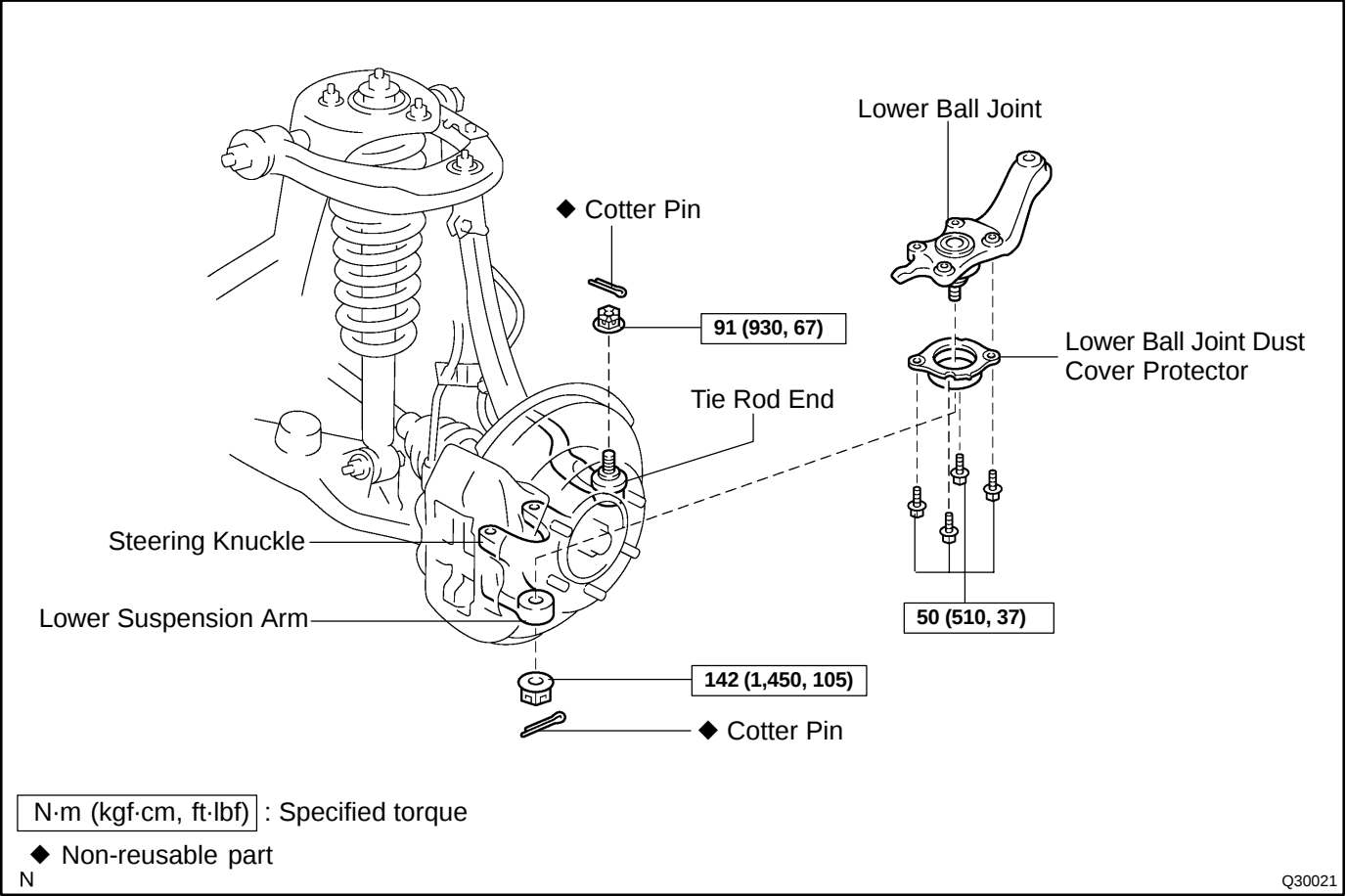
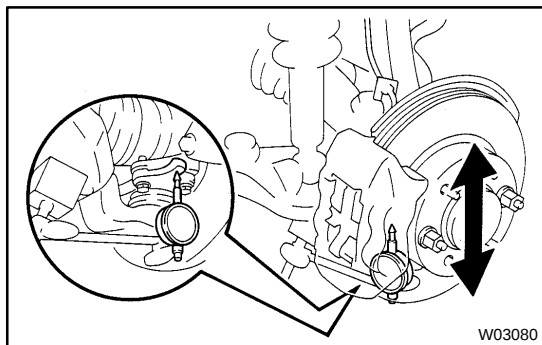


