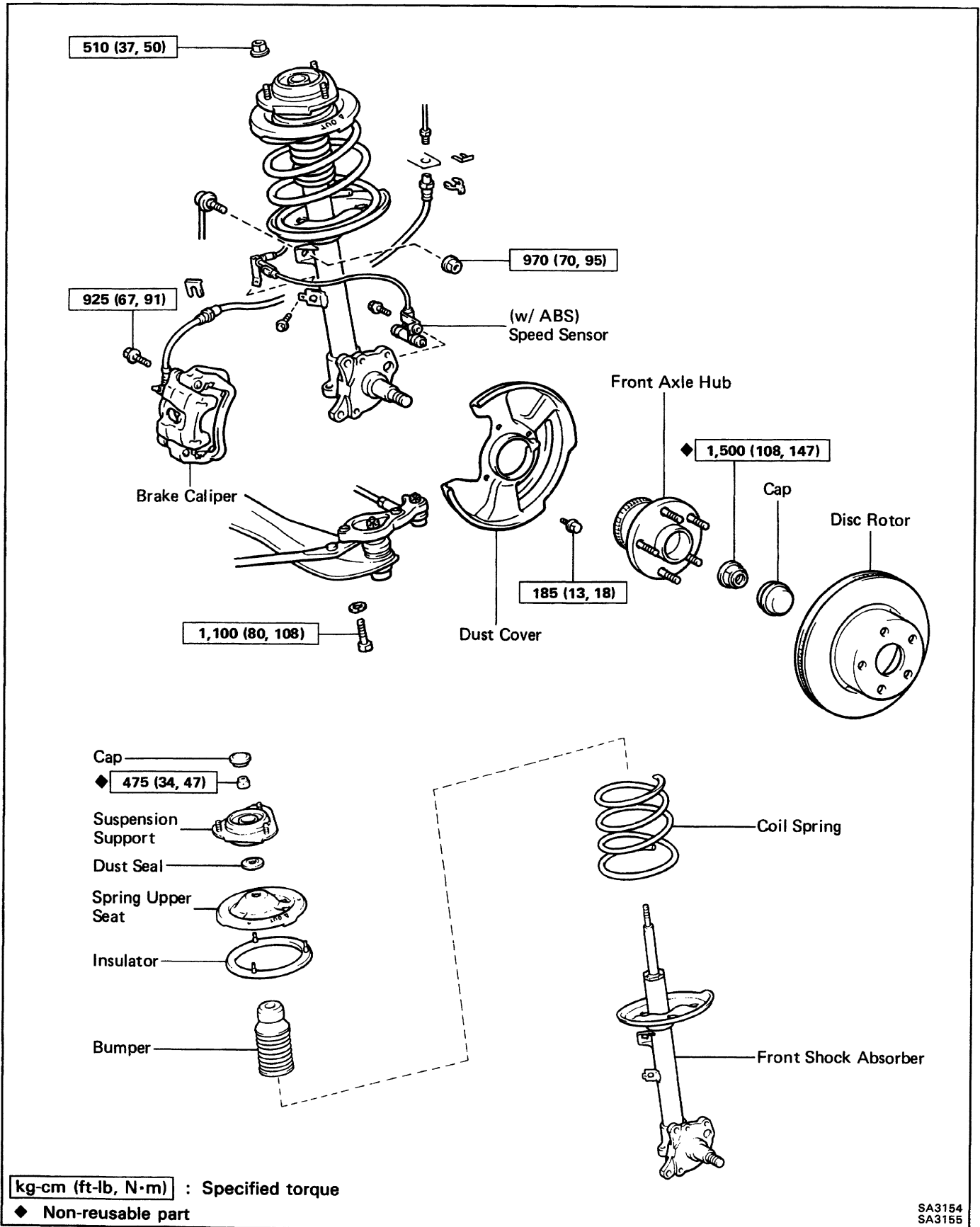
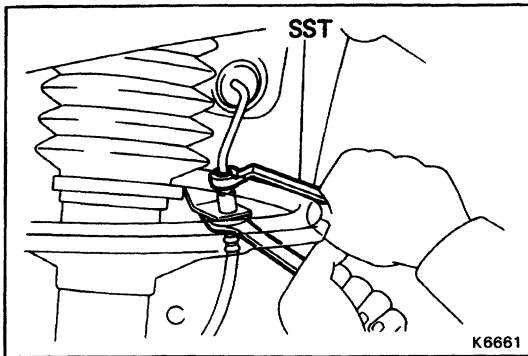


