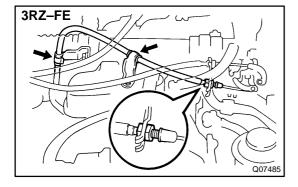
AT015-05

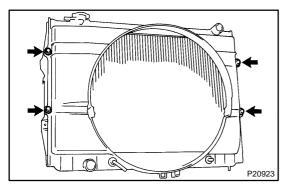
REMOVAL

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



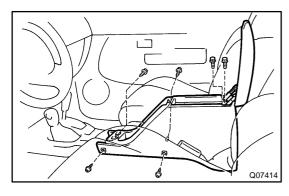
3. 3RZ-FE: DISCONNECT THROTTLE CABLE

- (a) Loosen the nut and disconnect the cable.
- (b) Separate the throttle cable from the clamp.



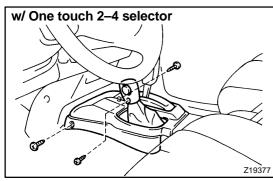
4. REMOVE NO.1 FAN SHROUD

Remove the 4 bolts and No.1 fan shroud.



5. REMOVE TRANSMISSION SHIFT LEVER ASSEMBLY AND TRANSFER SHIFT LEVER

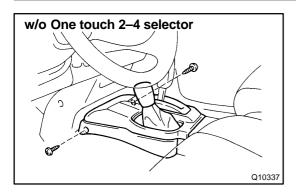
(a) Remove the 2 bolts, 4 screws and rear console box.



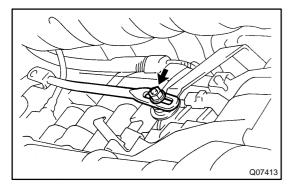
(b) w/ One touch 2-4 selector:

Remove the 3 screws and front console box with the transfer shift lever knob.

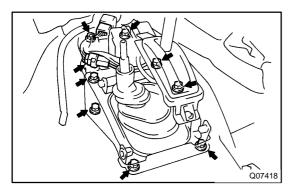
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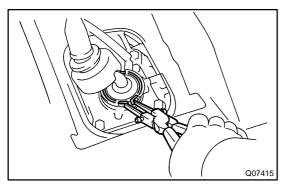
- (c) w/o One touch 2–4 selector: Remove the 2 screws and front console box with the transfer shift lever knob.
- (d) Disconnect the connectors.



(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, 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, 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, replace the used O-ring with a new one.

7. REMOVE FRONT AND REAR PROPELLER SHAFT (See page PR-11)

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8. REMOVE EXHAUST PIPE

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

HINT:

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

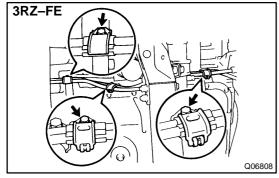
9. 3RZ-FE:

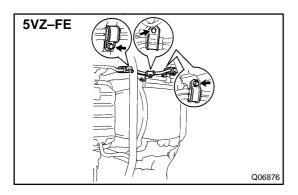
DISCONNECT NO.1 VEHICLE SPEED SENSOR CONNECTOR FROM TRANSMISSION

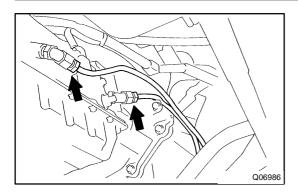
- 10. DISCONNECT NO. 2 VEHICLE SPEED SENSOR CON-NECTOR FROM TRANSMISSION
- 11. DISCONNECT SOLENOID CONNECTOR FROM TRANSMISSION
- 12. DISCONNECT ATF TEMPERATURE SENSOR CONNECTOR FROM TRANSMISSION
- 13. DISCONNECT PARK/NEUTRAL POSITION SWITCH CONNECTOR FROM TRANSMISSION
- 14. DISCONNECT NO. 1 VEHICLE SPEED SENSOR CONNECTOR FROM TRANSFER
- 15. DISCONNECT TRANSFER NEUTRAL POSITION SWITCH CONNECTOR FROM TRANSFER
- 16. DISCONNECT TRANSFER L4 POSITION SWITCH CONNECTOR FROM TRANSFER
- 17. DISCONNECT TRANSFER 4WD POSITION SWITCH CONNECTOR FROM TRANSFER
- 18. DISCONNECT ACTUATOR CONNECTOR FROM TRANSFER
- 19. SEPARATE WIRE HARNESS FROM TRANSMISSION AND TRANSFER



(a) Remove the 3 bolts and clamps.

