

REMOVAL

1. Separate Seat:

REMOVE TRANSMISSION SHIFT LEVER

- (a) Remove the front console panel and disconnect connectors. (See page BO-127)
- (b) Remove the 6 bolts, shift lever boot and retainer.
Torque: 6.5 N·m (66 kgf·cm, 58 in·lbf)
- (c) Cover the shift lever cap with a cloth.
- (d) Pressing down on the shift lever cap, rotate it counter-clockwise to remove.
- (e) Pull out the shift lever.

HINT:

At the time of installation, please refer to the following item.
Apply MP grease to the tip of the shift lever.

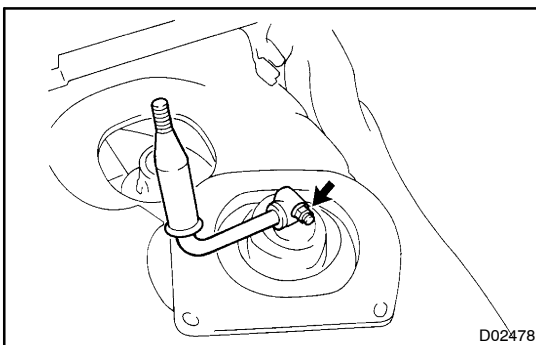
2. Bench Seat:

REMOVE TRANSMISSION SHIFT LEVER

- (a) Remove center lower cluster finish panel and disconnect connectors. (See page BO-127)
- (b) Remove the 2 screws and transfer lever hole cover.
(See page BO-127)
- (c) Remove the 4 bolts, shift lever boot and retainer.
Torque: 6.5 N·m (66 kgf·cm, 58 in·lbf)
- (d) Cover the shift lever cap with a cloth.
- (e) Pressing down on the shift lever cap, rotate it counter-clockwise to remove.
- (f) Pull out the shift lever.

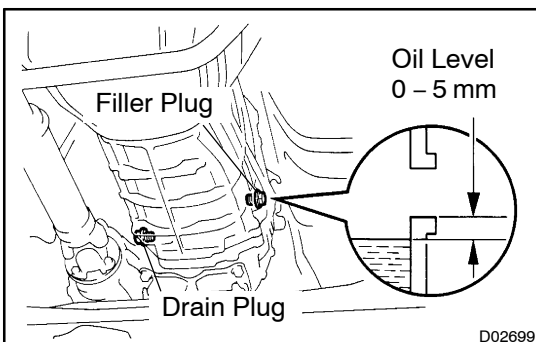
HINT:

At the time of installation, please refer to the following item.
Apply MP grease to the tip of the shift lever.



3. REMOVE TRANSFER SHIFT LEVER

Remove the nut, washer, lever lock pin and transfer shift lever.
Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)



4. RAISE VEHICLE AND DRAIN TRANSMISSION OIL

Oil grade: API GL-4 or GL-5

Viscosity: SAE 75W-90

Capacity: 2.7 liters (2.9 US qts, 2.4 Imp. qts)

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

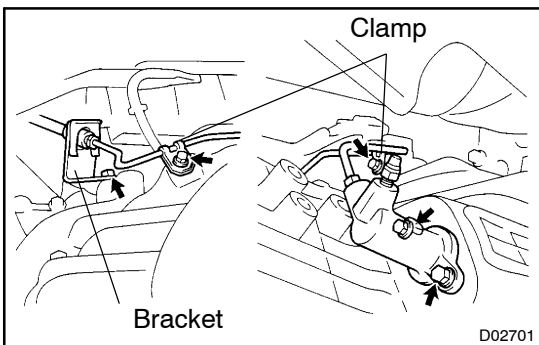
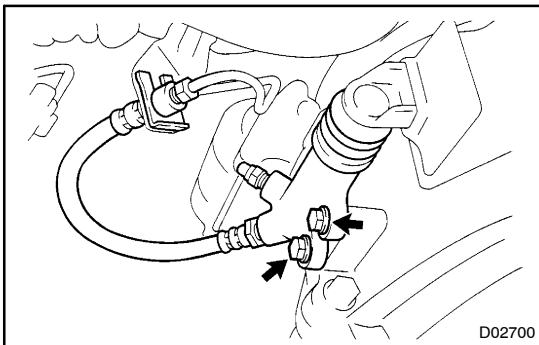
5. REMOVE ENGINE UNDER COVER