# FRONT SUSPENSION Front Shock Absorber COMPONENTS



kg-cm (ft-lb, N·m) : Specified torque

◆ Non-reusable part

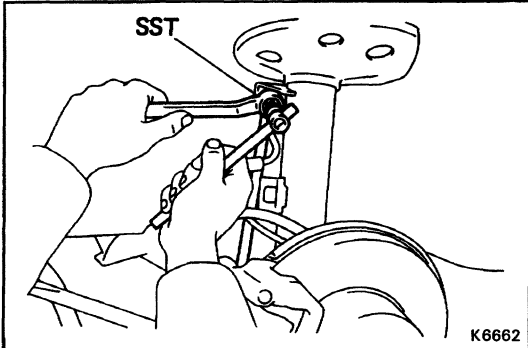


## REMOVAL OF FRONT SHOCK ABSORBER WITH COIL SPRING

### 1. REMOVE FRONT WHEEL

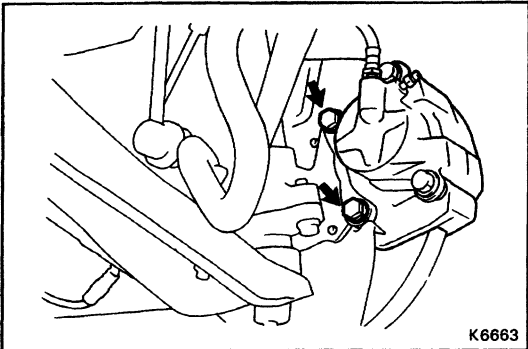
### 2. DISCONNECT BRAKE TUBE

- (a) Remove the two clips and E-ring.
- (b) Using SST, disconnect the brake tube.  
SST 09751-36011



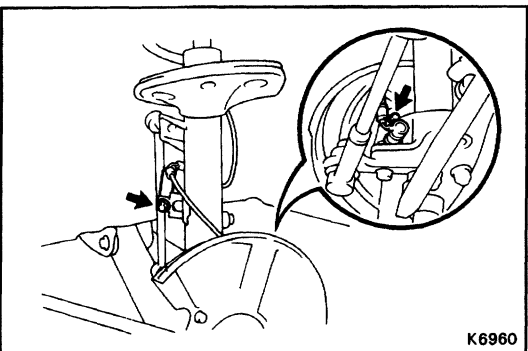
### 3. DISCONNECT STABILIZER BAR LINK

- Using SST, disconnect the stabilizer bar link from shock absorber.  
SST 09313-30021



### 4. REMOVE BRAKE CALIPER AND DISC ROTOR

- (a) Remove the two bolts.
- (b) Remove the brake caliper.
- (c) Place matchmarks on the rotor and axle hub.
- (d) Remove the disc rotor.



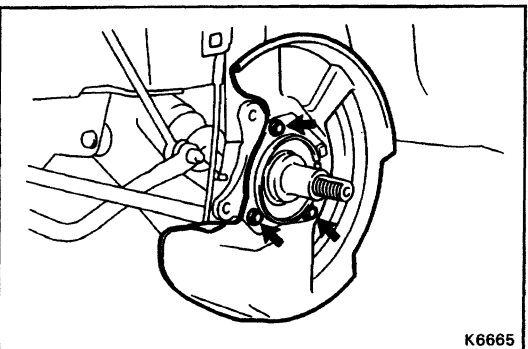
### 5. (w/ ABS)

#### REMOVE SPEED SENSOR

- (a) Remove the bolt and disconnect wire harness from shock absorber.
- (b) Remove the bolt and speed sensor.

### 6. REMOVE FRONT AXLE HUB

(See page SA-9) .

