

VALVE BODY ASSEMBLY ON-VEHICLE REPAIR

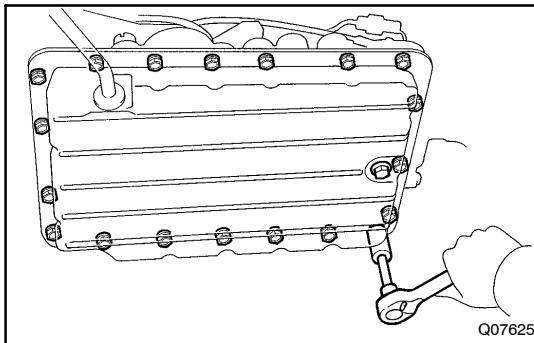
AT01R-01

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

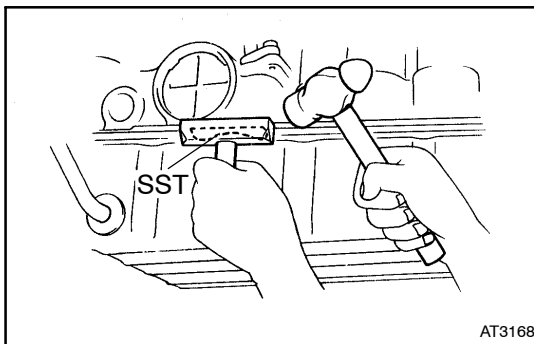


2. REMOVE OIL PAN

NOTICE:

Some fluid will remain in the oil pan.

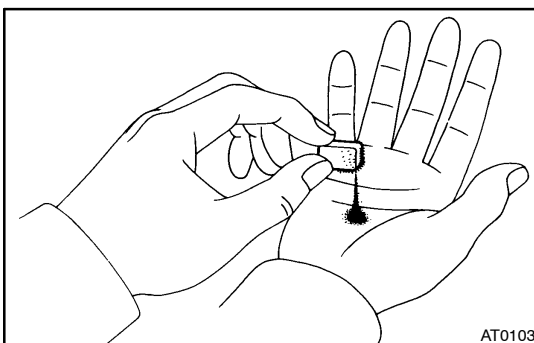
- (a) Remove the 19 bolts.



- (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:

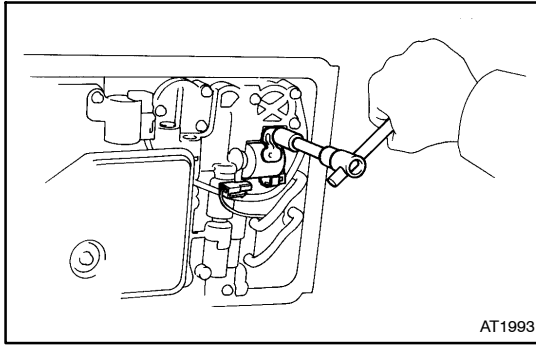
When removing the oil pan, be careful not to damage the oil pan flange.



3. EXAMINE PARTICLES IN PAN

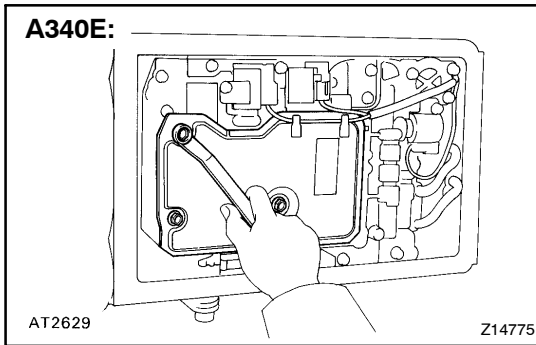
Remove the magnets and use them to collect steel particles. Carefully look at the foreign matter and particles in the pan and on the magnets to anticipate the type of wear you will find in the transmission.

