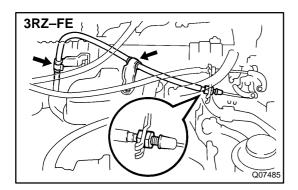
AT0FM-03

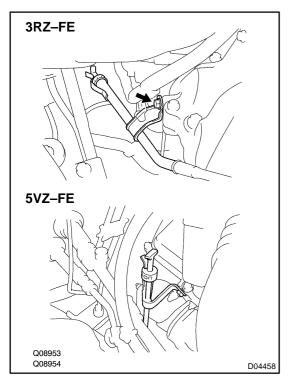


REMOVAL

1. 3RZ–FE:

DISCONNECT THROTTLE CABLE

- (a) Loosen the 2 nuts and disconnect the throttle cable.
- (b) Disconnect the throttle cable from cable clamps in the engine compartment.
- 2. REMOVE ATF LEVEL GAUGE



3. REMOVE OIL FILLER PIPE

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

Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)

HINT

At the time of installation, replace the used O-ring with a new one.

- 4. REMOVE ENGINE UNDER COVER Torque: 29 N·m (296 kgf·cm, 21 ft·lbf)
- 5. REMOVE PROPELLER SHAFT (See page PR-2)
- 6. REMOVE FRONT EXHAUST PIPE

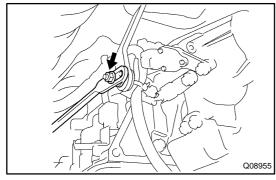
(See page 3RZ-FE: EM-108, 5VZ-FE: EM-105)

- 7. DISCONNECT OIL COOLER PIPE
- (a) Loosen the 2 oil cooler pipe unions.

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

(b) Remove the 3 oil cooler clamp set bolts and disconnect the 2 oil cooler pipes.

Torque: 4.9 N·m (50 kgf·cm, 43 in.-lbf)



8. DISCONNECT SHIFT CONTROL ROD FROM SHIFT LEVER

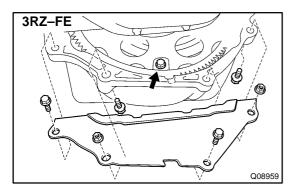
Remove the nut and washer, and disconnect the shift control rod.

Torque: 13 N-m (130 kgf-cm, 10 ft-lbf)

- 9. DISCONNECT CONNECTOR FROM TRANSMISSION
- (a) Disconnect the No.1 vehicle speed sensor connector (3RZ-FE only).
- (b) Disconnect the No.2 vehicle speed sensor connector.
- (c) Disconnect the solenoid wire connector.
- (d) Disconnect the ATF temperature sensor connector.
- (e) Disconnect the park/neutral position switch connector.
- (f) Separate wire harness from transmission.

2003 TOYOTA TACOMA (RM1002U)

Author: Date: 1764

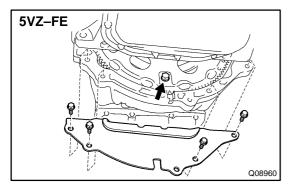


10. REMOVE REAR END PLATE AND TORQUE CON-VERTER CLUTCH MOUNTING BOLT

(a) 3RZ-FE:

Remove the 2 nuts, 4 bolts and rear end plate.

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



(b) 5VZ–FE:

Remove the 4 bolts and rear end plate.

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

(c) Turn the crankshaft to gain access and remove the 6 bolts with holding the crankshaft pulley set bolt by a wrench.

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

HINT:

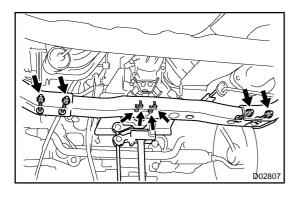
At the time of installation, first install green colored bolt and then 5 other bolts.

11. JACK UP TRANSMISSION SLIGHTLY

Securely support the transmission on a transmission jack. Lift the transmission slightly from the crossmember.

12. REMOVE CROSSMEMBER

(a) Disconnect the crossmember from the O-ring.

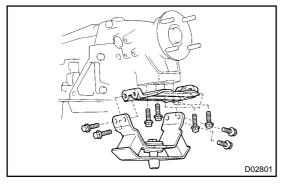


(b) Remove the 4 bolts on the rear mounting side from the engine rear mounting insulator.

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

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

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



13. REMOVE ENGINE REAR MOUNTING INSULATOR AND ENGINE MOUNTING SPACER

(a) Remove the 4 bolts and engine rear mounting insulator from the engine mounting spacer.

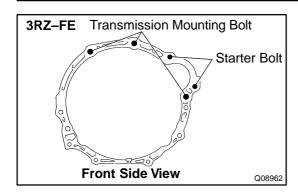
Torque: 65 N-m (660 kgf-cm, 48 ft-lbf)

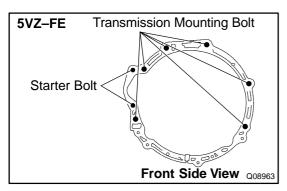
(b) Remove the 4 bolts and engine mounting spacer from the transmission.

Torque: 28.5 N·m (291 kgf·cm, 21 ft·lbf)

2003 TOYOTA TACOMA (RM1002U)

Author: Date: 1765





14. REMOVE STARTER

- (a) Remove the nut and disconnect the starter wire and connector.
- (b) Remove the 2 bolts and starter.

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

- 15. REMOVE TRANSMISSION
- (a) 3RZ-FE:

Remove the 3 bolts and transmission.

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

(b) 5VZ-FE:

Remove the 6 bolts and transmission.

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