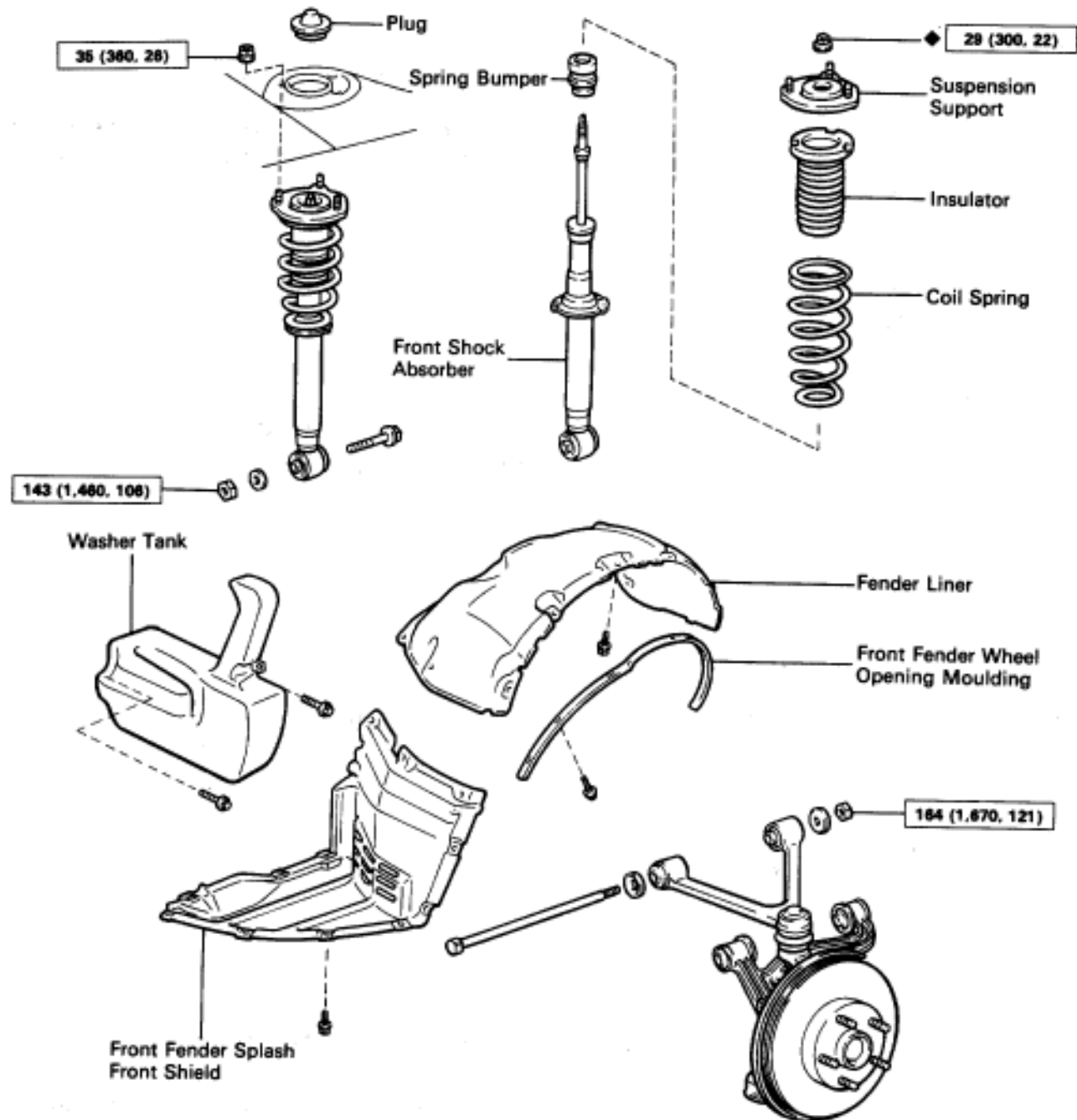


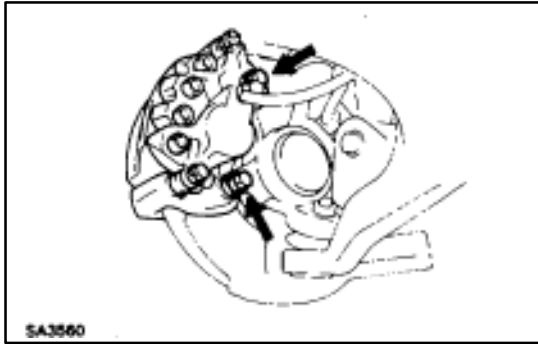
Front Shock Absorber COMPONENTS



N·m (kgf·cm, ft·lbf) : Specified torque

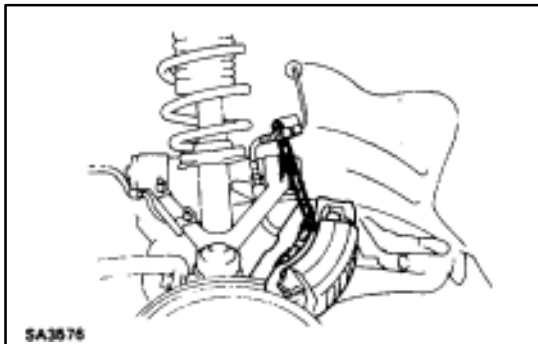
◆ **Non-reusable part**

N00887

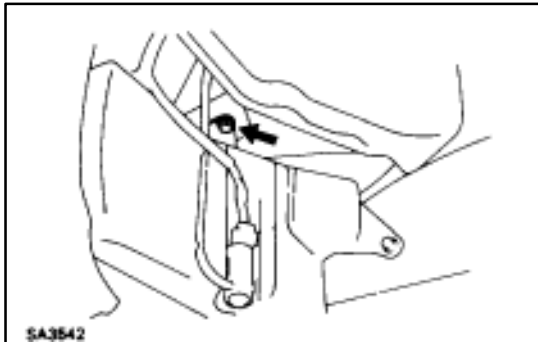


REMOVAL OF FRONT SHOCK ABSORBER

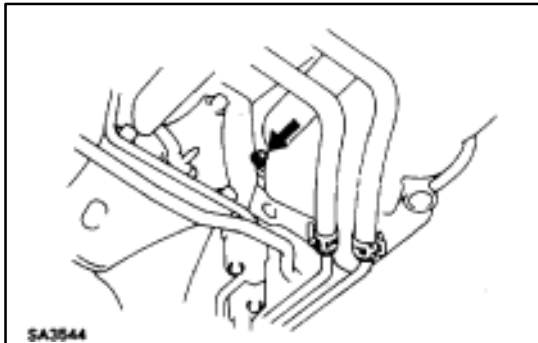
1. JACK UP VEHICLE AND REMOVE FRONT WHEEL
