REAR SHOCK ABSORBER WITH COIL SPRING

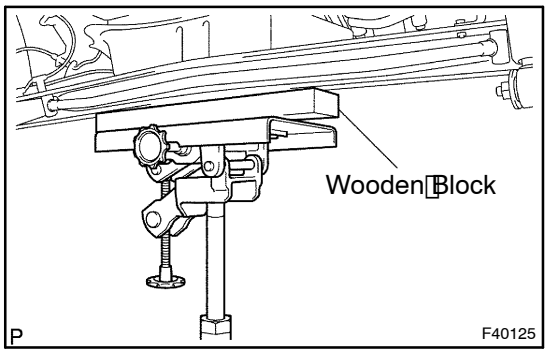
270HS–01

OVERHAUL

HINT:

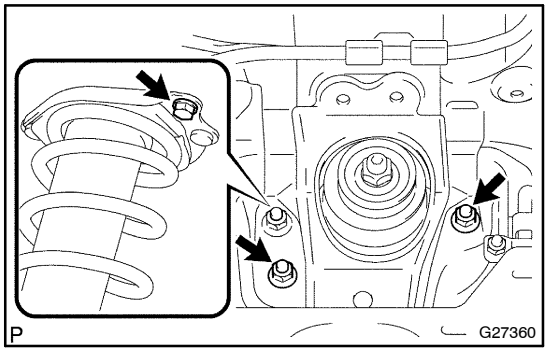
- COMPONENTS: See page 27–2.
- Installation is in the reverse order of removal.

1. **REMOVE REAR FLOOR BOARD NO.2 (SEE PAGE 21–120)**
2. **REMOVE DECK FLOOR BOX REAR (SEE PAGE 21–120)**
3. **REMOVE DECK TRIM COVER REAR (SEE PAGE 21–56)**
4. **REMOVE TONNEAU COVER ASSY (SEE PAGE 21–56)**
5. **REMOVE REAR SEAT BACK ASSY LH (SEE PAGE 72–9)**
6. **REMOVE REAR FLOOR BOARD NO.1 (SEE PAGE 21–56)**
7. **REMOVE REAR SIDE SEAT BACK FRAME LH (SEE PAGE 21–56)**
8. **REMOVE REAR FLOOR BOARD NO.4 (SEE PAGE 21–56)**
9. **REMOVE DECK FLOOR BOX LH (SEE PAGE 21–56)**
10. **REMOVE DECK TRIM SIDE PANEL ASSY LH (SEE PAGE 21–56)**
11. **REMOVE BATTERY CARRIER BRACKET (SEE PAGE 21–56)**
12. **REMOVE REAR WHEEL**



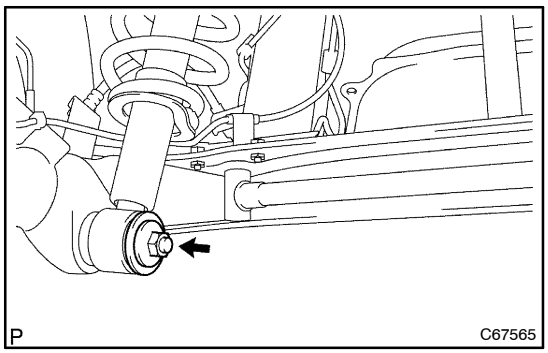
13. **REMOVE REAR SHOCK ABSORBER WITH COIL SPRING**

(a) Support the rear axle beam with a jack. Insert a wooden block between the jack and the rear axle beam to prevent damage.



(b) Remove the 2 nuts from the rear shock absorber with coil spring (upper side).

(c) Remove the rear shock absorber with coil spring (upper side) bolt from the under–side of the vehicle.

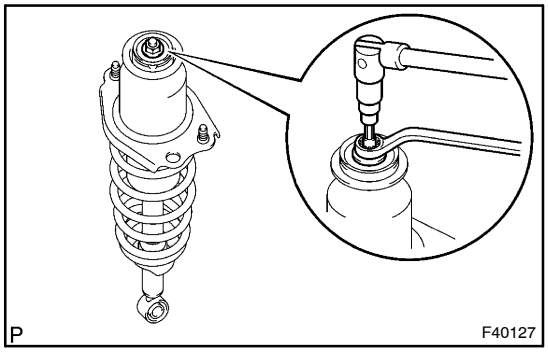


(d) Remove the nut and spacer from the rear shock absorber with coil spring (lower side).

(e) Remove the rear shock absorber with coil spring while slowly lowering the jack.

NOTICE:

Set the jack so that no extra load is placed on the shock absorber assy on the opposite side of the vehicle.

