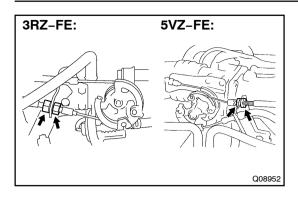
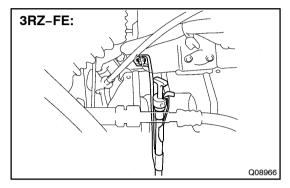
AT00P-02



REMOVAL

- 1. 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.

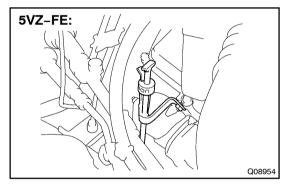


2. REMOVE ATF LEVEL GAUGE

3. 3RZ-FE:

REMOVE OIL FILLER PIPE UPPER SIDE BOLT

Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)



4. 5VZ-FE:

REMOVE OIL FILLER PIPE

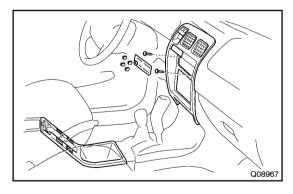
Remove the bolt and oil filler pipe with O-ring.

Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)

HINT:

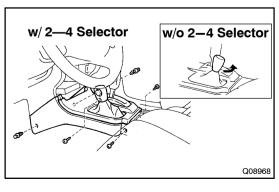
At the time of installation, please refer to the following item.

Replace the used O-ring with a new one.



5. REMOVE TRANSMISSION SHIFT LEVER ASSEMBLY AND TRANSFER SHIFT LEVER

- (a) Remove the rear console upper panel and disconnect the connectors.
- (b) Pull off the heater control knobs.
- (c) Using a screwdriver, pry out the heater control plate.
- (d) Remove the 2 screws.
- (e) Remove the center cluster finish panel and disconnect the connectors.



(f) w/o 2-4 selector:

Remove the transfer shift lever knob.

(g) w/ 2-4 selector:

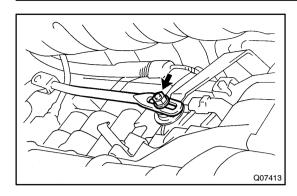
Remove the screw and disconnect the transfer shift lever

- (h) Remove the front console upper panel.
- (i) w/ 2-4 selector:

Disconnect the 2–4 selector connector and remove the transfer shift lever knob.

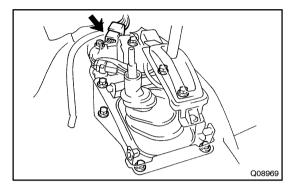
(j) Remove the 2 clips, screws and front console box.

Author: Date: 1399



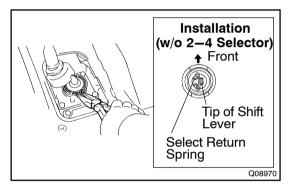
(k) Remove the nut and washer and disconnect the shift control rod.

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



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

Torque: 5.9 N·m (60 kgf·cm, 52 in.·lbf)

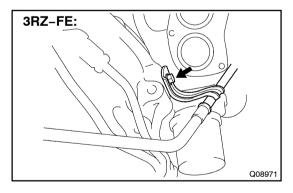


(m) Using pliers, remove the snap ring and pull out the shift lever from the transfer.

HINT:

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

- 6. REMOVE ENGINE UNDER COVER
- 7. REMOVE FRONT AND REAR PROPELLER SHAFT (See page PR-8)
- 8. REMOVE FRONT EXHAUST PIPE



9. 3RZ-FE:

REMOVE OIL FILLER PIPE

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

Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)

HINT:

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

10. DISCONNECT FOLLOWING CONNECTOR FROM TRANSMISSION

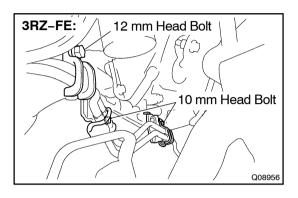
- No.2 vehicle speed sensor connector
- Solenoid connector
- ATF temperature sensor connector
- Park/neutral position switch connector

11. DISCONNECT FOLLOWING CONNECTOR FROM TRANSFER

- No.1 vehicle speed sensor connector (3RZ–FE only)
- Transfer neutral position switch connector
- Transfer L4 position switch connector
- Transfer 4WD position switch connector
- Actuator connector (w/ 2–4 selector only)

Author: Date: 1400

12. SEPARATE WIRE HARNESS FROM TRANSMISSION AND TRANSFER

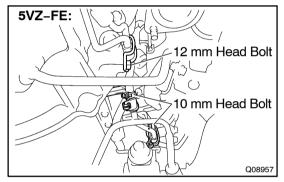


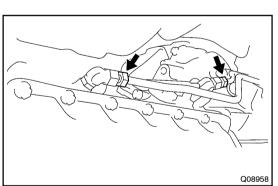
13. DISCONNECT OIL COOLER PIPE

(a) Remove the 3 bolts and oil cooler pipe clamps.

Torque:

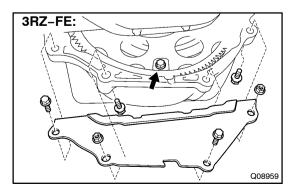
10 mm head bolt: 5.0 N·m (51 kgf·cm, 44 in.·lbf)
12 mm head bolt: 12 N·m (120 kgf·cm, 9 ft·lbf)





(b) Disconnect the 2 oil cooler pipes.

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



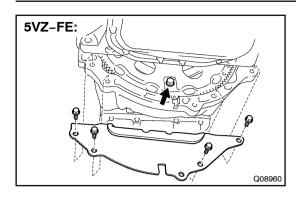
14. REMOVE REAR END PLATE AND TORQUE CON-VERTER CLUTCH MOUNTING BOLT

(a) 3RZ-FE:

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

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

Author: Date: 1401



(b) 5VZ-FE:

Remove the 4 bolts and rear end plate.

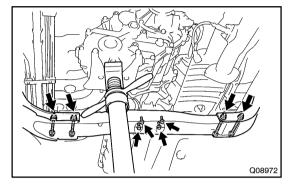
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

(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, please refer to the following item. First install green colored bolt and then 5 other bolts.



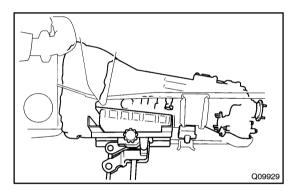
15. REMOVE CROSSMEMBER

- (a) Support the transmission rear side with a support stand.
- (b) Remove the 4 engine rear mounting bolts.

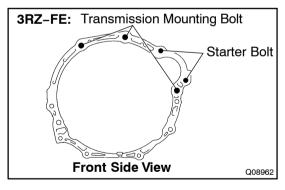
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

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

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



- (d) Support the transmission with a transmission jack.
- (e) Remove a support stand from the transmission rear side.



16. REMOVE STARTER

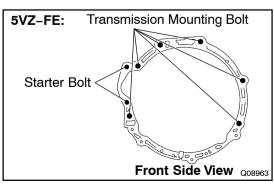
- (a) Remove the nut and disconnect the starter wire and connector.
- (b) Remove the 2 bolts and starter.

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

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

Remove the 3 bolts and transmission.

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



(b) 5VZ-FE:

Disconnect the stabilizer bar.

(See page SA-77)

(c) 5VZ-FE:

Remove the 6 bolts and transmission.

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