2. REMOVE DISC BRAKE CYLINDER
 - (a) Remove the two bolts and cylinder from the steering knuckle.



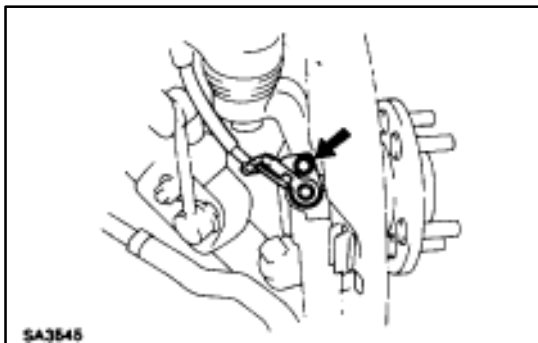
- (b) Hang up the brake cylinder using wire, etc.
3. REMOVE FENDER LINER, ENGINE UNDER COVER AND FRONT FENDER WHEEL OPENING MOULDING



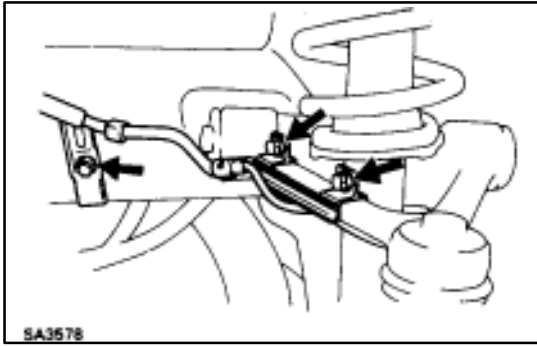
4. (LH SIDE)
DISCONNECT WASHER TANK
 - (a) Remove the bolt.



