

## ATF TEMPERATURE SENSOR (2UZ-FE, 1HD-FTE) ON-VEHICLE REPAIR

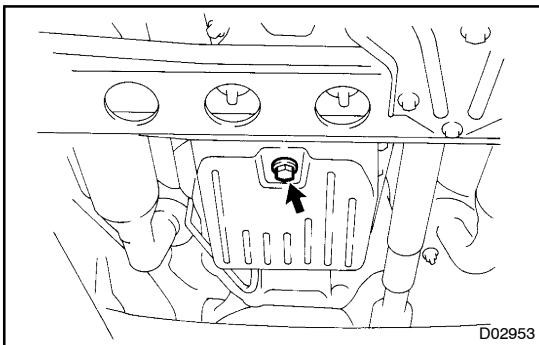
AT09G-01

**CAUTION:**

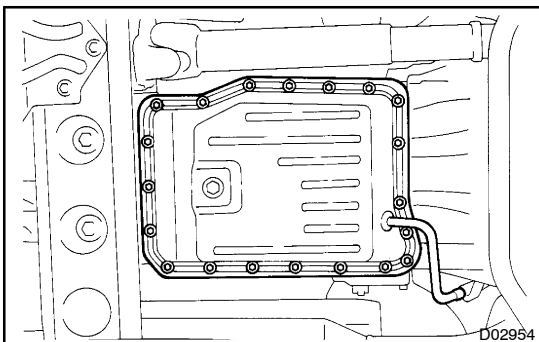
When working with FIPG material, you must observe the followings.

- Using a razor blade and a gasket scraper, remove all oil 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. Other side, the FIPG material must be removed and reapplied.

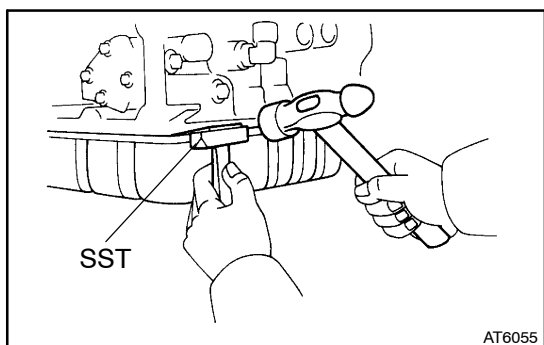
1. REMOVE NO.2 ENGINE UNDER COVER
2. 1HD-FTE Only:  
REMOVE TRANSMISSION UNDER COVER



3. REMOVE DRAIN PLUG WITH GASKET AND DRAIN ATF



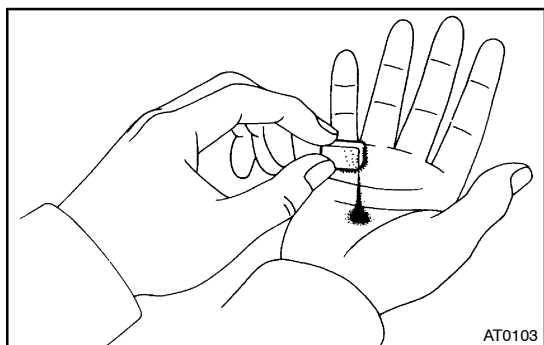
4. REMOVE OIL PAN
  - (a) Remove the 20 bolts.



- (b) Insert the blade of SST between the transmission and oil pan, cut off applied sealer, and remove the oil pan.  
SST 09032-00100

