

REMOVAL

1. **REMOVE FRONT WHEELS**
2. **REMOVE ENGINE UNDER COVER SUB-ASSEMBLY NO. 1**
3. **SEPARATE FRONT STABILIZER LINK ASSEMBLY LH**

- (a) Remove the nut and disconnect the stabilizer link from the steering knuckle.

HINT:

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

4. **SEPARATE FRONT STABILIZER LINK ASSEMBLY RH**

HINT:

The removal procedure for the RH side is the same as that for the LH side.

5. **REMOVE FRONT STABILIZER BRACKET NO. 1 LH**
(See page [SP-50](#))

6. **REMOVE FRONT STABILIZER BRACKET NO. 1 RH**

HINT:

The removal procedure for the RH side is the same as that for the LH side.

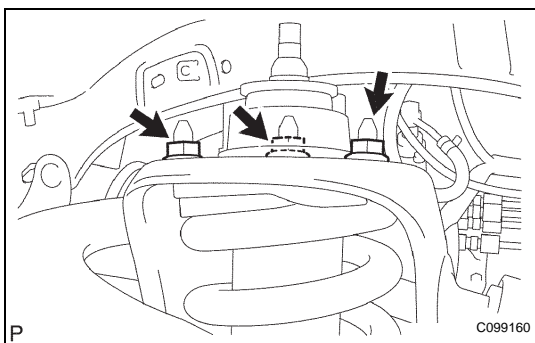
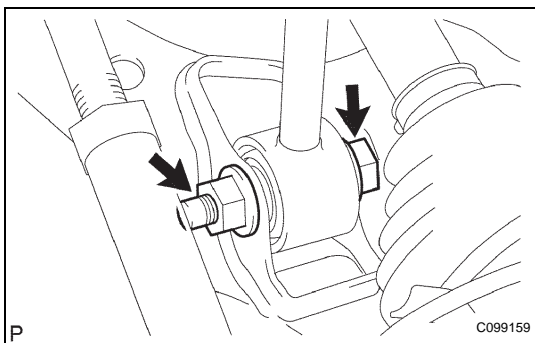
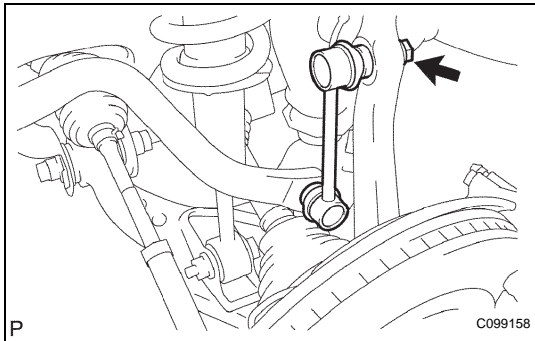
7. **REMOVE FRONT STABILIZER BAR**

8. **SEPARATE TIE ROD END SUB-ASSEMBLY** (See page [PS-54](#))

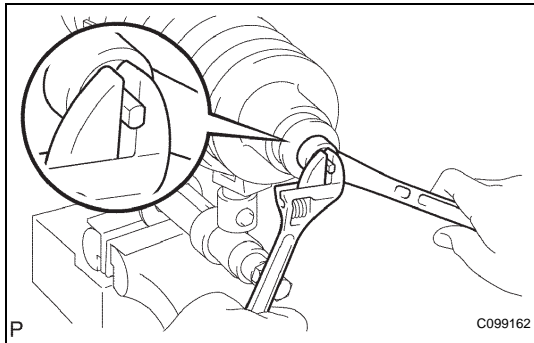
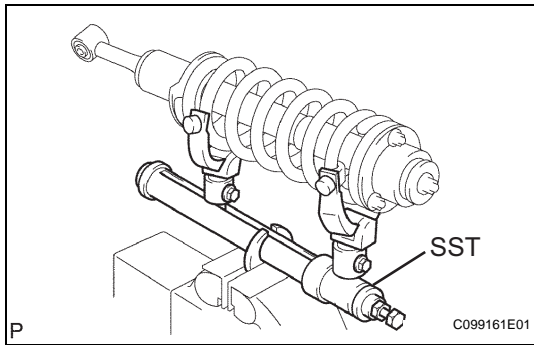
SP

9. **REMOVE FRONT SHOCK ABSORBER WITH COIL SPRING**

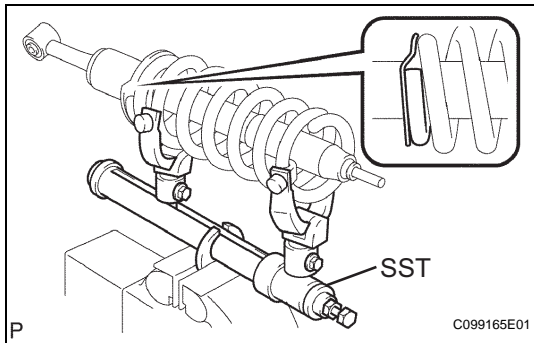
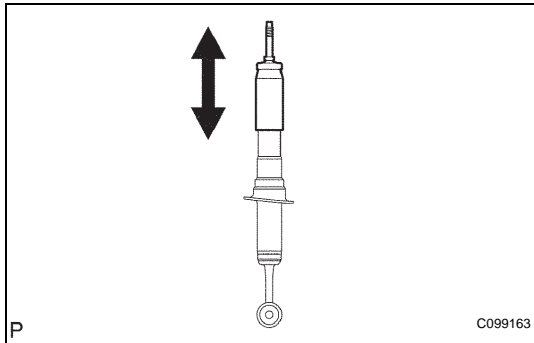
- (a) Remove the bolt, nut and washer.



