SR0ZT-02

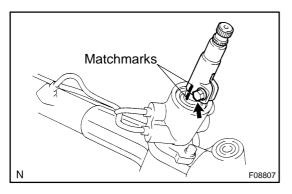
INSTALLATION

- 1. INSTALL ENGINE REAR MOUNT INSULATOR AND ENGINE REAR MOUNT BRACKET
- (a) Install the engine rear mount bracket with the 3 bolts.

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

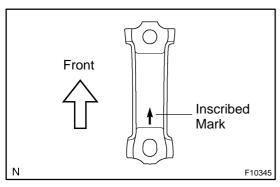
(b) Install the engine rear mount insulator with the through bolt and No. 2 engine rear mount bracket.

Torque: 64 N·m (650 kgf·cm, 47 ft·lbf)



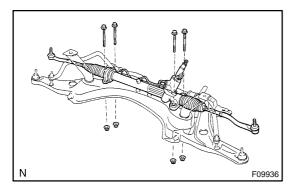
2. INSTALL PS GEAR ASSEMBLY

- (a) Align the matchmarks on the No. 3 intermediate shaft assembly and control valve shaft.
- (b) Install the No. 3 intermediate shaft assembly with the bolt. Torque: 28 N-m (290 kgf-cm, 21 ft-lbf)
- (c) Install the grommet and bracket to the PS gear assembly.



HINT:

Install the bracket with the inscribed mark facing to the front of the vehicle.



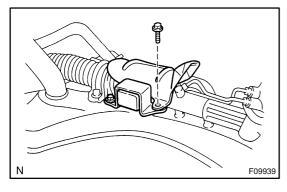
(d) Install the PS gear assembly with the 4 bolts and nuts to the front suspension member.

Torque: 74 N-m (750 kgf-cm, 54 ft-lbf)

NOTICE:

Because the nut has its own stopper, do not turn the nut and torque the bolt with the nut fixed.

(e) Install the column hole cover sub-assembly.



(f) Install the dynamic damper and rack housing heat insulator with the 2 bolts as sown in the illustration.

Torque: 18 N·m (180 kgf·cm, 13 ft·lbf)

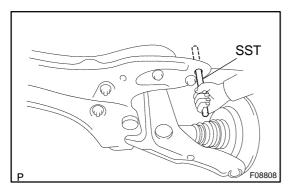
(g) Install the bolt of the rack housing heat insulator.

Torque: 35 N·m (360 kgf·cm, 26 ft·lbf)

(h) Install the stabilizer bar (See page SA-39).

2002 ECHO (RM884U)

Author: Date: 1121

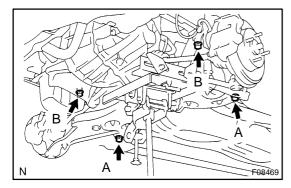


3. INSTALL FRONT SUSPENSION MEMBER WITH LOW-ER SUSPENSION ARM AND PS GEAR ASSEMBLY

(a) Using SST, align the holes of the front suspension member and body.

SST 09670-00010

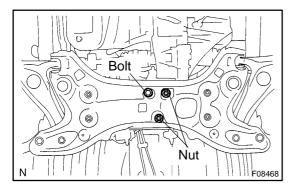
(b) Employ the same manner described above to the other side.



(c) Install the front suspension member with lower suspension arm and PS gear assembly with the 4 bolts.

Torque:

Bolt A: 116 N-m (1,180 kgf-cm, 85 ft-lbf) Bolt B: 70 N-m (715 kgf-cm, 52 ft-lbf)

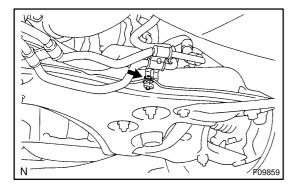


4. CONNECT ENGINE REAR MOUNT INSULATOR AND FRONT SUSPENSION MEMBER

Connect the engine rear mount insulator and front suspension member with the bolt and 2 nuts.

Torque: 80 N·m (810 kgf·cm, 59 ft·lbf)

- 5. CONNECT LOWER SUSPENSION ARM TO STEERING KNUCKLE (See page SA-35)
- 6. DISENGAGE ENGINE SLING DEVICE FROM ENGINE HANGERS
- (a) Disengage the engine chain hoist from the engine hangers
- (b) Remove the 2 No. 1 engine hangers.
- 7. INSTALL ENGINE HOOD (See page BO-6)



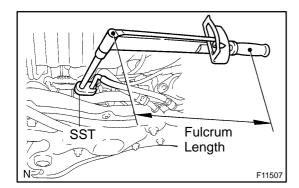
8. CONNECT TUBE CLAMP

- (a) Temporarily connect the pressure feed and return tubes.
- (b) Connect the tube clamp with the bolt.

Torque: 7.8 N·m (80 kgf·cm, 69 in.-lbf)

2002 ECHO (RM884U)

Author: Date: 1122



9. CONNECT PRESSURE FEED AND RETURN TUBES

(a) Using SST, connect the pressure feed and return tubes. SST 09023-12900

Torque: 27 N-m (280 kgf-cm, 20 ft-lbf)

HINT:

- Use a torque wrench with a fulcrum length of 300 mm (11.81 in.).
- This torque value is effective in case that SST is parallel to a torque wrench.
- (b) Connect the return hose with the clip.
- (c) Connect the column hole cover sub-assembly.
- 10. CONNECT SLIDING YOKE (See page SR-20)
- 11. INSTALL NO. 2 COLUMN HOLE COVER (See page SR-20)
- 12. CONNECT RH AND LH TIE ROD ENDS (See page SA-14)
- 13. INSTALL RH AND LH ENGINE UNDER COVERS
- **14. PLACE FRONT WHEELS FACING STRAIGHT AHEAD** HINT:

Do it with the front of the vehicle jacked up.

- 15. CENTER SPIRAL CABLE (See page SR-20)
- 16. INSTALL STEERING WHEEL
- (a) Align the matchmarks on the steering wheel and steering column main shaft.
- (b) Temporarily tighten the steering wheel set nut.
- 17. BLEED POWER STEERING SYSTEM (See page SR-4)
- 18. CHECK STEERING WHEEL CENTER POINT
- 19. TORQUE STEERING WHEEL SET NUT Torque: 50 N·m (510 kgf·cm, 37 ft·lbf)
- 20. INSTALL STEERING WHEEL PAD (See page SR-20)
- 21. CHECK FRONT WHEEL ALIGNMENT (See page SA-5)

2002 ECHO (RM884U)

Author: Date: 1123