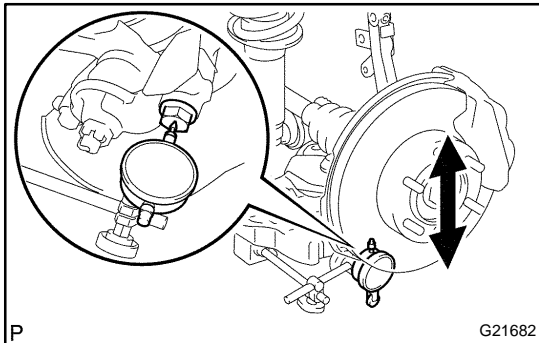


# FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH OVERHAUL

HINT:

COMPONENTS: See page 26-3

## 1. REMOVE FRONT DISC WHEEL



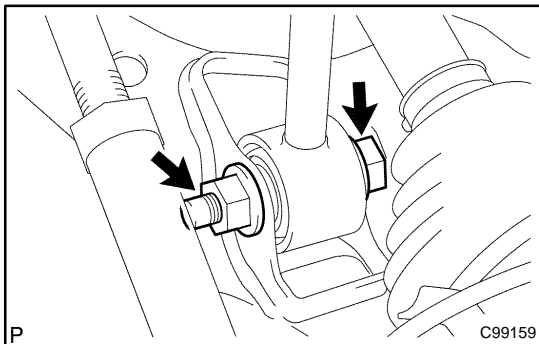
## 2. INSPECT FRONT SUSPENSION ARM SUB- ASSY LOWER NO.1 LH

- Install the hub nuts to the disc.
- 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.)**

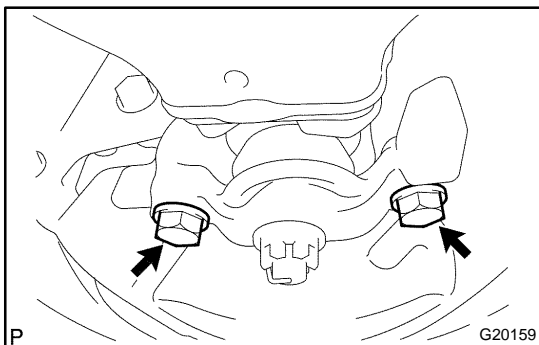
HINT:

If it is not within the specification, replace the lower arm.



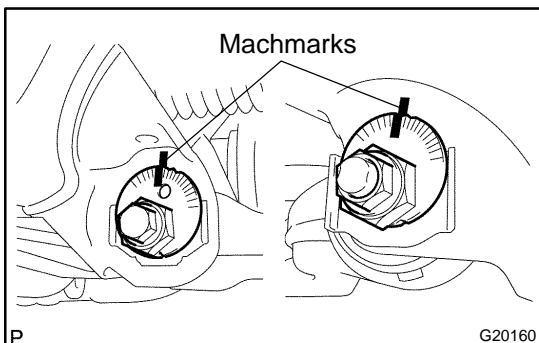
## 3. SEPARATE FRONT SHOCK ABSORBER WITH COIL SPRING

- Remove the bolt, nut and washer.
- Separate the front shock absorber with coil spring from the suspension lower arm.

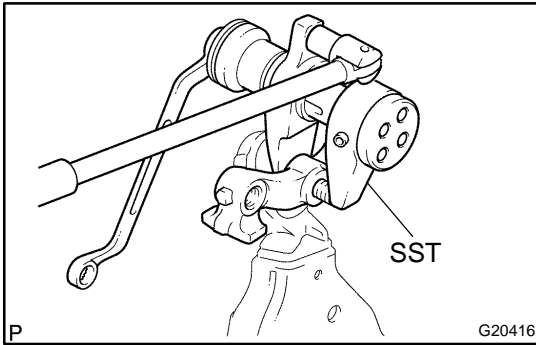


## 4. REMOVE FRONT SUSPENSION ARM SUB- ASSY LOWER NO.1 LH

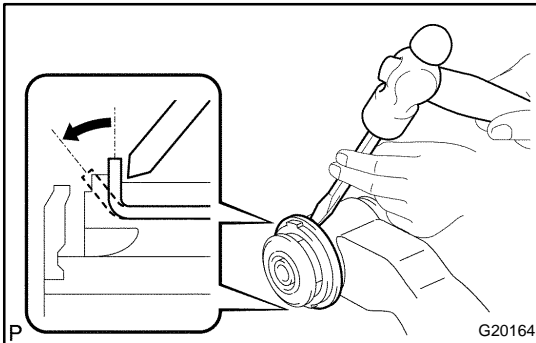
- Remove the 2 bolts, and separate the front lower ball joint attachment LH from the front axle.