Steel (magnetic) ... bearing, gear and clutch plate wear
Brass (non-magnetic) ... bushing wear



4. REMOVE SHIFT SOLENOID VALVE

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

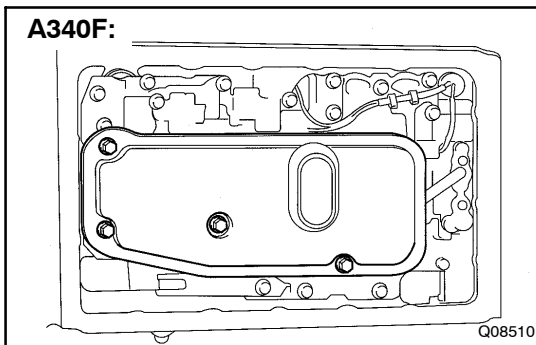


**5. A340E:
REMOVE OIL STRAINER**

NOTICE:

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

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

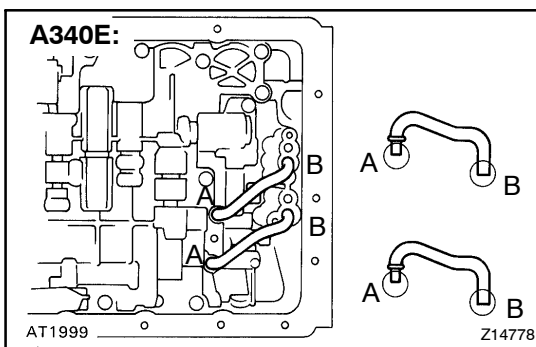


**6. A340F:
REMOVE OIL STRAINER**

NOTICE:

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

Remove the 4 bolts, oil strainer and gaskets.



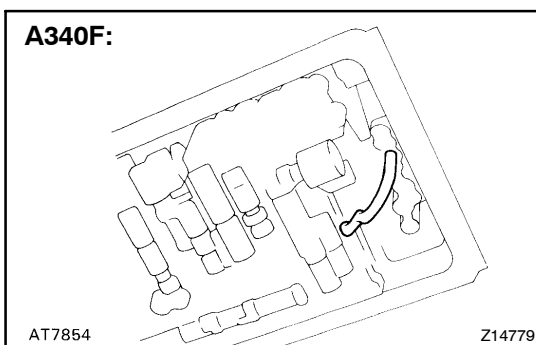
7. REMOVE OIL PIPE

- (a) A340E:

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

NOTICE:

Make sure that the oil pipes or the magnet do not interfere with the oil pan.

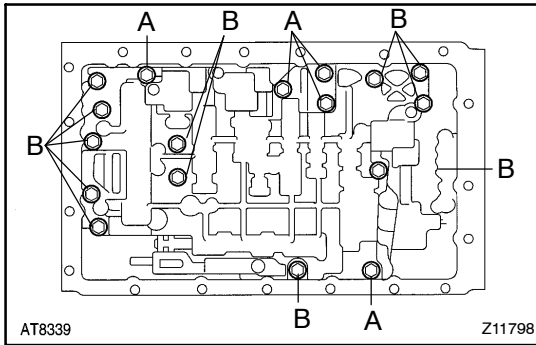


- (b) A340F:

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

NOTICE:

Make sure that the oil pipe or the magnet do not interfere with the oil pan.



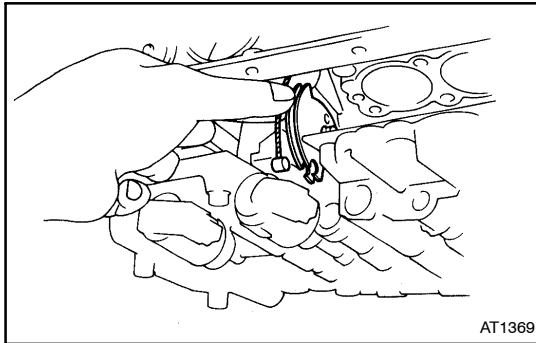
8. REMOVE VALVE BODY

- (a) Remove the 17 bolts.

Bolt length:

Bolt A: 23 mm (0.91 in.)

Bolt B: 32 mm (1.26 in.)



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

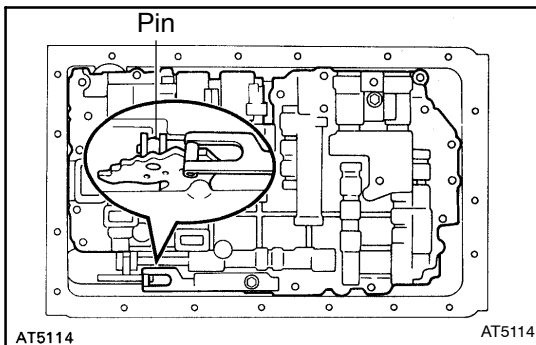
- (c) Remove the valve body.

