

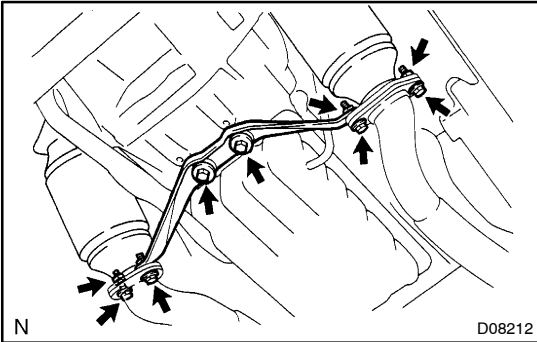
REMOVAL

1. REMOVE LEVEL GAUGE
2. RAISE VEHICLE

NOTICE:

Make sure that the vehicle is securely supported.

3. REMOVE ENGINE UNDER COVER
4. REMOVE FRONT SUSPENSION PROTECTOR



5. REMOVE EXHAUST PIPE

- (a) Disconnect the 2 heated oxygen sensors.

Torque: 44 N·m (450 kgf·cm, 32 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 is not twisted. If it is twisted, remove the heated oxygen sensor and reinstall it.

- (b) Remove the 4 bolts, nuts and 2 gaskets from the LH and RH front TWC (unleaded gasoline) or 2 sub-mufflers (leaded gasoline).

Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)

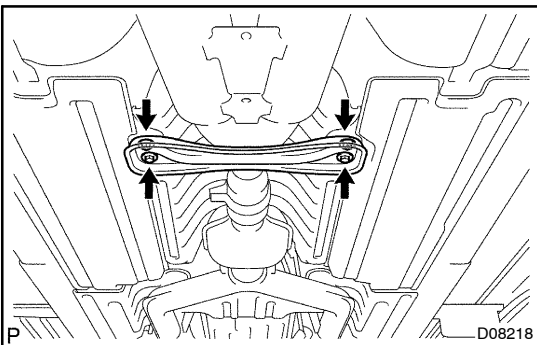
HINT:

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

Replace the used nuts and gaskets with new ones.

- (c) Remove the 2 bolts and support bracket.

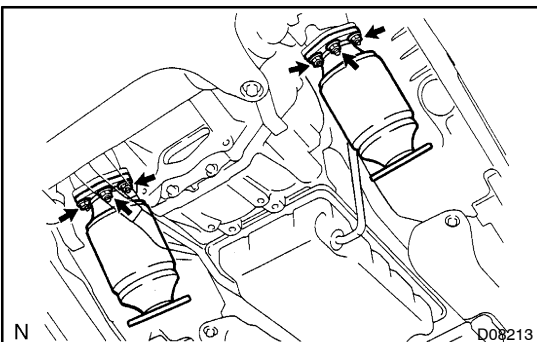
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)



- (d) Remove the 4 bolts and center floor crossmember brace.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

- (e) Remove the exhaust pipe.



6. REMOVE LH AND RH FRONT TWC (unleaded gasoline) OR SUB-MUFFLERS (leaded gasoline)

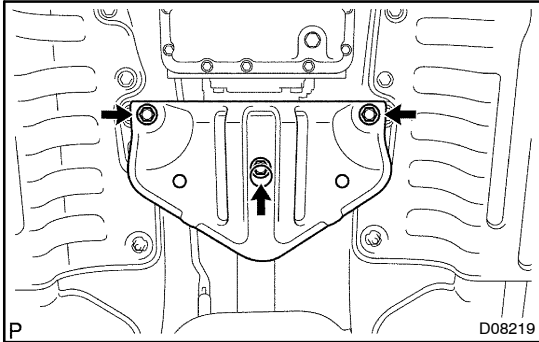
Remove the 6 nuts, 2 gaskets, LH and RH front TWC (unleaded gasoline) or 2 sub-mufflers (leaded gasoline).

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.



7. REMOVE ENGINE REAR MOUNTING MEMBER BRACKET PLATE

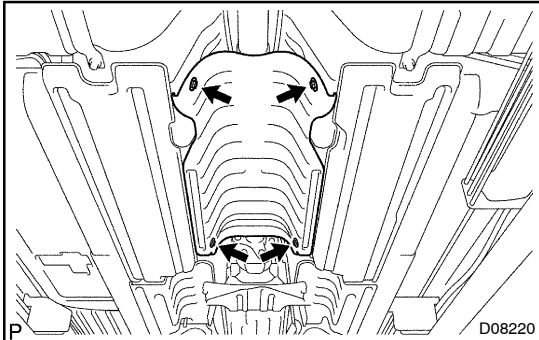
Remove the 3 bolts and bracket plate.