6. REMOVE FRONT AND REAR PROPELLER SHAFT (See page PR-2)

7. **1FZ-FE Engine:**
w/One Touch 2 –4 Selector System:
DISCONNECT MOTOR ACTUATOR CONNECTOR
8. **1FZ-FE Engine:**
FULL-TIME 4WD TYPE:
DISCONNECT CENTER DIFF –LOCK INDICATOR SWITCH, NEUTRAL POSITION SWITCH, BACK –UP LIGHT SWITCH, L4 POSITION SWITCH AND NO. 1 SPEED SENSOR CONNECTORS
9. **1FZ-FE Engine:**
PART-TIME 4WD TYPE:
DISCONNECT TRANSFER 4WD POSITION SWITCH, NEUTRAL POSITION SWITCH, BACK –UP LIGHT SWITCH, L4 POSITION SWITCH AND NO. 1 SPEED SENSOR CONNECTORS
10. **2UZ –FE Engine:**
DISCONNECT CENTER DIFF –LOCK INDICATOR SWITCH, NEUTRAL POSITION SWITCH, BACK –UP LIGHT SWITCH, L4 POSITION SWITCH, NO. 1 SPEED SENSOR AND MOTOR ACTUATOR CONNECTORS
11. **1FZ-FE Engine:**
DISCONNECT CLUTCH RELEASE CYLINDER AND LINE

Remove the 2 bolts and disconnect the release cylinder and line.

Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)



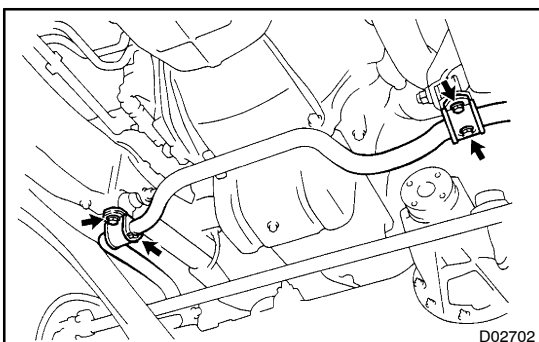
12. **2UZ –FE Engine:**
DISCONNECT CLUTCH RELEASE CYLINDER AND LINE

(a) Remove the set bolt of the clutch line bracket and 2 set bolts of the clamp and disconnect the clutch line.

Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)

(b) Remove the 2 bolts and disconnect the release cylinder and line.

Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)

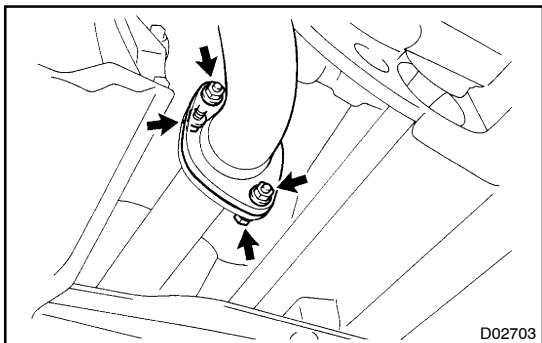


13. **DISCONNECT STABILIZER BAR**

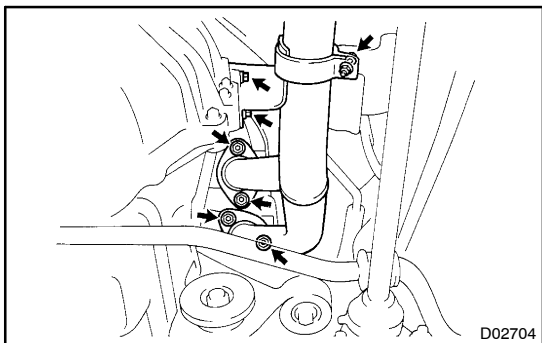
(a) Remove the 4 set bolts of the stabilizer bar bracket.