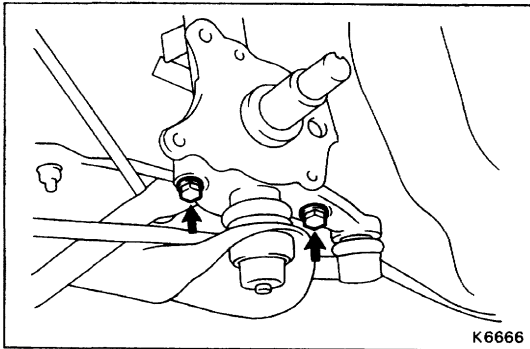


### 7. REMOVE DUST COVER

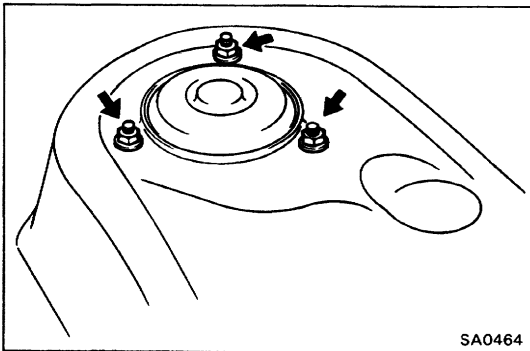
Remove the bolts and dust cover.

**Bolt: w/ ABS three bolts**

**w/o ABS four bolts**

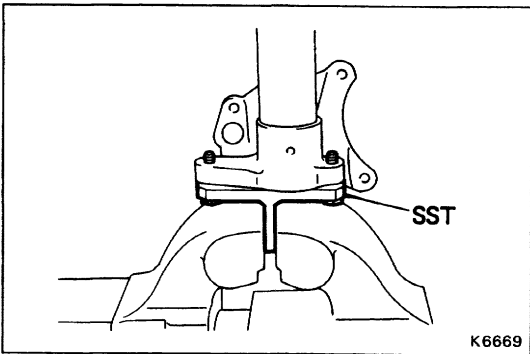


## 8. DISCONNECT LOWER ARM FROM SHOCK ABSORBER



## 9. REMOVE SHOCK ABSORBER WITH COIL SPRING

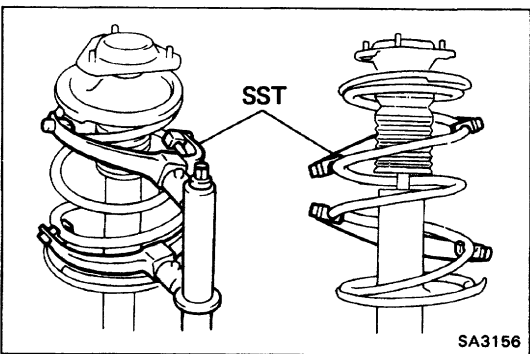
- (a) Remove the three nuts.
- (b) Remove the shock absorber with coil spring.



## REMOVAL OF SHOCK ABSORBER

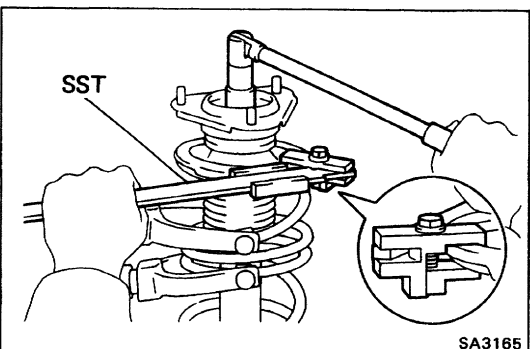
### 1. MOUNT SHOCK ABSORBER IN VISE

- Using SST, mount the shock absorber in a vise.  
SST 09720-00012 (09721-00081)



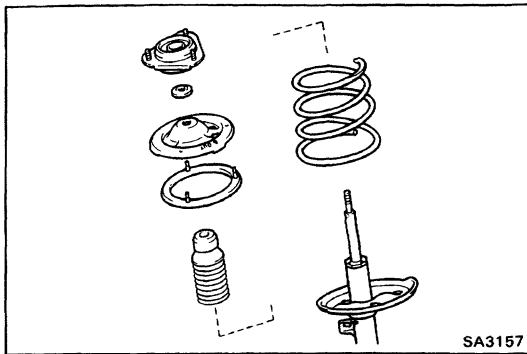
### 2. COMPRESS COIL SPRING

- Using SST, compress the coil spring.  
SST 09727-00045, 09727-30020



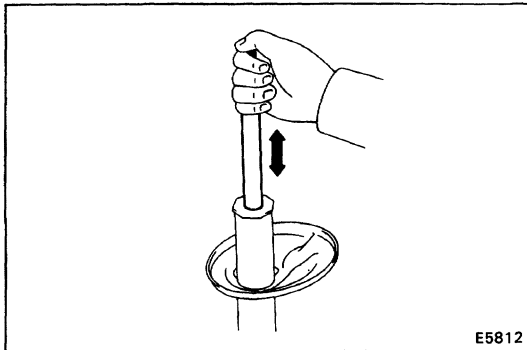
### 3. REMOVE COIL SPRING

- (a) Using SST, hold the spring upper seat and remove the nut.  
SST 09729-22031



SA3157

- (b) Remove the suspension support, dust seal, spring upper seat, insulator, coil spring and bumper.

