

REMOVAL

1. REMOVE LEVEL GAUGE

2. REMOVE FILLER PIPE

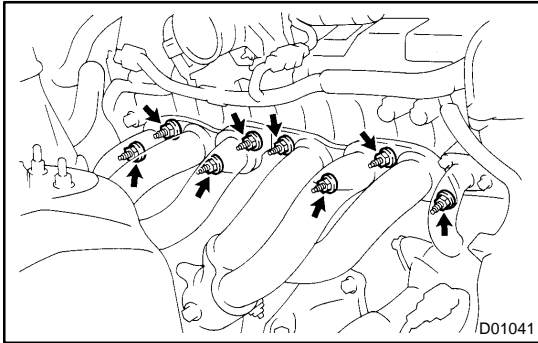
Remove the bolt and filler pipe with the O-ring.

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)

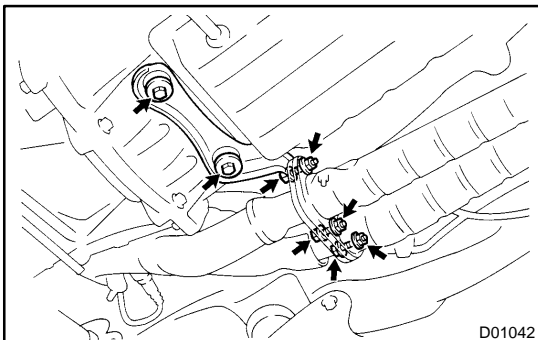
HINT:

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)

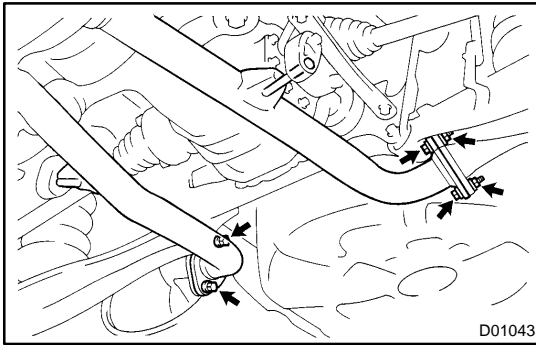
HINT:

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.

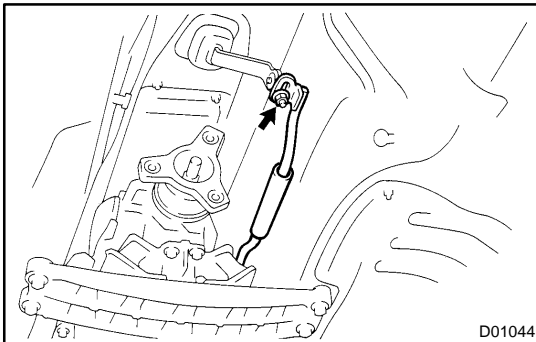
Torque: 5.4 N·m (55 kgf-cm, 48 in.-lbf)

- (b) Remove the 4 bolts and heat insulator.

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

9. REMOVE PROPELLER SHAFT

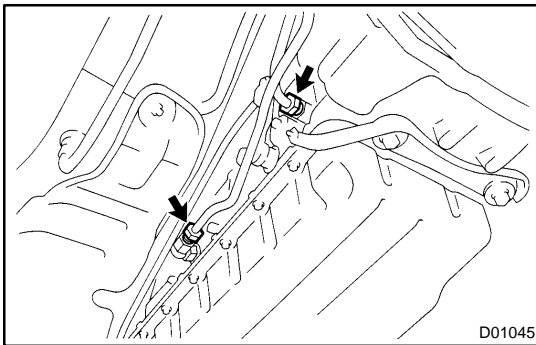
(See page [PR-4](#))



10. DISCONNECT SHIFT CONTROL ROD

Remove the nut and disconnect the rod.

Torque: 13 N·m (130 kgf-cm, 9 ft-lbf)



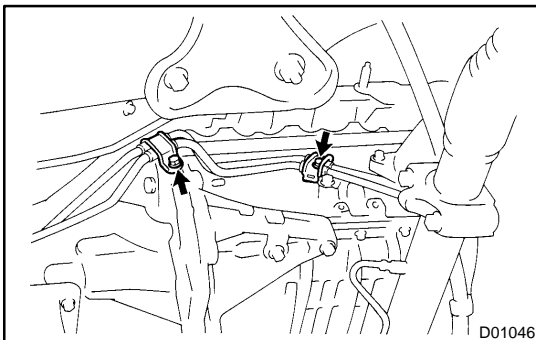
11. DISCONNECT OIL COOLER PIPE

- (a) Loosen the 2 union nuts from the transmission.