- (b) Remove the 3 nuts on the upper side of the front shock absorber with coil spring.
- (c) Remove the front shock absorber with coil spring.



SP



DISASSEMBLY

1. REMOVE FRONT SUPPORT TO FRONT SHOCK ABSORBER NUT

- (a) Using SST, compress the coil spring.

SST 09727-30021 (09727-00010, 09727-00031), 09727-00060

NOTICE:

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

- (b) While holding the shock absorber rod, remove the nut.

NOTICE:

Do not use an impact wrench. It will damage the shock absorber rod.

2. REMOVE FRONT SHOCK ABSORBER CUSHION RETAINER

3. REMOVE FRONT SHOCK ABSORBER CUSHION NO. 1

4. REMOVE FRONT SUSPENSION SUPPORT SUB-ASSEMBLY

5. REMOVE FRONT SHOCK ABSORBER CUSHION RETAINER

6. REMOVE FRONT COIL SPRING

INSPECTION

1. INSPECT SHOCK ABSORBER ASSEMBLY FRONT

- (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 front with a new one.

NOTICE:

When disposing of the shock absorber front, see DISPOSAL on page SP-24.

REASSEMBLY

1. INSTALL FRONT COIL SPRING

- (a) Using SST, compress the front coil spring.

SST 09727-30021 (09727-00010, 09727-00031), 09727-00060

NOTICE:

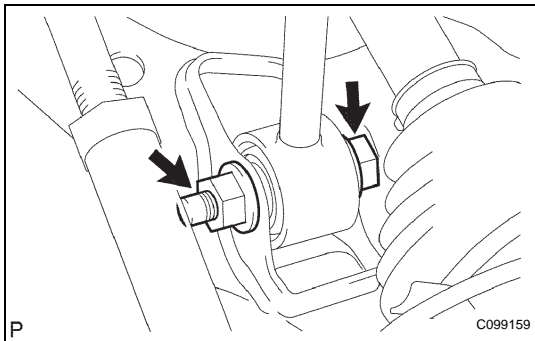
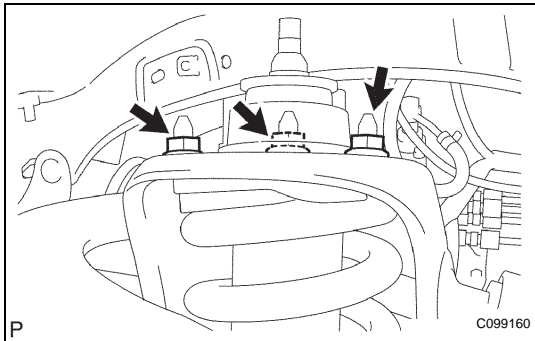
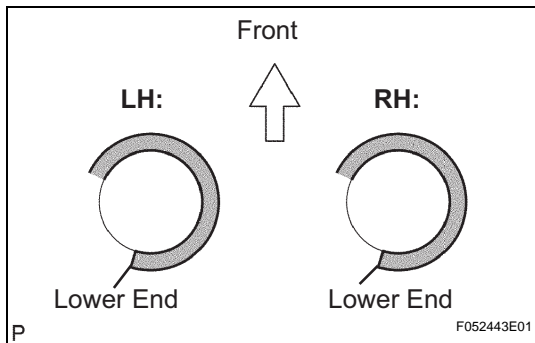
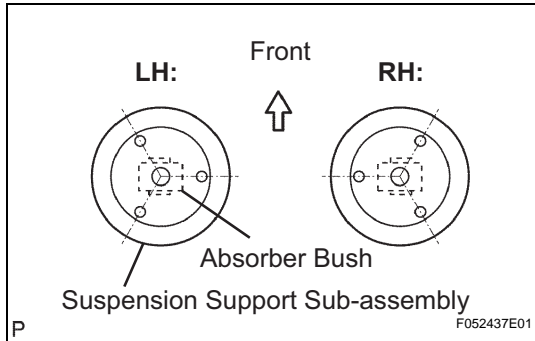
Do not use an impact wrench. It will damage SST.

- (b) Install the front coil spring onto the shock absorber front.