- (b) Loosen the bolt.



5. DISCONNECT ABS SPEED SENSOR AND WIREHARNES
 - (a) Remove the bolt and disconnect the speed sensor from the steering knuckle.



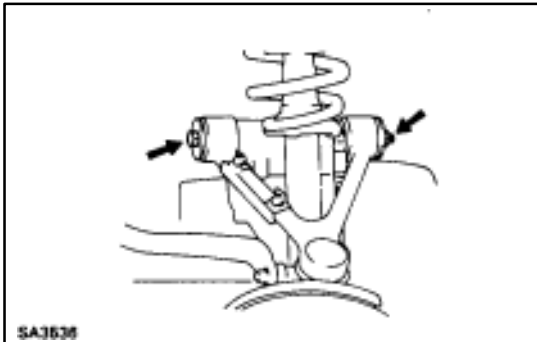
- (b) Remove the three bolts and disconnect the wireharness clamp to prevent the wireharness damaging when removing or installing the through bolt.



6. LOOSEN PISTON ROD LOCK NUT

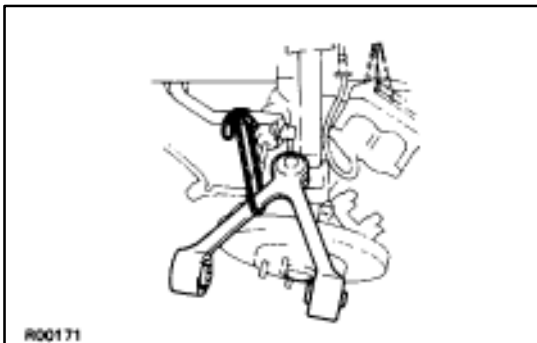
- (a) Remove the plug from the support.
 (b) Loosen the lock nut in the middle of the suspension support.

NOTICE: Only loosen the nut, do not remove it.

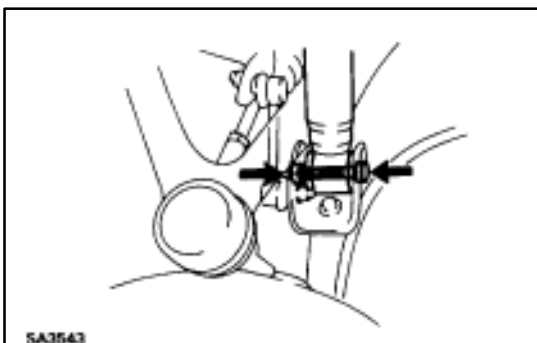


7. DISCONNECT UPPER SUSPENSION ARM

- (a) Remove the bolt and nut and disconnect the upper suspension arm from the member.

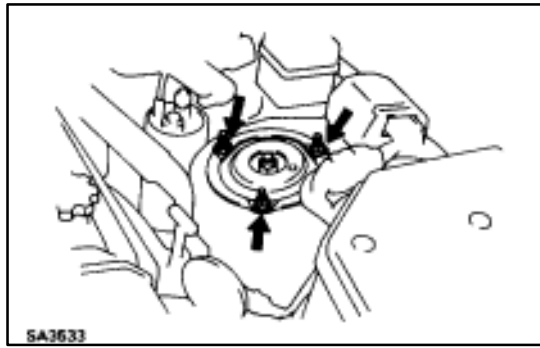


- (b) Hang up the upper suspension arm using wire, etc.