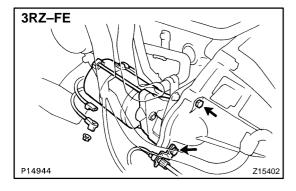






(b) Loosen the 2 union nuts and disconnect the 2 oil cooler pipes.

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

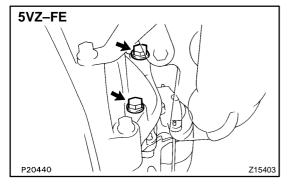


21. REMOVE STARTER

- (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)

22. REMOVE 4 STABILIZER BAR BRACKET MOUNTING BOLTS (See page SA-123)



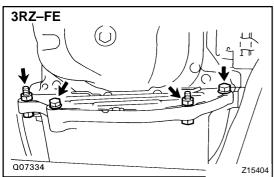
23. 3RZ-FE:

REMOVE TORQUE CONVERTER CLUTCH MOUNTING BOLT

(a) Remove the 2 nuts and bolts.

(b) Remove the 2 bolts and flywheel housing under cover.

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

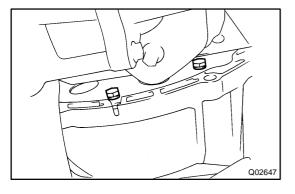


(c) Turn the crankshaft to gain access to each bolt, remove the 6 bolts with holding the crankshaft pulley bolt with a wrench.

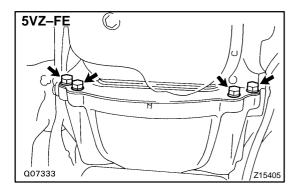
Torque: 41 N·m (420 kgf·cm, 30 ft·lbf)

HINT:

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



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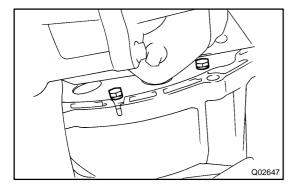


24. 5VZ-FE:

REMOVE TORQUE CONVERTER CLUTCH MOUNTING BOLT

(a) Remove the 4 bolts and flywheel housing under cover.

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

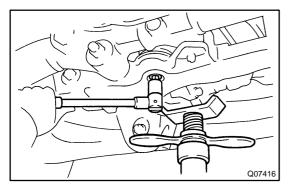


(b) Turn the crankshaft to gain access to each bolt, remove the 6 bolts with holding the crankshaft pulley bolt with a wrench.

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

HINT:

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



25. REMOVE FRONT DIFFERENTIAL REAR MOUNTING CUSHION

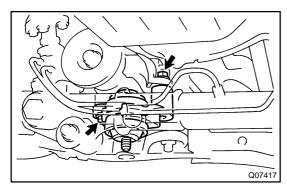
(a) Using a hexagon wrench (12 mm), remove the nut.

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.

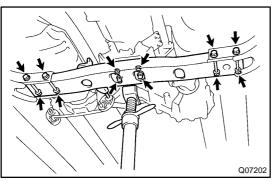


(c) Remove the 2 rear mounting cushion mounting bolts.

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

26. 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)

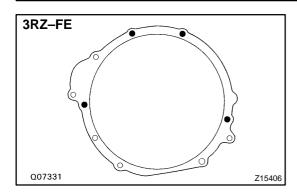
(d) Support the transmission with a transmission jack.

27. REMOVE TRANSMISSION

(a) Lower the transmission rear side.

(b) Separate the wire harness from the transmission.

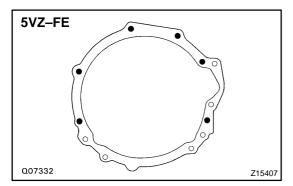
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(c) 3RZ-FE:

Remove the 4 bolts and transmission.

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



(d) 5VZ-FE:

Remove the 6 bolts and transmission.

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