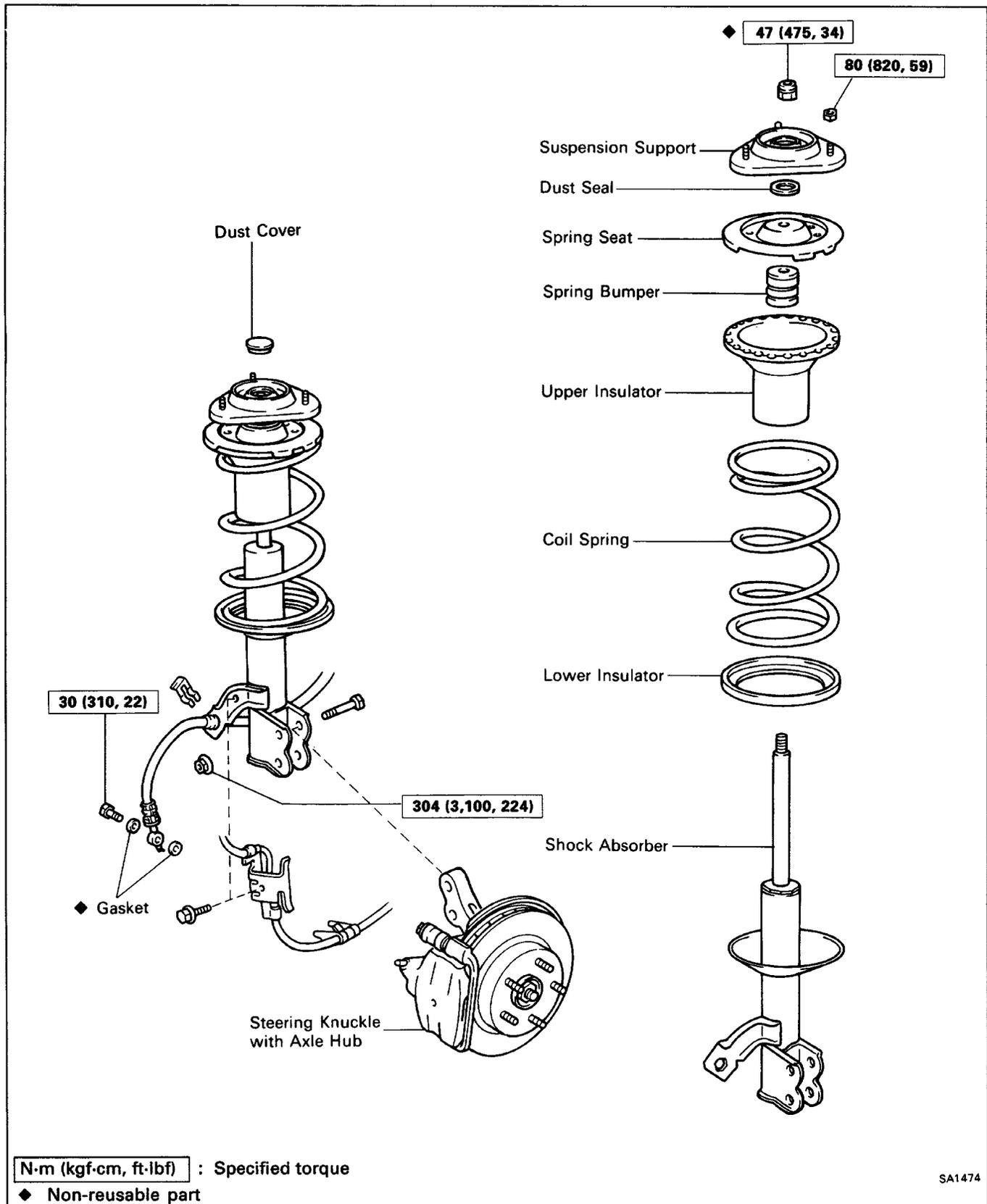


FRONT SUSPENSION

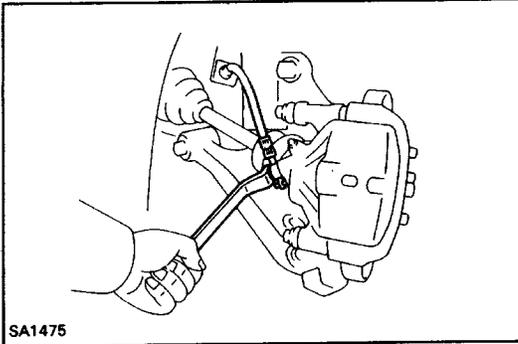
Front Shock Absorber COMPONENTS



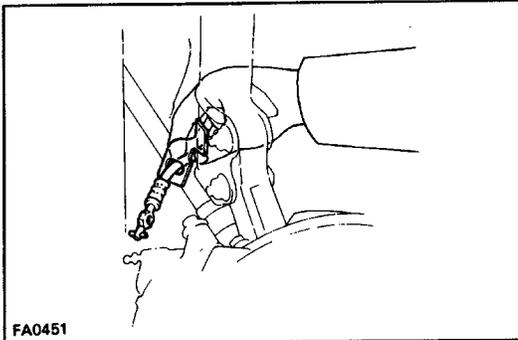
REMOVAL OF SHOCK ABSORBER ASSEMBLY

1. DISCONNECT BRAKE HOSE

- (a) Remove the union bolt and two gaskets, and disconnect the brake hose from the disc brake caliper.
- (b) Drain the brake fluid into a container.

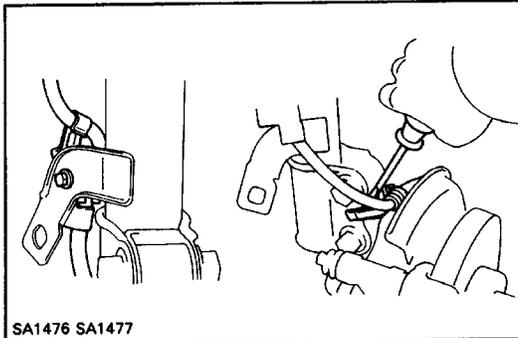


- (c) Remove the clip from the brake hose.
- (d) Pull off the brake hose from the brake hose bracket.



