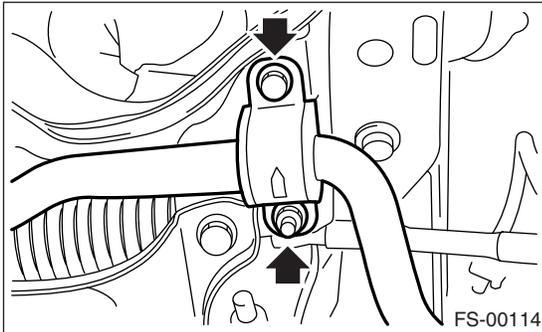


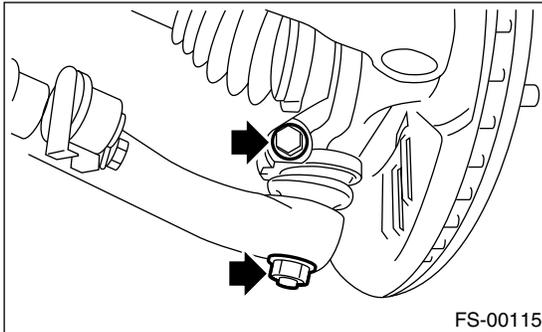
5. Front Ball Joint

A: REMOVAL

- 1) Lift-up the vehicle and remove the front wheels.
- 2) Remove the both sides of stabilizer bracket.



- 3) Pull out the pin from ball stud, remove the castle nut, and extract the ball stud from front arm.
- 4) Remove the bolt installing ball joint to housing.



- 5) 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, 36.9 ft-lb)

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

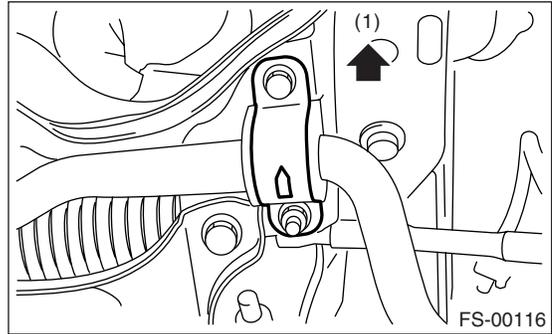
- 2) Install the ball joint into front arm.

Tightening torque (Castle nut)
Front arm:
39 N-m (4.0 kgf-m, 28.8 ft-lb)

- 3) Retighten the castle nut further 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 castle nut.
- 4) Install the stabilizer bracket.

NOTE:

Stabilizer bracket has an orientation, so install it with the arrow mark faced to the front side of vehicle.



- (1) Front side of vehicle

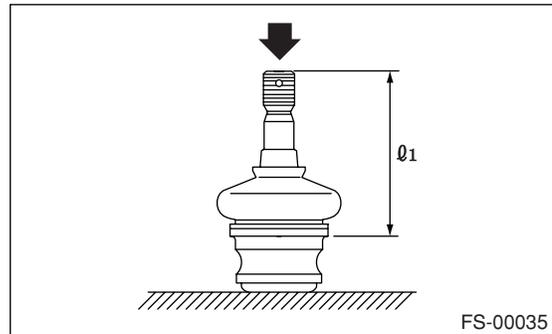
Tightening torque:
25 N-m (2.5 kgf-m, 18.1 ft-lb)

- 5) Install the front wheels.

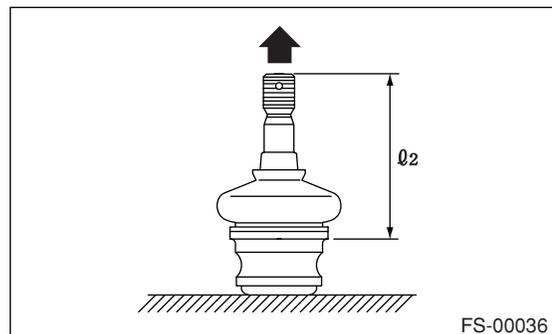
C: INSPECTION

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

- (1) With 686 N (70 kgf, 154 lb) loaded in direction shown in the figure, measure the dimension l_1 .



- (2) With 686 N (70 kgf, 154 lb) loaded in direction shown in the figure, measure the dimension l_2 .



- (3) Determine the plays from the following formula. $S = l_2 - l_1$

- (4) Replace with a new one when the play exceeds specified value.

FRONT BALL JOINT

Specified play for replacement S:

Less than 0.3 mm (0.012 in)

- 2) When the play is within specified value, visually check the dust cover.
- 3) Remove the ball joint and cover, check them for wear, damage or cracks, and then replace them if any defective part is found.
- 4) If the dust cover is damaged, replace with a new ball joint.