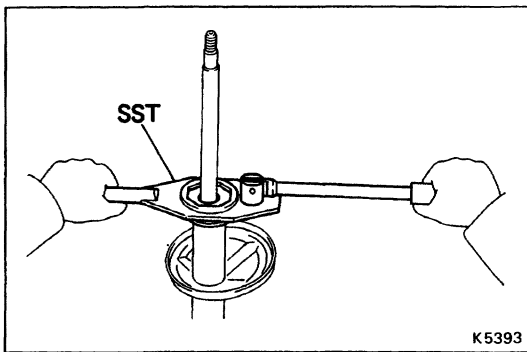


E5812

## INSPECTION OF SHOCK ABSORBER

### INSPECT OPERATION OF SHOCK ABSORBER

While pushing the piston rod check that the pull through-out the stroke is even, and there is no abnormal resistance or noise.

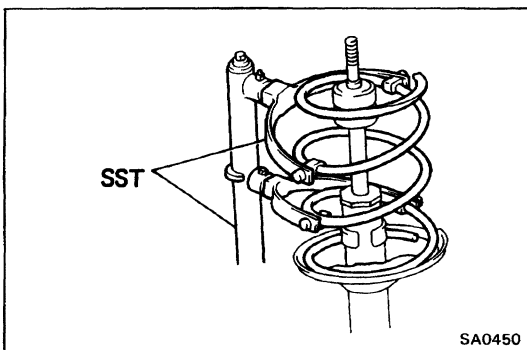


K5393

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 turns with SST to release the gas completely.

SST 09720-00012 (09721-00071)



SA0450

## INSTALLATION OF SHOCK ABSORBER

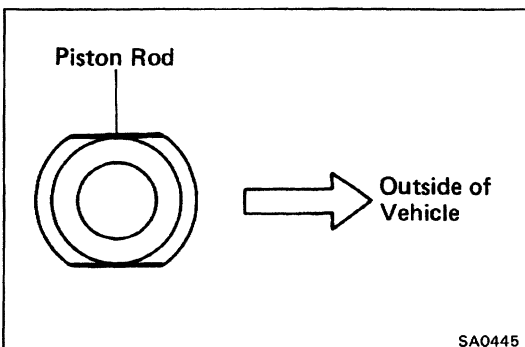
### 1. INSTALL BUMPER

### 2. INSTALL COIL SPRING

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

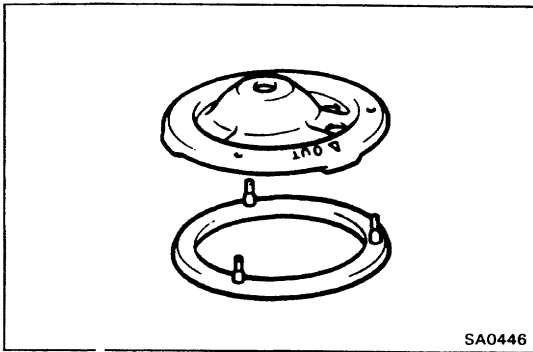
SST 09727-00045, 09727-30020

- (b) Align the coil spring end with the lower seat hollow and install the coil spring.

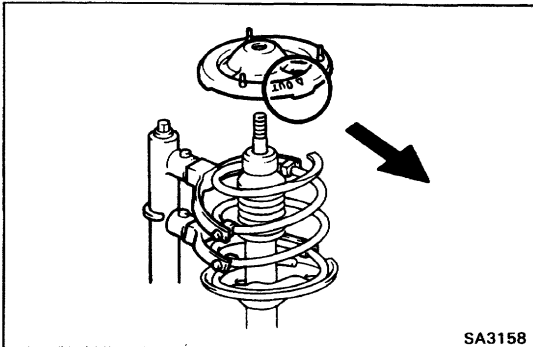


SA0445

- (c) Set the piston rod in the direction shown in the illustration.