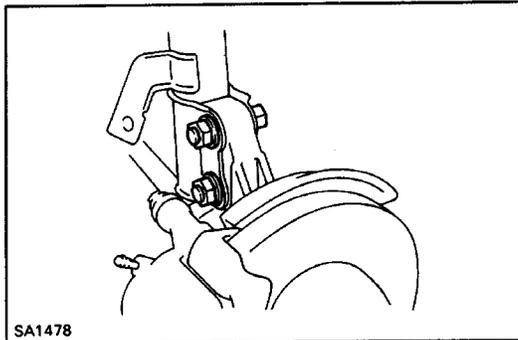
- (e) (w/ABS)

Remove the speed sensor wire harness clamp bracket bolt and disconnect the wire harness clamp.



2. DISCONNECT SHOCK ABSORBER FROM STEERING KNUCKLE

Remove the bolts and nuts, and disconnect the shock absorber from the steering knuckle.

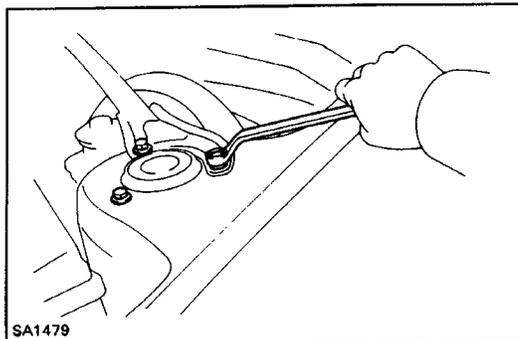


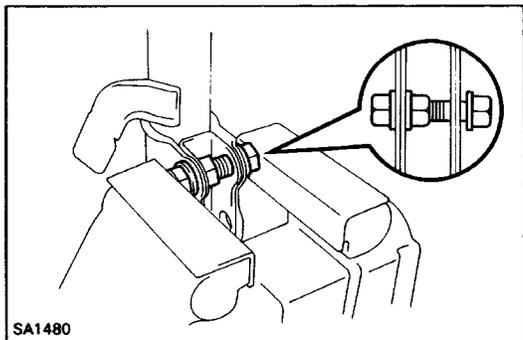
3. REMOVE SHOCK ABSORBER FROM BODY

- (a) Remove the three nuts holding the top of the suspension support.

