

REMOVAL

1. REMOVE LEVEL GAUGE

2. RAISE VEHICLE

NOTICE:

Make sure that the vehicle is securely supported.

3. REMOVE ENGINE UNDER COVER

4. REMOVE FRONT AND CENTER EXHAUST PIPES

(a) Disconnect the 2 heated oxygen sensor.

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

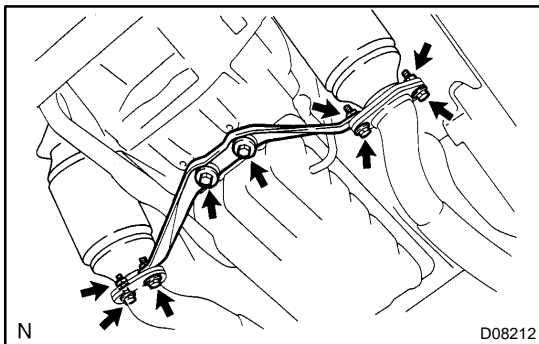
HINT:

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 4 bolts, nuts and 2 gaskets from the LH and RH front TWC.

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

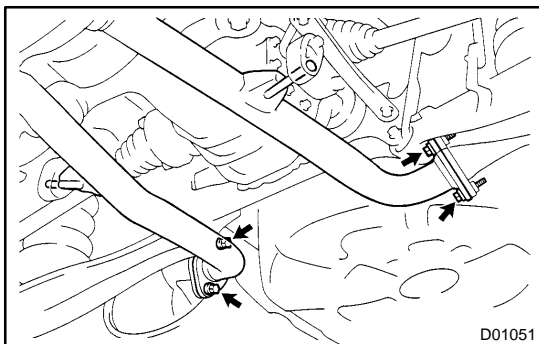
HINT:

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 support bracket.

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



(e) Remove the 4 bolts and 2 gaskets from the tail pipe.

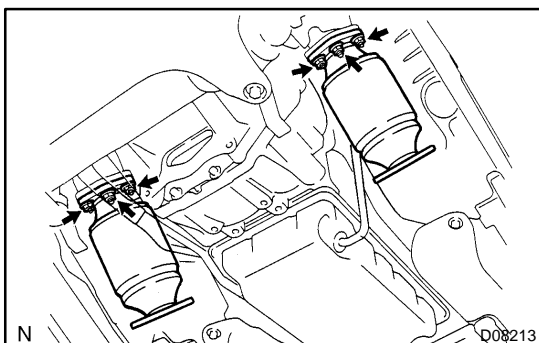
Torque: 44 N·m (450 kgf-cm, 33 ft-lbf)

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 pipes from the 2 rings and remove them.



5. REMOVE LH AND RH FRONT TWC

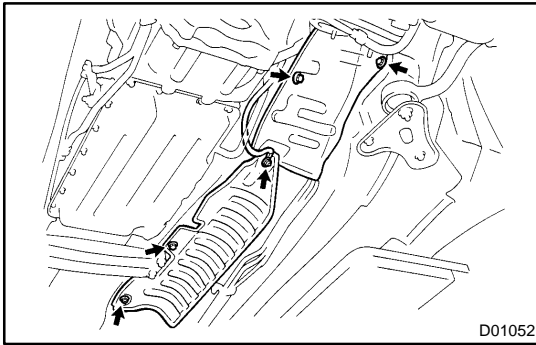
Remove the 6 nuts, 2 gaskets, LH and RH front TWC.

Torque: 62 N·m (630 kgf-cm, 46 ft-lbf)

HINT:

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

Replace the used nuts and gaskets with new ones.

**6. REMOVE HEAT INSULATOR**

Remove the 2 nuts, 3 bolts and 2 heat insulators.

