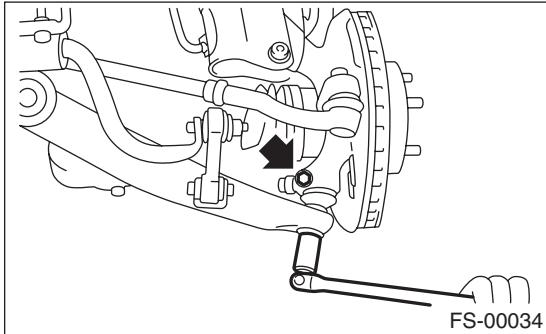


## 5. Front Ball Joint

### A: REMOVAL

- 1) Remove the front wheel.
- 2) Pull out the cotter pin from the ball stud, remove the castle nut, and extract the ball stud from the transverse link.
- 3) Remove the bolt securing the ball joint to the housing.



- 4) Extract the ball joint from the housing.

### B: INSTALLATION

- 1) Install the ball joint onto the housing.

#### Torque (Bolt):

50 N·m (5.1 kgf-m, 37 ft-lb)

#### CAUTION:

Do not apply grease to the tapered portion of ball stud.

- 2) Connect the ball joint to transverse link.

#### Torque (Castle nut):

**Sedan turbo model:**

30 N·m (3.1 kgf-m, 22ft-lb)

**Except sedan turbo model:**

45 N·m (4.6 kgf-m, 33ft-lb)

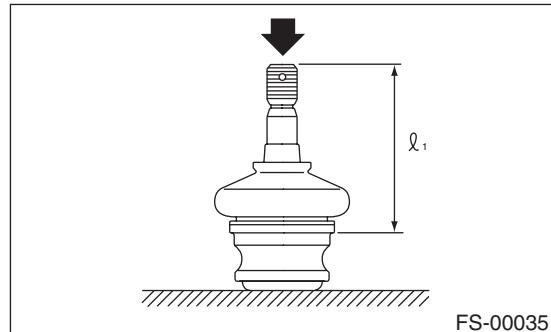
- 3) Retighten the castle nut further within 60° until a slot in castle nut is aligned with the hole in ball stud end, then insert the new cotter pin and bend it around castle nut.

- 4) Install the front wheel.

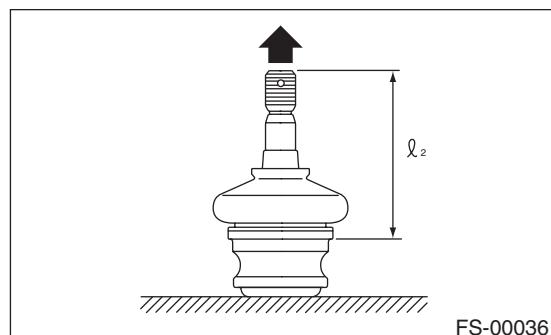
### C: INSPECTION

1) Measure the play of ball joint by the following procedures. Replace with a new one when the play exceeds the specified value.

(1) With 686 N (70 kgf, 154 lb) loaded in the direction shown in the figure, measure dimension  $\ell_1$ .



(2) With 686 N (70 kgf, 154 lb) loaded in the opposite direction shown in the figure, measure dimension  $\ell_2$ .



(3) Calculate plays from the following formula.

$$S = \ell_2 - \ell_1$$

(4) When plays are larger than the following value, replace with a new one.

### FRONT BALL JOINT

#### Specified play for replacement: S

**Less than 0.3 mm (0.012 in)**

- 2) When the play is smaller than the specified value, visually inspect the dust cover.
- 3) The ball joint and cover that have been removed must be checked for wear, damage or cracks, and any defective part must be replaced.
- 4) If the dust cover is damaged, replace with a new ball joint.