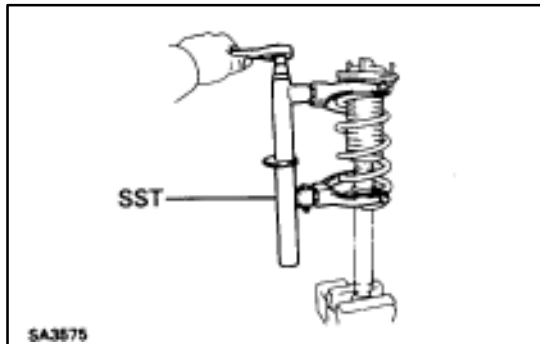


8. REMOVE SHOCK ABSORBER

- (a) Remove the bolt and nut and disconnect the shock absorber from the lower suspension arm.



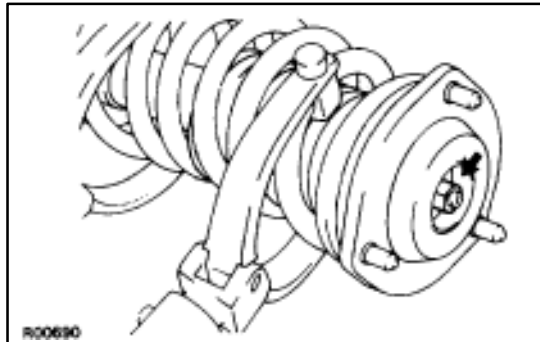
- (b) Remove three nuts and shock absorber from the body.



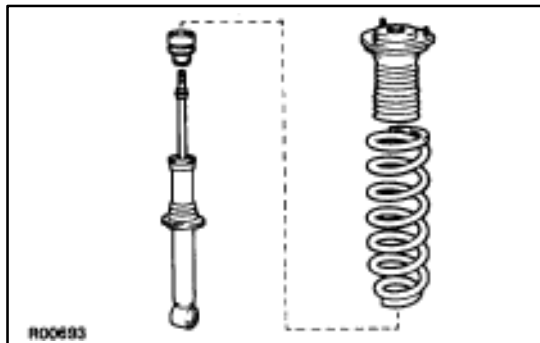
DISASSEMBLY OF FRONT SHOCK ABSORBER

1. REMOVE SUSPENSION SUPPORT AND COIL SPRING

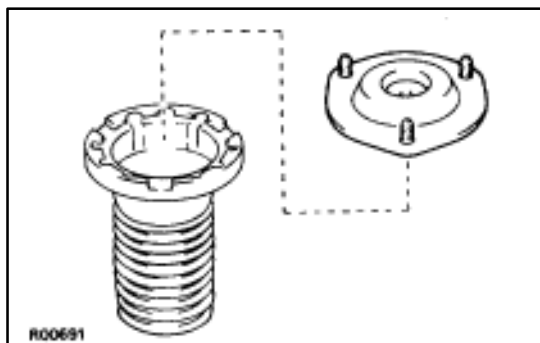
- (a) Using SST, compress the coil spring.
SST 09727-30020



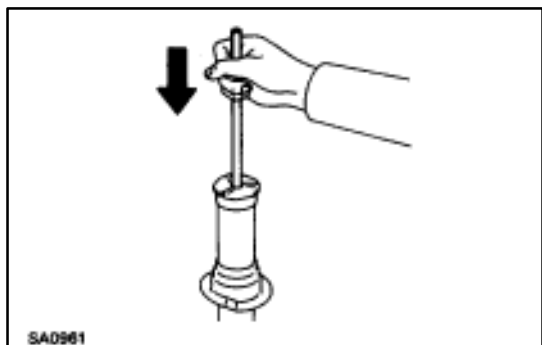
- (b) Remove the suspension support center nut.



- (c) Remove the suspension support, coil spring and spring bumper.



2. REMOVE INSULATOR FROM SUSPENSION SUPPORT



INSPECTION OF FRONT SHOCK ABSORBER

1. INSPECT SHOCK ABSORBER

Compress and extend the shock absorber rod and check that there is no abnormal resistance or unusual operation sounds.

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

NOTICE: When discarding the shock absorber, use the following procedure.