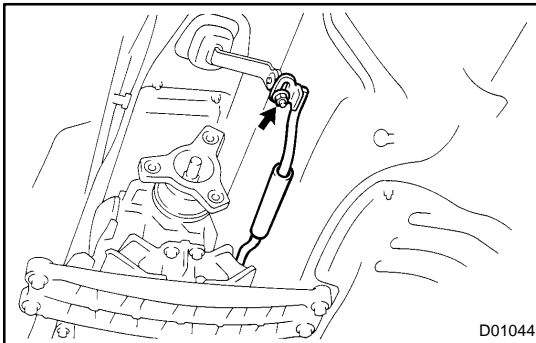
7. REMOVE BOLT AND FILLER PIPE

HINT:

At the time of installation, please refer to the following item.
Replace the used O-ring with a new one.

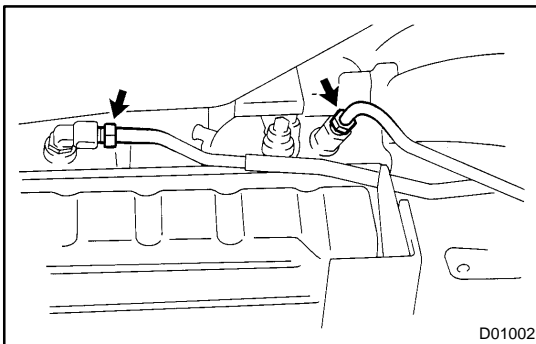
8. REMOVE PROPELLER SHAFT

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

**9. DISCONNECT SHIFT CONTROL ROD**

Remove the nut and disconnect the rod.

Torque: 13 N·m (130 kgf-cm, 9 ft-lbf)

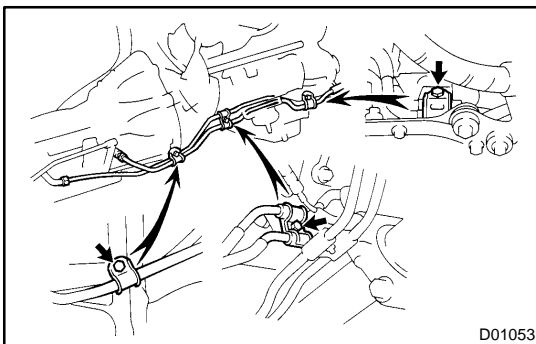
**10. DISCONNECT OIL COOLER PIPE**

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

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

NOTICE:

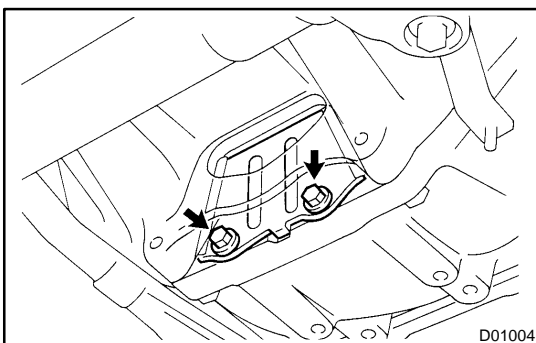
Be careful not to damage the oil cooler pipe.



(b) Disconnect the 3 set bolts of the clamp.

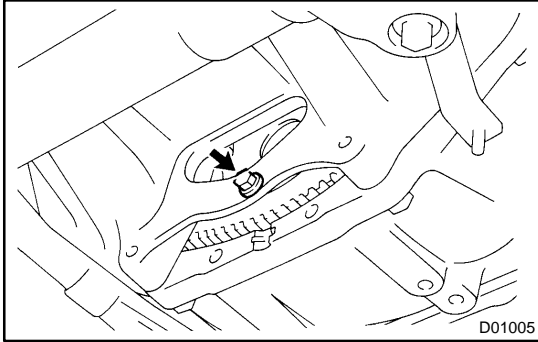
Torque: 5.4 N·m (55 kgf-cm, 48 in.-lbf)

(c) Disconnect the 2 oil cooler pipes from the transmission.

**11. REMOVE TORQUE CONVERTER CLUTCH MOUNTING BOLT**

(a) Remove the 2 bolts and flywheel housing under cover.