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

8. REMOVE 2 BOLTS AND FILLER PIPE

HINT:

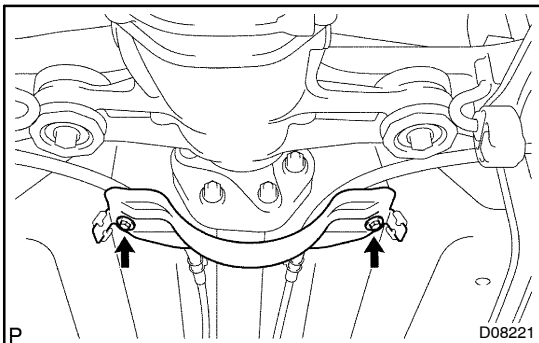
At the time of installation, please refer to the following item.
Replace the used O-ring with a new one.



9. REMOVE HEAT INSULATOR

Remove the 4 bolts and heat insulator.

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



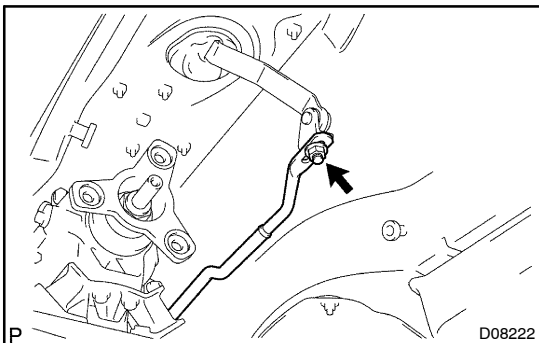
10. REMOVE PROPELLER SHAFT HEAT INSULATOR

Remove the 2 bolts and propeller shaft heat insulator.

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

11. REMOVE PROPELLER SHAFT

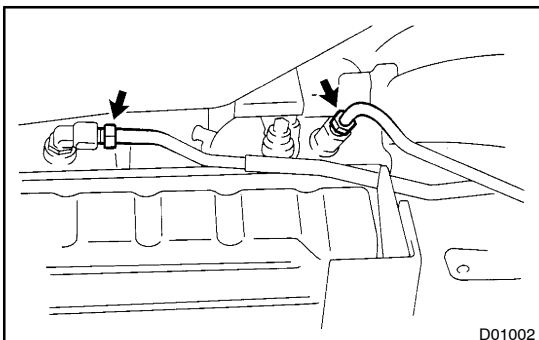
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12. REMOVE SHIFT CONTROL ROD

Remove the nut and disconnect the rod.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)



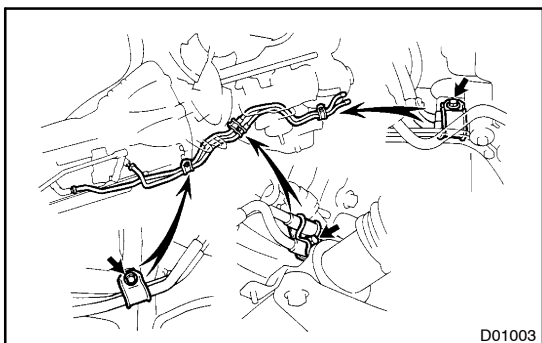
13. DISCONNECT OIL COOLER PIPE

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

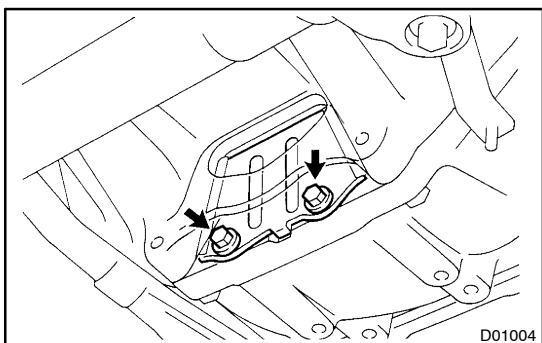
Torque: 44 N·m (450 kgf·cm, 32 ft·lbf)

NOTICE:

Be careful no to damage the oil cooler pipe.

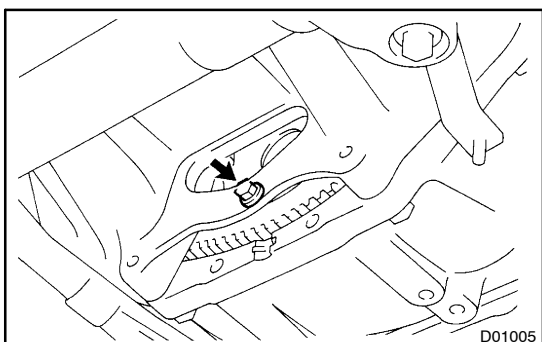


- (b) Disconnect the 3 set bolts of the clamp.
Torque: 4.9 N·m (50 kgf·cm, 43 in·lbf)
- (c) Disconnect the 2 oil cooler pipes from the transmission.



