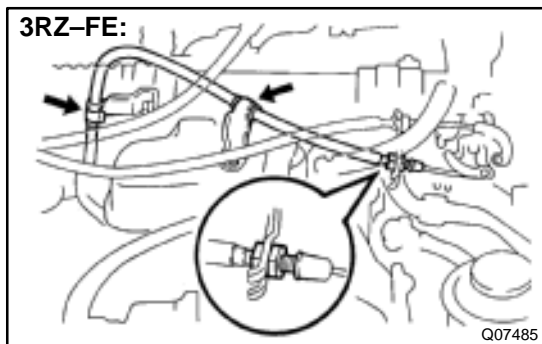
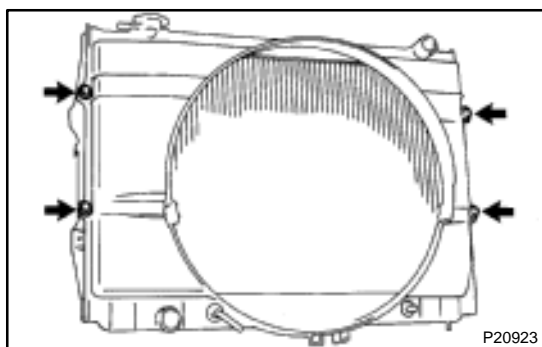
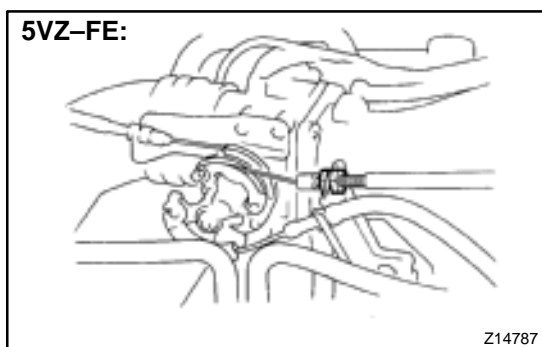


REMOVAL

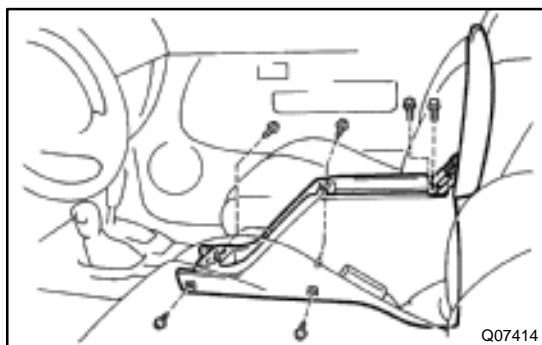
1. REMOVE ATF LEVEL GAUGE
2. REMOVE ENGINE UNDER COVER
Torque: 29 N·m (296 kgf·cm, 21 ft·lbf)



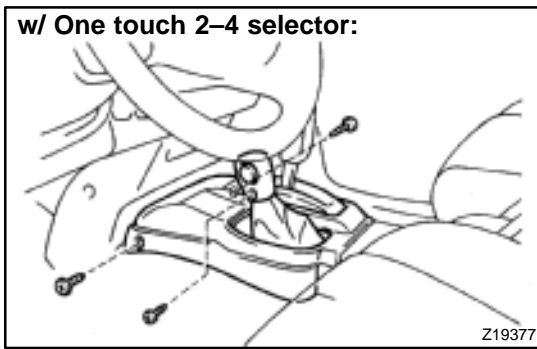
3. **DISCONNECT THROTTLE CABLE**
 - (a) Loosen the nut and disconnect the cable.
 - (b) Separate the throttle cable from the clamp.



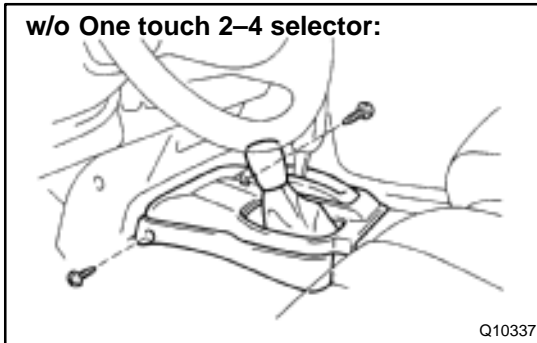
4. **REMOVE NO.1 FAN SHROUD**
Remove the 4 bolts and No.1 fan shroud.



5. **REMOVE TRANSMISSION SHIFT LEVER ASSEMBLY AND TRANSFER SHIFT LEVER**
 - (a) Remove the 2 bolts, 4 screws and rear console box.