Torque: 18 N·m (185 kgf-cm, 13 ft-lbf)

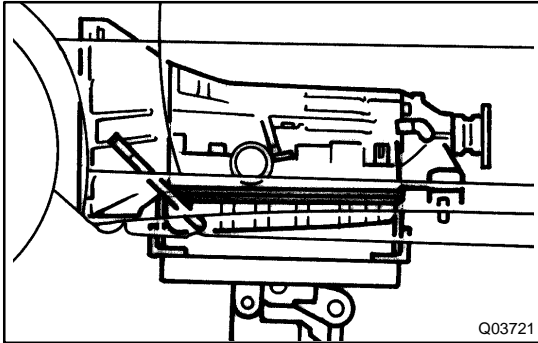


- (b) Turn the crankshaft to gain access to each bolt.
- (c) Hold the crankshaft pulley nut with a wrench and remove the 6 bolts.

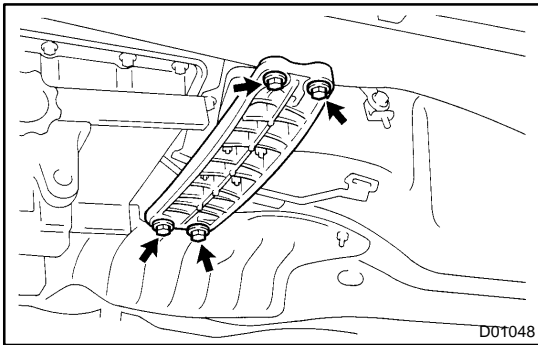
Torque: 48 N·m (490 kgf-cm, 35 ft-lbf)

HINT:

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

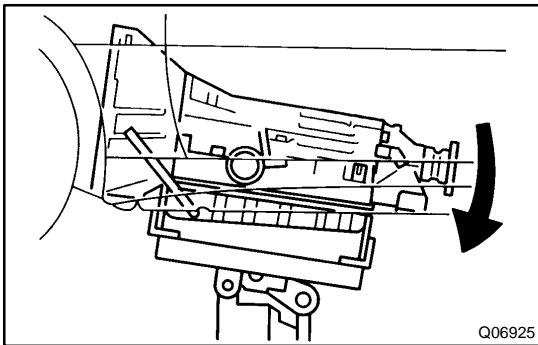


12. SUPPORT TRANSMISSION WITH JACK



13. REMOVE 4 ENGINE REAR MOUNTING SET BOLTS

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



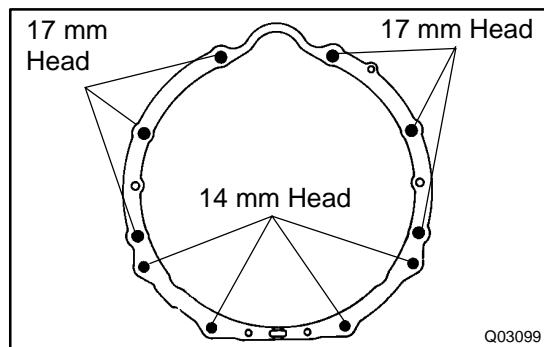
14. DISCONNECT CONNECTORS AND WIRE HARNESS

- (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.



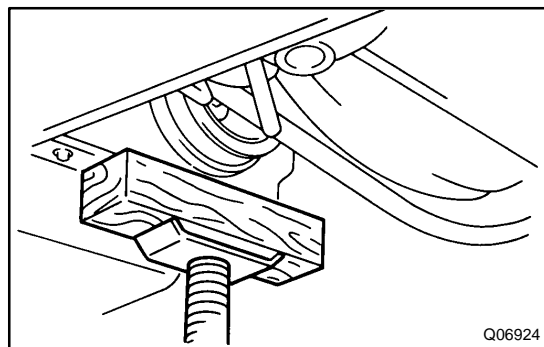
15. REMOVE TRANSMISSION

Remove the 10 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.