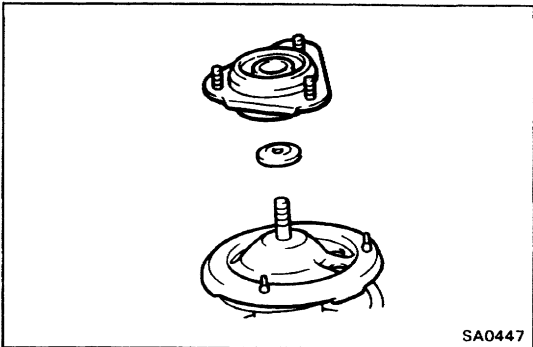


(d) Install the insulator to the spring upper seat.

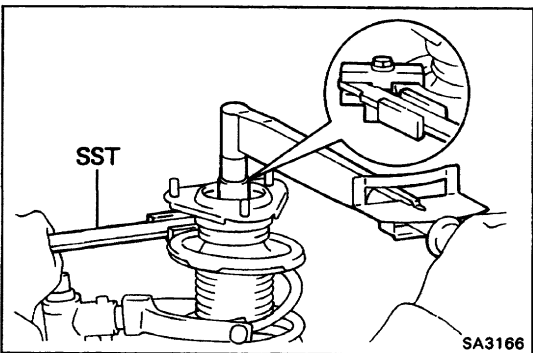


(e) Align the spring upper seat with the piston rod and install it.

HINT: Face the "OUT" mark of the spring upper seat toward the outside of the vehicle.



(f) Install the dust seal and suspension support.



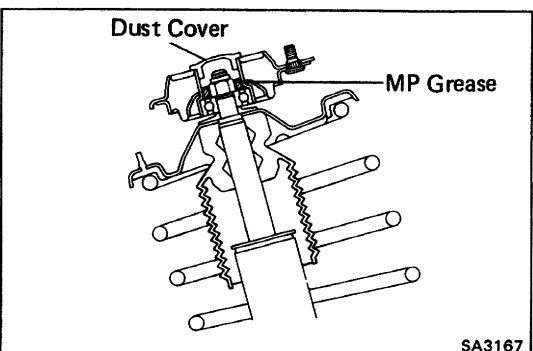
(g) Using SST, hold the spring upper seat.

SST 09729-22031

(h) Install and torque a new nut.

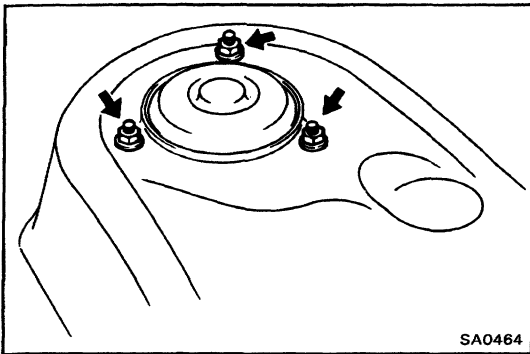
**Torque: 475 kg-cm (34 ft-lb, 47 N-m)**

(i) Remove SST.



(j) Pack the suspension support bearing with MP grease.

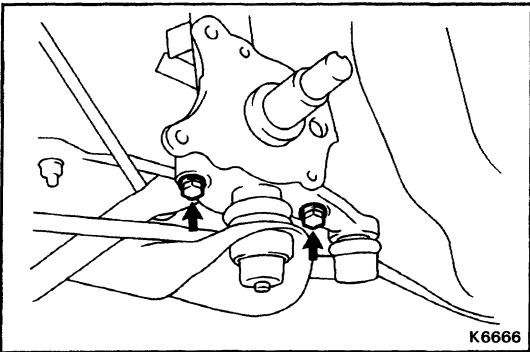
(k) Install the dust cover.



