FRONT SHOCK ABSORBER WITH COIL SPRING

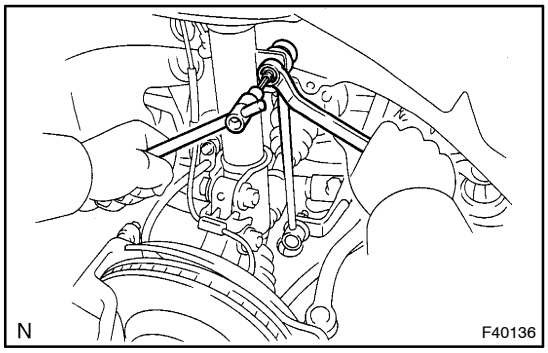
OVERHAUL

2605X–01

HINT:

COMPONENTS: See page 26–2

1. REMOVE FRONT WHEEL

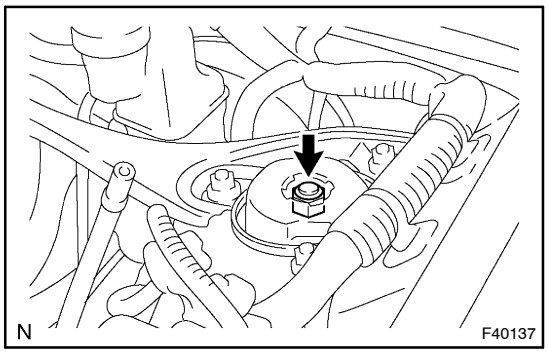


2. DISCONNECT FRONT STABILIZER LINK ASSY LH

(a) Remove the nut and disconnect the front stabilizer link assy LH from the shock absorber assy front LH.

HINT:

If the ball joint turns together with the nut, use a hexagon (6 mm) wrench to hold the stud.

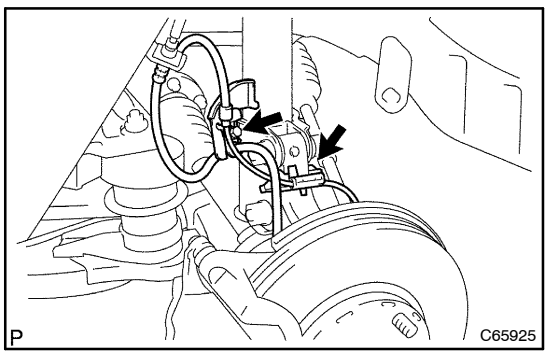


3. REMOVE FRONT SHOCK ABSORBER WITH COIL SPRING

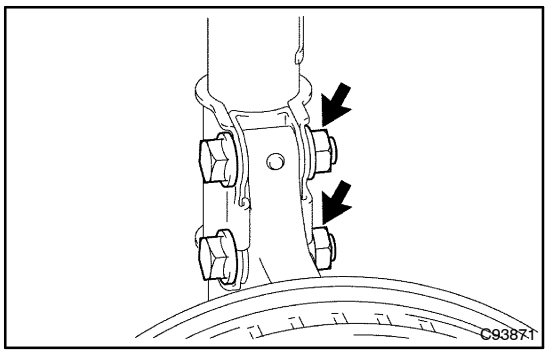
(a) Loosen the lock nut.

NOTICE:

- **Do not loosen except for the case with disassembling the shock absorber assy front LH with coil spring.**
- **Do not remove the lock nut.**



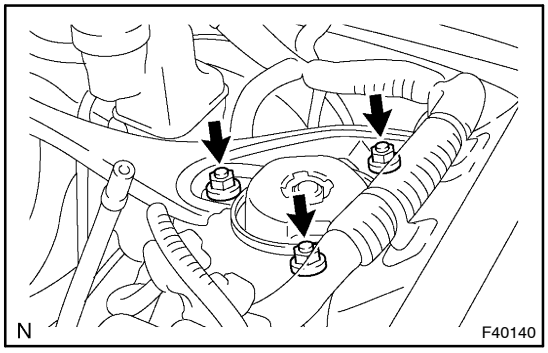
(b) Remove the bolt, disconnect the front flexible hose No. 1 and speed sensor front LH.