- Place matchmarks on the camber adjust cam No.2 and toe adjust cam sub-assy.
- Remove the nut, camber adjust cam No.2, camber adjust cam assy, bolt, toe adjust cam sub-assy, toe adjust plate No.2 and front suspension arm sub-assy lower No.1 LH.

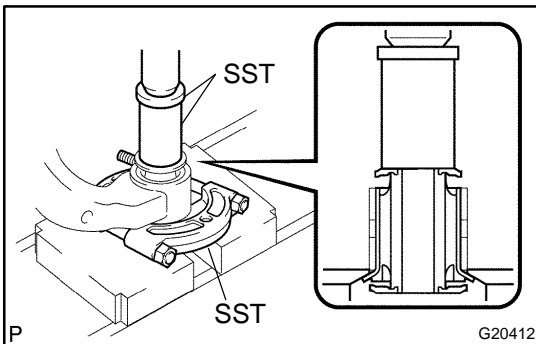


- (d) Remove the cotter pin and the nut.
  - (e) Using SST, remove the front lower ball joint attachment LH.
- SST 09628-0001 1

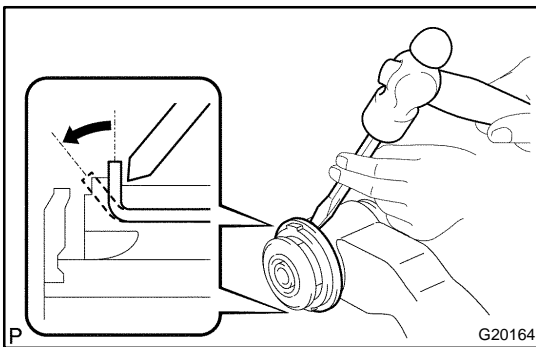


#### 5. REMOVE FRONT LOWER ARM BUSH NO.1 LH

- (a) Using a hammer and a chisel, raise the flange of the bushing diagonally as shown in the illustration.

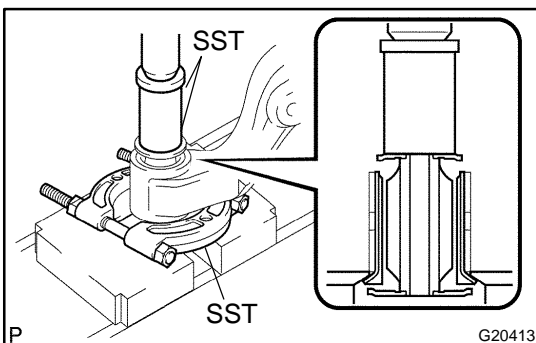


- (b) Using SST and a press, remove the lower arm bush No.1 LH.
- SST 09632-36010, 09950-00020, 09950-60010 (09951-00400)

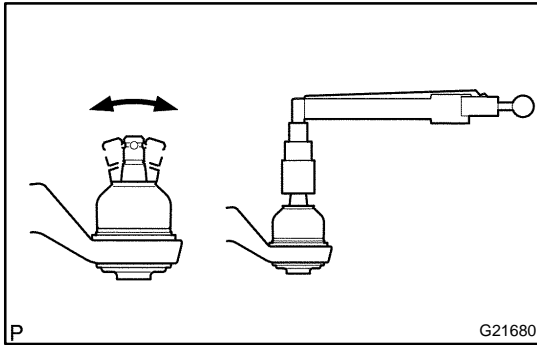


#### 6. REMOVE FRONT LOWER ARM BUSH NO.2 LH

- (a) Using a hammer and a chisel, raise the flange of the bushing diagonally as shown in the illustration.