14. REMOVE TORQUE CONVERTER MOUNTING BOLT

- (a) Remove the 2 bolts and flywheel housing under cover.
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

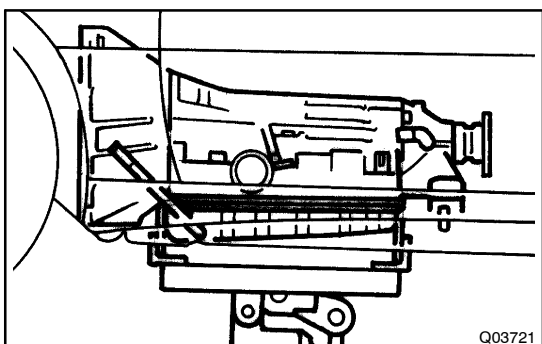


- (b) Turn the crankshaft to gain access to each bolt.
- (c) Hold the crankshaft pulley nut with a wrench and remove the 6 bolts.

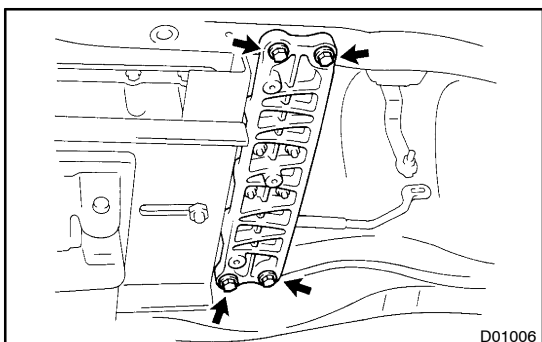
Torque: 48 N·m (490 kgf·cm, 35 ft·lbf)

HINT:

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

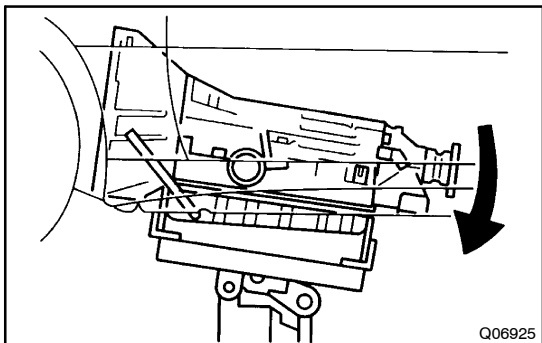


15. SUPPORT TRANSMISSION WITH JACK



16. REMOVE ENGINE REAR MOUNTING 4 SET BOLTS

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

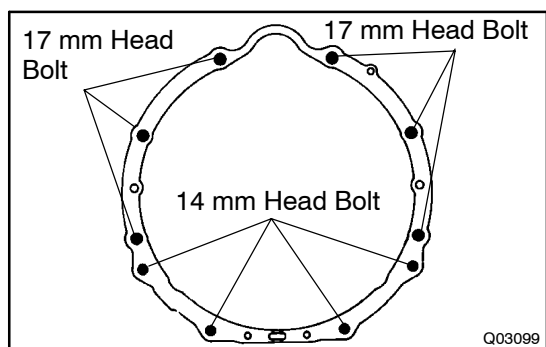
**17. DISCONNECT CONNECTORS AND WIRE HARNESS**

- (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) Neutral start switch connector
 - (4) Solenoid connector
- (c) Disconnect the wire harness from the clamp on transmission.

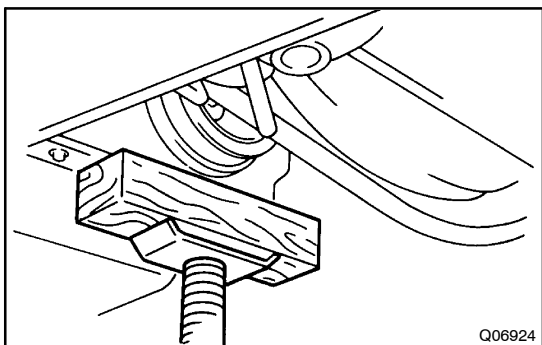
**18. REMOVE TRANSMISSION**

Remove the 10 bolts and transmission.

Torque:

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

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

**HINT:**

At the time of installation, please refer to the following item.
Lift the engine front side.