(c) Remove the 2 nuts and 2 bolts on the lower side of front shock absorber with coil spring.

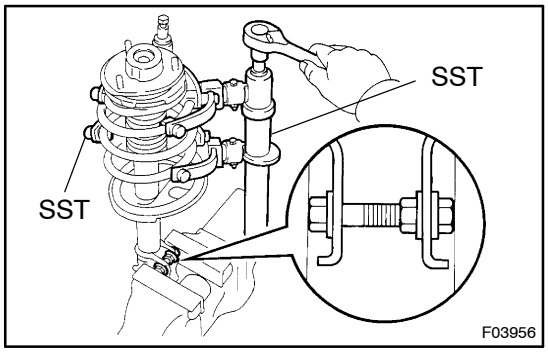
NOTICE:

When removing bolt, stop the bolt from rotating and loosen the nut.



(d) Remove the 3 nuts on the upper side of the front shock absorber with coil spring.
(e) Remove the front shock absorber with the coil spring.

NOTICE:
Be careful not to drop the 2 washers in the case that there is front suspension upper brace center.



4. FIX FRONT SHOCK ABSORBER WITH COIL SPRING

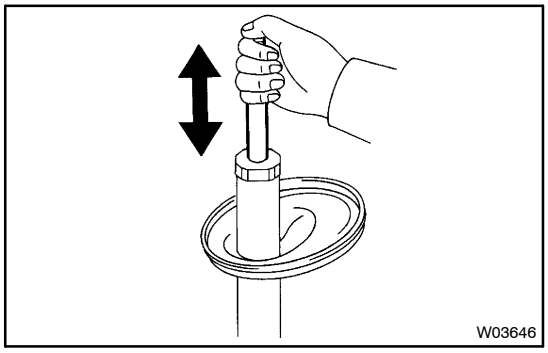
(a) Install 2 nuts and a bolt to the bracket at the lower side of the front shock absorber with coil spring and secure it in a vise.

5. REMOVE SHOCK ABSORBER ASSY FRONT LH

(a) Using SST, compress the front coil spring LH.
SST 09727–30021

NOTICE:
Do not use an impact wrench. It will damage the SST.
HINT:
Use 2 of the same type of SST.

(b) Remove the front suspension support sub–assy LH, front suspension support bearing LH, front coil spring seat upper LH, front coil spring insulator upper LH, front coil spring LH, front spring bumper LH and front coil spring insulator upper LH.



6. INSPECT SHOCK ABSORBER ASSY FRONT LH

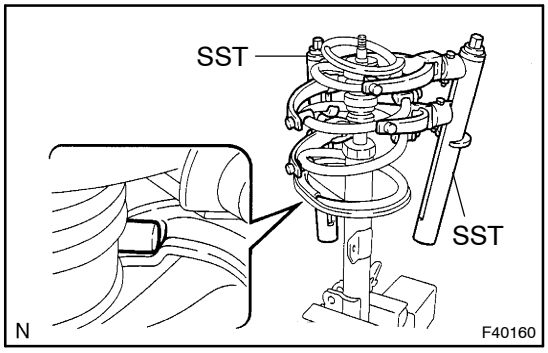
(a) Compress and extend the shock absorber rod and check that there is no abnormal resistance or unusual sound during operation.

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

NOTICE:
When disposing of the shock absorber assy front LH, see DISPOSAL on page 26–13.

7. INSTALL SHOCK ABSORBER ASSY FRONT LH

(a) Install the front coil spring insulator lower LH onto the shock absorber assy front LH.
(b) Install the front spring bumper LH to the piston rod.