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

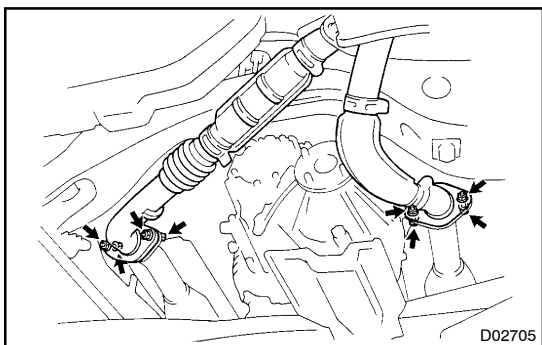
(b) Disconnect the stabilizer bar.



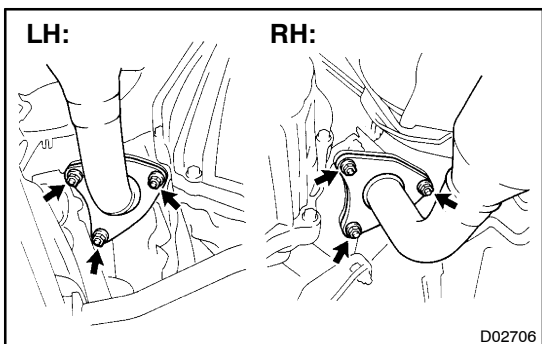
- 14. 1FZ-FE Engine:**
DISCONNECT FRONT EXHAUST PIPE
 (a) Remove the 2 bolts, nuts and gasket.
Torque: 40 N·m (400 kgf·cm, 30 ft·lbf)



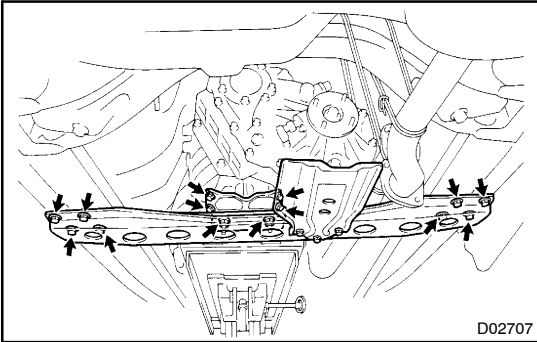
- (b) Loosen the clamp bolt and disconnect the clamp from the support bracket.
Torque: 20 N·m (200 kgf·cm, 15 ft·lbf)
 (c) Remove the 2 bolts and bracket from the clutch housing.
Torque: 24 N·m (240 kgf·cm, 17 ft·lbf)
 (d) Remove the 4 nuts and 2 gaskets from the exhaust manifold.
Torque:
Independent Front Suspension:
62 N·m (630 kgf·cm, 46 ft·lbf)
Rigid Front Suspension:
63 N·m (640 kgf·cm, 46 ft·lbf)
 (e) Disconnect the front exhaust pipe and suspend it securely.



- 15. 2UZ -FE Engine:**
DISCONNECT LH AND RH FRONT EXHAUST PIPES
 (a) Remove the 4 bolts, nuts and 2 gaskets.
Torque: 40 N·m (400 kgf·cm, 30 ft·lbf)



- (b) Remove the 6 nuts and 2 gaskets from the exhaust manifold.
Torque: 62 N·m (630 kgf·cm, 46 ft·lbf)
 (c) Disconnect the LH and RH front exhaust pipes and suspend them securely.

