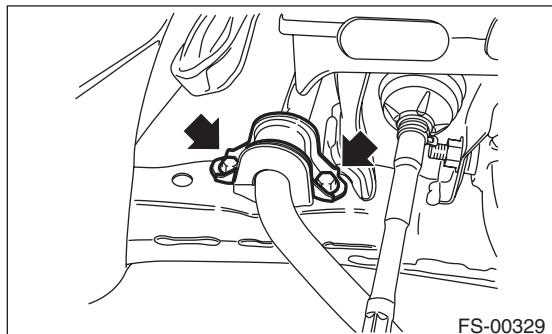


5. Front Ball Joint

A: REMOVAL

- 1) Lift up the vehicle, and then remove the front wheels.
- 2) Remove the left and right stabilizer brackets.



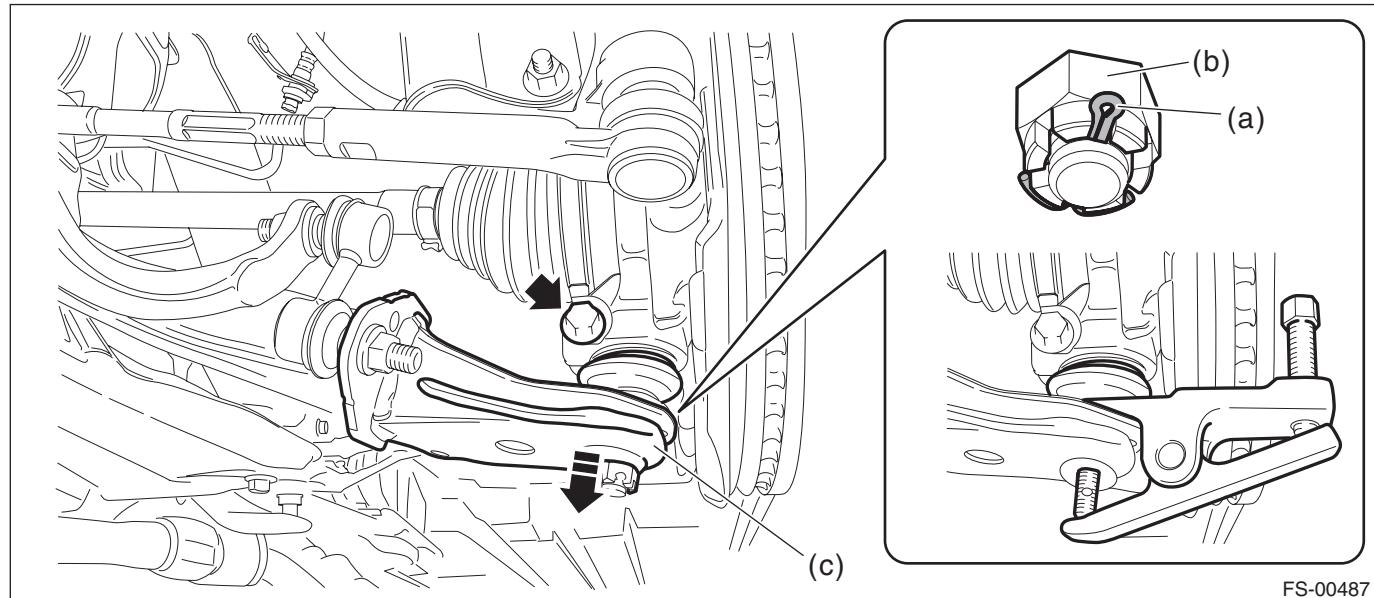
- 3) Remove the ball joint.
 - (1) Extract the cotter pin (a) from the ball stud.
 - (2) Remove the castle nut (b).
 - (3) Extract the ball stud from the front arm (c).
 - (4) Remove the bolt securing the ball joint to the front axle housing.

CAUTION:

Be careful not to damage the boot during removal.

Preparation tool:

Tie-rod ball joint puller



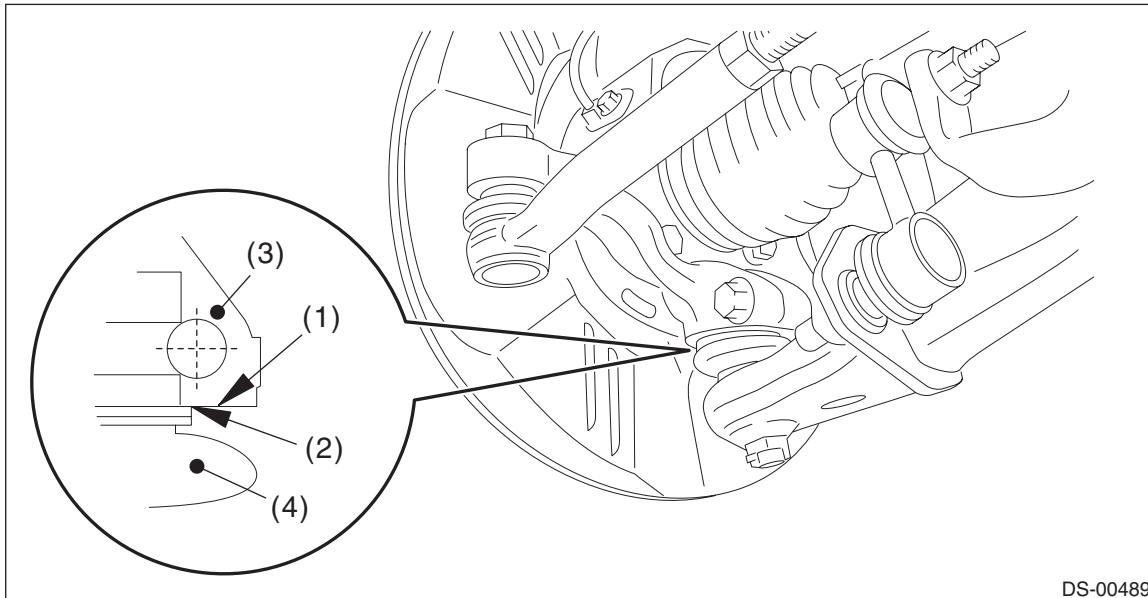
- (5) Extract the ball joint from the front axle housing.