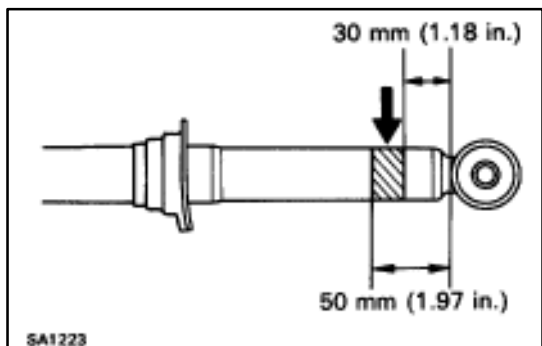
DISPOSAL OF FRONT SHOCK ABSORBER

1. FULLY EXTEND SHOCK ABSORBER ROD

2. DRILL HOLE TO REMOVE GAS FROM CYLINDER

Using a drill, make a hole in the cylinder as shown to remove the gas inside.

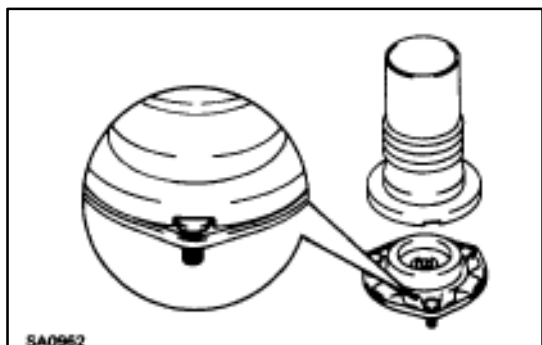
CAUTION: The gas coming out is harmless, but be careful of chips which may fly up when drilling.



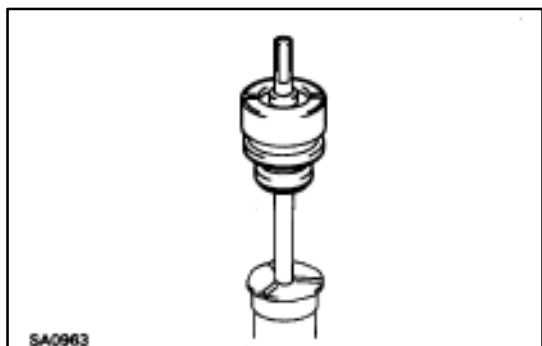
ASSEMBLY OF FRONT SHOCK ABSORBER

1. INSTALL INSULATOR TO SUSPENSION SUPPORT

HINT: Match the bolt of the suspension support with the cut-out part of the insulator.



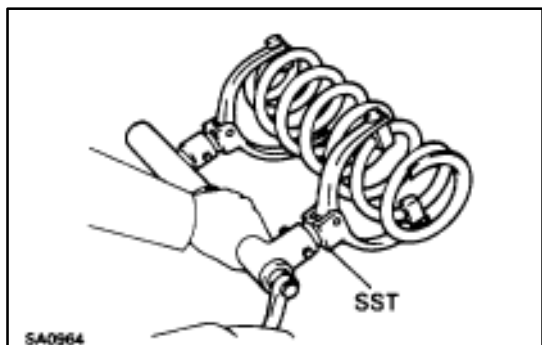
2. INSTALL SPRING BUMPER TO SHOCK ABSORBER

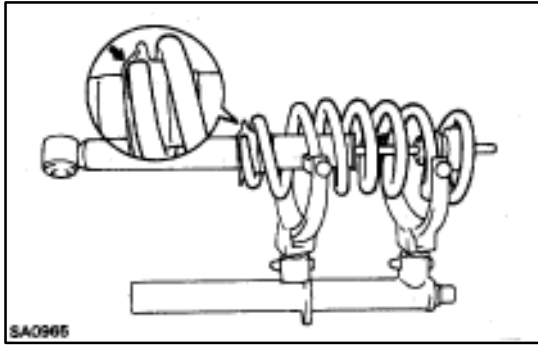


3. INSTALL COIL SPRING TO SHOCK ABSORBER

(a) Using SST, compress the coil spring.