NOTICE:

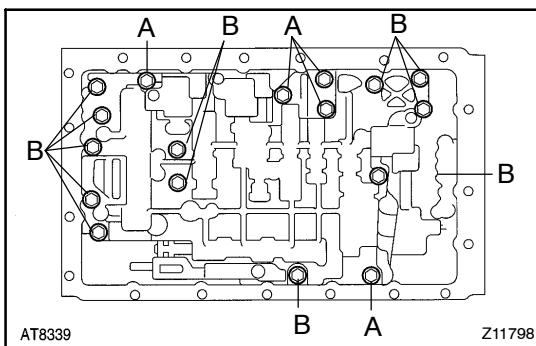
Be careful not to drop the check ball body and spring.

9. INSTALL VALVE BODY

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



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



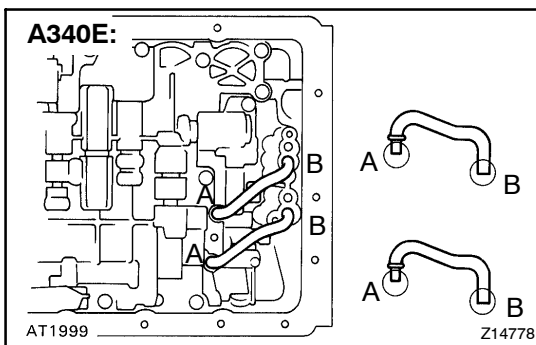
- (c) Install the 17 bolts.

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.)



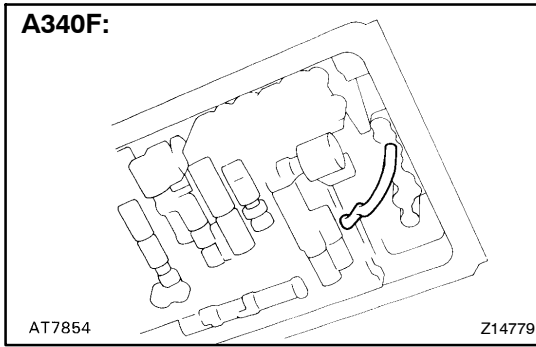
10. INSTALL OIL PIPE

- (a) A340E:

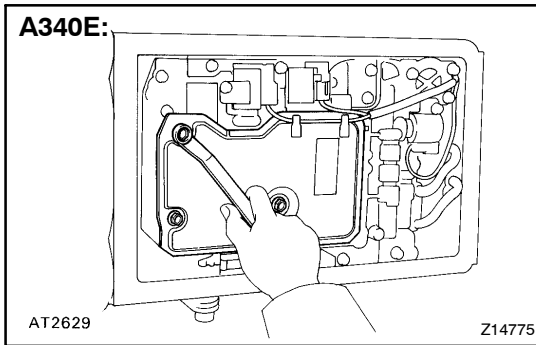
Using a plastic hammer, install the 2 pipes into position.

NOTICE:

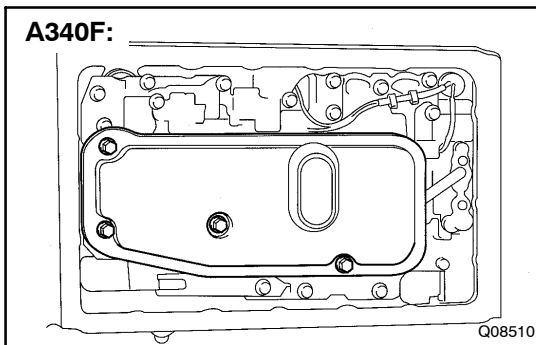
Make sure that the oil pipes or the magnet do not interfere with the oil pan.