(c) Using SST, compress the front coil spring LH.
SST 09727–30021

NOTICE:

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

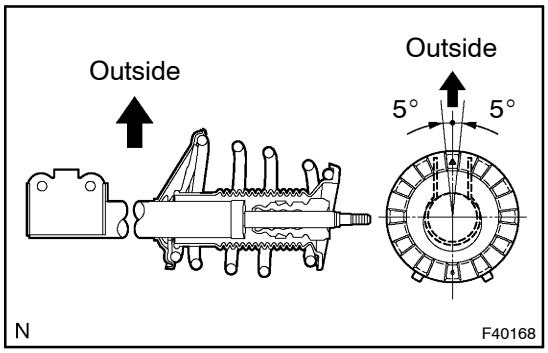
HINT:

Use 2 of the same type of SST.

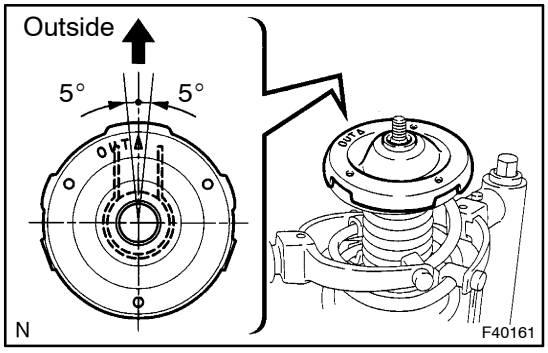
(d) Install the front coil spring LH to the shock absorber assy front LH.

HINT:

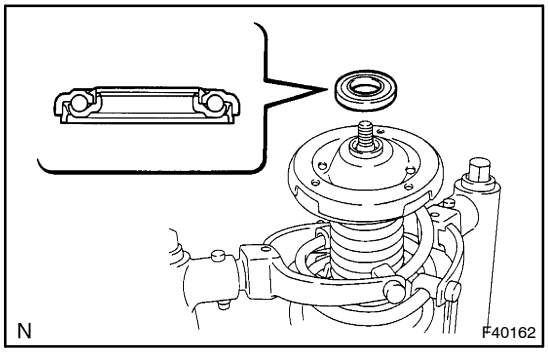
Fit the lower end of the front coil spring LH into the gap of the spring lower seat.



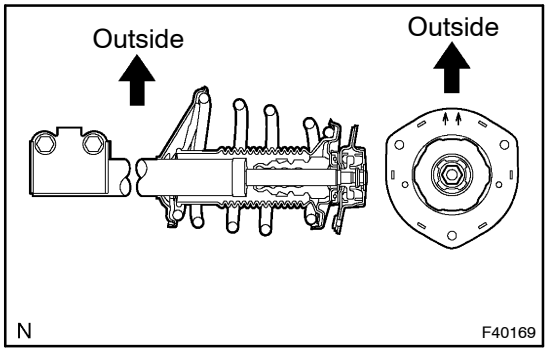
(e) Install the front coil spring insulator upper LH as shown in the illustration.



(f) Install the front coil spring seat upper LH to the shock absorber assy front LH with the mark facing to the outside of the vehicle.



(g) Install a new front suspension support bearing LH.

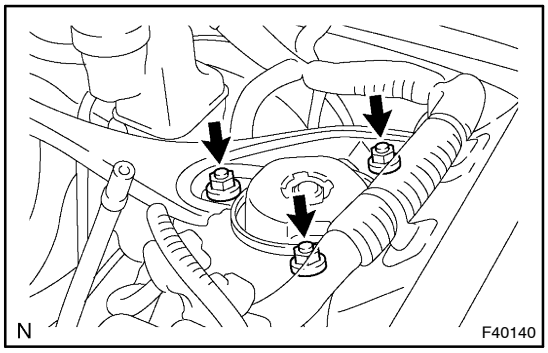


(h) Install the front suspension support sub–assy LH with the mark facing to the outside of the vehicle.

(i) Temporarily tighten the new lock nut.