B: INSTALLATION

1) Install the ball joint to the front axle housing.

CAUTION:

- Do not apply grease to the tapered portion of ball stud.
- Before tightening, make sure the lower side of front axle housing and stepped section of ball joint are in contact.



(1) Lower side of front axle housing

(3) Front axle housing

(4) Ball joint boot

(2) Raised section of ball joint

Tightening torque:

50 N·m (5.1 kgf-m, 36.9 ft-lb)

2) Install the ball joint into front arm.

(1) Connect the ball joint to the front arm.

Tightening torque:

39 N·m (3.98 kgf-m, 28.8 ft-lb)

(2) Retighten the castle nut further up to 60° until the hole in the ball stud is aligned with a slot in castle nut.

(3) Insert a new cotter pin and bend it around the castle nut.

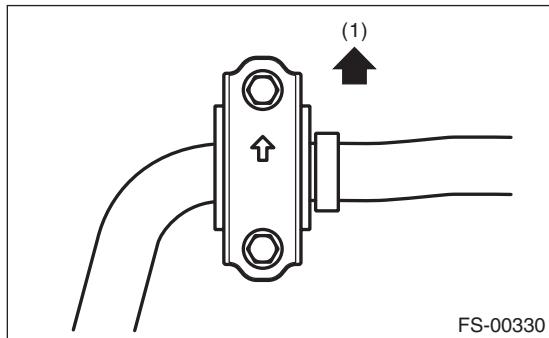
Front Ball Joint

FRONT SUSPENSION

3) Install the stabilizer bracket.

NOTE:

The stabilizer bracket has a set orientation. Install it with the arrow mark facing the upper side of the vehicle.



(1) Front side of vehicle

Tightening torque:

25 N·m (2.55 kgf·m, 18.4 ft-lb)

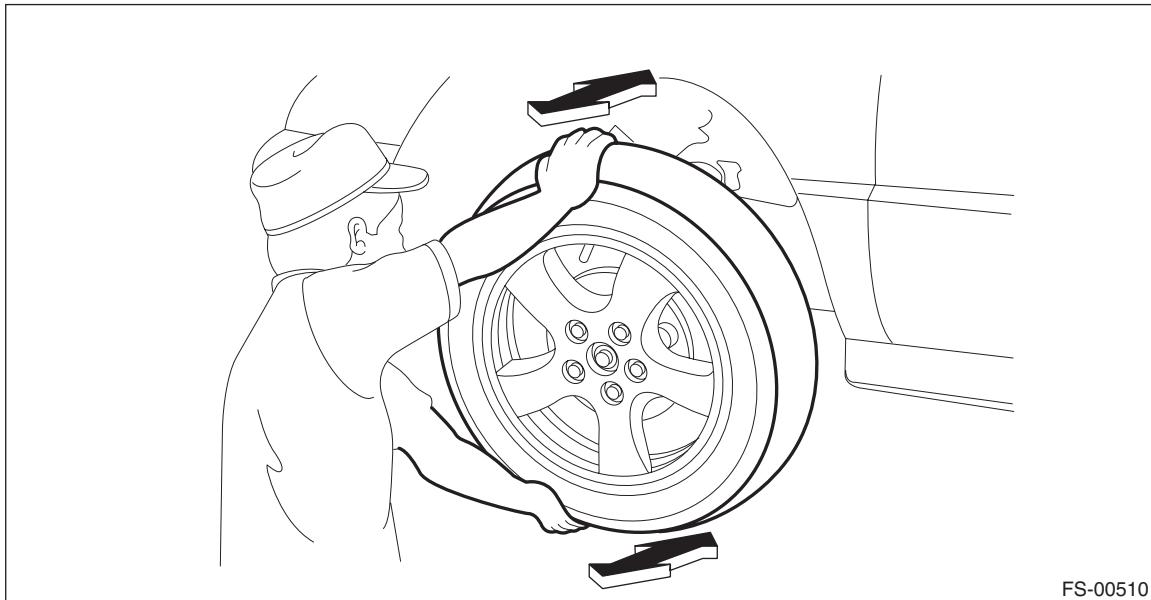
4) Install the front wheels.

Tightening torque:

120 N·m (12.24 kgf·m, 88.5 ft-lb)

C: INSPECTION

1) Check that there is no play by moving the upper and lower portions of front tire in an axial direction with the brake pedal depressed.



• **Play exists** → Replace the ball joint. <Ref. to FS-32, REMOVAL, Front Ball Joint.>

2) Check that there is no play by moving the upper and lower portions of front tire in an axial direction with the brake pedal released.

• **Play exists** → Check the hub unit bearing. <Ref. to DS-29, INSPECTION, Front Hub Unit Bearing.>

3) Replace the ball joint if the ball joint boot is damaged when visually inspecting the ball joint boot.