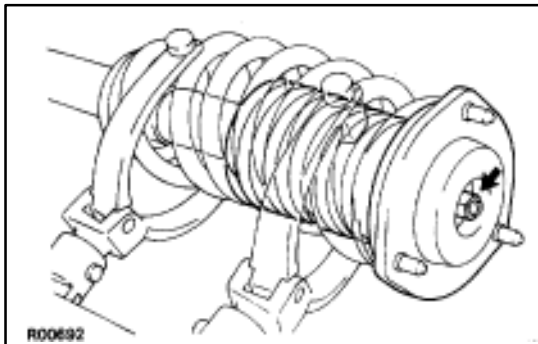
SST 09727-30020





(b) Install the coil spring to the shock absorber.

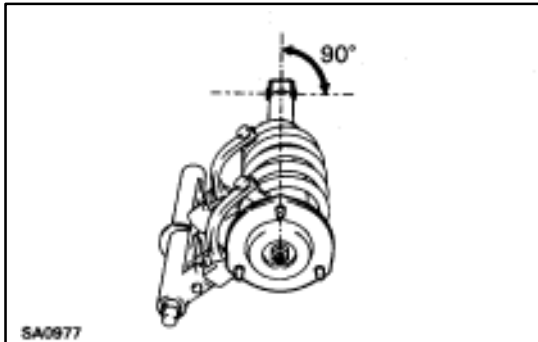
HINT: Fit the lower end of the coil spring into the gap of the spring seat of the shock absorber.



4. INSTALL SUSPENSION SUPPORT

(a) Install the suspension support to the rod.

(b) Temporarily tighten a new nut.

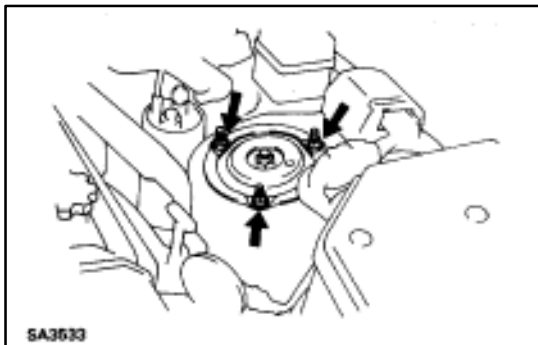


(c) Turn the suspension support so that one of the bolts on the suspension support faces the same direction as shown in the figure.

HINT: Align the bolt so that a line drawn between the rod and the bolt would be 90° to the direction of the lower bushing.

5. REMOVE SST

HINT: After removing the SST, again check the direction of the suspension support.

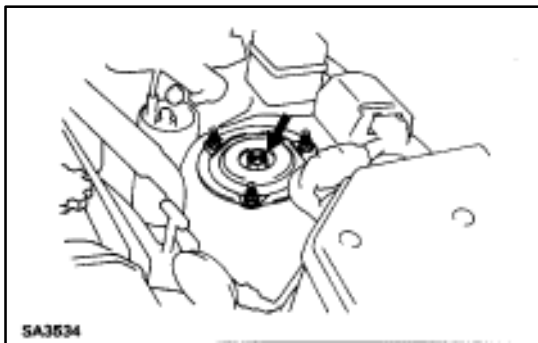


INSTALLATION OF FRONT SHOCK ABSORBER

1. INSTALL SHOCK ABSORBER TO BODY

(a) Install the shock absorber with coil spring to the body with the three nuts.

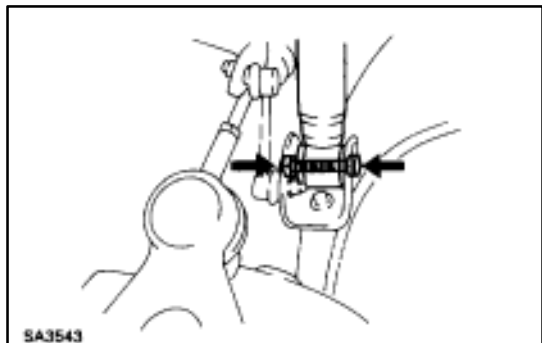
Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)



(b) Torque the temporarily tightened nut in the middle of the suspension support.

