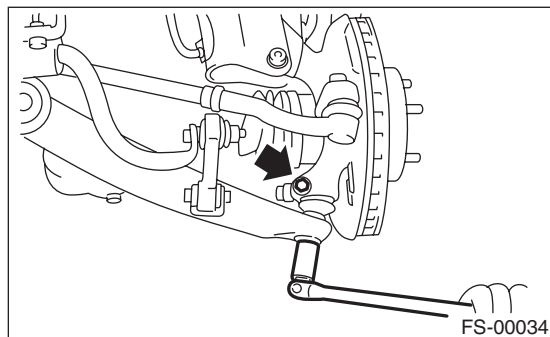


4. Front Ball Joint

A: REMOVAL

- 1) Remove the wheels.
- 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 bolts which secure the ball joint to the housing.



- 4) Extract the ball joint from housing.

B: INSTALLATION

- 1) Insert the ball joint into housing.

Tightening 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.

Tightening torque (Castle nut):

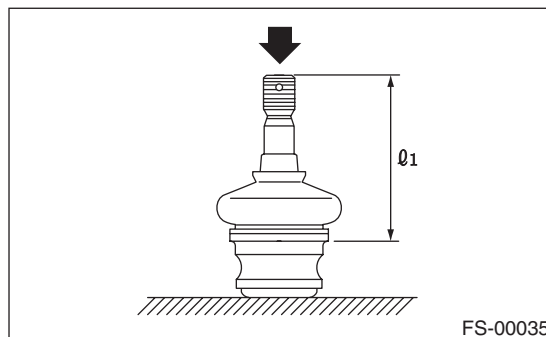
40 N·m (4.1 kgf-m, 30 ft-lb)

- 3) Tighten the castle nut further but within 60° until the hole in ball stud is aligned with a slot in castle nut. Then, insert a new cotter pin and bend it around the castle nut.
- 4) Install the front wheels.

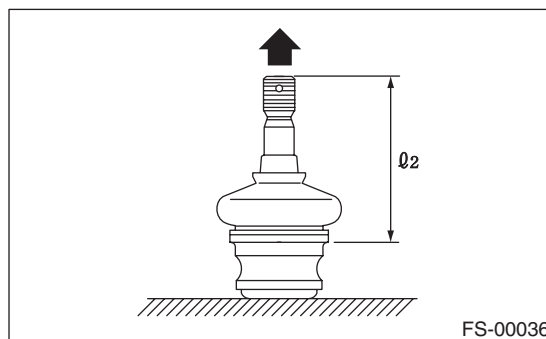
C: INSPECTION

- 1) Measure the play of the ball joint using the following procedures. Replace with a new part if the play exceeds the specified value.

- (1) While applying 686 N (70 kgf, 154 lb) of force in the direction shown in the figure, measure dimension \varnothing_1 .



- (2) While applying 686 N (70 kgf, 154 lb) of force in the direction shown in the figure, measure dimension \varnothing_2 .



- (3) Determine free play using the following formula.

$$S = \varnothing_2 - \varnothing_1$$

- (4) Replace with a new part if the play exceeds the specified value.

Front ball joint

Specification for replacement: S

Less than 0.3 mm (0.012 in)

- 2) If the play is within specification, visually check the dust cover.
- 3) Remove the ball joint and cover, and check for wear, damage or cracks. If any damage is found, replace the corresponding part.
- 4) If the dust cover is damaged, replace with a new ball joint.