- (b) Remove the shock absorber from the body.

NOTICE: Cover the drive shaft boot with cloth to avoid damaging it.





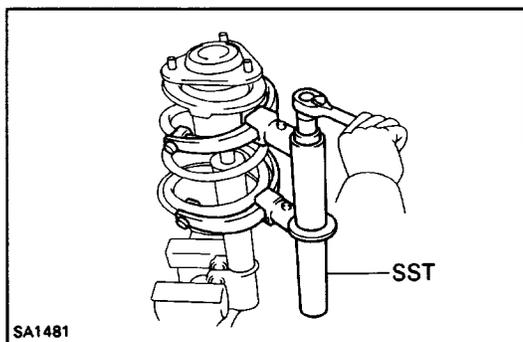
SA1480

DISASSEMBLY OF SHOCK ABSORBER ASSEMBLY

(See page SA-46)

1. CLAMP SHOCK ABSORBER IN VISE

Install a bolt and two nuts to the bracket at the lower portion of the shock absorber shell and secure it in a vise.



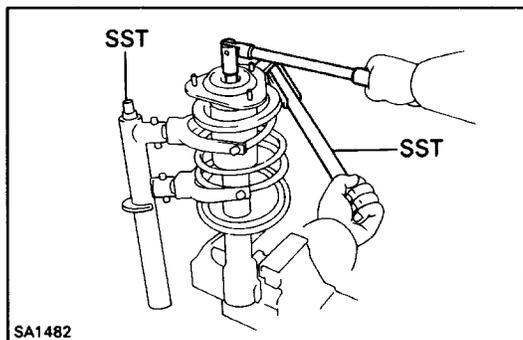
SA1481

2. REMOVE COIL SPRING

(a) Using SST, compress the coil spring.

SST 09727-30020

(b) Remove the dust cover.

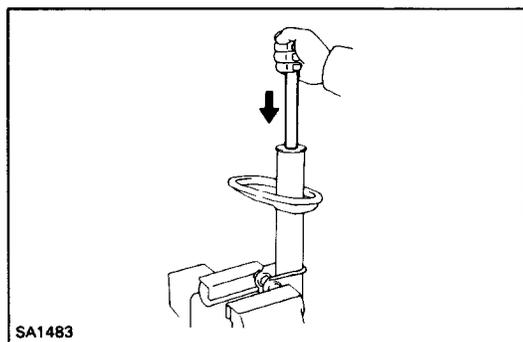


SA1482

(c) Using SST, hold the spring seat so that it will not turn, and remove the nut.

SST 09729-22031

(d) Remove the suspension support, dust seal, spring seat, spring, insulators and bumper.

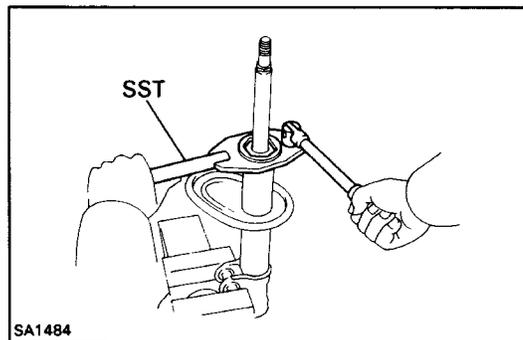


SA1483

INSPECTION AND REPLACEMENT OF SHOCK ABSORBER

INSPECT OPERATION OF SHOCK ABSORBER

- While pushing the piston rod, check that the pull throughout the stroke is even, and there is no abnormal resistance or noise.
- Push the piston rod in fully and release it. Check that it returns at a constant speed throughout.