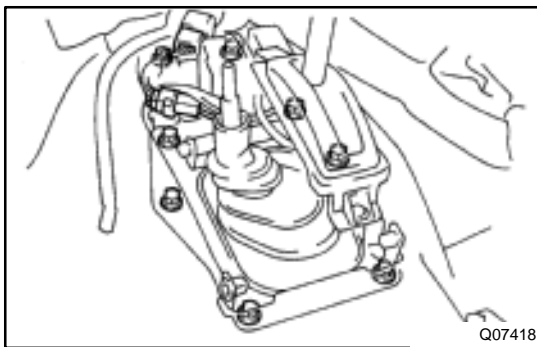
- (b) w/ One touch 2-4 selector:
Remove the 3 screws and front console box with the transfer shift lever knob.



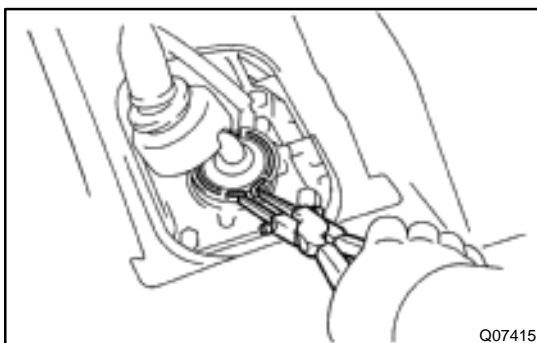
- (c) w/o One touch 2-4 selector:
Remove the 2 screws and front console box with the transfer shift lever knob.
(d) Disconnect the connectors.



- (e) Remove the nut and washer, and disconnect the shift control rod.



- (f) Disconnect the connector and remove the 8 screws and transmission shift lever assembly.



- (g) Using snap ring pliers, remove the snap ring and pull out the shift lever from the transfer.

HINT:

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

6. REMOVE OIL FILLER PIPE**(a) 3RZ-FE:**

Remove the 2 bolts and oil 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.

(b) 5VZ-FE:

Remove the bolt and oil 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.

7. REMOVE FRONT AND REAR PROPELLER SHAFT

(See page [PR-11](#))

8. REMOVE EXHAUST PIPE

(3RZ-FE: See page [EM-117](#))

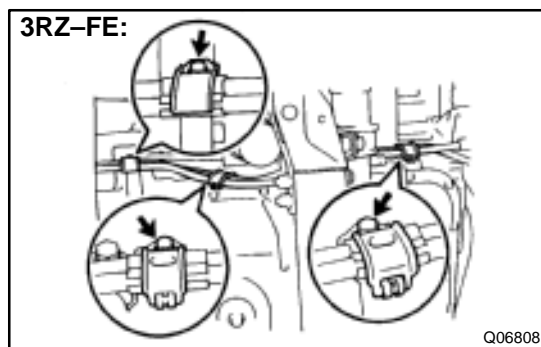
(5VZ-FE: See page [EM-107](#))

HINT:

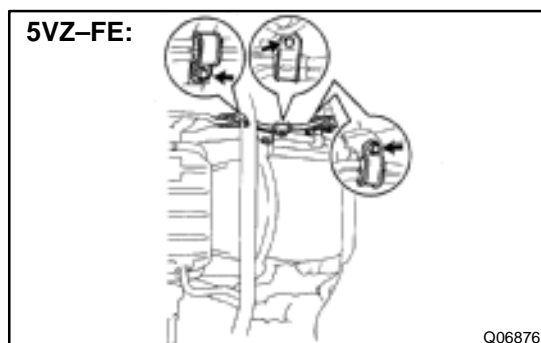
At the time of installation, please refer to the following item.
Replace the used gaskets and nuts with new ones.

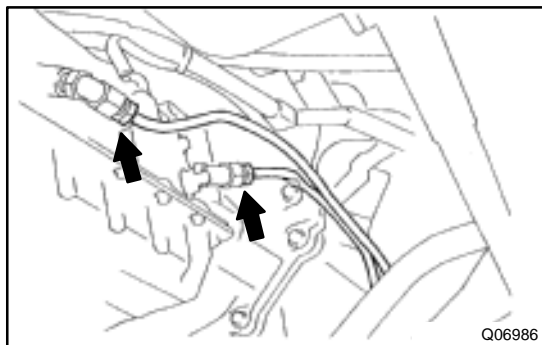
9. DISCONNECT CONNECTOR FROM TRANSMISSION

- (a) Disconnect the No.1 and No.2 vehicle speed sensor connector.
- (b) Disconnect the solenoid connector.
- (c) Disconnect the transfer neutral position switch connector.
- (d) Disconnect the transfer L4 position switch connector.
- (e) Disconnect the 4WD position switch connector.

