VALVE**

- (a) Coat the 3 new O-rings with ATF.
- (b) Install the 3 O-rings to the shift solenoid valves.
- (c) Install the 3 shift solenoid valves with the 3 bolts.

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

**12. INSTALL VALVE BODY**

- (a) Align the groove of the manual valve to the pin of the lever.
- (b) Connect the throttle cable to the cam.



- (c) A340E:

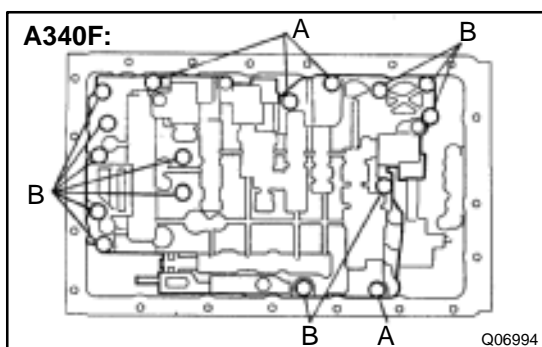
Install the 17 bolts.

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

**Bolt length:**

**Bolt A: 23 mm (0.91 in.)**

**Bolt B: 32 mm (1.26 in.)**



- (d) A340F:

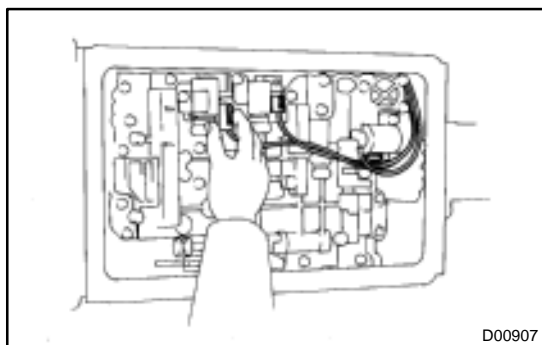
Install the 16 bolts.

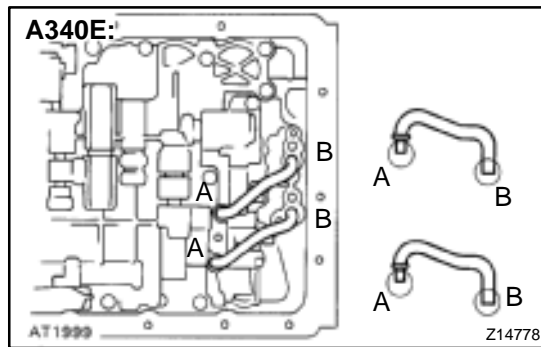
**Torque: 10 N·m (100 kgf-cm, 7 ft-lbf)**

**Bolt length:**

**Bolt A: 23 mm (0.91 in.)**

**Bolt B: 32 mm (1.26 in.)**

**13. CONNECT 3 CONNECTORS TO EACH SHIFT SOLENOID VALVE**

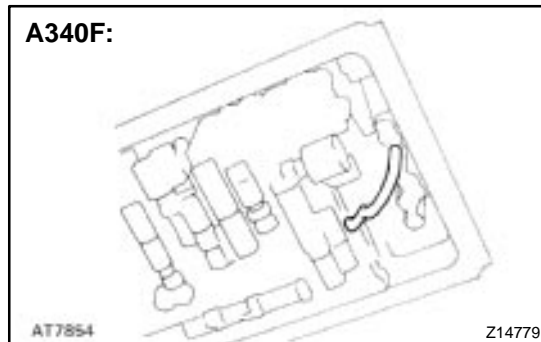


#### 14. A340E: INSTALL OIL PIPE

Using a plastic hammer, install the 2 pipes into position.

##### NOTICE:

- Be careful not to bend or damage the pipes.
- Make sure that the oil pipes or magnet do not interfere with the oil pan.

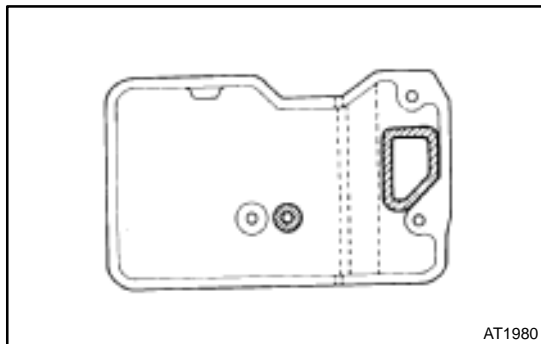


#### 15. A340F: INSTALL OIL PIPE

Using a plastic hammer, install the pipe into position.

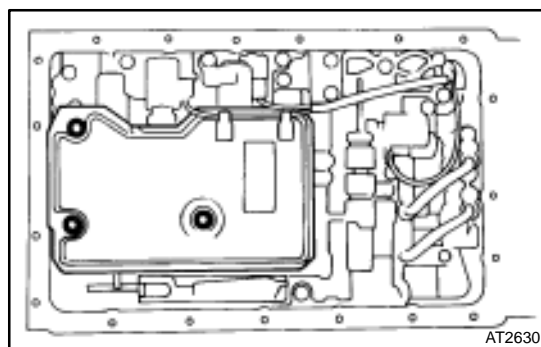
##### NOTICE:

- Be careful not to bend or damage the pipe.
- Make sure that the oil pipe or magnet do not interfere with the oil pan.