HINT:

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

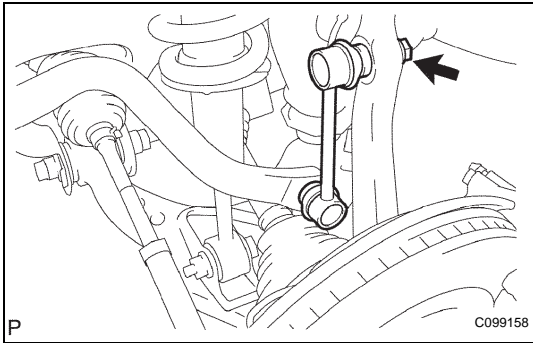
2. INSTALL FRONT SHOCK ABSORBER CUSHION RETAINER



3. **INSTALL FRONT SUSPENSION SUPPORT SUB-ASSEMBLY**
4. **INSTALL FRONT SHOCK ABSORBER CUSHION NO. 1**
5. **INSTALL FRONT SHOCK ABSORBER CUSHION RETAINER**
6. **INSTALL FRONT SUPPORT TO FRONT SHOCK ABSORBER NUT**
 - (a) Align the suspension support and the absorber bush as shown in the illustration.
 - (b) Fit and tighten a new lock nut.
Torque: 27 N*m (275 kgf*cm, 20 ft.*lbf)
NOTICE:
Do not use an impact wrench. It will damage the shock absorber rod.
 - (c) Release the coil spring while checking the position of the suspension support.

INSTALLATION

1. **TEMPORARILY TIGHTEN FRONT SHOCK ABSORBER WITH COIL SPRING**
 - (a) Install the coil spring onto the body with the lower end of the coil spring facing the rear side of the vehicle.
 - (b) Install the 3 nuts onto the upper side of the front shock absorber with coil spring.
Torque: 64 N*m (653 kgf*cm, 47 ft.*lbf)
 - (c) Temporarily tighten the bolt, nut and washer as shown in the illustration.
2. **INSTALL TIE ROD END SUB-ASSEMBLY** (See page [PS-68](#))
3. **INSTALL FRONT STABILIZER BAR**
4. **INSTALL FRONT STABILIZER BRACKET NO. 1 LH** (See page [SP-51](#))
5. **INSTALL FRONT STABILIZER BRACKET NO. 1 RH**
HINT:
The installation procedure for the RH side is the same as that for the LH side.

**6. INSTALL FRONT STABILIZER LINK ASSEMBLY LH**

- (a) Connect the stabilizer link to the steering knuckle with the nut.

Torque: 70 N*m (714 kgf*cm, 52 ft.*lbf)

HINT:

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

7. INSTALL FRONT STABILIZER LINK ASSEMBLY RH

HINT:

The installation procedure for the RH side is the same as that for the LH side.

8. INSTALL ENGINE UNDER COVER SUB-ASSEMBLY NO. 1

Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)

9. INSTALL FRONT WHEELS

Torque: 113 N*m (1,152 kgf*cm, 83 ft.*lbf)

10. STABILIZE SUSPENSION

- (a) Jack down the vehicle.
(b) Bounce the vehicle up and down several times to stabilize the suspension.

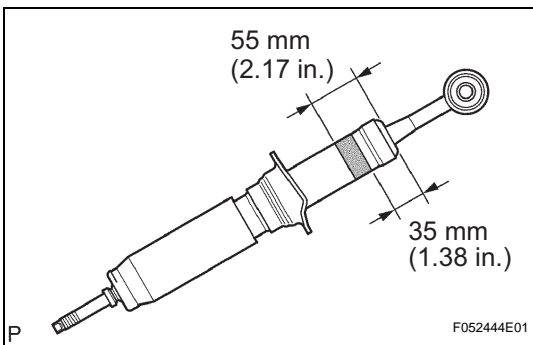
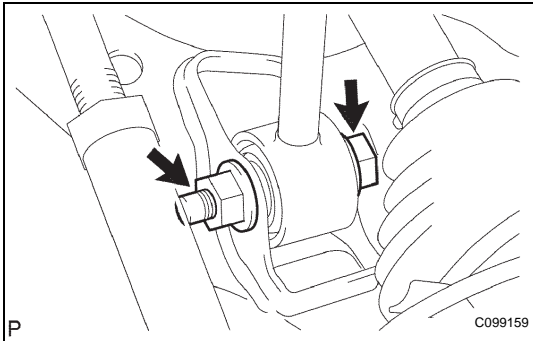
11. FULLY TIGHTEN FRONT SHOCK ABSORBER WITH COIL SPRING

- (a) Fully tighten the nut.

Torque: 83 N*m (846 kgf*cm, 61 ft.*lbf)

12. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT

(See page [SP-7](#))

**DISPOSAL****1. DISPOSE OF SHOCK ABSORBER ASSEMBLY FRONT**

- (a) Fully extend the shock absorber piston rod, and fix it at an angle in a vise or similar tool.
(b) Using a drill or similar tool, slowly make a hole in the shaded area shown in the illustration, and discharge the gas inside.

CAUTION:

- The gas is colorless, odorless and harmless.
- Since the discharged gas may cause chips to scatter, cover the drill with a shop rag when making the hole.