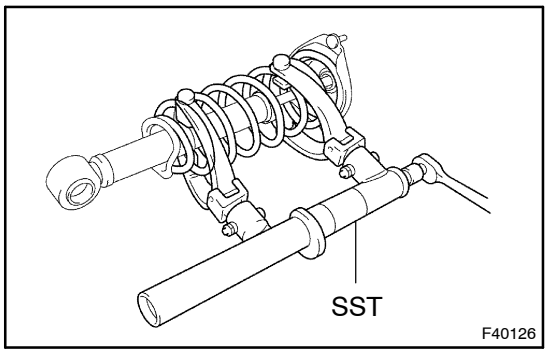


14. REMOVE SHOCK ABSORBER ASSY REAR LH

(a) Use a socket hexagon wrench (6 mm) to secure the piston rod of the shock absorber assy and loosen the nut.

NOTICE:

- **Do not remove the nut.**
- **Sufficiently insert the hexagon wrench.**



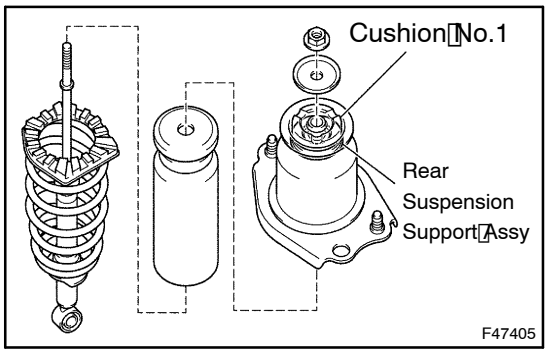
(b) Attach the SST to the coil spring so that the upper and lower hooks of the installed area are as wide as possible.
SST 09727–30021 (09727–00010, 09727–00021, 09727–00031)

(c) Compress the coil spring until it moves freely.

NOTICE:

Do not use an impact wrench. It will damage the SST.

(d) Remove the nut.

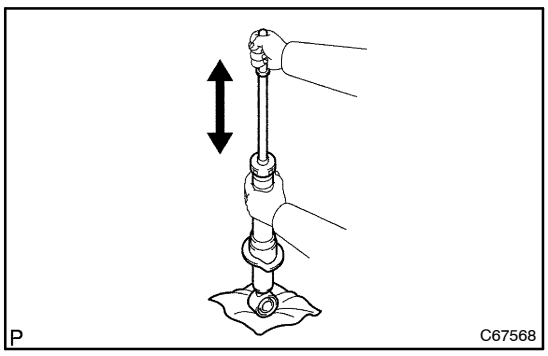


(e) Remove cushion washer No.1, cushion No.1, the rear spring front bracket, the rear suspension support assy, the rear coil spring insulator upper and rear spring bumper No.1.

HINT:

The shock absorber assy can be replaced without removing cushion No.1 and the rear suspension support assy from the rear spring front bracket.

(f) Release the SST and remove it from the coil spring after removing the coil spring from the shock absorber assy.



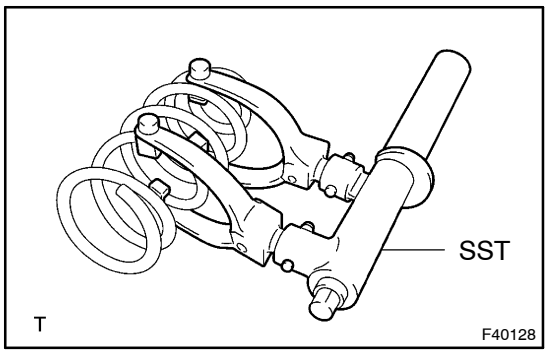
15. INSPECT SHOCK ABSORBER ASSY REAR LH

(a) Compress and extend the shock absorber rod, and check that there is no abnormal resistance or unusual sound.

If there is any abnormality, replace the shock absorber with a new one.

NOTICE:

When disposing of the shock absorber, see DISPOSAL on page 27–8.



16. INSTALL SHOCK ABSORBER ASSY REAR LH

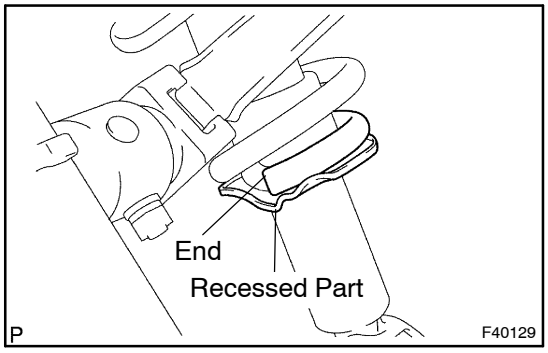
(a) Compress the coil spring using SST.
SST 09727–30021 (09727–00010, 09727–00021, 09727–00031)

NOTICE:

Do not use an impact wrench. It will damage the SST.

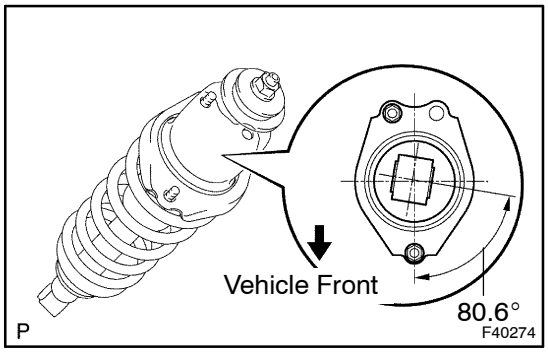
HINT:

The coil spring can also be installed/removed using the hydraulic spring compressor.