**10. DISCONNECT OIL COOLER PIPE**

- (a) Remove the 3 bolts and clamps.

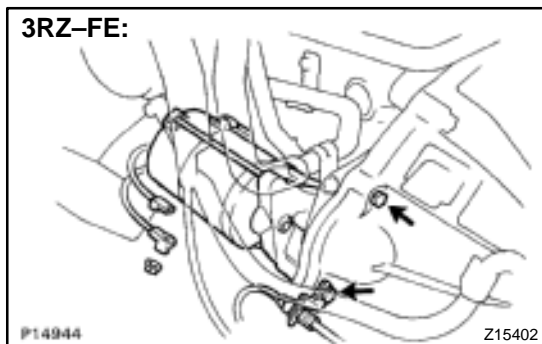




- (b) Loosen the 2 union nuts and disconnect the 2 oil cooler pipes.

Torque: 34 N·m (350 kgf·cm, 25 ft·lbf)

11. **DISCONNECT ATF TEMPERATURE SENSOR CONNECTOR**
12. **DISCONNECT PARK/NEUTRAL POSITION SWITCH CONNECTOR**



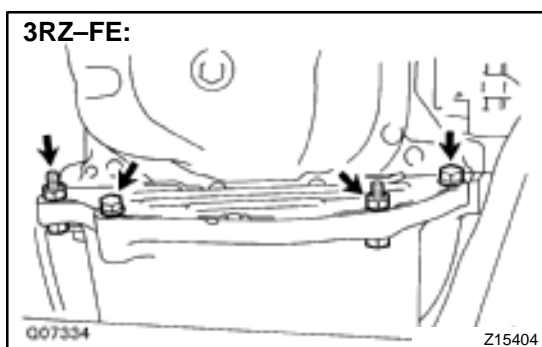
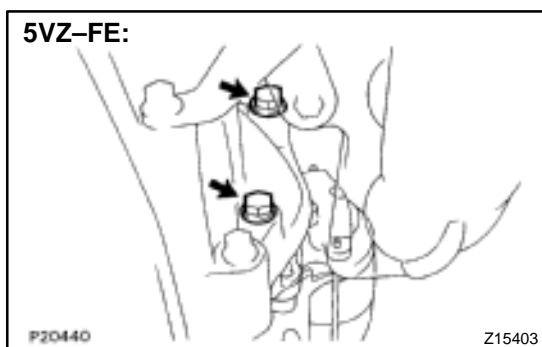
13. REMOVE STARTER

- (a) Remove the nut and disconnect the connector and terminal.

- (b) Remove the 2 bolts and starter.

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

14. **REMOVE 4 STABILIZER BAR BRACKET MOUNTING BOLTS (See page SA-128)**



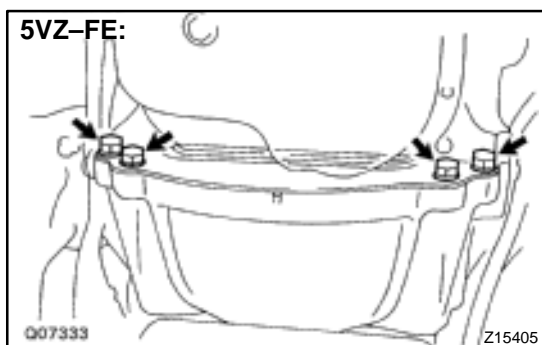
15. REMOVE TORQUE CONVERTER CLUTCH MOUNTING BOLT

- (a) **3RZ-FE:**

Remove the 2 nuts and bolts.

Remove the 2 bolts and flywheel housing under cover.

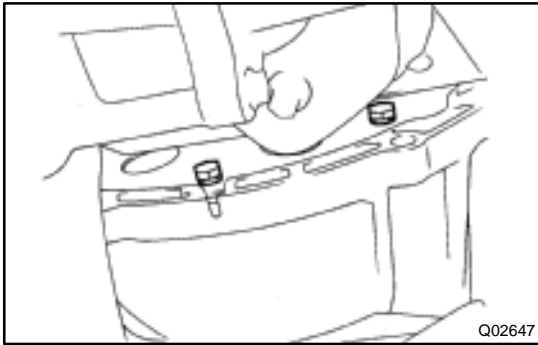
Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)



- (b) **5VZ-FE:**

Remove the 4 bolts and flywheel housing under cover.