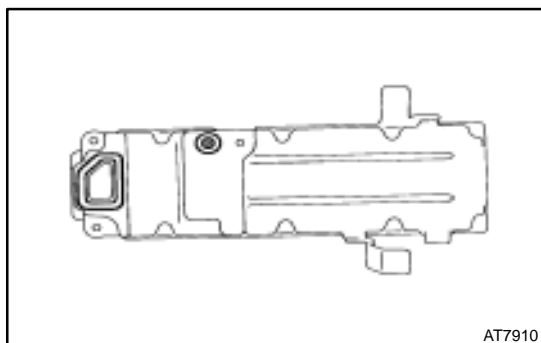


#### 16. A340E: INSTALL OIL STRAINER

- (a) Install 2 new gaskets.

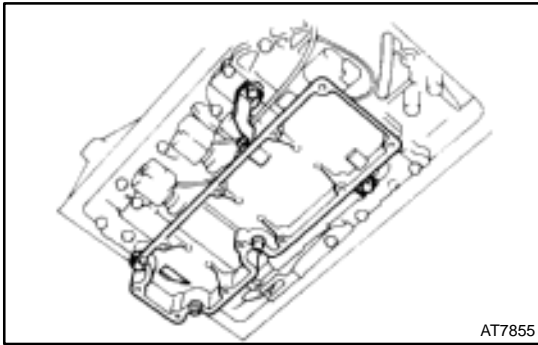


- (b) Install the oil strainer with the 3 bolts.  
**Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)**
- (c) Clamp solenoid wire.

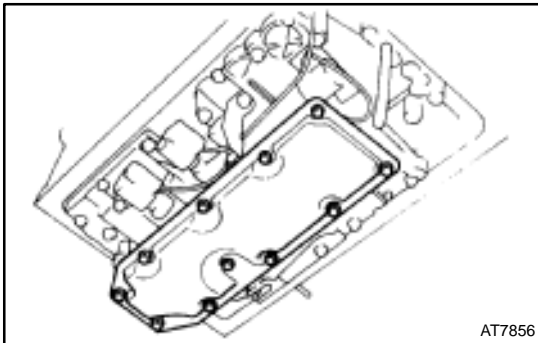


#### 17. A340F: INSTALL OIL STRAINER

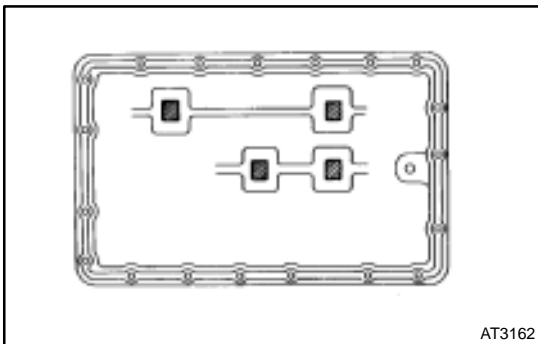
- (a) Install 2 new gaskets in the oil strainer case.



- (b) Install the oil strainer case with the 5 bolts.  
**Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)**

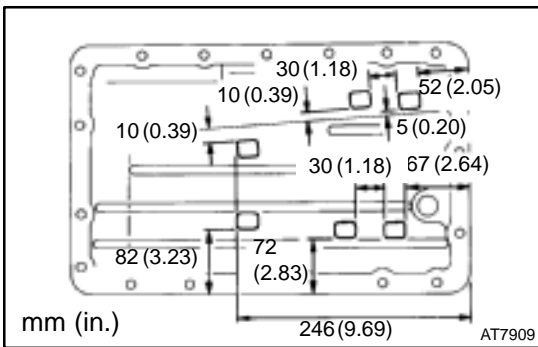


- (c) Install a new gasket to the oil strainer case.  
(d) Install the oil strainer with the 11 bolts.  
**Torque: 6.9 N·m (70 kgf·cm, 61 in·lbf)**

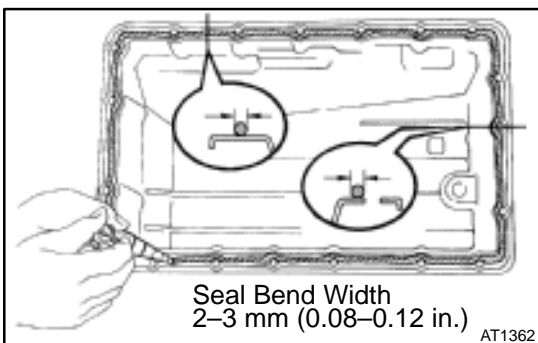


## 18. INSTALL OIL PAN

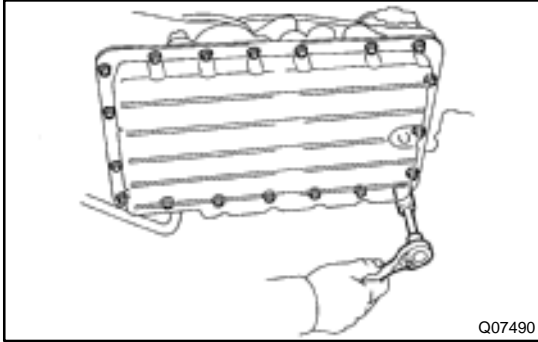
- (a) A340E:  
Install the 4 magnets in the indications of the oil pan.



- (b) A340F:  
Install the 6 magnets in the indications of the oil pan.



- (c) Remove any packing material and be careful not to drop oil on the contacting surfaces of the transmission case and oil pan.  
(d) Apply FIPG to the oil pan.  
**FIPG:**  
**Part No. 08826 – 00090, THREE BOND 1281 or equivalent**



- (e) Install the oil pan with the 19 bolts.  
**Torque: 7.4 N·m (75 kgf·cm, 65 in.-lbf)**
- 19. INSTALL DRAIN PLUG**  
**Torque: 20 N·m (205 kgf·cm, 15 ft-lbf)**
- 20. FILL AND CHECK ATF (See page [DI-342](#))**