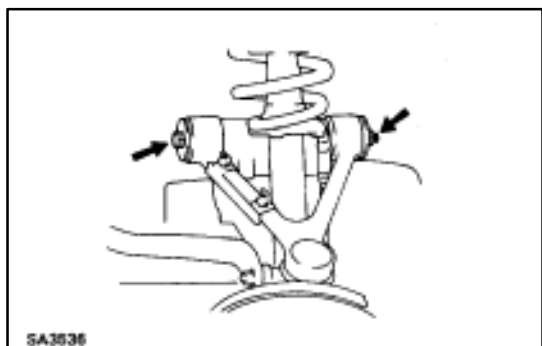
Torque: 35 N·m (360 kgf·cm, 26 ft·lbf)

(c) Install the plug to the suspension support.



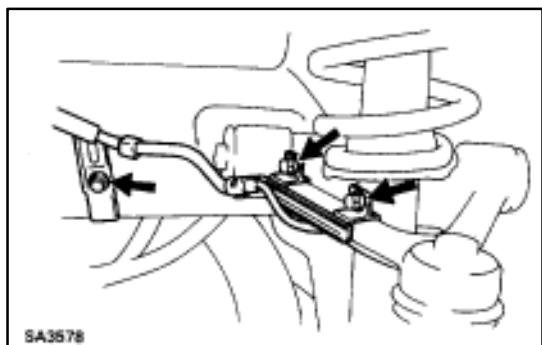
2. CONNECT SHOCK ABSORBER TO LOWER SUSPENSION ARM

- (a) Connect the shock absorber to lower suspension arm.
- (b) Insert the bolt from the vehicle's rear temporarily tighten the nut.



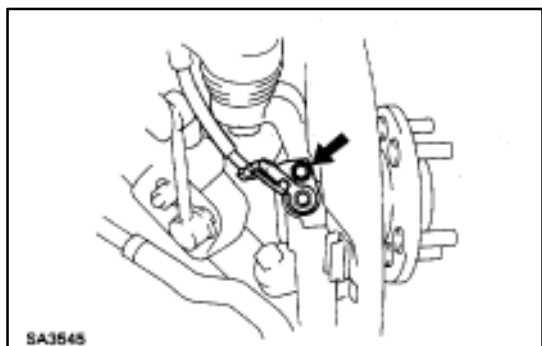
3. TEMPORARILY CONNECT UPPER SUSPENSION ARM TO MEMBER

- (a) Connect the upper suspension arm to the suspension member.
- (b) Insert the bolt from the vehicle's front temporarily tighten the bolt and nut.



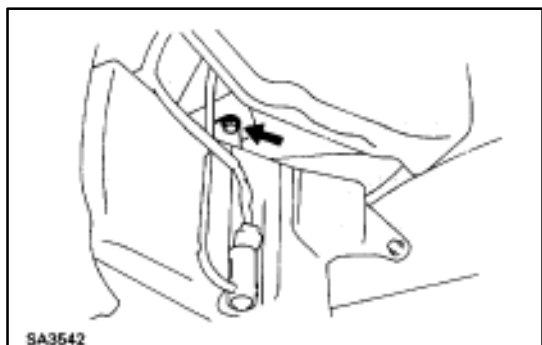
4. CONNECT ABS SPEED SENSOR AND WIREHARNESS

- (a) Connect the wireharness to the upper suspension arm and body with the three bolts.



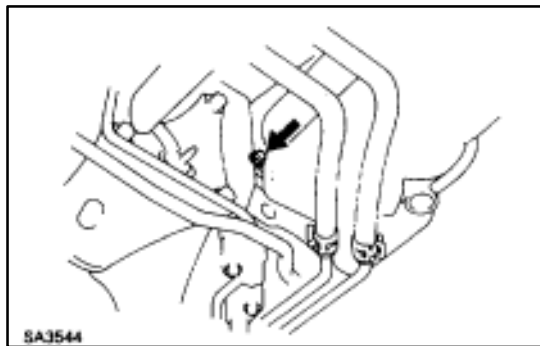
- (b) Connect the speed sensor to the steering knuckle with the bolt.

