

## REMOVAL

### 1. REMOVE LEVEL GAUGE

### 2. REMOVE FILLER PIPE

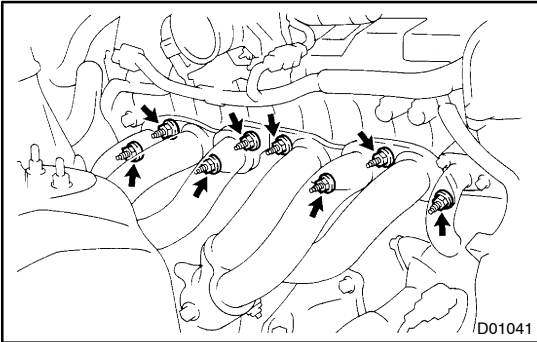
Remove the bolt and filler pipe with the O-ring.

HINT:

At the time of installation, please refer to the following item.

Replace the used O-ring with a new one.

### 3. REMOVE AIR CLEANER, MAF METER AND INTAKE AIR CONNECTOR PIPE ASSEMBLY



### 4. REMOVE EXHAUST MANIFOLD WITH TWC

Remove the 8 nuts, 2 gaskets and exhaust manifold with the TWC.

**Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)**

HINT:

At the time of installation, please refer to the following item.

Replace the used gaskets with new ones.

### 5. RAISE VEHICLE

NOTICE:

**Make sure that the vehicle is securely supported.**

### 6. REMOVE ENGINE UNDER COVER

### 7. REMOVE FRONT AND CENTER EXHAUST PIPE

(a) Disconnect the heated oxygen sensor.

**Torque: 44 N·m (450 kgf·cm, 33 ft·lbf)**

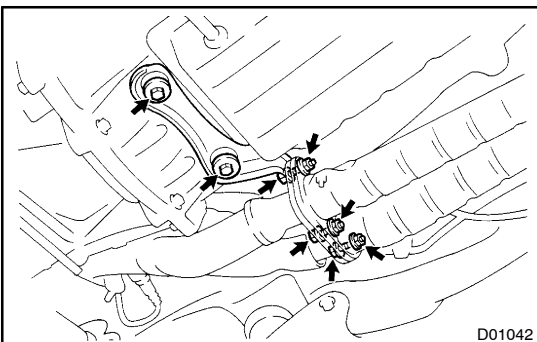
HINT:

At the time of installation, please refer to the following items.

- Before installing the heated oxygen sensor, twist the sensor wire counterclockwise 3 and 1/2 turns.
- After installing the heated oxygen sensor wire should not twist. If it is twisted, remove the heated oxygen sensor and reinstall it.

(b) Remove the 2 bolts and front floor center brace.

**Torque: 7.4 N·m (75 kgf·cm, 65 in·lbf)**



(c) Remove the 3 bolts, nuts and 2 gaskets.

**Torque: 44 N·m (450 kgf·cm, 33 ft·lbf)**

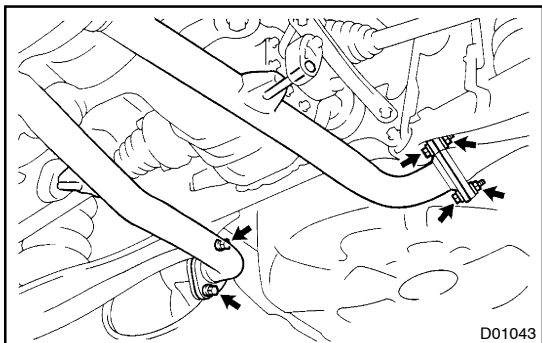
HINT:

At the time of installation, please refer to the following item.

Replace the used nuts and gaskets with new ones.

(d) Remove the 2 bolts and pipe support bracket.

**Torque: 44 N·m (450 kgf·cm, 33 ft·lbf)**



- (e) Remove the 4 bolts and 2 gaskets from the tail pipe.  
**Torque: 44 N·m (450 kgf·cm, 33 ft·lbf)**

**HINT:**

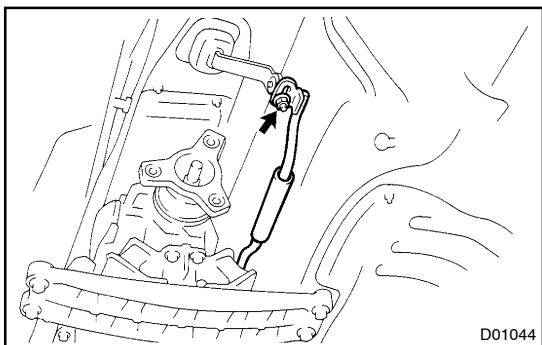
At the time of installation, please refer to the following item.  
 Replace the used gaskets with new ones.