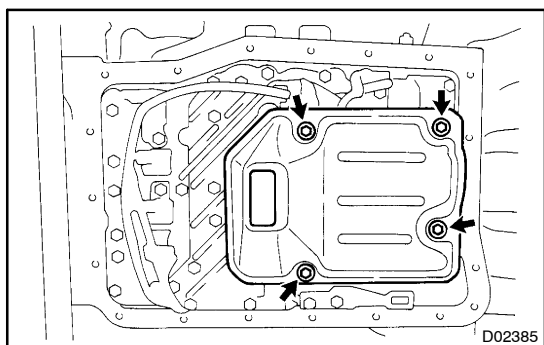
**NOTICE:**

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

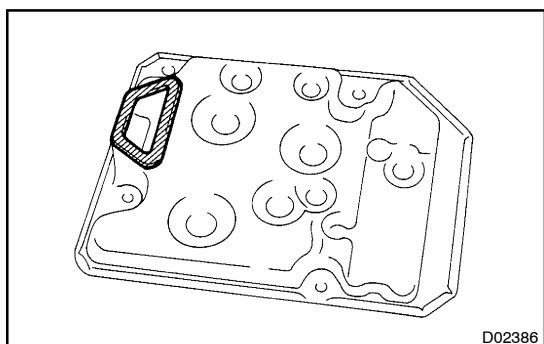
**5. EXAMINE PARTICLES IN PAN**

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.

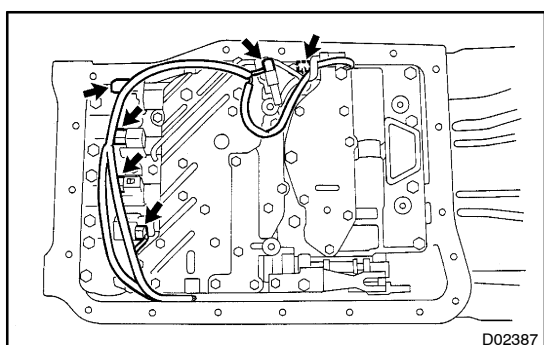
Steel (magnetic) ... bearing, gear and clutch plate wear  
Brass (non-magnetic) ... bushing wear

**6. REMOVE OIL STRAINER**

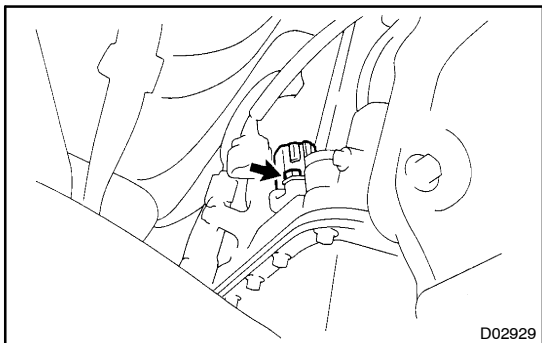
- (a) Remove the 4 bolts and oil strainer.



- (b) Remove the gasket.

**7. REMOVE ATF TEMPERATURE SENSOR**

- (a) Disconnect the 5 solenoid valve connectors.  
(b) Remove the bolt and disconnect the ATF temperature sensor.



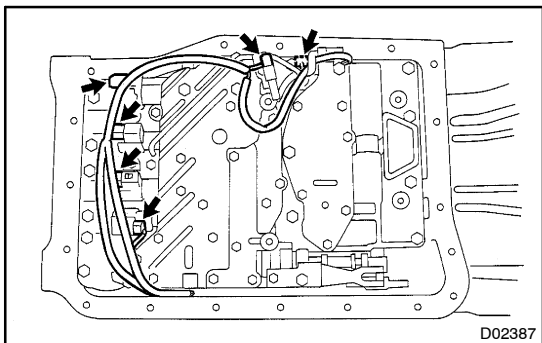
- (c) Disconnect the solenoid connector.
- (d) Remove the bolt and solenoid wire harness.

### 8. INSTALL ATF TEMPERATURE SENSOR

- (a) Install the solenoid wire harness.
- (b) Install the bolt.

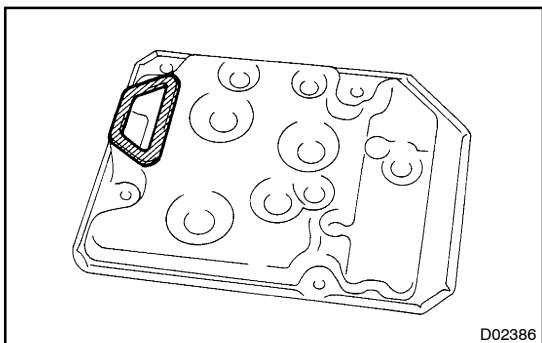
**Torque: 7.8 N·m (80 kgf·cm, 69 in.·lbf)**

- (c) Connect the solenoid connector.