Torque: 7.8 N·m (80 kgf·cm, 69 in.·lbf)



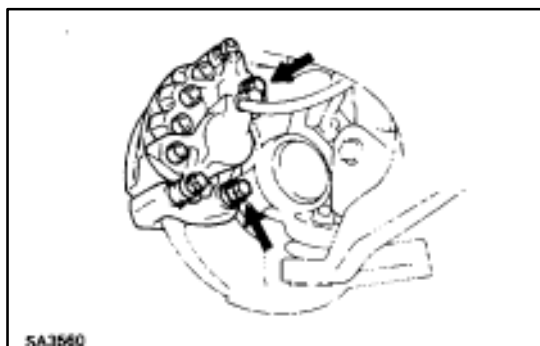
5. (LH SIDE) CONNECT WASHER TANK

- (a) Install and tighten the bolt.



(b) Install and tighten the bolt.

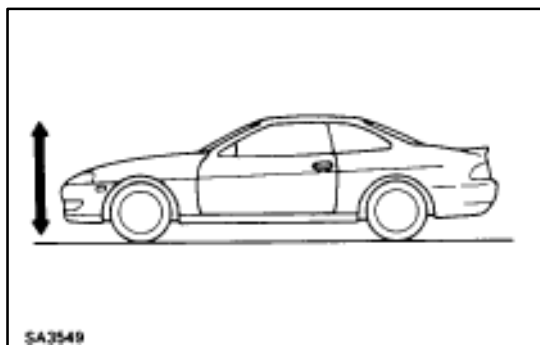
6. INSTALL FENDER LINER, ENGINE UNDER COVER AND FRONT FENDER WHEEL OPENING MOULDING



7. INSTALL DISC BRAKE CYLINDER

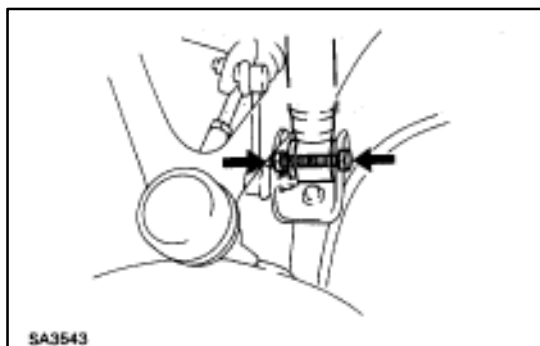
Install the disc brake cylinder to the steering knuckle with the two bolts.

Torque: 118 N·m (1,200 kgf·cm, 87 ft·lbf)



8. STABILIZE SUSPENSION

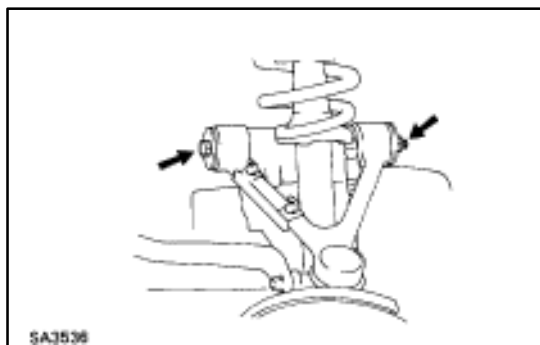
- (a) Install the front wheel and lower vehicle.
- (b) Bounce the vehicle up and down several times to stabilize the suspension.
- (c) Jack up vehicle and remove the front wheel.



9. TIGHTEN BOLT AND NUT ON LOWER SIDE OF SHOCK ABSORBER

- (a) Support the lower arm with a jack.
- (b) Tighten the nut to the specified torque.

Torque: 143 N·m (1,460 kgf·cm, 106 ft·lbf)



10. TIGHTEN BOLT AND NUT OF UPPER SUSPENSION ARM

Tighten the bolt and nut to the specified torque.

Torque: 164 N·m (1,670 kgf·cm, 121 ft·lbf)

11. INSTALL FRONT WHEEL AND LOWER VEHICLE

Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

12. CHECK FRONT WHEEL ALIGNMENT

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