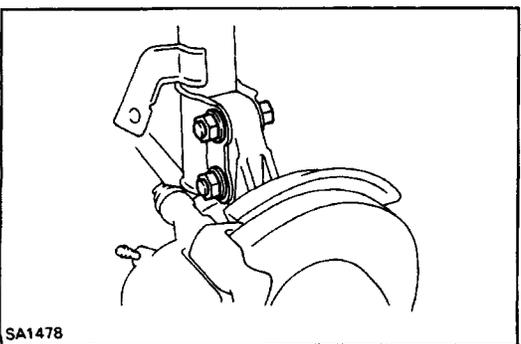
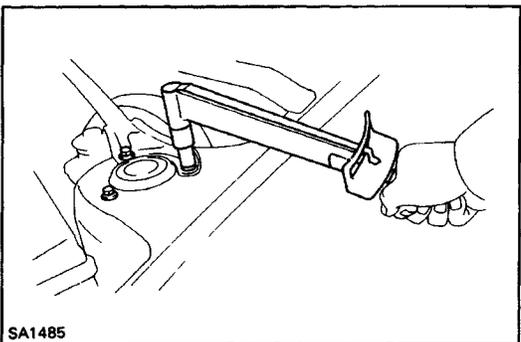
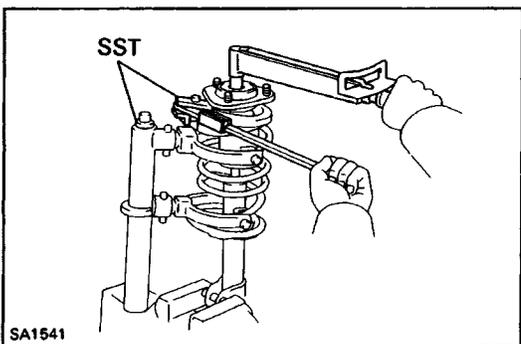
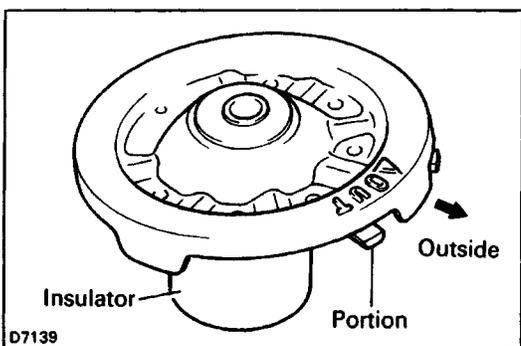
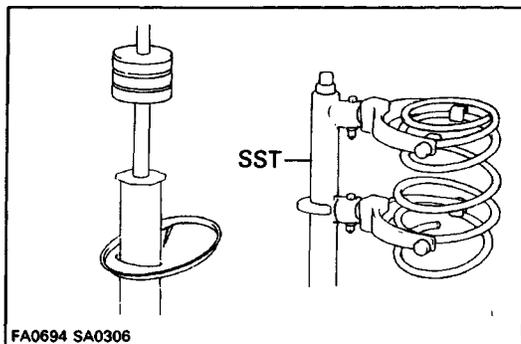


SA1484

If the shock absorber operation is defective, replace the shock absorber as an assembly.

NOTICE: Before discarding the shock absorber, first loosen the ring nut 2 or 3 turn with SST to release the gas completely.

SST 09720-00012 (09721-00071)



ASSEMBLY OF SHOCK ABSORBER ASSEMBLY

(See page SA-46)

ASSEMBLE SHOCK ABSORBER ASSEMBLY

- (a) Install the spring bumper to piston rod.
- (b) Using SST, compress the coil spring.
SST 09727-30020
- (c) Install the lower insulator.
- (d) Align the coil spring end with the lower seat hollow and install.
- (e) Install the upper insulator.
- (f) Face the "OUT" mark of the spring seat toward the outside of the vehicle, and install it.
- (g) Install the dust seal on the spring seat.
- (h) Install the suspension support.
- (i) Using SST, install and torque a new suspension support nut.
SST 09729-22031
Torque: 47 N-m (475 kgf-cm, 34 ft-lbf)

INSTALLATION OF SHOCK ABSORBER ASSEMBLY

1. INSTALL SHOCK ABSORBER TO BODY

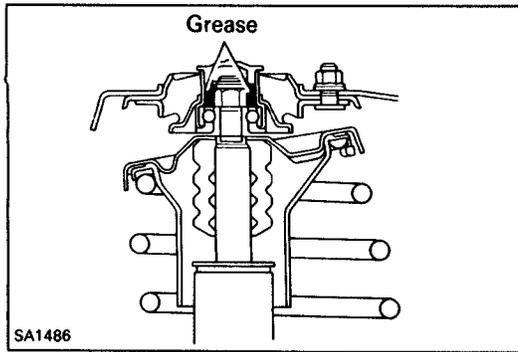
Install the three nuts holding the shock absorber to the body. Torque the nuts.