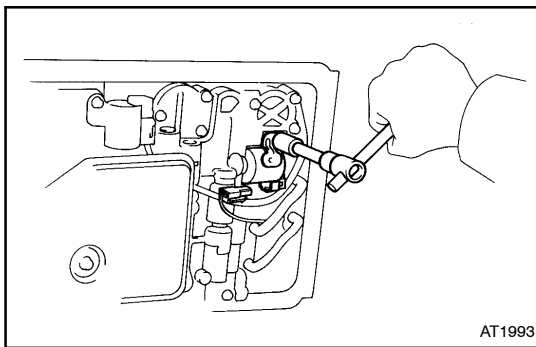
- (b) A340F:
Using a plastic hammer, install the pipe into position.
- NOTICE:**
Make sure that the oil pipe or the magnet do not interfere with the oil pan.



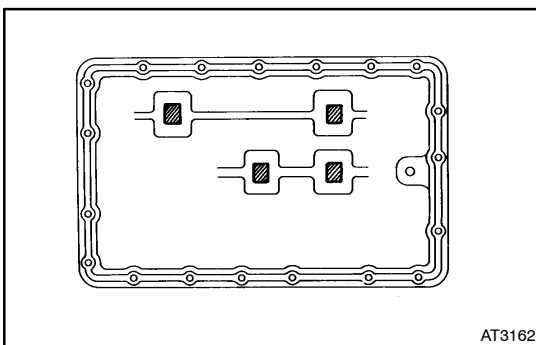
- 11. A340E:
INSTALL OIL STRAINER**
- (a) Install 2 new gaskets.
 - (b) Install the oil strainer with the 3 bolts.
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)
 - (c) Clamp the solenoid wire.



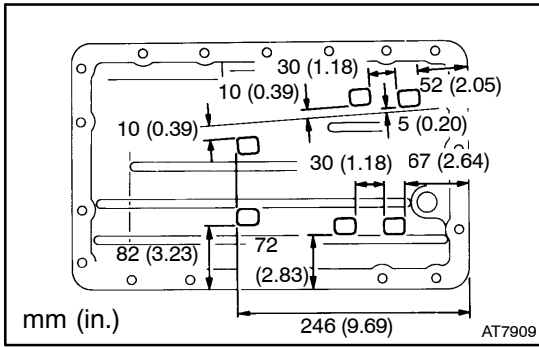
- 12. A340F:
INSTALL OIL STRAINER**
- NOTICE:**
- (a) Install a new gasket.
 - (b) Install the oil strainer with the 4 bolts.
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)



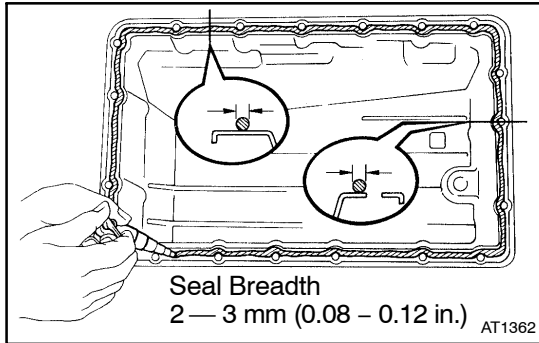
- 13. INSTALL SHIFT SOLENOID VALVE**
- (a) Coat 3 new O-rings with ATF.
 - (b) Install the 3 O-rings to the shift solenoid valves.
 - (c) Install the 3 shift solenoid valves with the 3 bolts.
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)



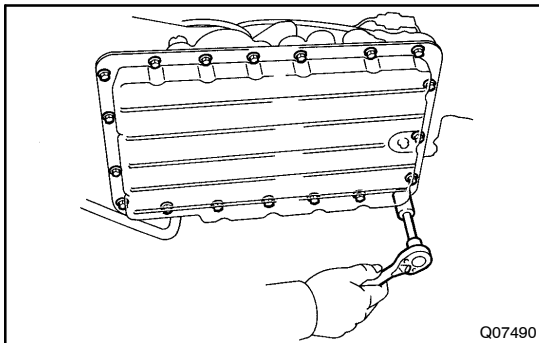
- 14. REMOVE OIL PAN**
- (a) A340E:
Install the 4 magnets in the indications of the oil pan.



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



- (c) Remove any FIPG 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)
- 15. **INSTALL DRAIN PLUG**
Torque: 20 N·m (205 kgf·cm, 15 ft·lbf)
- 16. **FILL AND CHECK ATF (See page DI-269)**