- (b) Using SST and a press, remove the lower arm bush No.2 LH.
- SST 09632-36010, 09950-00020, 09950-60010 (09951-00400)



## 7. INSPECT FRONT SUSPENSION ARM SUB- ASSY LOWER NO.1 LH

- As shown in the illustration, flip the ball joint stud back and forth 5 times, before installing the nut.
- Using a torque wrench, turn the nut continuously at a rate of 2 - 4 seconds per 1 turn and take the torque reading on the 5th turn.

**Turning torque: 3.0 N·m (31 kgf·cm, 27 in·lbf) or less**

- Check for any cracks and grease leaks on the ball joint dust cover.

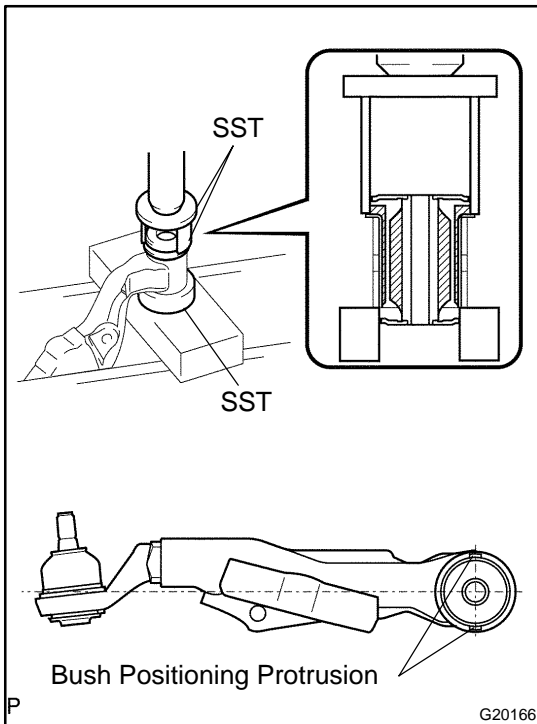
## 8. INSTALL FRONT LOWER ARM BUSH NO.2 LH

- Using SST and a press, install a new lower arm bush No.2 LH.

SST 09710-26010 (09710-05081), 09950-60020 (09951-00890)

### NOTICE:

**Press the lower arm bush No.2 in the lower arm at the bush positioning protrusions become perpendicular to the lower arm as shown in the illustration.**



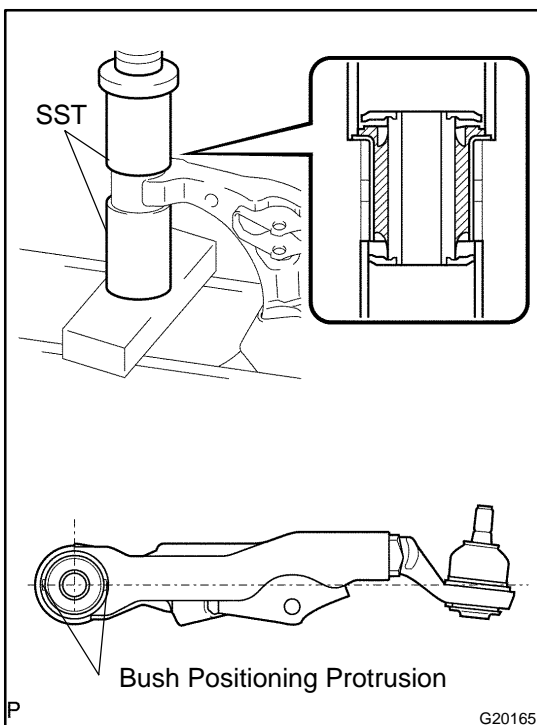
## 9. INSTALL FRONT LOWER ARM BUSH NO.1 LH

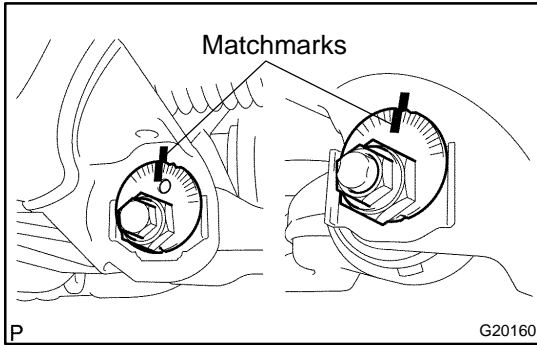
- Using SST and a press, install a new lower arm bush No.1 LH.