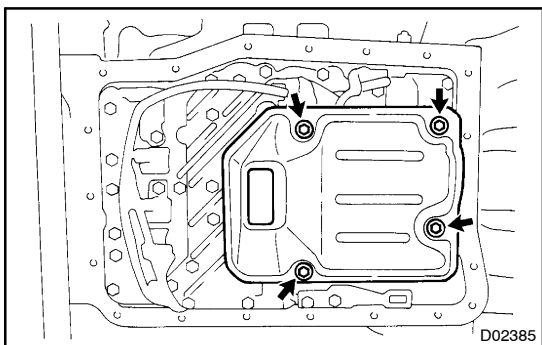
- (d) Connect the 5 solenoid valve connectors.
- (e) Connect the ATF temperature sensor with the bolt.

**Torque: 4.9 N·m (50 kgf·cm, 43 in.·lbf)**

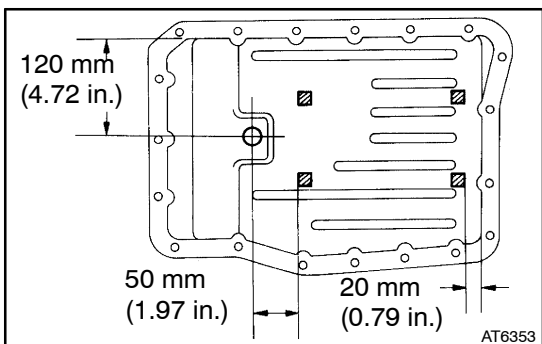


### 9. INSTALL OIL STRAINER

- (a) Install a new gasket.

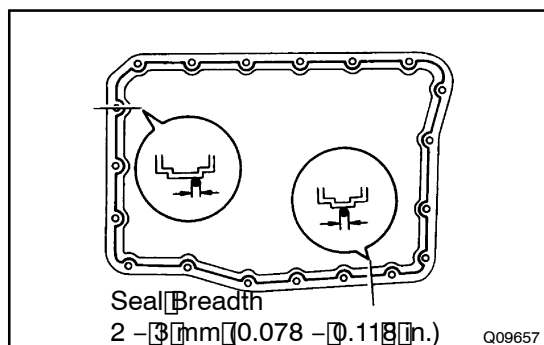


- (b) Install the oil strainer with the 4 bolts.
- Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)**



### 10. INSTALL MAGNET IN OIL PAN

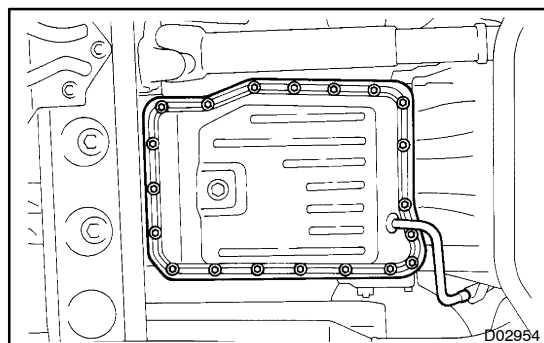
Install the 4 magnets in the oil pan, as shown in the illustration.

**11. INSTALL OIL PAN**

(a) Remove any packing material and be careful not to drop oil on the contacting surfaces of the transmission case and oil pan.

(b) Apply FIPG to the oil pan.

**FIPG: Part No. 08826-00090, THREE BOND 1281 or equivalent**



(c) Install the 20 bolts.

**Torque: 6.9 N·m (70 kgf·cm, 61 in·lbf)**

**12. INSTALL DRAIN PLUG**

Install a new gasket and drain plug.

**Torque: 27 N·m (280 kgf·cm, 20 ft·lbf)**

**13. INSTALL NO. 2 ENGINE UNDER COVER****14. FILL ATF AND CHECK ATF LEVEL**

**(See page DI-80)**

**15. 1HD-FTE Only:**

**INSTALL TRANSMISSION UNDER COVER**