COMPONENTS



Q30021



FRONT LOWER BALL JOINT ON-VEHICLE INSPECTION

SA060-01

INSPECT LOWER BALL JOINT EXCESSIVE PLAY ON-VEHICLE

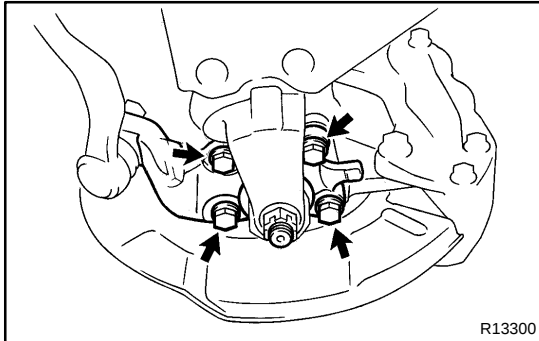
- (a) Remove the tire and install the hub nuts to the disc.
- (b) Using a dial indicator, check the lower ball joint for excessive play when you push the hub nuts up and down with a force of 294 N (30 kgf, 66 lbf).

Maximum: 0.5 mm (0.020 in.)

REMOVAL

1. REMOVE FRONT WHEEL

Torque: 110 N·m (1,150 kgf·cm, 83 ft·lbf)



2. LOOSEN 4 LOWER BALL JOINT SET BOLTS

HINT:

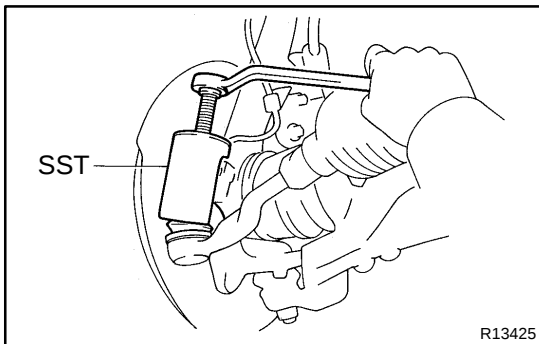
Do not remove the bolts.

Torque: 50 N·m (510 kgf·cm, 37 ft·lbf)

3. DISCONNECT TIE ROD END

- (a) Remove the cotter pin and nut from the tie rod end.

Torque: 91 N·m (930 kgf·cm, 67 ft·lbf)



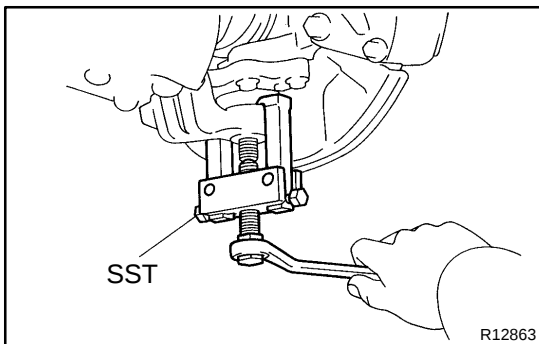
- (b) Using SST, disconnect the tie rod end from the steering knuckle.

SST 09610-20012

4. REMOVE LOWER BALL JOINT

- (a) Remove the cotter pin and nut from the lower ball joint.

Torque: 142 N·m (1,450 kgf·cm, 105 ft·lbf)



- (b) Using SST, disconnect the lower ball joint from the lower suspension arm.

SST 09628-6201 1

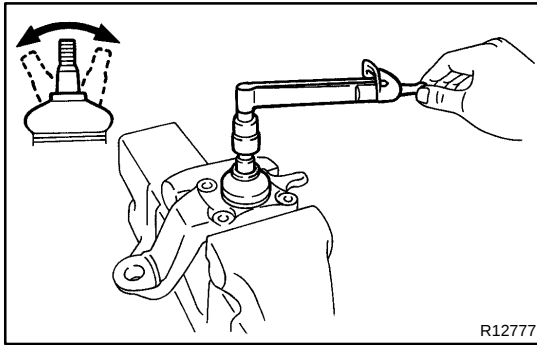
HINT:

At the time of installation, face the cotter pin hole of the lower ball joint forward.

- (c) Remove the 4 bolts.
(d) With lifting the upper suspension arm and steering knuckle, remove the lower ball joint and lower ball joint dust cover protector.

HINT:

After removing the lower ball joint, support the upper suspension arm and steering knuckle securely.



INSPECTION

INSPECT BALL JOINT FOR ROTATION CONDITION

- As shown, flip the ball joint stud back and forth 5 times, before installing the nut.
- Using a torque wrench, turn the nut continuously one turn each 2 - 4 seconds and take the torque reading on the 5th turn.

Turning torque:

0.1 - 2.5 N·m (1 - 25 kgf·cm, 0.8 - 21.7 in.·lbf)

INSTALLATION

Installation is in the reverse order of removal (See page [SA-73](#)).

HINT:

After installation, check the front wheel alignment (See page [SA-5](#)).