- (f) Disconnect the front and center exhaust pipe from the O-ring and remove it.

**8. REMOVE 2 HEAT INSULATORS**

- (a) Remove the 6 bolts and heat insulator.  
**Torque: 5.4 N·m (55 kgf·cm, 48 in·lbf)**  
 (b) Remove the 4 bolts and heat insulator.  
**Torque: 5.4 N·m (55 kgf·cm, 48 in·lbf)**

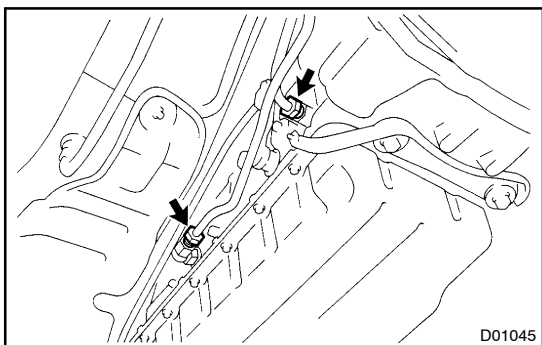
**9. REMOVE PROPELLER SHAFT**  
 (See page PR-4)



**10. DISCONNECT SHIFT CONTROL ROD**

Remove the nut and disconnect the rod.

**Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)**

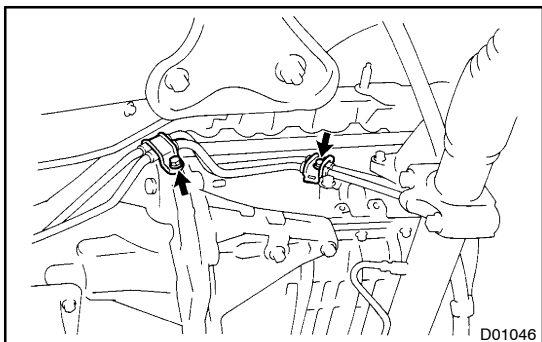


**11. DISCONNECT OIL COOLER PIPE**

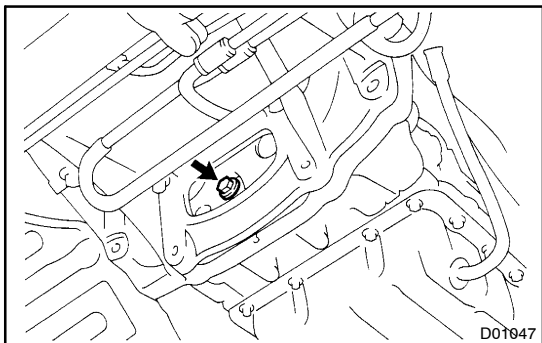
- (a) Loosen the 2 union nuts from the transmission.  
**Torque: 44 N·m (450 kgf·cm, 33 ft·lbf)**

**NOTICE:**

**Be careful not to damage the oil cooler pipe.**



- (b) Disconnect the 3 set bolts of the clamp.  
**Torque: 5.4 N·m (55 kgf·cm, 48 in·lbf)**  
 (c) Disconnect the 2 oil cooler pipes from the transmission.