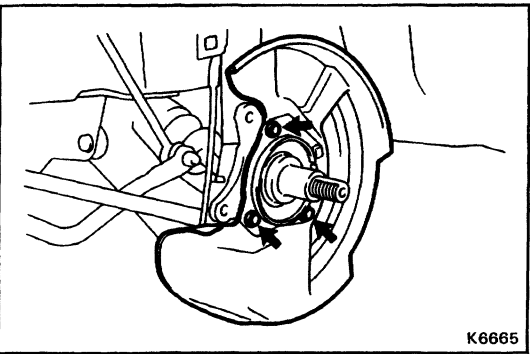
## INSTALLATION OF FRONT SHOCK ABSORBER WITH COIL SPRING

### 1. INSTALL SHOCK ABSORBER

- (a) Install the suspension support.  
Torque: 510 kg-cm (39 ft-lb, 50 N-m)



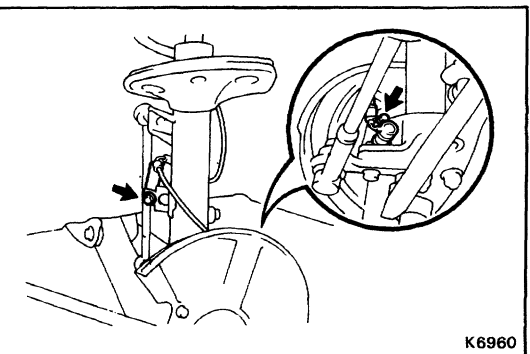
- (b) Connect the lower arm to the shock absorber.  
Torque: 1,100 kg-cm (80 ft-lb, 108 N-m)



### 2. INSTALL DUST COVER

Bolt: w/ ABS three bolts  
w/o ABS four bolts

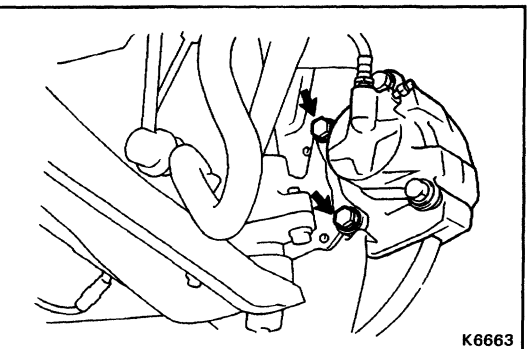
### 3. INSTALL FRONT AXLE HUB (See page SA-11)



### 4. (w/ ABS)

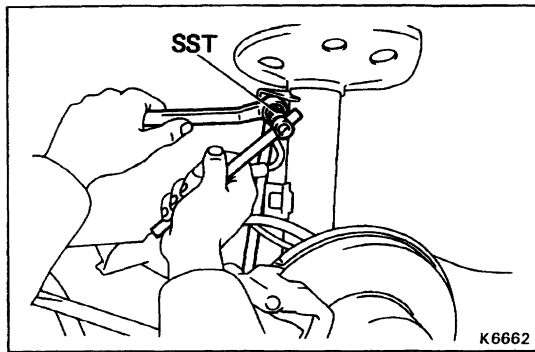
#### INSTALL SPEED SENSOR

- (a) Install the speed sensor.  
(b) Connect the wire harness to the shock absorber.



### 5. INSTALL DISC ROTOR AND BRAKE CALIPER

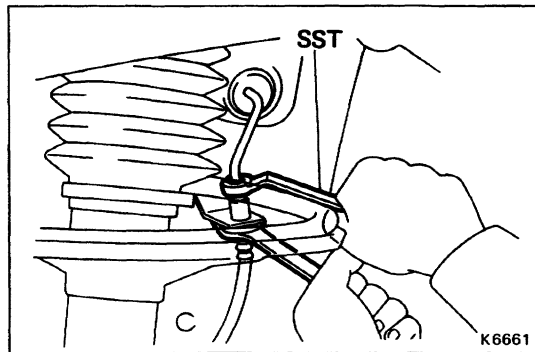
- (a) Align the matchmarks on the rotor and axle hub and install the disc rotor.  
(b) Install the brake caliper.  
Torque: 925 kg-cm (67 ft-lb, 91 N-m)

**6. CONNECT STABILIZER BAR LINK**

Using SST, connect the stabilizer bar link to shock absorber.

SST 09313-30021

**Torque: 970 kg-cm (70 ft-lb, 95 N-m)**

**7. CONNECT BRAKE TUBE**

(a) Using SST, connect the brake tube.

SST 09751-36011

(b) Install the two clips and E-ring.

**8. BLEED BRAKE SYSTEM****9. INSTALL FRONT WHEEL****10. CHECK FRONT WHEEL ALIGNMENT**

(See page [SA-3](#))