Torque: 80 N-m (820 kgf-cm, 59 ft-lbf)

NOTICE: Be careful not to damage the drive shaft boot.

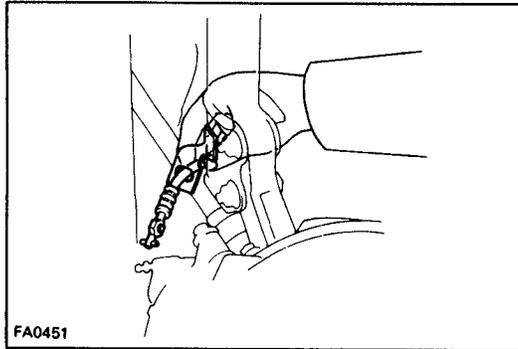
2. CONNECT SHOCK ABSORBER TO STEERING KNUCKLE

- (a) Connect the steering knuckle to the shock absorber lower bracket.
- (b) Install the two bolts from the rear side.
- (e) Install and torque the two nuts.
Torque: 304 N-m (3,700 kgf-cm, 224 ft-lbf)



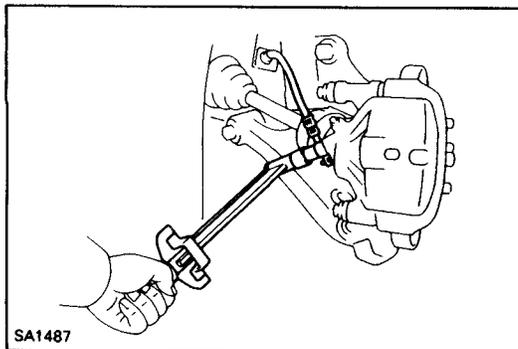
3. INSTALL DUST COVER

Pack the suspension support bearing with M P grease.
Install the dust cover.



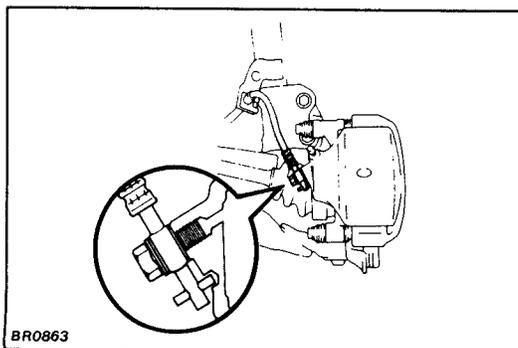
4. CONNECT BRAKE HOSE

(a) Run the brake hose through the brake hose bracket.



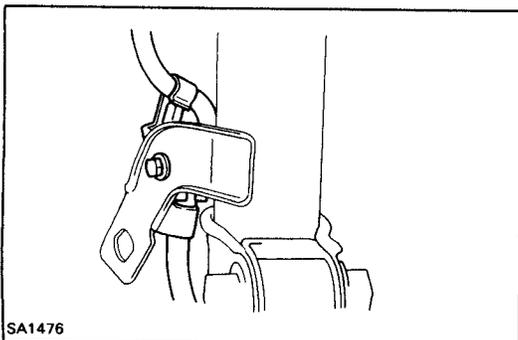
(b) Connect the brake hose through the disc brake caliper with the union and new gaskets.

Torque: 30 N-m (310 kgf-cm, 22 ft-lbf)



HINT: When connecting the brake hose to the caliper, connect so the peg aligns with the hole.

(c) Install the clip.



5. (w/ABS)

CONNECT SPEED SENSOR WIRE HARNESS TO SHOCK ABSORBER

Clamp the speed sensor wire harness to the steering knuckle and install the wire harness clamp bracket to the shock absorber with a bolt.

6. BLEED BRAKE SYSTEM

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

7. INSPECT FRONT WHEEL ALIGNMENT

(See page [SA-4](#))