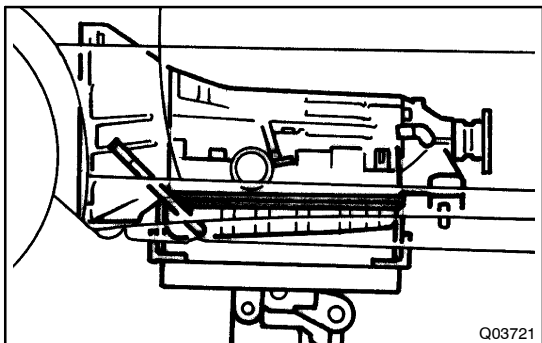
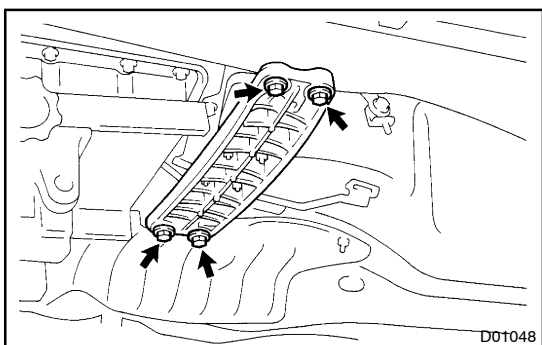
**12. REMOVE TORQUE CONVERTER MOUNTING BOLT**

- (a) Remove the hole plug.
- (b) Turn the crankshaft to gain access to each bolt.
- (c) Hold the crankshaft pulley nut with a wrench and remove the 6 bolts.

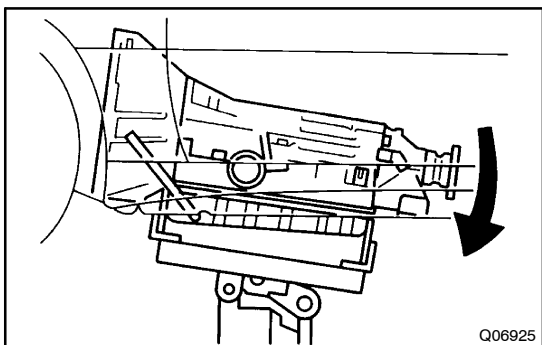
**Torque: 48 N·m (490 kgf·cm, 35 ft·lbf)**

**HINT:**

At the time of installation, please refer to the following item.  
First install black colored bolt and then the 5 other bolts.

**13. SUPPORT TRANSMISSION WITH JACK****14. REMOVE 4 ENGINE REAR MOUNTING SET BOLTS**

**Torque: 26 N·m (270 kgf·cm, 20 ft·lbf)**

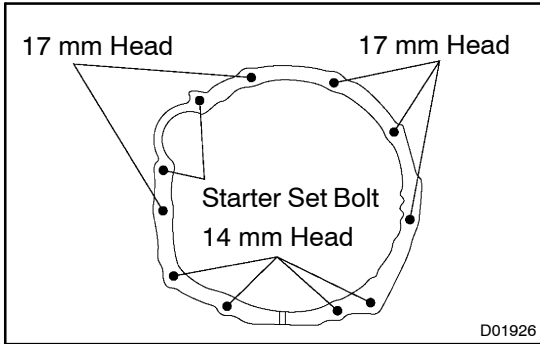
**15. DISCONNECT CONNECTORS AND WIRE HARNESS**

- (a) Tilt down the transmission.

**NOTICE:**

**Take care so that the cooling fan does not come in contact with the fan shroud.**

- (b) Disconnect the following connectors:
  - (1) O/D direct clutch speed sensor connector
  - (2) Speed sensor connector
  - (3) Neutral start switch connector
  - (4) Solenoid connector
- (c) Disconnect the wire harness from the clamp on the transmission.

**16. REMOVE STARTER**

- (a) Disconnect the connector and wire from the starter.
- (b) Remove the 2 bolts and starter.

**Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)**

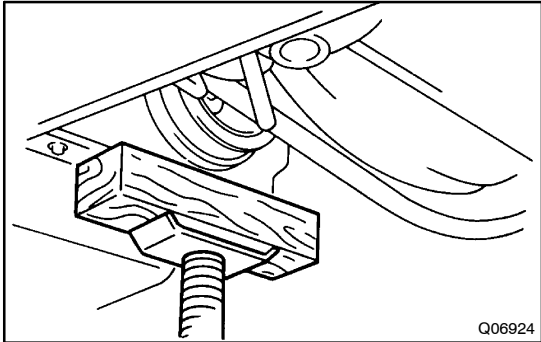
**17. REMOVE TRANSMISSION**

Remove the 9 bolts and transmission.

**Torque:**

**17 mm head: 72 N·m (730 kgf·cm, 53 ft·lbf)**

**14 mm head: 37 N·m (380 kgf·cm, 27 ft·lbf)**

**HINT:**

At the time of installation, please refer to the following item.

Lift the front side of the engine.