(b) Fit the coil spring end into the recessed part of the shock absorber assy lower seat.

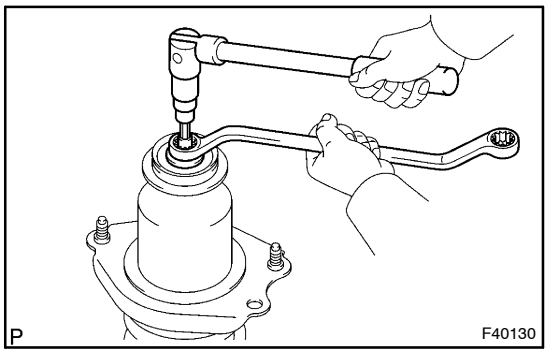
(c) Fit the rear coil spring insulator upper to the rear spring front bracket.



(d) Install rear spring bumper No.1, the rear suspension support assy, the rear spring front bracket, cushion No.1 and cushion washer No.1.

NOTICE:

- **Install the rear spring front bracket so that it is aligned with the shock absorber assy lower bush, as shown in the illustration.**
- **Install cushion washer No.1 with the protruding portion facing down.**



(e) Use a socket hexagon wrench (6 mm) to fix the shock absorber assy piston rod and tighten the nut.

Torque: 56 N·m (571 kgf·cm, 41 ft·lbf)

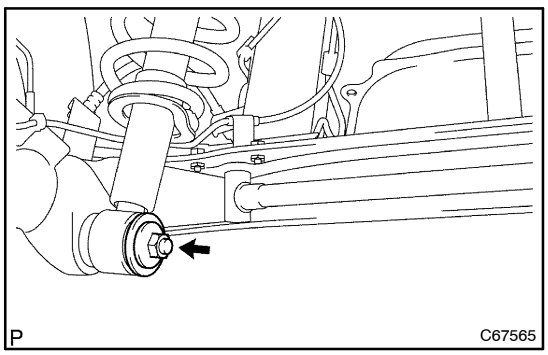
NOTICE:

Sufficiently insert the hexagon wrench.

(f) Release the SST and remove it from the coil spring.

NOTICE:

- **Do not use an impact wrench. It will damage the SST.**
- **Remove the SST while confirming the direction of the rear spring front bracket.**



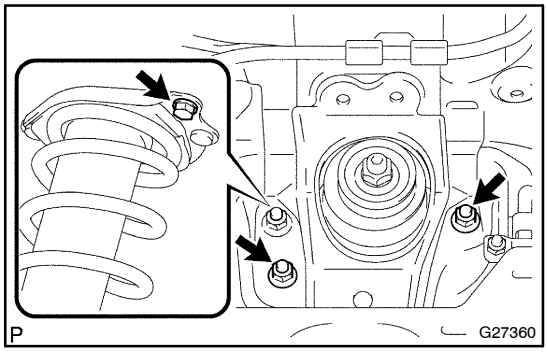
17. INSTALL REAR SHOCK ABSORBER WITH COIL SPRING

(a) Install the rear shock absorber with coil spring to the rear axle beam. Place the spacer and temporarily tighten the nut.

(b) Install the rear shock absorber with coil spring (upper side) to the vehicle by slowly raising the rear axle beam assy on a jack. Insert a wooden block between the jack and the rear axle beam assy to prevent damage.

NOTICE:

- **Do not raise the rear axle beam assy more than necessary.**
- **Securely insert the rear spring front bracket stud bolt into the vehicle.**

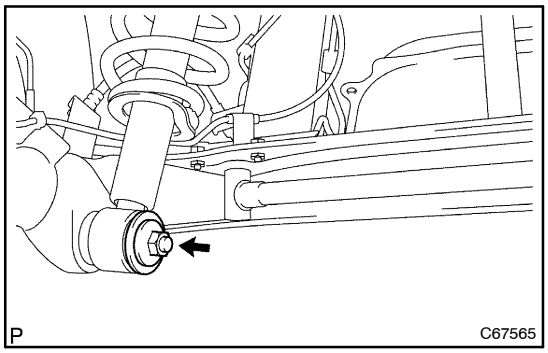


(c) Tighten the bolt and 2 nuts of the rear shock absorber with coil spring (upper side).
Torque: 80 N·m (816 kgf·cm, 59 ft·lbf)

18. STABILIZE SUSPENSION

(a) Install the rear wheel.
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

(b) After jacking down the vehicle, bounce the vehicle up and down to stabilize the rear suspension.



19. FULLY TIGHTEN REAR SHOCK ABSORBER WITH COIL SPRING

(a) Tighten the rear shock absorber with coil spring (lower side) installation nut.
Torque: 80 N·m (816 kgf·cm, 59 ft·lbf)

NOTICE:
Ensure the vehicle is lowered to the ground.

20. INSPECT REAR WHEEL ALIGNMENT (SEE PAGE 27–3)