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

NOTICE:

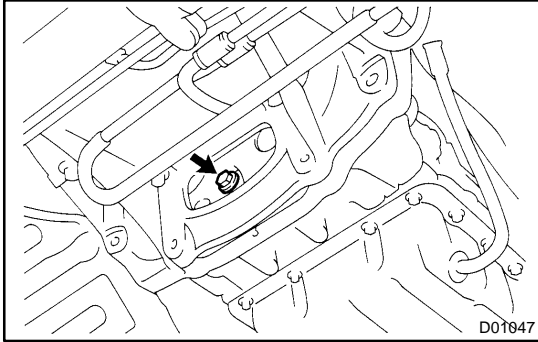
Be careful not to damage the oil cooler pipe.



- (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.



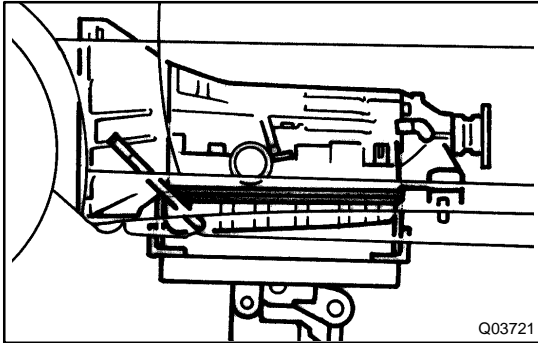
12. REMOVE TORQUE CONVERTER CLUTCH MOUNTING BOLT

- (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.

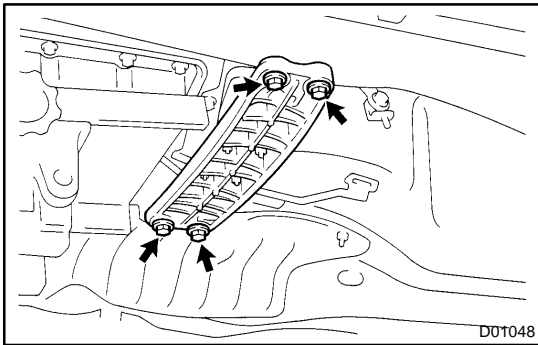
Torque: 48 N·m (490 kgf-cm, 35 ft-lbf)

HINT:

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

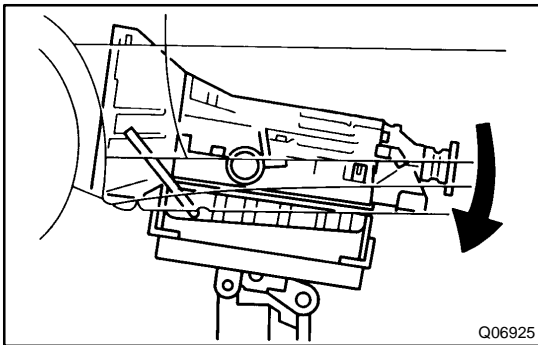


13. SUPPORT TRANSMISSION WITH JACK



14. REMOVE 4 ENGINE REAR MOUNTING SET BOLTS

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



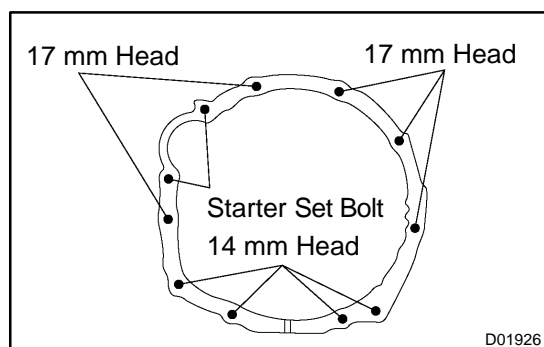
15. DISCONNECT CONNECTORS AND WIRE HARNESS

- (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) Vehicle speed sensor connector
 - (3) Park/neutral position 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)

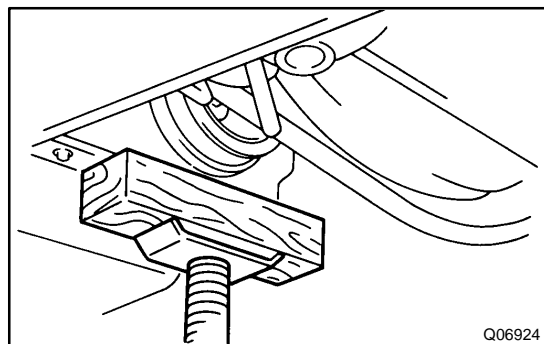
17. REMOVE TRANSMISSION

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.