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

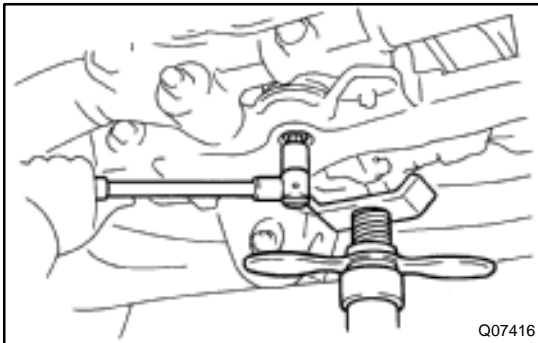


- (c) Turn the crankshaft to gain access to each bolt, remove the 6 bolts with holding the crankshaft pulley bolt with a wrench.

Torque: 41 N·m (420 kgf-cm, 30 ft-lbf)

HINT:

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



16. REMOVE FRONT DIFFERENTIAL REAR MOUNTING CUSHION

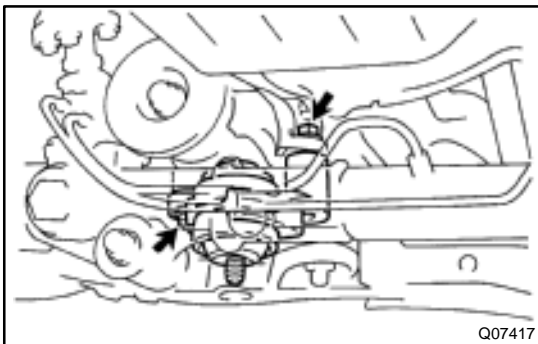
- (a) Using a hexagon wrench (12 mm), remove the nut.

Torque: 87 N·m (890 kgf-cm, 64 ft-lbf)

- (b) Lift up the front differential with a support stand.

NOTICE:

Be careful not to touch the torque converter clutch housing and front differential companion flange.

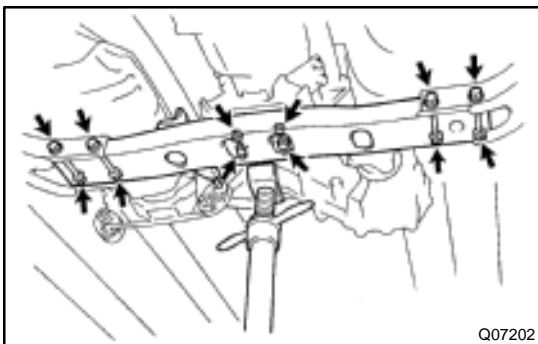


- (c) Remove the 2 rear mounting cushion mounting bolts.

Torque: 108 N·m (1,100 kgf-cm, 80 ft-lbf)

17. REMOVE CROSSMEMBER

- (a) Support the transmission rear side with a support stand.



- (b) Remove the 4 engine rear mounting bolts.

Torque: 18.5 N·m (189 kgf-cm, 14 ft-lbf)

- (c) Remove the 4 nuts, bolts and crossmember.

Torque: 72 N·m (734 kgf-cm, 53 ft-lbf)

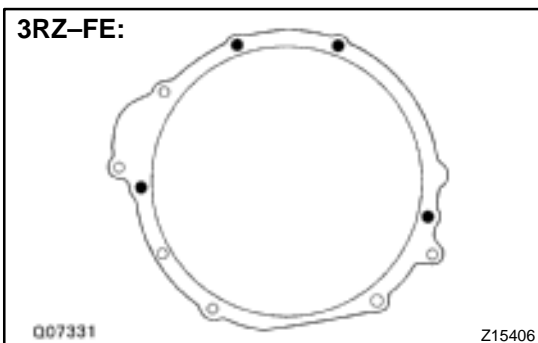
- (d) Support the transmission with a transmission jack.

18. REMOVE TRANSMISSION

- (a) Lower the transmission rear side.

- (b) Separate the wire harness from the transmission.

3RZ-FE:

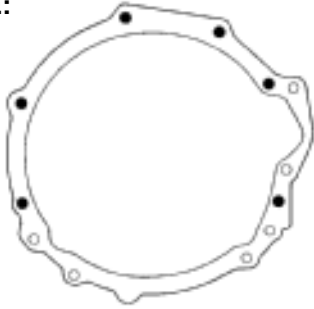


- (c) 3RZ-FE:

Remove the 4 bolts and transmission.

Torque: 71 N·m (730 kgf-cm, 53 ft-lbf)

Z15406

5VZ-FE:

G07332

Z15407

(d) 5VZ-FE:

Remove the 6 bolts and transmission.

Torque: 71 N·m (730 kgf-cm, 53 ft-lbf)