SST 09223-00010, 09612-30012

### NOTICE:

**Press the lower arm bush No.1 in the lower arm at the bush positioning protrusions become parallel with the lower arm as shown in the illustration.**

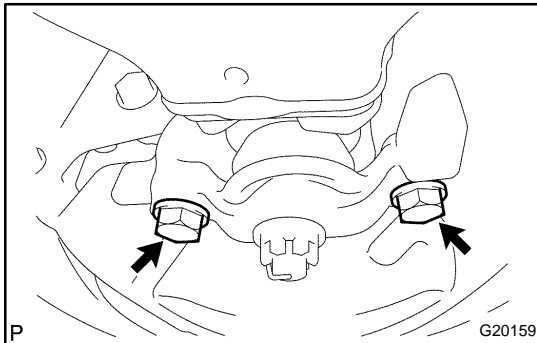




**10. TEMPORARILY TIGHTEN FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH**

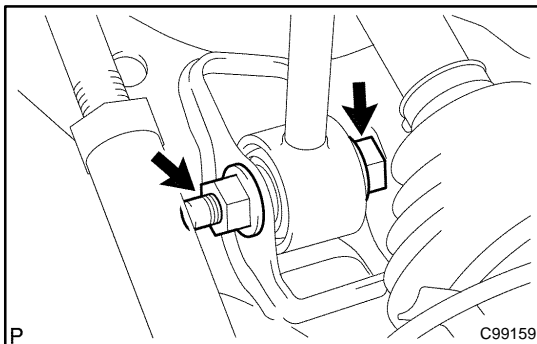
- (a) Align the matchmarks on the camber adjust cam No.2 and toe adjust cam sub-assy, temporarily tighten the bolt and the nut.
- (b) Install the front lower ball joint attachment LH, a new nut and a new cotter pin.

**Torque: 140 N·m (1430 kgf·cm, 103 ft·lbf)**



- (c) Install the front lower ball joint attachment LH with the 2 bolts.

**Torque: 225 N·m (2,290 kgf·cm, 166 ft·lbf)**



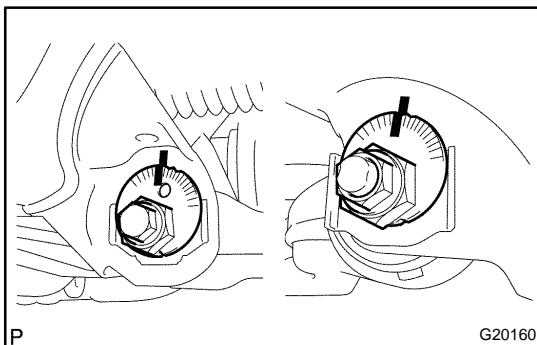
**11. TEMPORARILY TIGHTEN FRONT SHOCK ABSORBER WITH COIL SPRING**

- (a) Install the front shock absorber with coil spring, the bolt and the washer, and temporarily tighten the nut.

**12. INSTALL FRONT DISC WHEEL**

**Torque: 112 N·m (1,140 kgf·cm, 83 ft·lbf)**

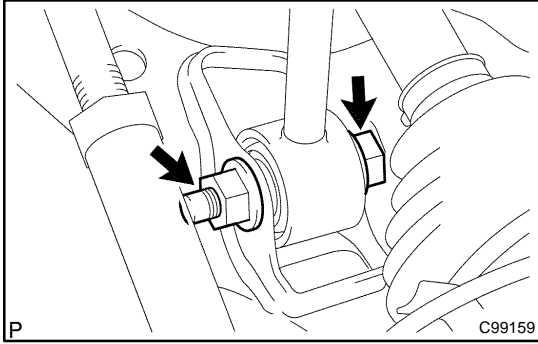
**13. STABILIZE SUSPENSION (See page 26-12 )**



**14. FULLY TIGHTEN FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH**

- (a) Fully tighten the bolt and the nut.

**Torque: 135 N·m (1,380 kgf·cm, 100 ft·lbf)**

**15. FULLY TIGHTEN FRONT SHOCK ABSORBER WITH COIL SPRING**

(a) Fully tighten the nut.

**Torque: 135 N·m (1,380 kgf·cm, 100 ft·lbf)**

**16. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page [26-7](#) )**