**16. REMOVE CROSSMEMBER**

- (a) Support the center of the transmission.
- (b) Remove the 2 nuts of the engine rear mounting.
Torque: 74 N·m (750 kgf·cm, 54 ft·lbf)
- (c) Remove the 8 bolts and crossmember.
Torque: 50 N·m (510 kgf·cm, 36 ft·lbf)

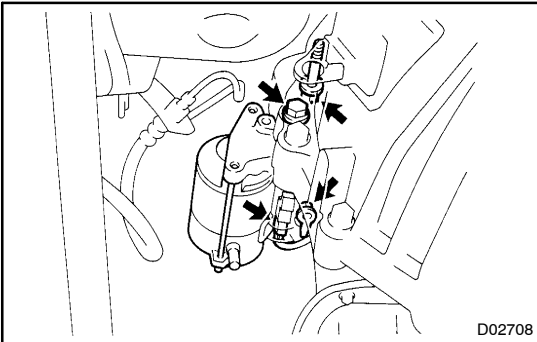
17. REMOVE ENGINE REAR MOUNTING

Remove the 4 bolts and engine rear mounting from the transmission.

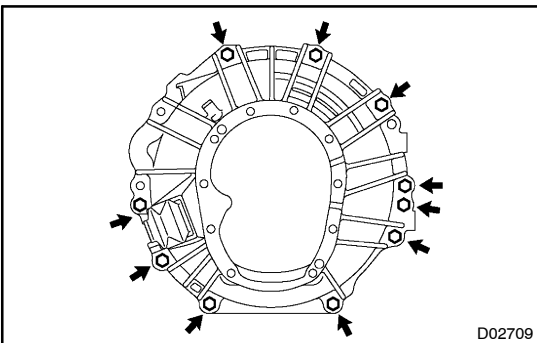
Torque: 59 N·m (600 kgf·cm, 43 ft·lbf)

18. JACK UP TRANSMISSION SLIGHTLY

Using a transmission jack, support the transmission.

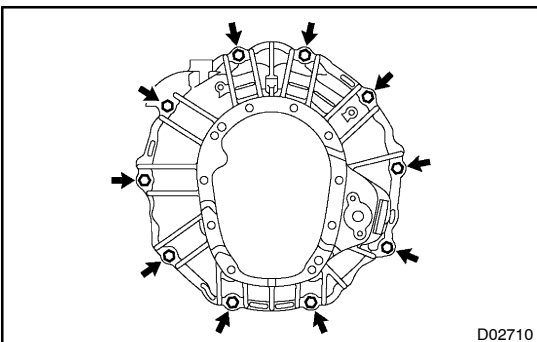
19. REMOVE SUSPENDED FRONT EXHAUST PIPE**20. 1FZ-FE Engine:****REMOVE STARTER**

- (a) Disconnect the connector and wire from the starter.
- (b) Remove the 2 bolts and starter.
Torque: 69 N·m (700 kgf·cm, 51 ft·lbf)

**21. 1FZ-FE Engine:****REMOVE TRANSMISSION WITH TRANSFER**

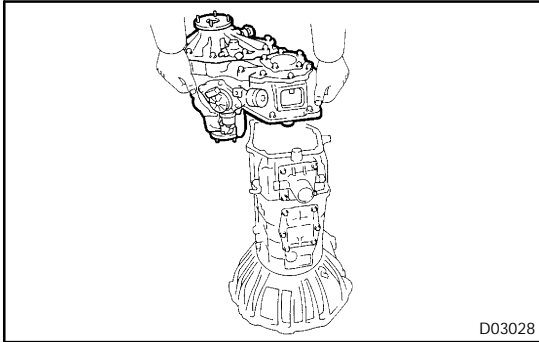
- (a) Disconnect the wire harness from the transmission.
- (b) Remove the 10 transmission mounting bolts from the engine.
Torque: 72 N·m (730 kgf·cm, 53 ft·lbf)

- (c) Pull out the transmission with the transfer down and toward the rear.

**22. 2UZ-FE Engine:****REMOVE TRANSMISSION WITH TRANSFER**

- (a) Disconnect the wire harness from the transmission.
- (b) Remove the 10 transmission mounting bolts from the engine.
Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

- (c) Pull out the transmission with the transfer down and toward the rear.

**23. REMOVE TRANSFER FROM TRANSMISSION**

- (a) Disconnect the breather hose and remove the 6 transfer adaptor rear mounting bolts.

Torque: 69 N·m (700 kgf·cm, 51 ft·lbf)

- (b) Pull the transfer straight up and remove it from the transmission.