8. INSTALL FRONT SHOCK ABSORBER WITH COIL SPRING

(a) Install the front shock absorber with coil spring as shown in the illustration.

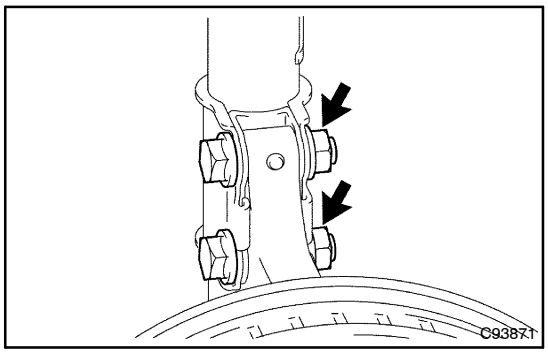


(b) Install the 3 nuts to the upper side of front shock absorber with coil spring.

Torque: 80 N·m (816 kgf·cm, 59 ft·lbf)

NOTICE:

Be careful not to drop the 2 washers in the case that there is front suspension upper brace center.

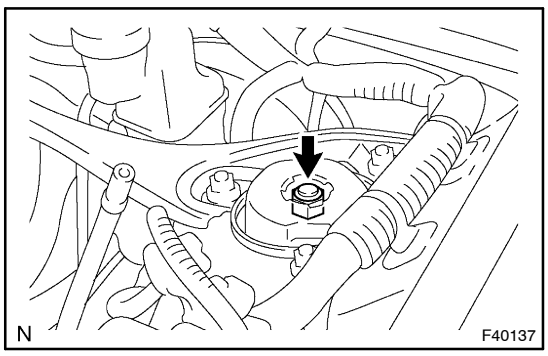


(c) Install the 2 bolts and 2 nuts to the lower side of front shock absorber with coil spring.

Torque: 210 N·m (2,141 kgf·cm, 155 ft·lbf)

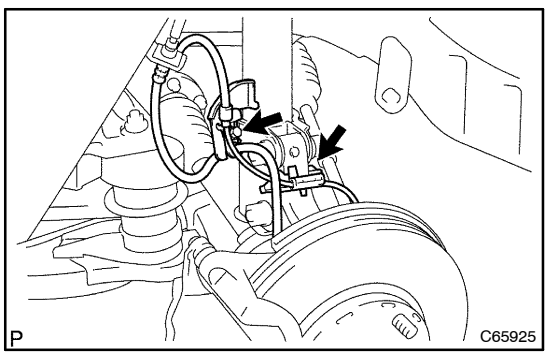
NOTICE:

When installing bolt, stop the bolt from rotating and torque the nut.



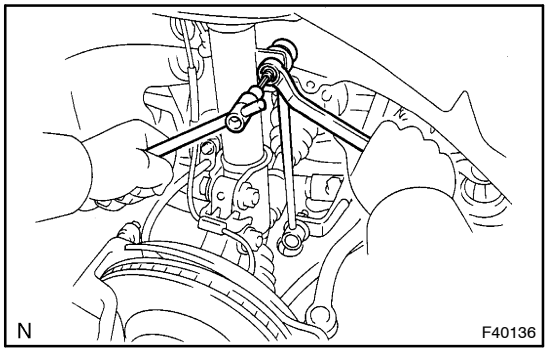
(d) Fully tighten the lock nut.

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



(e) Install the front flexible hose No. 1 and speed sensor front LH with the bolt.

Torque: 18.8 N·m (192 kgf·cm, 14 ft·lbf)



9. INSTALL FRONT STABILIZER LINK ASSY LH

(a) Install the front stabilizer link assy LH with the nut.
Torque: 74 N·m (755 kgf·cm, 55 ft·lbf)

HINT:
If the ball joint turns together with the nut, use a hexagon (6 mm) wrench to hold the stud.

10. INSTALL FRONT WHEEL
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

11. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT(See page 26–4)